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The second edition contains detailed analyses of business conditions, special articles, review of foreign banking, and complete statistics showing the condition of Federal Reserve Banks. For this second edition the Board has fixed a subscription price of \$4 per annum to cover the cost of paper and printing. Single copies will be sold at 40 cents. Foreign postage should be added when it will be required. Remittances should be made to the Federal Reserve Board.

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

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FEDERAL RESERVE BULLETIN

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No. 1

REVIEW OF THE MONTH.

The month of December has been an exceptionally important period in Treasury Treasury finance. On Decemfinance. ber 15 the fourth quarterly installment of income and excess profits tax payments for the year 1919 fell due and was paid. Approximately \$670,000,000 was realized from this source. On December 15, also, interest payments on the first Liberty loan and on the Victory loan became due in the approximate amount of \$140,000,000. Because of the unusually large requirements of the Treasury, growing out of its interest payments for the month and of the necessity of meeting maturing certificates of indebtedness, of which about \$700,000,000 fell due in the course of the month, the Secretary of the Treasury on December 7 announced the sale of an issue of \$500,000,000 of Treasury certificates of indebtedness. These certificates were issued under the same general terms and conditions which had prevailed in previous issues, the rate of interest being $5\frac{3}{4}$ per cent for the 6-month and 6 per cent for the 12-month maturities. Total subscriptions amounted to \$790,449,500, of which \$589,-680.500 were allotted. The gross receipts of the department for the month on ordinary account amounted to \$931,989,397, while similar disbursements amounted to \$404,-575,091. A surplus on ordinary account was shown in the amount of \$527,414,306 for the month ending December 31, 1920, and for the first six months of the fiscal year 1921 in the amount of \$459,504,944.

The outcome of the transactions of the Treasury, in so far as their effect upon banking is concerned, was not materially different from that which has existed at previous quarterly periods when income and excess profits tax installments were received. At such dates

there is a sharp temporary contraction of liabilities on the part of Federal Reserve Banks, while there is a transfer of deposit credits from member banks to Federal Reserve institutions. Owing to the existence of commercial and financial depression, difficulties were encountered by some individuals and business estabtishments in obtaining the funds with which to settle their last installment of taxes due to the Government. One result of this situation was an increase in borrowing at some of the banks. while in other cases securities were disposed of for the purpose of obtaining funds with which to make settlement with the Government. This latter factor tended to produce much heavier sales on the stock exchanges of the country for a few days prior to December 15. Incidentally the tendency of the operations connected with or growing out of Government financing during the month was to render the money market rather more stringent than would otherwise have been true.

The developments during the months of November and December have Future policy. strongly emphasized the importance of future Treasury policy in its relation both to the banking and business of the country. It is evident that the Nation has practically reached the close of the period of post-war financing and that from this time forward excess-profits-tax receipts are likely to be much less than heretofore. Revision of the excess-profits tax has been recommended to Congress for some time past. On the other hand, the continued existence of a large volume of outstanding floating indebtedness maintains the Treasury Department as a continuously influential factor in the money market. These and other phases of the situation were fully reviewed by the Secretary of the Treasury in his annual report to Congress, in which he calls At such dates attention to the decrease during the past year

in the volume of outstanding certificates which had brought them down to a total of \$2,337,-000,000 on October 31, a decrease of about \$1,125,000,000 within the preceding twelvemonth period. Further reduction of these outstanding certificates is, however, as the Secretary clearly points out, entirely dependent upon the maintenance of "adequate revenues from taxation" and "rigid economy in expenditures" on the part of the Government. The near approach of the date when the Victory notes will become due and payable tends moreover to emphasize still further the necessity of a far-sighted policy in connection with Treasury finance in order that the volume of obligations to be met may not become unmanageable. As the Secretary states in his report:

"* * * Within a period of about two and a half years ending in May, 1923, there will thus become payable about 7½ billions of Government war obligations, of which approximately 41 billions represent Victory notes. Earlier plans and expectations were disarranged by the unexpectedly large burdens placed upon the Treasury by the transportation act. According to the estimates, there will be paid on account of the railroads during the current fiscal year probably a billion dollars, of which over 300 millions has already been called for and paid. Added to these expenditures are large payments to the railroads on account of the settlement of matters arising under Federal control. It is obvious that these payments limit the progress which the Government had expected to make in the retirement of the floating debt. It is expected, however, that perhaps the heaviest payments on account of the railroads will have been completed by the spring of next year, and then for the remaining months of the fiscal year the Treasury looks forward to a more rapid reduction of the floating debt. By the end of the fiscal year, in the absence of unforeseen contingencies, the floating debt should be brought considerably below two billions, perhaps to as low as a billion and a half. The balance should be retired during the fiscal year 1922, except such an amount as it may be necessary to keep outstanding in order to avoid money strain in connection with the quarterly payments of income and profits taxes and to finance the Government's current requirements in the intervals between the heavy tax receipts. By the end of the fiscal year 1922 the Victory loan should also have been reduced by at least a half billion dollars as a result of sinking-fund operations.

"The remainder of the Victory loan, perhaps 3¾ billions, will then have become substantially floating debt, as it will mature during the following fiscal year. Provision should be made, therefore, under proper Treasury regulations and, if necessary, by partial calls for redemption, for the acceptance of Victory notes during the fiscal year 1923, before maturity, in payment of income and profits taxes. In this way and through further sinking-fund operations it should be possible to reduce the Victory loan so that at maturity it would stand at about three billions of dollars. * * *"

These purposes, however, may be accomplished only, as already remarked, in the event that the income of the Government is maintained. On this point the Secretary says:

"* * * If rigid economy is practiced and the estimates reduced wherever possible, there is some hope that by the close of the fiscal year 1922 the floating debt may be extinguished, provided, of course, that adequate revenues from taxation are maintained. There is no certain means, however, of predicting the course of business or of incomes and profits, and it is a certainty that tax receipts even under existing law will not keep up to the 1920 level. There are also frequent efforts by extraordinary measures, like the soldiers' bonus, to bring about a radical increase in expenditures. In these circumstances—as was suggested in my letter of May 18, 1920, to the chairman of the Committee on Ways and Means of the House of Representatives—the only question which should be considered is whether a due regard for the protection of the Treasury does not impose upon the Congress a real duty to seek out additional sources of tax revenue for the next two years. The country at times is being encouraged to expect a reduction of taxes. Revision of taxes should be effected. There can and should be a better distribution of the tax burden. Unwise taxes should be eliminated. But any scheme which would after this fiscal year yield for several years to come less than four billions of dollars would be incompatible with safety and sound finance.

As the means to attain the end of which he speaks, the Secretary suggests a variety of possible measures, included among them being a revision of the higher schedules or rates of the income tax, the establishment of a new system of flat corporation surtaxes, and the establishment of various excise and luxury taxes, which he describes in considerable detail.

Immediate measures of revision were outlined in the letter of March 17, 1920, which the Secretary addressed to Hon. J. W. Fordney, chairman of the Committee on Ways and Means, to which reference was made in the Bulletin for April last. The banking significance of the suggestions thus placed before Congress is seen in the necessity of reducing the dependence of the Treasury upon current borrowing from the banks on the one hand and the desirability on the other of effecting an actual reduction in the amount of indebtedness outstanding, as well as of insuring a satisfactory market among investors for such issues of obligations as may be offered to the public in connection with the refunding of part or all of the Victory notes.

While, as pointed out by the Secretary of Finance and the Treasury, there has been very decided progress during the past year in reducing the volume of outstanding certificates of indebtedness, equally important progress has been made in eliminating from our banks holdings both of these certificates and of longer term public obligations. The condition of affairs in this regard is well worthy of special note. In the following tables are presented the positions both of Federal Reserve Banks and of the member banks in 100 selected cities which report weekly to the Board as regards their holdings of Government bonds and securities, of paper collateraled thereby, and of other investment paper:

Government securities, also discounted and purchased paper, held by 12 Federal Reserve Banks, monthly, 1920.

[In millions of dollars.]

Last Friday in-	Govern- ment securities.	Dis- counted paper col- lateraled by Gov- ernment securities.	Other discounted paper.	Purchased paper.
January	304	1,458	716	561
February	294	1,573	881	531
March	290	1,441	1,008	452
April	294	1,465	1,070	407
May	306	1,448	1 ^71	419
June		1,278	1,154	399
July	325	1.241	1,251	345
August	301	1,315	1,352	322
September	298	1,220	1,484	308
October	296	1,204	1,597	298
November	321	1.192	1,543	248
December	288	1,141	1,578	256

Government securities, also loans and other investments, held by member banks, monthly, 1920.

[In millions of dollars.]

Last Friday in	Government bonds and securities, exclusive of circulation bonds.	Paper collateraled by Government securities.	All other loans and investments.
January February March April May June July August September October November December	1,478 1,280 1,411 1,414 1,291 1,235 1,232 1,179 1,096 1,122	1,227 1,168 1,160 1,090 1,062 1,026 981 966 950 912 906	13, 550 13, 756 14, 111 14, 160 14, 200 14, 343 14, 373 14, 463 14, 742 14, 741 14, 435 14, 435

It is in connection with the portfolios of the selected member banks that the change in the banking situation and the improvement in liquidating power is best seen. As shown by the quoted figures there has been a marked decline in the holdings of Government bonds and securities. This decline in the case of the member banks alone amounts to about 29 per cent of the amount held last January. Another, though less marked, decline is noted in the case of paper collaterated by Government securities, which has fallen off from the peak point of last January in a proportion equal to about 27 per cent. "Other loans and investments" have offset by fully 7 per cent the reduction which has taken place in the collateraled paper, while, as often pointed out, this increase represents an advance in the quantity of support extended to active current business. Summed up, therefore, the results of the year's operations have been an important change in the actual position of the portfolios both of reserve and of member banks, so that the place formerly occupied by credits of a noncommercial and investment character is being more and more taken by credits which are the direct outgrowth of business operations.

With progress thus being made toward restoration of a more liquid condition in our banking portfolios, it is essential to note any factors that might result in endangering the advance made from time to time. This question has come up in an acute form during

the past few weeks in connection with two proposals. These are (1) that there be a restoration of the activity of the War Finance Corporation and (2) that direct assistance be given by the Government or by Federal Reserve Banks to interests which are suffering from reduction of prices of their products. The "revival" of the War Finance Corporation would be expected to result in the granting of export credits by that organization, the purpose being to take off accumulated surpluses of cotton, grain, and other items and to place them at the disposal of foreign countries in which a shortage of raw materials had developed, although there exists there abundant labor power for the working up of the raw materials into finished products. The idea of a grant of direct Government loans (or, what is the same thing, of loans made by the banks upon the strength of Government deposits left with them), or of easier rediscounts furnished by Reserve banks, has for its object the enabling of producers to withhold their goods from the market pending the time when prices of such commodities succeed in reaching a higher level. These plans have resulted in the resolution adopted by the Senate on December 13 and by the House on December 18, the resolution being sent to the President on December 19, vetoed by him on January 3 and passed by the Senate over his veto on the same date. Prior to the action of Congress hearings had been held by the Senate and House Committees on Agriculture in joint session, at which the views of the Secretary of the Treasury and the Governor of the Federal Reserve Board were heard. The reason for looking with disfavor upon the idea of reviving the War Finance Corporation was stated by the Secretary of the Treasury in the following language used in his annual report and repeated in substance to the congressional committees:

In the circumstances, producers whose products could not be satisfactorily marketed and whose prices were falling demanded that the Treasury intervene. They asked either that it deposit money in certain sections or that the activities of the War Finance Corporation be resumed.

"Neither of these things was feasible. The

to deposit except for Government purposes. It is not in the banking business and should not be. It is borrowing money periodically to meet current obligations at a cost of about 6 per cent.

"Furthermore, the War Finance Corporation was a war agency and was created to help win the war. It was clearly desirable that war agencies should cease to function as quickly as possible. The only power of the corporation which had any possible bearing on the situation is one which was inserted after the armistice with a particular possible state of facts in view. Fearing that with the cessation of exports for military purposes after the armistice exports might not go forward, Congress empowered the corporation, in order to promote commerce with foreign nations, to make advances under certain conditions. The War Finance Corporation had no money of its own. It or the Treasury would have had to borrow the money, and borrow it at a cost of about 6 per cent. * * * *" about 6 per cent.

Governor Harding, in his discussion of the banking aspect of the plans contemplated in the proposed resolution, expressed the following views:

"The Federal Reserve Board has always advocated the policy of orderly marketing of We realize that it is best for the producer, best for the consumer, best for the banking interests, and best for the railroads. Suppose an entire crop which takes the better part of a year to produce, a staple crop, should be dumped on the market in the course of two or three weeks or a month or two. The result would be that the pressure of the volume of that commodity, no matter how great the demand for it might be, on the market at one time would depress the price for it. It would tax the banks to furnish the money in advance of the consumptive need for the crop, and it would also tax the warehouse capacity, and the railroads would be burdened in furnishing transportation facilities.

"Orderly marketing means some marketing: it means some buying and some selling, a gradual and steady process. I would regard as an ideal condition the steady movement of a staple crop extended over a period of five or six months, thus causing no strain on anybody and giving the producer the benefit of the average price.

"It has been pointed out that there are certain staples for which there is at present no market at all. Well, I do not see anything to do in such cases but to arrange for renewals Treasury had no money to lend and no money on the best terms possible. But there are other staples for which there is some market, although prices are not satisfactory to the producers."

These considerations were influential in leading to the elimination in the House of Representatives of that part of the resolution which directed or suggested a relaxation of banking credit.

There have been a number of variants of the plan suggested in the congressional resolution to which reference has already been made. One of these is seen in the proposal to advance funds to Germany in an amount equal to the holdings of former German property in the hands of the Alien Property Custodian, the proceeds of the credit to be used in the purchase of cotton, grain, and other products. Some similar demands have been made in connection with plans for financing goods in warehouses. All such proposals tend to increase the amount of, "frozen credit" in the hands of the banks. They thus not only reduce the amount of goods to which the consumer has access but they also tend to reduce the amount of fluid credit which can be used for the purpose of promoting active business enterprise. As pointed out by Governor Harding in his testimony before the Senate committee, there has been no reduction in the total amount of credit available in the country at large. Aggregate liabilities of Federal Reserve Banks on account of reserve deposits and Federal Reserve notes combined at the close of December were \$5,116,944,000 as compared with the corresponding figure of \$4,898,767,000 a year earlier. The question at issue, therefore, is simply how the volume of credit already existing shall be used-whether it shall be used for the financing of new production, the maintenance of institutions which are actually disposing of goods and facilitating their movement from producer to consumer, or whether it shall be used for the purpose of withholding goods from the market or possibly of shipping them to foreigners who are not now in position to settle for them through return shipments. As to this latter point there should be no misunderstanding. It is not only desirable but practically essential that satisfactory arrangements be made for the financing of

action facilitating, as it necessarily will, the restoration of industry abroad and consequently the eventual liquidation of the claims which we now hold upon foreign countries. Such long-term advances, however, should be financed through the agency of actual investment credits provided by the placing of bonds or other evidences of indebtedness in the hands of individuals or institutions who are in position to supply the funds that are needed to "carry" these obligations until their foreign recipients are able to settle them.

In this same connection it is well to note that the request for special relaxa-Rate of dis- tion of credit in favor of a particular group of producers is only one phase of a demand for the general relaxation of credit. Subsequent to the opening of Congress at the beginning of December, bills affecting the functions or policies of the Federal Reserve System were introduced. Among them was Senate bill No. 4560, which, if enacted, would have fixed the maximum rate of interest or discount which Federal Reserve Banks could charge at 5 per cent per annum. This bill having been brought to the attention of the Federal Reserve Board with a request for an expression of its opinion, the Governor of the Board on December 16 addressed to Hon. George P. McLean, chairman of the Senate Committee on Banking and Currency, a statement in which he expressed the opinion of the Board, as follows:

"The Federal Reserve Board desires to put itself on record as unalterably opposed to this bill or to any other bill which in any way attempts to limit the power now vested in it and in the Federal Reserve Banks to regulate the rates of discount which those banks may charge. * * * In conclusion and by way of summary, if this bill should become a law it is the Board's firm belief that the Federal Reserve Banks would find it impossible while functioning in a normal way to protect their gold reserves, that the Federal Reserve System would within a very short time cease to be in any sense a reserve system and would become a mere instrument for the acceleration and perpetuation of expansion, and that a wholesale scramble for the funds of the Federal Reserve Banks would ensue which would leave those banks only two alternatives—one, to lend their a legitimate and reasonable export trade, such | funds at the rate prescribed until the exhaus-

tion of their reserves had been completed, and the other to fix a definite limit upon their total volume of loans, thus adopting a rigid system of credit rationing. In the one case they would reach a point where they would be unable to make further rediscounts, no matter how insistent or meritorious the demands might be, and in the other they would find it necessary to place all applications for discount accommodations on a waiting list until repayment of prior loans made new funds available.'

The views expressed in the letter from which quotation has been made are amply borne out by the experience of the Bank of England and of other foreign reserve banks in making discount rates for the regulation of money market conditions. In the general practice of central banks, rates have usually been slightly above the market rates—a plan which has been followed by the Bank of England for many years past. A study of the money market in the United States during the past year shows clearly that the present rates of discount prevailing in the United States are not the result of the rates of discount established at the Federal Reserve Banks, but are the outgrowth of the natural interaction of demand for and supply of capital following upon the relaxation of Government control of interest and discount rates.

As just explained, however, the reason for objecting to most of the plans Check to forcurrently set forth for the exeign business. tension of long-term credit is not found in their purpose but in the method they seek to apply. Indeed, the call for a rational system of foreign trade financing has become more and more evident during the past month or more in consequence of the growth of serious congestion in foreign ports. This congestion has now been carried to so advanced a point that in the case of some countries trading is practically at a standstill. At various South American points, for instance, official reports show that very large quantities of American goods were shipped to buyers in those countries but that these buyers have not been able to make settlement. In other cases the buyers have canceled their orders because of the belief that they could now buy at a lower level of prices in the United States. The result has been at some points to fill trade equilibrium in that country and to render

customhouses and warehouses with unsold goods which are "held up" pending a decision whether the buyers can be induced to take and pay for them either at the level of prices originally agreed upon or at some new level. This condition of affairs would not be so acute as it is were it not for the fact that staple products of various foreign countries have ceased to find a satisfactory market in the United States. Such articles as sugar, rubber, hides, and other basic exports to the United States are either not in demand in this country at the present time, owing to the congestion here and the slackening of manufacturing activity, or else the prices they command are so low that their foreign owners are not willing to part with them at existing rates.

The actual buying power of many foreign countries in the United States, already unfortunately reduced by war conditions, has been still further curtailed, the effect being to aggravate unfavorable conditions in exchange. One outcome of this situation, as already noted in previous issues, has been the establishment of moratoria in various countries or the creation of a condition of affairs practically equivalent to a moratorium. Coupled with the embargoes upon the movement of gold and specie which already existed, such action necessarily brings about a depreciation of exchange which is abnormal even from the standpoint of current conditions. A means of obtaining relief from the existing situation which is now much under discussion is that of placing in the United States loans of a sufficient amount to fund a substantial part of the outstanding indebtedness. This may be the most available means of relief. Evidently, however, it would have been better had there been from the outset in the trade with the countries which require such assistance recognition of the needs of the situation and a corresponding provision for placing the trade upon an investment basis. That has unfortunately been lacking in many instances. A representative of the State Department, for example, who has just inquired into conditions in Cuba, finds that a loan of from \$50,000,000 to \$100,000,000 will be needed in order to restore finance and it possible to end the moratorium existing there. While in no small measure the difficulty in our foreign trade is due to the sudden changes in prices that have occurred, it is also true that these changes themselves are in some degree the outcome of miscalculation and an improper basis of trading. The lesson of the present situation is emphatically that of making regular arrangements for putting our foreign obligations upon an investment footing.

The developments in our foreign trade during Foreign v. do-the past two months have clearly shown a marked inmestic credit. crease in the unfunded trade balance in favor of the United States which is being carried on the books of banks and of merchants. In the October issue it was estimated that this unfunded balance up to the close of September was probably conservatively to be figured at \$3,000,000,000. Taking the trade figures now available up to the end of November as a base and assuming a continuance of trade during the month of December at approximately the same rate as for November, it may be fair to anticipate a trade balance for the year of about \$2,800,000,000 in our favor, an estimate which would add fully \$600,000,000 to the estimate previously published. If this assumption be correct, our foreign trade since the armistice will show a credit balance still unfunded and amounting to about \$3,600,000,000 in our favor as against the remainder of the world. The question has been raised by some whether this credit balance may have operated to curtail the credit applicable to domestic business. In other words, it has been argued by some that as this great volume of credit has been extended to foreigners it must have had the effect of reducing the amount of credit which could be extended to our own citizens. From this, inference has been drawn that a continued favorable balance of trade would have a continuously unfavorable effect upon domestic commerce and industry, inasmuch as it would mean the transfer of an increasing proportion of bank credits from domestic business to export business. This view hardly recognizes the fundamental facts in the situation.

The credits which are opened on behalf of European importers or buyers by banks in the as to require for its proper management the

United States are American credits, not foreign credits. They are opened for the purpose of enabling the European importer to obtain a domestic credit in the United States with which he can pay for Amercain products destined for European use. It is a domestic credit, not a foreign credit, that is granted by the American financial institution involved in the transaction. It is a domestic credit foreign in its incidence only in that it is granted to a foreign buyer in order to finance an export from the United States to a foreign country. It is, therefore, only the goods constituting the export which leave the country. The credit opened by the American bank remains behind as a part of the total volume of banking credit outstanding in the United States, and passes from hand to hand as is the case with all ordinary banking credits.

Still more apparent is this the case when the credit which finances the export to Europe is an ordinary credit granted to the American producer or exporter. Neither class of these two transactions can properly be said to reduce the quantity of credit available or in use in the United States. This may be seen by a glance at the situation which has developed during the past few months. The credit which has been extended for the support of our export trade has, as is often remarked, been largely extended to individuals and firms in the form of loans which have enabled them to continue their process of production here at home. They have, in short, continued their employment of labor and their demand for raw materials, and the "credit" granted to them by the banks has thus continued its existence as domestic credit, being transferred by those who received it to others from whom these recipients bought the goods or services. The effect of our foreign trade, therefore, has not been to diminish the amount of credit granted but rather to increase it, and this, in fact, is the more serious criticism to be made in connection with our present export trade. Too much of it has taken the form of "credit," which has continued in existence long after it should have been canceled or paid.

Our foreign credit has been of such a nature

absorption of bonds or long-term obligations of one kind or another which could be used to "fund" the outstanding indebtedness, thereby reducing the quantity of credit granted by the banks and transferring it to the investor in the shape of securities. A packer, for example, who sells abroad \$3,500,000 worth of meats, for which he receives, say, £1,000,000 in credit in an English bank, may borrow dollars in New York or Chicago against this balance. With these dollars he buys more animals, and the seller thereof still further enlarges his operations by the use of the proceeds. Thus the "credit" continues its local existence until the claim against the English bank is liquidated by some form of payment. It is because of the lack of such a funding arrangement that the outstanding balance in our favor has grown so great and now constitutes an element of concern in our international trade situation. Those who view our foreign trade as in some sense prejudicial to home conditions of credit or production should constantly bear in mind that the effect of it is not the limitation of bank credit, but its undue expansion, and that the harm resulting from it, if harm there be, is found in the fact that it deprives us of the use of our productive resources, which might otherwise, theoretically at least, be retained and applied at home; while it results under present conditions in unduly enlarging the amount of nonliquid or "frozen" bank credit which remains in existence on the books of our various financial institutions and which consequently exerts an undue effect in the raising of prices for those goods which are in fact retained at home. The situation at present is such that while we export capital we get credit in return. Danger lies in a shortage of capital, not in a curtailment of credit.

Conditions as thus indicated are, of course, not favorable to the reestablishment of normal conditions in foreign exchange. During the month of December foreign exchange rates have shown renewed tendency to decline and have in general maintained themselves on a low level. This has not been consistently true throughout the month, sporadic improvement

in the values of sterling or other currencies occurring from time to time. Indeed, at about the middle of the month sterling rates on one occasion reached a figure considerably higher than any that had been established for several weeks past, but then, as on other occasions, the existence of the high rate promptly led to efforts on the part of holders of foreign balances to realize, with the result that quotations again became depressed. In the following table are reviewed the principal changes in exchange rates week by week during the past month:

Foreign exchange rates

	Dec. 4.		Dec	. 11.	Dec	. 18.	Dec. 24.	
	High.	Low.	High.	Low.	High.	Low.	High.	Low.
England	3, 4875	3. 4550	2 4600	3 4975	3 5975	2 4462	3.5350	3.4875
France	. 0607	. 0597	. 0596					.0584
Italy	. 0368	. 0356		. 0349				.0338
Spain	. 1316	. 130	130	1266				.1271
Argentina	. 3475	. 3425		.3538				
China:			1000				101010	102220
Hong Kong	6500	. 6075	. 6000	. 5400	. 5600	. 5450	. 5625	.5475
Shanghai	. 8500	. 7950	. 7900					.7200
Japan (Yoko-				(
homa)	. 5038	. 5038	. 5038	. 5038	. 5038	. 4950	.4925	.4875
Germany	.0146	. 0140	. 0137	.0129	.0140	. 0133	.0139	.0138
Switzerland	. 1568	. 1561	. 1557			. 1507		. 1520
Sweden(Stock-				1			1	1
holm)	. 1945	. 1930	. 1935	. 1920	. 1980	. 1925	. 1975	. 1970
Holland	. 3050	. 3038	. 3048	.3040	.3140	. 3042	.3125	.3115
Belgium	.064	. 0631	. 062€	. 0619	. 0634	. 0612	.0625	. 0619
Canada	. 882	. 873	. 870	. 863	. 863	. 846	. 850	.840
Silver in New		-		i l				
York	. 71	. 68	. 68	. 591	. 66	. 621	.65%	.62

One factor which during the month has been of special importance in depressing rates of exchange on oriental and silver-using countries in general has been the price of silver bullion. While the so-called "domestic silver" has been maintained in value at or near \$1 per ounce as a result of the purchasing policy of the United States Treasury, the price of silver bullion in the open market has been quite steadily downward. It has now reached practically a prewar level, as may be seen from the following brief table:

Price of silver bullion.1

Dec. 16, 1913	\$0.57\$
Dec. 15, 1916	. 763
Dec. 14, 1917	. 85§
Dec. 15, 1918	$1.01\frac{5}{8}$
Dec. 15, 1919	1. 311
Dec. 15, 1920	. 66

¹ Prices taken from Journal of Commerce, New York. Quoted a official" 1913-1917, as "tar" 1918-19, as "foreign" in 1920.

This fall in the price of silver has had a correspondingly depressing effect on the oriental exchanges, which have in a measure fluctuated in sympathy with changes in the value of silver bullion. In trade with South America and with some other nations which have largely overbought of American goods, exchange rates have become nominal and the purchase of remittances has been practically impossible. Thus for some weeks past foreign exchange transactions between Australia and the United States and between this country and several of the South American countries has been nearly out of the question, the banks declining to furnish dollars in the United States in return for claims upon banks in those markets. The reason for this situation is found in the existence of a large unfunded bank balance in favor of the United States in all those countries, or, what is the same thing, the existence of very large mercantile indebtedness in those countries due to American merchants and constituting a demand for dollars in New York which could not be satisfied through ordinary methods of remittance. The shipment of gold or specie being embargoed, this practically rendered the making of payments out of the question and made it necessary for the banks in effect to suspend the extension of further accommodation to such branches of trade.

The situation at the end of the year, both as affecting the United States and Foreign bank- foreign countries, is necessarily ing. very deeply influenced by the foreign banking position. A review of the situation abroad appears, however, to afford comparatively little support for the hopes of improvement which were strongly expressed at the opening of the year. At that time predictions were made that in some countries, especially in Great Britain, a strong stand against banking inflation would result in material reduction of outstanding currency and liabilities in the course of the 12-month period, while the attitude adopted by the British Treasury with respect to the currency notes then in circulation appeared to hold out good promise of a sound plan for the handling of public finance in its monetary aspects. The developments | floating debt at a very high level. The exist-

of the year scarcely seem to bear out the ideas then suggested, the 12 months of 1920 being on the whole a period of continued inflation and excess both in currency and banking credit. During the year the reserve of the Bank of England has fallen to a materially lower point, going on December 1 to 7.32 per cent, although later showing some recovery from this extreme of depression, followed by fluctuation. A very similar course of events has been witnessed in France, although the situation is better than in 1919, while in Germany banking conditions have appeared to move steadily from bad to worse. The actual course of events in some of the principal banking countries of Europe is indicated in the following brief tabulation, which contrasts conditions toward the close of 1920 with those which existed about a year earlier:

Comparison of conditions of leading European central banks, November, 1919, and November, 1920.

	(Bank of France.						
End of month.	<u> </u>								
End of month.	Gold reserve.1	Bank an currency note circ lation.2	at Ba	nk ng-		old rve.3		ote cir- ılation.	
November, 1919. November, 1920.	116 15 3		22 88	120 123	;	5,577 5,492		37, 42- 38, 80	
		Italy.4		Ger	ma	n Reio	ehs	bank.	
End of month.	(000,000 lire			000,	000 m	arl	ks.	
	Re- serve.5	Note circu- lation.6	De- posits.7	Gol re- serv	.	Note circu lation	-	De- posits.	
November, 1919 November, 1920	2,074	15,600 18,912	2,389 2,493	1,0	91 92	44,84 76,65	1	11, 138 17, 340	

Held by Bank of England and by the Treasury as note reserve. Bank notes held as reserve in currency notes account excluded. Includes gold held abroad.

One of the striking features in the finances of most of the European countries is seen in the continued maintenance of the unfunded or

Items are aggregates for Banca d'Italia, Banco di Sicilia, and Banco

di Napoli.

⁵ Reserve includes gold, silver and foreign holdings, but not holdings of Treasury.

⁶ Government notes not included.

Includes deposits on current account bearing interest, and drafts asyable on demand.
 Includes Reichsbank notes and Darlehnskassenscheine.
 Italian figures apply to end of September.

ence of this unfunded debt has everywhere had substantially the same effects. It has necessitated a resort on the part of the public treasuries to the banks in order to obtain the support which was needed to carry the obligations pending the time that they could be put into the hands of investors. The advance of the rates of interest on such unfunded indebtedness, which was determined upon in Great Britain and was paralleled in other countries, including our own, has had the effect of encouraging investors to take up and hold some part at least of these short-term public obligations. The success thus had has been only partial, and its incompleteness has given rise to proposals like those recently under consideration in England, which have contemplated the funding of the floating debt through the issue of long-term bonds to be sold in the United States. France the tendency of public authorities has been to allow the floating debt to run with successive renewals pending the time that arrangements could definitely be made for collecting the reparations which had been levied upon Germany. The slowness of progress toward such collection has been a discouraging element in the situation, but has not brought about an equalization of the budget in France, financiers preferring to continue the negotiations with Germany in the hope of obtaining budgetary relief, of which they stood in need. A new session of the Brussels financial conference, which convened on December 16 and which was charged with immediate consideration of the German reparations question, may possibly prove to be the final stage in the progress of the reparation problem, and so of making possible some adjustment in connection with the short-term indebtedness now employed as a means of carrying the differences between the product of taxation and the total amount of the budget on all scores. During the course of the year it has been recognized as more and more essential that in some way there should be a disposal of this floating debt and that recourse to the banks for current funds to be used in Government operations should cease. Until, however, the whole question of the German reparations is disposed of and a fairly

tive settlement of the budget or exchange issues is likely to be attained. This is clearly the considered opinion of experts who have examined the situation with the most care.

The Geneva conference of the League of Nations, which has been in ses-Financial consion during the past month, has ferences. practically adopted the plan for

international credit which was developed at and recommended by the Brussels conference and which practically follows the suggestions made by M. Ter Meulen. Details of the Ter Meulen plan were published in the FEDERAL RE-SERVE BULLETINS for November and December. The Geneva conference has provided for the working out of further details of these credit proposals at the hands of an expert commission shortly to be appointed, while in the meantime a new financial conference was summoned to meet at Brussels and began holding its sessions on December 16. Two phases of the Brussels-Geneva scheme are worthy of special note. One is the so-called "Veredlungs-kredit" or "finishing credit." Under it arrangements are to be made for the shipment of raw products from one country to another in which there is an available supply of labor, the understanding being that the product of the industrial operation is then to be worked up into consumption goods, a proportion of which shall be returned to the shippers of the raw material in order that it may be sold on the home market and the proceeds applied to reimbursing those who shipped the material in the first place. The other phase of the plan is the provision of an issue of bonds secured by assets of various kinds which are to be deposited by foreign applicants for credit with the treasury of their own country. Such a treasury, after satisfying itself that the offered securities are sound, is then authorized to issue its own bonds to the would-be borrower. The League of Nations undertakes to oversee all such credits by determining what amount can reasonably be issued in any one country, thus assuring the rationing or proper distribution of such credit as is available in the world to those countries which stand most in need of it. Both plans have much to recommend them, and the principle of definite adjustment arrived at, no final or posi- both has already been employed in a limited

way in the postwar financing of various countries. The question how far they will actually succeed in solving the present international credit problem essentially depends upon the amount of saved or available capital which can be found in the world at large and the rate at which the bonds are issued. The plans, however, ought to be of service in bringing about a better interchange of products and an adjustment of the supply of credit to the demand for it. Much of the success will, of course, be based upon the skill with which these plans are actually developed and put into operation. The extent to which such securities can be widely popularized among investors the world over will be an important element in the working out of the plan. This is already recognized, it being admitted that an extensive bond-selling campaign would be necessary in a country like our own, for example, if the rank and file of investors are to be induced to put their savings into the securities thus offered to them. Underlying the whole question is, of course, the matter of taxation and budgetary control. Unless the countries which issue such bonds are themselves in a solvent condition, their budgets either efficiently balanced or in prospect of being so, the advantage of having government bonds issued on a basis of deposited securities in the way suggested would be comparatively limited. Nearly as good results could probably be obtained in that case through some other method of hypothecating the underlying assets put up by the private borrowers. Failure to bring about an agreement designed to reduce armaments the world over is necessarily a somewhat serious handicap to the eventual success of this credit proposal. Should such a reduction of armaments and corresponding saving of funds be brought about, the proceeds to be applied to reduction of taxation, or to industrial use, or to the lessening of public debt, the effect upon the quotation of the proposed bonds would undoubtedly be a very marked

During the month ending December 10 the net inward movement of gold was \$31,051,000, as compared with a net inward movement of \$62,519,000 for the month ending November 10. Net imports of gold since August 1,

1914, were \$847,380,000, as may be seen from the following exhibit:

[In thousands of dollars.]

	Imports.	Exports.	Excess of imports over exports.
Aug. 1 to Dec. 31, 1914	23,253 451,955	104,972 31,426	1 81, 719 420, 529
Jan. 1 to Dec. 31, 1916	685,745	155,793 372,171	529,952 181,542
Jan. 1 to Dec. 31, 1918. Jan. 1 to Dec. 31, 1918.	61,950	40,848 368,185	21,102 1 291,651
Jan. 1 to Dec. 10, 1920.	384,256	316,631	67,625
Total	2,237,406	1,390,026	847,380

¹ Excess of experts over imports.

England furnished \$40,550,000, or over 80 per cent, and France \$4,672,000 of the \$50,-481,000 of gold imported during the monthly period ending December 10; Colombia, Canada, the Netherlands, Mexico, and the Dutch West Indies furnishing most of the remainder. Of the gold exports, amounting to \$19,430,000, over 92 per cent or \$18,006,000, was consigned to Japan, and the remainder principally to Canada, Hongkong, and Mexico. Since the removal of the gold embargo on June 9, 1919, total gold exports have amounted to approximately \$670,427,000. Of this total, \$192,-414,000 was consigned to Japan, \$146,555,000 to Argentina, \$69,715,000 to Hongkong, \$67,-396,000 to China, \$40,812,000 to British India, \$29,778,000 to Spain, and the remainder principally to Mexico, Uruguay, the Dutch East Indies, the Straits Settlements, Canada, and Venezuela.

During the same monthly period the net outward movement of silver was \$136,000, as compared with a net outward movement of \$282,000 for the month ending November 10. Net exports of silver since August 1, 1914, were \$454,707,000, as may be seen from the following exhibit:

[In thousands of dollars.]

-			
	Imports.	Exports.	Excess of exports over imports.
Aug. 1 to Dec. 31, 1914	34,484	22,182 53,599 70,595 84,131	10,053 19,115 38,332 30,791
Jan. 1 to Dec. 31, 1918		252,846 239,021 110,759	181, 470 149, 611 25, 335
Total	378,426	833,133	454,707

Mexico furnished \$3,399,000, or over threefifths, of the \$5,568,000 of silver imported during the monthly period ending December 10, most of the remainder coming from Peru Chile, Honduras, the Dutch East Indies, and Canada. Of the silver exports, amounting to \$5,704,000, over one-half, or \$2,930,000, was consigned to Hongkong, \$1,315,000 to China, and the remainder principally to Canada, British India, Japan, and Mexico.

Principal changes in the condition of report-The banking ing member banks between No-vember 19 and December 10 situation. included the liquidation of about 92 millions of tax certificates in anticipation of their redemption on December 15, an increase of about 20 millions in loans supported by corporate securities and a reduction of nearly 150 millions in other loans and investments, composed mainly of commercial loans and discounts. For the first three weeks the reporting banks' aggregate loans and investments show a reduction of 212 millions, while their borrowings from the Federal Reserve Banks went up nearly 25 millions. In connection with December 15 tax payments and Government operations on the same date, including the redemption of about 700 millions of tax certificates, the payment of semiannual interest on the first Liberty bonds and on Victory notes, also the issuance of about 590 millions of 1921 tax certificates, there is seen a considerable increase of all classes of loans, also of the banks' investments in Treasury certificates. During the week ending December 17 the reporting member banks increased their certificate holdings by nearly 120 millions and their loans and other investments by 96.5 millions. while at the close of the subsequent week they report a decrease of 8.9 millions since November 19 in United States securities, increases of 7.3 millions in their loans secured by Government war obligations, and of 59.6 millions in their loans supported by corporate securities, as against a decline of 94.7 millions in by the Boston, Philadelphia, and Cleveland their other loans and investments, or a total increase in loans and investments for the five weeks of 9.7 millions. On the other hand, redemption of Treasury certificates by the Gov-

rowings from the Federal Reserve Banks during the week ending December 17 by about 112 millions. These borrowings were, however, resumed on a large scale during the following week, reaching a total of 2,176.8 millions, or slightly over 13 per cent of the banks' total loans and investments on December 24, compared with 2,119.2 millions on November 19. or 12.6 per cent of the banks' total loans and investments on that date.

During the period between November 26 and December 30 the Federal Reserve Banks' holdings of discounted bills fluctuated between 2,776.8 millions on December 3 and 2,596.7 millions on December 17, the Friday following the redemption of nearly 700 millions of tax certificates. During the following week a large volume of tax checks passed through the clearing houses, besides the Government made its first call for funds deposited the week before, and the result is seen in larger scale borrowings by member banks and an increase by 135 millions in the Federal Reserve Bank holdings of discounted bills. Holdings of acceptances declined from 247.7 millions on November 26 to 234.6 millions on December 17 (a low record for the year), but show a gain to 255.7 millions on Thursday, December 30. Treasury certificates on hand show considerable fluctuations in keeping with the amounts of special certificates held by the banks to cover temporary advances to the Government. The total of such special certificates reached the high figure of 93 millions on December 17, following the large disbursements of the Government in interest payments and in redemption of the tax certificates, but declined to 18 millions on the following Thursday. No certificates of this class were held by the Reserve Banks on Thursday. December 30.

A further decrease is shown in the volume of interbank rediscounting, the total of paper held under discount for other Reserve Banks banks showing an almost continuous reduction from 154.1 to 115.3 millions. The list of rediscounting institutions included at the close of the period under review the Federal Reserve ernment enabled the banks to reduce their bor- | Banks of Richmond, Atlanta, Minneapolis,

Kansas City, and Dallas, both the New York and St. Louis banks having redeemed their outstanding rediscounted paper. The Atlanta and Minneapolis banks show smaller amounts outstanding than five weeks before.

Net deposits fluctuated between 1,667.3 millions on December 3 and 1,542.6 millions on December 17. On December 30 the total stood at 1,604.2 millions, or 19.4 millions below the corresponding November 26 total, variations in this item reflecting to some extent the varying amounts of the "float" carried by the Reserve Banks, and to a lesser extent changes in reserve balances carried by the member banks. Federal Reserve note circulation, after some reduction during the first two weeks, shows the usual preholiday expansion, the increase for the two weeks preceding Christmas being 93.1 millions, compared with over 150 millions, for the corresponding two weeks in 1919. During the last week of the year the return flow of Federal Reserve notes to the Federal Reserve Banks set in, and Federal Reserve note circulation shows a decline of over 60 millions for the week. Gold with foreign agencies shows a reduction of nearly 67 millions, this amount representing the balance

of the ear-marked gold held until recently by the Bank of England for account of the Federal Reserve Banks, which having been received in this country, is now included with the banks' other reserve holdings of gold. The account "Gold with foreign agencies" now stands at 3.3 millions, the amount of ear-marked gold held for the account of the Federal Reserve Banks by the Bank of France. Total gold reserves, as the result of further net gold imports and deposits by the Treasury, on December 30 stood at 2,059.3 millions, an increase of 35.4 millions since November 26, while total cash reserves show an even larger gain for the period from 2,195.3 to 2,249.2 millions.

The banks' reserve ratio fluctuated between 44.1 per cent on December 3 and 45.5 per cent on December 17, the highest ratio attained during the year. On the following Thursday, mainly because of the large increase in the banks' note liabilities, the ratio shows a decline to 45.1 per cent. Reduction in Federal Reserve note circulation, together with an increase in cash reserves during the following week, caused a rise of the ratio to 45.4 per cent at the close of the year.

BUSINESS, INDUSTRY, AND FINANCE, DECEMBER, 1920.

Further progress in business readjustment has been the characteristic feature of commercial and industrial development during the month of December. Such readjustment has been accompanied by a further decline in prices, which has brought the level shown by the Board's index number at the close of November to 190 per cent of the level of 1913 (a decline for the month of about $8\frac{1}{2}$ per cent). An increase of unemployment growing out of reductions of business activity, which have cut operations to figures varying from 40 per cent to 75 per cent of normal, has affected labor unfavorably. Wage cuts running as high as 20 per cent to 25 per cent in some lines have accompanied the shrinkage of demand, and there has been a falling off of export trade. On the other hand, banking power has been well maintained, normal credit accommodation has been extended to legitimate business, the reserve ratio has grown stronger, and interreserve bank borrowing has been in part liquidated. At the member banks liquidation of loans is beginning and better conditions are foreshadowed.

From district No. 1 (Boston) it is reported that the liquidation in commodities, while drastic, has been on the whole orderly, regular demands for credit have been granted, and the

banking situation is stronger.

From district No. 2 (New York) it is reported that money rates have grown easier, wholesale price declines have been the sharpest of the present movement, manufacturing is in reduced volume, and export trade is declining. Retail trade has been well maintained. There has been an adequate supply of banking accommodation.

From district No. 3 (Philadelphia) it is reported that there has been but little change of conditions from the preceding month, manufacturing and wholesaling being quiet, while retail trade is larger than last year.

From district No. 4 (Cleveland) it is reported that money conditions are encouraging, prices are still receding, manufacturing continues to be restricted in volume, railroad efficiency is large, while curtailment of output and lowering of wages are in evidence throughout the iron and steel trade.

From district No. 5 (Richmond) it is reported that business in wholesale and manufacturing lines is inactive, building operations at a minimum, and unemployment prevalent, but signs

of improvement are noted.

From district No. 6 (Atlanta) it is reported that most of the cotton crop has been harvested but is being largely held, while farmers gen-

erally feel the effect of low prices. Other markets are quiet. Coal production has increased. Lower prices of pig iron have not produced any great amount of business.

From district No. 7 (Chicago) it is reported that liquidation of bank loans is progressing favorably. Farmers are suffering from low prices, but effort is being made to supply the credit they require. Retail trade has held up

well, all things considered.

From district No. 8 (St. Louis) apathy in buying is reported. Price cuts have gone further and there is increase of unemployment. Transportation has largely improved and banking conditions are even better than heretofore.

From district No. 9 (Minneapolis) it is reported that grain receipts have somewhat fallen off, while stocks of grain have increased. Flour production has improved. Prices in general have declined. Bank conditions are stronger. Retail trade has held its own.

From district No. 10 (Kansas City) it is reported that there is slowing down of business in nearly all lines, but there is a general belief that conditions will soon be righted and a foundation is being laid for decidedly better business. Only slight evidences of liquidation are to be noted

From district No. 11 (Dallas) it is reported that there will be a "large carry over" both of debts and commodities into 1921. Movement of goods shows decrease pretty generally, but

retail trade has held up well.

From district No. 12 (San Francisco) it is reported that retail trade is good, wholesaling less active, crops moving steadily to market, livestock and allied interests in favorable position, and financial prospects favorable.

Agriculture.—The weather conditions which have prevailed generally throughout the agricultural sections have been favorable for farm operations. The husking of corn has been carried forward rapidly and is practically finished in most districts. In district No. 4 (Cleveland), however, husking has been slow and the warm, moist weather has injured the quality of corn to some extent. The weather conditions have also aided materially in fall plowing and the preparation of the ground for next season's crop. Winter wheat has made a good start and is in a good condition to go through the winter. In some sections there has been some damage from the Hessian fly, but the colder weather will tend to eliminate this evil.

An indication of the extent to which cotton picking has progressed is afforded by the num-

ber of bales ginned prior to December 1, which was 10,144,921 in 1920, as against 8,844,368 in In some sections rains have delayed picking to some extent, while in other sections farmers are reported to be abandoning the cotton because of the decline in price and the relative scarcity of pickers, together with the high wages demanded. In southern Oklahoma cotton picking continues, although reports are to the effect that a considerable portion of the crop will be pastured after the first picking. There has been considerable deterioration in the quality of the lint, due to the wet weather, and the bulk of the ginning is reported to be grading below middling.

Movement of cotton to market has been relatively slow, receipts showing a sharp and unseasonable falling off. In some sections it is reported that sellers have complained that they were unable to sell their cotton at any price unless it was of superior grade. However, cotton farmers in many sections show a tendency to hold as much as possible of their crop off the market, in the hope of an advance in price. Many new cotton storage ware-houses have been constructed. The low prices realized for cotton have resulted in considerable attention being given to the reduction of next year's acreage, some planters proposing a decrease of one-third and crop rotation has

been urged.

Live stock.—Live stock on farms and ranges in district No. 10 (Kansas City) is "generally healthy and in good condition." The tendency is fast disappearing to abandon the business and sacrifice the stock. As feed is cheap and plentiful, there is more of an incentive to put flesh on the animals in spite of the low prices prevailing. Southwestern ranges and live stock, with few exceptions, "are entering the winter in the best condition they have enjoyed for many years." Receipts of cattle at 15 western markets increased from 1,628,564 head during October to 1,781,261 head during November, the respective index numbers being 162 and 177, as compared with 2,038,786 head, corresponding to an index number of 202 during November, 1919. Receipts of hogs increased greatly between October and November, being 2,624,185 head during November, as compared with 1.836,748 head during October and 2,659,251 head during October, 1919, the respective index numbers being 119, 84, and 121. On the other hand, receipts of sheep were less, being 1,542,477 head during November, corresponding to an index number of 113, as compared with 1,865,330 head during October, corresponding to an index number of 136, and 1,742,668 head during November, 1919, corresponding to an index number of 128. Novem- 1919. On the other hand, in district No. 9

ber cattle receipts at Fort Worth, however, were the smallest on record for that month since 1912, and "were generally of an unde-sirable quality." With declines in the prices of hogs in December receipts for the first half of the month in the principal markets in district No. 10 (Kansas City) again fell below those of a year ago. The St. Paul cattle market was depressed to the lowest levels of this year, in part as a result of large receipts (especially of common and poor grade, which are always hard to market at this time of the year), slackened country demand for stockers and feeders, inadequate stock cars for shipping, and low prices at eastern markets. Heavy marketings and declines in grains and provisions contributed to a decline in hog prices, closing prices for the highest grades on November 30 being \$9 to \$9.65, as compared with \$12 to \$12.25 on October 30.

Other crops.—The tobacco situation has shown but very little change during the past month. The opening of the western dark markets in Kentucky was disappointing to the farmers because of the prevailing low prices, together with the decreased demand. In district No. 5 (Richmond) "the farmers have shown a tendency to sell their off-color and poorer grades, apparently holding their best tobacco until after the holidays in the hope of better prices." Export demand for leaf tobacco is very small, while manufacturers' stocks are reported large and their purchases have been kept at a minimum. The slackening of demand for manufactured goods continues, with the result that some factories are closed while others are running only on part time. The decreased demand is most noticeable in the case of cigars, and the retailers' orders are falling off in consequence.

Fruits.—Shipments of California fruit have been very satisfactory, and transportation facilities have been excellent throughout the shipping season. While the boxed apple crop is placed at 27,633,000 boxes, as compared with 35,415,000 boxes in 1919, approximately two-thirds of the crop is out of the producing districts and the storage holdover much smaller than in 1919. Shipments of oranges are slightly below shipments during the same period last year, but shipments of lemons have been the largest ever recorded in California.

Grain and flour.—The movement of grain to market has varied somewhat at different centers. In district No. 10 (Kansas City), November wheat receipts at the principal markets were about 13 per cent larger than the receipts for the month of October, but were 11.6 per cent below the receipts of November,

(Minneapolis) receipts at Minneapolis and Duluth were 15.5 per cent below October receipts, but were 47.1 per cent above receipts for November, 1919. It is reported that about 50 per cent of this year's crop is still on the farm as against about 35 per cent at the same time last year. In district No. 10 "notwithstanding the fact that a bumper crop of corn was raised in the big corn-producing States as compared with the small crop of last year, the primary receipts of corn at the markets of this district were about 42 per cent below the receipts in the same period of 1919." In Minneapolis and Duluth corn receipts were well above November, 1919, and more than double receipts for October, 1920. Receipts of oats, barley, rye, and flax decreased as compared with October, but in each case were above receipts for November, 1919. The prices of grains throughout the various markets have shown a decline with only a few minor exceptions. The closing price of cash wheat No. 1 dark northern at Minneapolis on November 30 was $$1.50\frac{7}{8}$ to <math>$1.54\frac{7}{8}$$, while the closing price on October 30 was $$2.13\frac{1}{4}$ to In district No. 10 (Kansas City) it is reported that "wheat prices rallied the first week in December after a continued decline in November, but at the end of the second week a weakness was developed which brought wheat down almost to the low level of the last week in November."

The flour market continues dull. "Millers report conditions in their business the most unsatisfactory experienced in recent years," states the report from district No. 8 (St. Louis). Hard-wheat patents were quoted in Kansas City on December 14 at \$8.50 to \$9, as compared with \$9.35 to \$9.50 on November 16. Aside from the absence of demand, particular complaint is made of the instability of wheat futures and the resulting disorganization of the flour market. There has been a further slowing down of milling operations in this district. The total output of a selected group of mills in November was 1,285,155 barrels, as compared with 1,970,977 in November, 1919, and operations during the six weeks ending December 11 have been at 53.3 per cent of capacity, as compared with 87.8 per cent for the same period last year. Production in district No. 9 (Minneapolis) during the four weeks ending November 27 was 2,460,495 barrels, an increase of 8 per cent over the figure of 2,279,990 barrels for the four weeks ending October 30, but was only 82 per cent of output a year ago, which was 3,012,465 barrels, the reporting mills representing 75 per cent of the total production in the district. Present

operations in district No. 8 (St. Louis) are only 45-50 per cent of capacity. St. Louis mills have effected a cut in the wages of all

operatives of 50 cents a day.

Cotton textiles.—Although a slight increase in the buying of cotton by New England mills has occurred during the past month, according to the report from district No. 1 (Boston), purchases have been much below normal, while mills in the Carolinas are said "to have been out of the market for some time" (District No. 5, Richmond). In view of the limited demand and the size of the crop, which, according to final estimates of the Department of Agriculture will amount to 12,987,000 bales, it is not surprising that price declines have been continuously recorded. From November 20 to December 20 there was a decline of slightly more than 10 per cent in the price of spot cotton in New York, while the fall from the maximum price recorded in July amounted to 63.75 per cent. For 22 towns in the Carolinas the Bureau of Markets quoted prices averaging only 14.41 on December 11, and district No. 5 (Richmond) reports that the market was limited even at this low level.

The New England mills are estimated to have been operating at even lower capacity during the middle of December than they were during the previous month, when 30 per cent to 40 per cent of operating capacity represented the average for district No. 1 (Boston). In district No. 5 (Richmond) it is stated that in Gaston County, N. C., where the fine-yarn industry of the district is largely concentrated, the mills

have closed down entirely.

The report on cotton consumption issued by the Census Bureau in November reflects the cessation of manufacturing activity, the amount consumed, 332,057 bales, falling below that reported for August, 1914, by 51,943 bales. The cotton consumption of the New England mills for the month ending November 30 was only 100,442 bales, as compared with 168,167 bales reported for August. On the other hand, the reduction in cotton stocks of these mills from 610,311 bales in August to 463,369 bales in October resulted in the increased buying previously referred to and caused a slight increase in stocks held to be registered in November, when 485,651 bales on hand were reported.

tion in district No. 9 (Minneapolis) during the four weeks ending November 27 was 2,460,495 barrels, an increase of 8 per cent over the figure of 2,279,990 barrels for the four weeks ending October 30, but was only 82 per cent of output a year ago, which was 3,012,465 barrels, the reporting mills representing 75 per cent of the total production in the district. Present operations are at 52 per cent of capacity, as compared with 69 per cent a year ago. Mill

7,400 bales. While there is as yet no evidence of reaction from the depression prevailing in the market for woolen and worsted textiles, district No. 3 (Philadelphia) states that two or three large mills report increased demand for dress goods, more particularly women's wear. On the other hand, some mills in the district are further reducing the scale of operations or considering a complete suspension of operations. Yarn mills in district No. 3 (Philadelphia) report less business than during the preceding month, even with yarn prices 50 per cent to 60 per cent below the peak points. "Manufacturers of hosiery, underwear, sweaters, etc.," it is said, "have sufficient yarns to enable those who are operating at all to maintain their curtailed schedules." The American Woolen Co.'s auction sale of 9,000 pieces of overcoating (Dec. 14-16) brought prices of about 25 per cent to 40 per cent of those pre-

vailing at the opening level for 1920. Hosiery.—Practically no business is being transacted in hosiery lines in district No. 3 (Philadelphia), as a result of the uncertainties of price fluctuations which have been aggravated by forced sales of stocks. As a result, it is estimated that the operating capacity of the mills is less than 20 per cent of normal. Returns received for November from 34 reporting firms in the hosiery industry, which sell to the wholesale trade, show a reduction in the value of the product manufactured during the month (selling price) of 74 per cent as compared with the same month in 1919 and 18.8 per cent as compared with the previous month. The value of finished products on hand at the end of the month (selling price) was 95.2 per cent in excess of stocks held a year ago. There was, however, a reduction of 5.9 per cent as compared with the previous month. Unfilled orders on hand at the end of the month (selling price) had dropped 87.5 per cent as compared with November, 1919, and 21.1 per cent as compared with the preceding month. Six reporting firms which sell to the retail trade show a decrease in the value of the product manufactured of 64.3 per cent as compared with November, 1919, and 24.8 per cent as compared with the previous month. Unfilled orders on hand at the end of the month (selling price) were 6.2 per cent less than during the previous month, which had registered a great decrease, amounting to 71.8 per cent, as compared with September.

Underwear.—Similar conditions prevail in the underwear industry in district No. 3 (Philadelphia), many mills being closed, while others are operating at from 20 per cent to 40 per cent of capacity. The mild weather has also interfered with the placing of additional orders | (packer) hides selling for 16 cents and 19 cents

for heavy-weight goods, and stocks already manufactured have been sold at a sacrifice. Twenty-one concerns manufacturing underwear, located in district No. 3 (Philadelphia), record a decrease in the value of the product manufactured of 63.9 per cent during November, 1920, as compared with November, 1919, and 39 per cent as compared with the preceding month. Finished products on hand at the end of the month were 322.1 per cent in excess of amounts held at the end of November, 1919, and showed only a negligible decrease of 1.6 per cent as compared with the previous month of October. Orders booked during the month were 25.7 per cent less than during the corresponding month last year and 16.5 per cent less than in October. Unfilled orders at the end of the month were 95.8 per cent below the amounts outstanding at the

end of November, 1919.

Thirty-five firms belonging to the National Association of Finishers of Cotton Fabrics, which represent 72 per cent of the white goods, 62 per cent of the dyed goods, and 32 per cent of the printed goods, report the total number of vards finished during the month of November, 1920, as 40,591,156 as compared with 52,833,213 yards finished during the preceding month of October. The percentage of capacity operated during the month averaged 25 per cent for all reporting firms, as against 35 per cent during the preceding month. The firms located in districts Nos. 1 and 2 had an operating percentage slightly below the average, the figures being 21 per cent in each case, whereas district No. 3 reported operating capacity of 38 per cent. The average number of days' work ahead at the end of November was 4.3 as compared with 4.4 for the preceding month.

There has been very little change in the raw silk market during the past month, as there has been no general increase of manufacturing activity to create a buying demand. In Paterson looms are working at 6.7 per cent of their maximum capacity in terms of loom hours as compared with 8.6 per cent last month. Elsewhere in New Jersey the depression is not so extreme, however. Indeed, district No. 3 (Philadelphia) reports a renewal of interest on the part of buyers for dress and waist houses, with the result that some mills which were shut down have resumed operations, two of the largest mills at full time. Improvement, however, is by no means general, many firms in the district showing no signs of increased activity.

Shoes and leather.—Leather prices have suffered further declines, heavy native steer per pound on December 15, as compared with 53 cents in August, 1919. Calfskins selling as high as \$1 in August, 1919, were quoted at 15 cents the middle of the present month. As a matter of fact, quotations are largely nominal in the absence of any general buying demand.

Reports received from 24 representative boot and shoe manufacturers of New England about the middle of November indicated that conditions were at least no worse in that industry than during the preceding month, six concerns reporting a decreased production, being offset by six which had increased their output, while the other 12 reported conditions to be unchanged. The majority of these concerns reported shipments to be either equal to or in excess of those of the preceding month.

Iron and steel.—Further decreases in the prices of iron and steel products have occurred, and in practically all items the wide "spread" which separated independent price levels from those of the leading interest has disappeared. It is reported from district No. 3 (Philadelphia) that "demand in most lines, more prominent, however, in steel plates and other finished products, is almost entirely absent," and 'cancellations have become more prevalent." The unfilled orders of the United States Steel Corporation decreased from 9,836,852 tons at the close of October to 9,021,481 tons at the close of November, the respective index numbers being 187 and 171. The market situation is reflected in the continued decrease in productive activity. Pig-iron production during November was 2,934,908 tons, corresponding to an index number of 127, as compared with 3,292,597 tons during October, corresponding to an index number of 142. Steel-ingot production likewise decreased, from 3,015,982 tons during October to 2,638,670 tons during November, the respective index numbers being 125 and 109. Structural steel bookings during November were 49,250 tons, or 271 per cent of capacity, as against 45,600 tons, or 25½ per cent of capacity during October. Curtailment of operations in district No. 3 (Philadelphia) has progressed more rapidly during the current month than at any time previous, and almost without exception reports indicate that present operations are only at 40 per cent of capacity, while further decrease is planned. A number of independent steel works in district No. 4 are shut down completely, as are many merchant blast furnaces which have been accumulating stocks of pig iron, while many independent steel plants are operating at not over 50 per cent to 60 per cent. A decided contrast, however, exists between the situation of the independents

large orders in past months at the minimum prices and has been enabled to keep up operations on these orders, various subsidiaries now operating at about 90 per cent of capacity. Accompanying the readjustment process in the industry have been wage reductions announced

by various independent producers.

Coal.—Production of bituminous coal has continued upon a high level. The November figure was 51,012,000 tons, corresponding to an index number of 138, as compared with 50,744,000 tons during October, and 18,688,000 tons during November, 1919, the respective index numbers being 137 and 50. The output for the week ending December 4 set a new high record for the year, but was bettered during the following week. This was in spite of the fact that on November 29 the priority in the use of open-top cars was withdrawn completely. Demand is not as insistent, with the lessened activity in various industries, and there has been a marked falling off in the export trade, in particular during the past two months. The fuel situation thus is easier in certain sections, so that, for example, in district No. 8 (St. Louis), "daily improvement is reported." Coke has experienced a further decline in price.

Production of anthracite coal during November was 7,519,000 tons, as compared with 8,188,000 tons in October and 7,870,000 tons in November, 1919, the respective index numbers being 102, 111, and 106. There has been virtually no loss of time from transportation difficulties. Efforts of the fair price committee are reported from district No. 3 (Philadelphia) to be holding down mine prices to a fair margin of profit above cost of production and to have been limiting the rehandling of coal by wholesalers. The market is becoming more steady and complaints of shortages from eastern cities are becoming less numerous.

Petroleum.—November crude petroleum production in district No. 11 (Dallas) was 13,347,352 barrels, a new record, as compared with 12,277,297 barrels during October. Production in district No. 10 (Kansas City), however, is commencing to show a slight decline from the peak in October. It is reported that production is in excess of the amount which can be handled readily by the pipe lines, and refiners are temporarily storing some oil. Drilling activities in Texas have been steadily declining since July, and this is partly attributable to the overtaxed condition of pipe lines and storage in many of the most active fields. Operators in some of the fields in district No. 10 (Kansas City) are curtailing developments to some extent, but extensive enlargements of refineries are in progress. The and the leading interest. The latter entered | petroleum market in that district is experiencing the usual seasonal dullness, "but there has been no general or sweeping decline in either crude petroleum or in its refined products." A reduction in the price of crude oil of 50 cents per barrel was announced in November in the Texas coastal fields, due to the heavily increased production. Subsequently reductions of 15 to 25 cents per barrel were reported in the fuel oil markets of north Texas.

Nonferrous metals.—Further decrease of activity was noticed in the zinc industry in district No. 10 (Kansas City) during November. Shipments of zinc ore from the Missouri-Kansas-Oklahoma southwestern district during November were 37,470 tons, as compared with 40,479 tons during the same month last year. Shipments of lead ore, however, were somewhat greater than in November, 1919, being 6,368 tons, as against 6,210 tons. The average price of zinc ore was the lowest average price for any month of the year, the price being \$40 per ton at the opening of the month and \$32.95 at the close. Lead prices dropped \$10 per ton. Additional properties shut down in the district, many for three to four months, and mines continuing to operate were forced to cut wages, beginning December 1, from 10 to 25 per cent, reductions to remain in effect as long as present zinc prices prevail. Production of refined copper in district No. 9 (Minneapolis), as reported by companies producing 75 per cent of the total output of the district, was 19,926,725 tons during November, as compared with 20,194,498 tons during October and 25,156,563 tons during November, 1919. The decrease is ascribed to the lack of export demand and prevailing low The number of miners employed decreased 12 per cent from October to November, or from 27,035 to 23,805, as compared with 29,374 for November, 1919. Wages were reduced in Michigan either in November or on December 1, although not in Montana. Trade sources indicate some recovery both in price and in demand in the nonferrous metal markets as a whole at the opening of December, but this was soon followed by a reaction, and lower price levels were reached. The price of lead was reduced by the leading interest about December 3 to 5 cents, which was the outside market level, and about December 21 to 4.75 cents, but demand has continued light in this metal, as well as in copper, zinc, and tin.

Employment and wages.—An increasing percentage of unemployment is noted throughout the country, but the situation is most serious in the eastern districts, especially in the manufacturing centers, where mills and factories are either closed or operating on part-time schedules. Wage reductions have also become more general during the past month, especially 23,500 persons were employed last spring, 8,500 are now idle. These figures and the more general data for the State as a whole refer in the main to persons working in industrial establishments who constitute in this State about one-third of the wage-earning population. Other types of workers have been much less affected by the slackening in business activity."

in the textile industries, a large percentage of the New England mills having announced wage cuts of about 22½ per cent, effective December 20. District No. 1 (Boston) says: "The closing of the worsted mills in Lawrence the last week in November affected approximately 1,500 employees, while some 16,000 have been affected by wage reductions in the cotton mills; wage reductions in Lowell, Mass., in the cotton mills involve 25,000 employees and in New Bedford, Mass., about 40,000; in Manchester, N. H., upward of 16,000 are affected by reduced wage schedules announced to take effect on January 3, 1921." The Massachusetts Department of Labor and Industries estimates that 25 per cent of the membership of reporting unions were unemployed the middle of December, while in many instances working hours have been curtailed.

In district No. 2 (New York) it is stated that the number of workers is about 20 per cent below the maximum reached in the spring. The principal decline during December occurred in the metal and kindred industries in upper New York State, but in this district also the most serious conditions prevail in the textile and clothing trades, it being estimated that only 5,000 of the 65,000 normally employed in men's clothing factories in New York City are now at work. In factories engaged in the manufacture of women's clothing, about 40 per cent of the 75,000 workers ordinarily employed are still retained. In Paterson employment in the silk mills is about 10 per cent of normal. The New York report further says: "Those idle in Rochester include 9,200 clothing factory workers and 5,000 shoe-factory workers, and the remainder are made up from those formerly employed in the building and metal trades and miscellaneous factory enterprises. In Syracuse 100 factories formerly employing 40,000 persons have laid off 18,725. Auburn, Fulton, and Oneida, providing employment for 15,000 in the early spring, now employ 10,000. The depression in the knit-goods trade has been reflected in Utica and Cohoes, where only about 10 per cent of the maximum number of such workers are now employed. In Troy eight of the nine large collar and shirt factories were closed during December, making idle 10,000 workers, mostly women and girls. In Rome, Ilion, Little Falls, and Herkimer, where about 23,500 persons were employed last spring, 8.500 are now idle. These figures and the more general data for the State as a whole refer in the main to persons working in industrial establishments who constitute in this State about one-third of the wage-earning population. Other types of workers have been much less

In the southeastern districts also considerable unemployment exists, although conditions are not so acute. The textile mills in these sections have likewise reduced wages anywhere from 20 per cent to 25 per cent. District No. 8 (St. Louis) says that although unemployment is much less marked than elsewhere in the country "it has noticeably increased during the past 30 days," the lumber, furniture, clothing, and metal industries being most affected. So far wage reductions in this district have been

insignificant. In district No. 10 (Kansas City) reports indicate "very general unemployment, due in part to the usual winter slowing down but also resulting from lack of demand for local products. curtailment of operation has been fairly general, occurring in the mining and petroleum industries, in railroading, and to some extent in mercantile establishments." An exception to this situation is noted, however, in the coal mines of Missouri, Kansas, Oklahoma, and Arkansas, where the percentage of unemployment is less than during preceding months. Reports from 144 of the larger industrial establishments in five leading towns in Oklahoma, which employ a total of 17,000 persons, show a reduction of forces amounting on the average to about 7 per cent. Oil refineries in some instances have reduced the number of employees as much as 40 per cent. There have been some reductions in the forces of packing houses, and flour mills in certain sections of the State have reduced their working forces nearly 50 per cent. It is said that there is more unemployment in Colorado than at any time for the past three years, this being especially true for the three largest cities. The building trades, however, are said to be working steadily and the situation in the coal and metalliferous mines is good. In Kansas, although there is some increase in unemployment among unskilled workers, the situation on the whole is fairly good. In Wyoming, also, there has been some unemployment, but it has not been exceptionally pronounced. In district No. 12 (San Francisco) unemployment is increasing, the unemployed in the State of Washington being estimated at 20,000, while in Portland 10,000 laborers are stated to be without work.

Wholesale trade.—During October the decline in the volume of net sales of reporting wholesale firms had become quite general not only as compared with the preceding month, but with the same month a year ago. The downward tendency continued during November has become more pronounced in lines not previously so seriously affected. In district No. 3 (Philadelphia) 26 reporting hardware firms show decreases of 10.1 per cent in November as ceding month, the declines being especially

compared with the preceding month, although sales are still 10.2 per cent in excess of those for November, 1919. The sales of 51 wholesale grocery houses in the district fell 15.8 per cent as compared with a year ago, although showing a negligible increase over the preceding month. It is stated that buying in this field is largely for immediate consumption. As a matter of fact, in volume and number of sales, the wholesale grocery business is probably about as active as a year ago, but price reductions have brought about decreases in the money volume of sales. In district No. 4 (Cleveland) slight reductions are shown in volume of sales of dry goods and grocery firms amounting to 4.2 per cent and 3.8 per cent, respectively, with 3 dry-goods houses and 13 grocery firms reporting. On the other hand, hardware sales (4 firms reporting) are still 16.7 per cent above those for November, 1919, while 3 wholesale drug concerns have increased sales 45.8 per cent as compared with November, 1919. In district No. 5 (Richmond) wholesale hardware houses registered declines of 7.8 per cent in volume of sales as compared with a year ago and 14.9 per cent as compared with the month of October. In this district declines in all lines, namely, groceries, dry goods, boots and shoes, hardware, and furniture were reported, the percentage decreases as compared with November, 1919, being 5.7 per cent for groceries (9 firms reporting), 51.2 per cent for dry goods (8 firms), 35.7 per cent for boots and shoes (9 firms), and 84 per cent for furniture (4 firms). Last year it was said that "at the close of November the reporting firms had large amounts in orders outstanding, but this year the orders reported amount to practically nothing. Back orders with which the firms began the year have been filled as new business fell of, or else have been canceled before shipment could be made. A dry goods wholesaler reported \$125,000 in outstanding orders on November 30, 1919, but only \$3,000 on November 30, 1920. Another firm selling the same line estimates that they had unfilled orders around a half million dollars at the end of November last year, but had not enough to mention this year on the same date. A boot and shoe dealer reports \$15,000 in unfilled orders on November 30, 1920, compared with \$200,000 on the same date a year ago. Four furniture makers reported outstanding orders as of November 30, 1920, as but \$37,932, compared with \$909,430 on the same date last year.

In district No. 6 (Atlanta) average decreases are shown for all reporting lines both as compared with November, 1919, and with the preheavy in the case of dry goods and shoes from the returns of a year ago. The 11 reporting dry goods firms show average sales decreases of 49.4 per cent as compared with November, 1919, and 9.5 per cent as compared with the preceding month. Similarly 9 wholesale shoe houses register declines of 40.2 per cent and 31.5 per cent, respectively. Twelve grocery firms give average sales 18.2 per cent below the totals for the same month last year and 11.7 per cent lower than those of the preceding month, while the corresponding figures for 9 hardware firms are 9.4 per cent and 12.2 per cent, respectively. Decreases in sales as compared with November, 1919, are heavy for all reporting lines in district No. 7 (Chicago), amounting to 16.2 per cent for 23 grocery houses, 20.1 per cent for 8 shoe firms, and 29.1 per cent for 8 dry goods firms. All concerns report cautious buying and downward price trends. In district No. 10 (Kansas City) the only exception to the downward movement is found in the case of drugs, declines being especially heavy in groceries and furniture as compared with a year ago, while furniture, grocery, and hardware sales are much below October averages. In district No. 11 (Dallas), also, the solitary exception to the general declines reported occurs in wholesale drugs, sales being 8 per cent in excess of those for November, 1919, although 21 per cent below the average for the preceding month, with 5 firms reporting. Four grocery firms report declines of 10 per cent from the preceding month, and 34 per cent as compared with November, 1919; for 2 hardware concerns, the declines are 3 per cent and 27 per cent, respectively; for 3 dry goods firms, 13 per cent and 29 per cent; and for 2 dealers in farm implements, 37 per cent and 47 per cent. In district No. 12 (San Francisco) 137 wholesale firms reporting for 8 lines, namely, groceries, dry goods, hardware, drugs, shoes, stationery, furniture, and auto tires, show average declines as compared with the preceding month and with November, 1919, drugs again being alone in maintaining an increase, having advanced 15.7 per cent as compared with November, 1919. The declines as compared with a year ago amount to 32.9 per cent for auto tires, 23.8 per cent for furniture, 33.3 per cent for shoes, 21.6 per cent for dry goods, 11.9 per cent for groceries, and 8.8 per cent for hardware. Declines from the averages of the preceding month were 47.7 per cent for auto tires, 19.5 per cent for furniture, 28.2 per cent for shoes, 24.5 per cent for dry goods, 14.7 per cent for groceries, 18.1 per cent for hardware, and 11.5 per cent for drugs. Demand is reported to be

while current orders are small and, in some cases, practically negligible.

Retail trade.—The retail trade situation is characterized by a continued lowering of prices and an increased volume of business, due both to these price reductions and to Christmas shopping. The percentage increase of net sales over those of November, 1919, in Boston was 11.4, in Philadelphia 8.5, in Richmond 13.1, and in San Francisco 11.3. The cause of the comparatively large volume of business during November is well expressed in the report from district No. 10 (Kansas City) which says: "While this may reasonably be ascribed in part at least to the seasonal influences imparted by the Christmas spirit, it is quite evident that the attractive prices at which goods are offered are having a good deal to do with the increased volume of sales." It is reported in some districts that prices are now approaching the replacement values, while it is reported in district No. 8 (St. Louis) that "the past 30 days have been marked by numerous and drastic cuts in retail prices, but the reductions are in a large measure isolated and specialized." The department stores are gradually liquidating the large sums which were tied up in stocks when the present declines started, but the outstanding orders are very low and little attention has been paid to the replacement of depleted stocks because the stores are holding out with the view to restocking at lower figures during the early months of 1921. This is shown by the percentage of outstanding orders at the end of November to the total purchases during the calendar year 1919, which is 7.7 per cent in Boston, 4 per cent in Philadelphia, and 3 per cent in Richmond.

Building.—Causes operative in preceding months to hamper the resumption of building continued to prevent a revival of activity. The deterrent effects of high wage levels and high prices of building materials, together with restricted funds for investment have been accentuated by the usual decline to be expected at this season. In New York State and northern New Jersey building contracts for November were \$20,000,000 below the October total, but contracts within the district for the 11 months period were \$579,000,000, 16 per cent in excess of totals for the same period in 1919. In district No. 4 (Cleveland) the decrease in total valuation of permits for 12 cities from the same month last year was 51 per cent and a slightly greater decline occurred in district No. 5 (Richmond), where totals were 54.6 per cent below those for November, 1919. In district No. 6 (Atlanta) a few cities show increases, but the general restricted, buyers filling only immediate needs, trend is downward. In district No. 8 (St.

Louis) Louisville, Memphis, and Little Rock all report declines in the value of permits, as compared with November, 1919. More inquiries are said to have been received by architects, builders, and contractors, but actual undertakings are few. In district No. 9 (Minneapolis) the number of permits amount to 81 per cent of the total for November, 1919, and the valuation is only 33 per cent of that of a year ago. There was a decline in the number of permits in every city except Fargo and Missoula, and declines in valuation occurred in all cities except St. Paul, Missoula, and Great Falls. In district No. 10 (Kansas City) the decrease in the value of permits as compared with the same month last year was 50.6 per cent, although estimated costs of building up to December 1 were 11.5 per cent larger than during the corresponding period last year. In district No. 11 (Dallas) the value of permits issued in 9 leading cities was 42.9 per cent below valuations in November, 1919, although the total number of permits increased from 1,387 to 2,001. As a matter of fact, heavy decreases in Fort Worth, Shreveport, Dallas, and El Paso account for the drop, as elsewhere increases had occurred. In district No. 12 (San Francisco) the decline in building activity has not at any time been so pronounced as in the other districts, and although the value of permits declined 8.7 per cent from October figures, the totals are still 1.6 per cent greater than those reported in November, 1919. is difficult to estimate the influence of the seasonal change in bringing about the decrease since October, as last year the November figures registered an advance.

Production of lumber has declined generally. In district No. 5 (Richmond) many mills have closed entirely, and a diminished production for November is reported by four lumber associations of the San Francisco district. The largest of these, the West Coast Lumberman's Association, with 121 mills, reports for the four weeks ending November 27, orders of 182,417,000 feet against a cut of 264,305,000 feet. The decline has been due partly to seasonal curtailment of operations, as some of the larger mills are closing for the yearly overhauling of machinery, and in other sections snow has reduced operations. In district No. 3 (Philadelphia) there has been little buying of lumber because builders are unable to secure funds and because the public in general anticipate further reductions. In the Atlanta district the lumber situation shows some improvement. While a number of mills in New Orleans are expected to remain closed until after the holidays, in Alabama many are resuming opera- notably clothing, retail prices as a whole were tions. Increased demand has taken place for declining less rapidly than wholesale.

southern pine, and in consequence prices have strengthened.

Prices.—The Board's index number of wholesale prices showed a further marked decline during November. In October the number stood at 108 per cent above 1913 prices, in November at 90 per cent. This means there has been a decline of 28 per cent from the peak of last May and of 8.5 per cent during November. Imports and exports are much nearer the prewar level than are commodities for domestic consumption. Further decreases in prices of commodities which were already affected by the decline rather than an extension of price cutting to other industries featured the month. In other words, agricultural products, textiles, hides and leather, and iron and steel products declined very strikingly, while coal, petroleum, gasoline, paper, brick, and cement remained largely unaffected. In the latter groups of commodities reductions are reported here and there in the open market, but quoted contract prices appear to be it approximately the same level as in earlier months. In the case of petroleum, reductions occurred in the Texas coastal field, but in other districts no important changes have been made. In the coal industry prices are reported as easier in December. Contract quotations on leading grades of anthracite and bituminous for November, however, were at the same high level as in October.

In three important industries—cotton, wool, and boots and shoes-where the liquidation process has been of longest duration, further price reductions were made in November, but it was reported from several sources in December that buying had been on a larger scale than in recent months. Falling prices for farm products have led to a withholding of commodities from market in the case of cotton, corn, and tobacco. Reports from all sections of the country are to the effect that lumber prices were heavily reduced during November. Structural steel along with other steel products likewise declined, but cement and brick prices remained firm.

Retail food prices decreased 2½ per cent during November, according to an index number of the Bureau of Labor Statistics, computed from the prices of 22 articles of food in different sections of the country. The rate of decline was only slightly more rapid than during October and September. Federal Reserve agents also report decreases in retail prices during November and December, although in most districts emphasis was placed on the fact that in spite of extreme reductions in certain lines,

CONDITION OF WHOLESALE TRADE.

Percentage of increase (or decrease) in net sales in November, 1920, as compared with the preceding month.

Dis- triet.	Groceries.		Dry goods.		Hardware.		Boots and shoes.		Furniture.	
	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.
No. 3 No. 5 No. 6 No. 10 No. 11 No. 12.	$ \begin{array}{r} -9.2 \\ -11.7 \\ -17.8 \\ -10 \end{array} $	9 12 2 4	-12.7 - 9.5 -13 -24.5	8 11 3	-10.1 -14.9 -12.2 -20.8 -3 -18.1	9	-19.3 -31.5	9	-62.3 -27.3 -19.5	3 17
Dis-	Drugs.		Auto supplies.		Stationery		Farm implements		Auto	tires.
triet.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	CONT	Num- ber of firms.	Per cent.	Num- ber of firms.
No. 10. No. 11. No. 12.	$ \begin{array}{r} -13.9 \\ -21 \\ -11.5 \end{array} $	5			-18, 6	15	-37	2		

Percentage of increase (or decrease) in net sales in November, 1920, as compared with November, 1919.

Dis- trict.	Groceries.		Dry goods.		Hardware.		Shoes.		Furniture.	
	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.
No. 3 No. 4 No. 5 No. 6 No. 7 No. 10 No. 11 No. 12.	-15.8 - 3.8 - 5.7 -18.2 -16.2 -41.2 -34 -11.9	13 9 12	-29	3 8 11 8 1 3 13	-9.4 -7.5 -22	26 4 9 9 2 2 23	-35.7	9 8	-84. 0 -34. 2 -23. 8	3
Dis- trict.	Per cent.	Num- ber of firms.		Num- ber of firms.		Num- ber of firms.	Por	rm ments. Num- ber of firms.	Auto	Num- ber of firms.
No. 4 No. 10 . No. 11 . No. 12 .	+7.3 + 8				+16.4	16	-47		-32. 9	15

REPORT OF KNIT GOODS MANUFACTURERS.

Total (B) (dozens).....

Total production of winter and summer underwear for the 6 months ending Dec. 31, 1920.

	Number of mills report- ing.	Actual production (dozens).	Per cent of nor- mal.
July	57	583,190	73, 4
August		585,071	67. 3
September	63	606, 257	74. 2
October	61	393,422	50.4
November	63	191,831	23. 2
December	61	98,671	11.0

For the month (38 mills).

	Dozens.	Per cent of actual produc- tion.
Orders	42,875	10. 3
Shipments	44,696	10. 7
Cancellations	8,592	2. 0
Production	65,508	15. 8

Twenty-three representative mills which reported for November and December furnish the data for the following tables:

[In dozens.]

	Novem- ber.	Decem- ber.	Loss.	Gain.
Unfilled orders first of month New orders. Shipments. Cancellations. Production.	53,515	50,591 39,581 41,984 8,592 63,384	27,397 13,934 33,772 46,418	6,682

FINISHED COTTON FABRICS.

The National Association of Finishers of Cotton Fabrics, at the request of the Federal Reserve Board, have arranged for a monthly survey within the industry. The results of the inquiries are herewith presented in tabular form. The secretary of the association makes the following statement concerning the tabulation:

The accompanying figures are compiled from statistics furnished by 35 out of 59 members of the National Association of Finishers of Cotton Fabrics.

It is probably fair to state that in the absence of having specific detail at hand, but according to our best estimate, it is probably well within the fact that the figures given for the various classes of work would cover approximately the following percentages of the entire industry: White goods, 72 per cent; dyed goods, 62 per cent; printed goods, 32 per cent. The figures given represent reports from exactly the same finishers for the two months, both for the totals and for the subdivisions, and therefore are strictly comparable.

Note.—Many plants were unable to give details under the respective headings of white goods, dyed goods, and printed goods, and reported their totals only, therefore the column headed "Total" does not always represent the total of the subdivisions, but is a correct total for the dis-

Production and shipments of finished cotton fabrics.

Total finished yards billed during month: District 1.	Vhite oods. 013, 004 903, 370 595, 292 250, 607 25, 160	Dyed goods. 9, 014, 636 1, 015, 884 3, 148, 126 50, 957 523, 846 13, 753, 449 \$415, 783 \$39, 465 \$135, 549 \$783 \$21, 087 \$612, 667	Printed goods. 4,924,251 3,756,640 8,680,891 \$308,059 \$223,789 20 42	Total. 23, 220, 197 12, 269, 565 10, 352, 804 4, 301, 264 549, 306 2, 140, 077 52, 833, 213 \$998, 242 \$448, 195 \$406, 795 \$89, 744 \$21, 648 \$33, 978 \$1, 998, 602	White goods. 5, 326, 612 4, 906, 934 4, 419, 688 3, 461, 194 28, 041 18, 142, 469 \$114, 998 \$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498	Dyed goods. 6, 915, 463 1, 002, 986 1, 866, 217 24, 028 344, 978 10, 153, 672 \$316, 082 \$34, 561 \$104, 079 \$158 \$14, 648 \$469, 528	7,146,436 \$242,534 \$165,609 \$408,143	Total. 17, 517, 053 11, 248, 069 6, 632, 263 3, 485, 222 373, 019 1, 335, 530 40, 591, 156 \$771, 396 \$375, 723 \$248, 429 \$70, 335 \$15, 259 \$24, 099 \$1, 505, 241 21 21 21 21 38 47 17 51
District 1	787, 433 187, 368 108, 262 256, 829 \$88, 961 641, 981 32 44 82 55	\$415,783 \$39,465 \$135,549 \$783 \$21,087 \$612,667	\$,680,891 \$308,059 \$223,789 \$531,848	12, 269, 565 10, 352, 804 4, 801, 264 549, 306 2, 140, 077 52, 833, 213 \$998, 242 \$448, 195 \$406, 795 \$89, 744 \$33, 978 \$1, 998, 602 266 40 53 55 33 81	4, 906, 934 4, 419, 688 3, 461, 194 28, 041 18, 142, 469 \$114, 998 \$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498	1, 002, 986 1 866, 217 24, 028 344, 978 10, 153, 672 \$316, 082 \$34, 561 \$104, 079 \$158 \$14, 648 \$469, 528	2,885,407 7,146,436 \$242,534 \$165,609 \$408,143	11, 248, 049 6, 632, 263 3, 485, 222 373, 019 1, 335, 530 40, 591, 156 \$771, 396 \$375, 723 \$248, 229 \$70, 335 \$15, 239 \$24, 099 \$1, 505, 241 21 21 38 47 17 51
District 1	787, 433 187, 368 108, 262 256, 829 \$88, 961 641, 981 32 44 82 55	\$415,783 \$39,465 \$135,549 \$783 \$21,087 \$612,667	\$,680,891 \$308,059 \$223,789 \$531,848	12, 269, 565 10, 352, 804 4, 801, 264 549, 306 2, 140, 077 52, 833, 213 \$998, 242 \$448, 195 \$406, 795 \$89, 744 \$33, 978 \$1, 998, 602 266 40 53 55 33 81	4, 906, 934 4, 419, 688 3, 461, 194 28, 041 18, 142, 469 \$114, 998 \$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498	1, 002, 986 1 866, 217 24, 028 344, 978 10, 153, 672 \$316, 082 \$34, 561 \$104, 079 \$158 \$14, 648 \$469, 528	2,885,407 7,146,436 \$242,534 \$165,609 \$408,143	11, 248, 049 6, 632, 263 3, 485, 222 373, 019 1, 335, 530 40, 591, 156 \$771, 396 \$375, 723 \$248, 229 \$70, 335 \$15, 239 \$24, 099 \$1, 505, 241 21 21 38 47 17 51
Total	787, 433 187, 368 108, 262 256, 829 \$88, 961 641, 981 32 44 82 55	\$415,783 \$39,465 \$135,549 \$783 \$21,087 \$612,667	\$,680,891 \$308,059 \$223,789 \$531,848	10, 352, 804 4, 301, 264 549, 306 2, 140, 077 52, 833, 213 \$998, 242 \$448, 195 \$406, 795 \$89, 744 \$21, 648 \$33, 978 \$1, 998, 602	4, 419, 688 3, 461, 194 28, 041 18, 142, 469 \$114, 998 \$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498 25 31 56 47	1 866, 217 24, 028 344, 978 10, 153, 672 \$316, 082 \$34, 561 \$104, 079 \$158 \$14, 648 \$469, 528	7,146,436 \$242,534 \$165,609 \$408,143 20 34	6, 632, 263 3, 485, 222 373, 019 1, 335, 530 40, 591, 156 \$771, 396 \$375, 723 \$248, 429 \$70, 329 \$71, 329 \$21, 329 \$24, 039 \$1, 505, 241 21 38 47 17 51
8	787, 433 187, 368 108, 262 256, 829 \$88, 961 641, 981 32 44 82 55	\$415,783 \$39,465 \$135,549 \$783 \$21,087 \$612,667	\$308, 059 \$223, 789 \$531, 848	\$149,306 2,140,077 52,833,213 \$998,242 \$448,195 \$406,795 \$89,744 \$21,648 \$33,978 \$1,998,602	3,461,194 28,041 18,142,469 \$114,998 \$109,032 \$135,680 \$70,177 \$611 \$430,498	344,978 10,153,672 \$316,082 \$34,561 \$104,079 \$158 \$14,648 \$469,528 19 11 24	\$242,534 \$165,609 \$408,143	1, 335, 530 40, 591, 156 \$771, 396 \$375, 723 \$248, 429 \$70, 335 \$15, 259 \$24, 099 \$1, 505, 241 21 38 47 17 51
8	787, 433 187, 368 108, 262 256, 829 \$88, 961 641, 981 32 44 82 55	\$23,846 13,753,449 \$415,783 \$39,465 \$135,549 \$783 \$21,087 \$612,667	\$308, 059 \$223, 789 \$531, 848	\$149,306 2,140,077 52,833,213 \$998,242 \$448,195 \$406,795 \$89,744 \$21,648 \$33,978 \$1,998,602	\$114, 998 \$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498 25 31 56 47	344,978 10,153,672 \$316,082 \$34,561 \$104,079 \$158 \$14,648 \$469,528 19 11 24	\$242,534 \$165,609 \$408,143	1, 335, 530 40, 591, 156 \$771, 396 \$375, 723 \$248, 429 \$70, 335 \$15, 259 \$24, 099 \$1, 505, 241 21 21 38 47 17 51
8	787, 433 187, 368 108, 262 256, 529 \$88, 961 \$561 641, 981 32 44 82 55	\$415,783,449 \$415,783 \$39,465 \$135,549 \$783 \$21,087 \$612,667 30 13 31	\$308, 059 \$223, 789 \$531, 848	2,140,077 52,833,213 \$998,242 \$448,195 \$406,795 \$89,744 \$21,648 \$33,978 \$1,998,602	\$114, 998 \$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498 25 31 56 47	\$316,082 \$34,561 \$104,079 \$158 \$14,648 \$469,528	\$242,534 \$165,609 \$408,143	1, 335, 530 40, 591, 156 \$771, 396 \$375, 723 \$248, 429 \$70, 335 \$15, 259 \$24, 099 \$1, 505, 241 21 21 38 47 17 51
Total fi nishing charges billed during month: District 1	187, 368 108, 262 256, 829 \$88, 961 \$561 641, 981 32 44 82 55	\$415,783 \$39,465 \$135,549 \$783 \$21,087 \$612,667	\$308, 059 \$223, 789 \$531, 848	\$998, 242 \$448, 195 \$406, 795 \$89, 744 \$21, 648 \$33, 978 \$1, 998, 602 26 40 53 55 33 81	\$114, 998 \$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498 25 31 56 47	\$316, 082 \$34, 561 \$104, 079 \$158 \$14, 648 \$460, 528	\$242,534 \$165,609 \$408,143	\$771, 396 \$375, 723 \$248, 429 \$70, 335 \$15, 259 \$24, 099 \$1, 505, 241 21 21 38 47 17 51
District 1	32 44 82 55	\$612,667 \$612,667	\$223, 789 \$531, 848 20 42	\$448, 195 \$406, 795 \$89, 744 \$21, 648 \$33, 978 \$1, 998, 602 26 40 53 55 33 81	\$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498 25 31 56 47	\$34,561 \$104,079 \$158 \$14,648 \$460,528 19 11 24	\$165,609 \$408,143 20 34	\$1,505,241 \$1,505,241 21 21 38 47 17 51
District 1	32 44 82 55	\$612,667 \$612,667	\$223, 789 \$531, 848 20 42	\$448, 195 \$406, 795 \$89, 744 \$21, 648 \$33, 978 \$1, 998, 602 26 40 53 55 33 81	\$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498 25 31 56 47	\$34,561 \$104,079 \$158 \$14,648 \$460,528 19 11 24	\$165,609 \$408,143 20 34	\$1,505,241 21 21 38 47 17 51
Total. \$6 Total average per cent of capacity operated: District 1. 2 3 5 6 8 Average for all districts.	32 44 82 55	\$612,667 \$612,667	\$223, 789 \$531, 848 20 42	\$448, 195 \$406, 795 \$89, 744 \$21, 648 \$33, 978 \$1, 998, 602 26 40 53 55 33 81	\$109, 032 \$135, 680 \$70, 177 \$611 \$430, 498 25 31 56 47	\$34,561 \$104,079 \$158 \$14,648 \$460,528 19 11 24	\$165,609 \$408,143 20 34	\$1,505,241 21 21 38 47 17 51
Total. \$6 Total average per cent of capacity operated: District 1. 2 3 5 6 8 Average for all districts.	32 44 82 55	\$612,667 \$612,667	\$531,848 20 42	\$21,648 \$33,978 \$1,998,602 26 40 53 55 33 81	\$135, 680 \$70, 177 \$611 \$430, 498 25 31 56 47	\$104,079 \$158 \$14,648 \$469,528 19 11 24	20 34	\$1,505,241 21 21 38 47 17 51
Total average per cent of capacity operated: District 1. 2 3 5 6 8 Average for all districts.	32 44 82 55	\$612,667 \$612,667	20 42	\$21,648 \$33,978 \$1,998,602 26 40 53 55 33 81	\$611 \$430,498 25 31 56 47	\$14,648 \$469,528 19 11 24	20 34	\$1,505,241 \$1,505,241 21 21 38 47 17 51
Total average per cent of capacity operated: District 1. 2 3 5 6 8 Average for all districts.	32 44 82 55	\$612,667 \$612,667	20 42	\$33,978 \$1,998,602 26 40 53 55 33 81	\$430,498 25 31 56 47	\$469,528 19 11 24	20 34	\$1,505,241 \$1,505,241 21 21 38 47 17 51
Total. 36 Total average per cent of capacity operated: District 1 2 3 5 5 6 8 8 Average for all districts.	32 44 82 55	30 13 31	20 42	\$1,998,602 26 40 53 55 33 81	25 31 56 47	19 11 24	20 34	\$1,505,241 21 21 38 47 17 51
Total average per cent of capacity operated: District 1	32 44 82 55	30 13 31	20 42	26 40 53 55 33 81	25 31 56 47	19 11 24	20 34	21 21 38 47 17 51
District 1	44 82 55	13 31	42	40 53 55 33 81	31 56 47	11 24	34	
2 3 5 5 6 8 8 A verage for all districts	44 82 55	13 31	42	40 53 55 33 81	31 56 47	11 24	34	
3	82 55	31		53 55 33 81	56 47	24		
5	55		23	55 33 81	47		22	
6. 8 Average for all districts.		28	23	33 81		10	22	
	46	28	23	81	25	10	22	
 -	46	28	23		25	10	22	
	46	28	23	35	25	10	22	25
					30	10	ii	
Total gray yardage of finishing orders received:	}							
District 1	197,932 965,270	6,158,694 683,257	2,282,297 994,202	15,610,146 5,916,737 7,902,503	4, 156, 235	4,459,175 493,028 2,533,755 44,182	2,968,701	12,535,869 4,351,709 7,170,320
2, 2,9	965,270	683,257	994,202	5, 916, 737	2.470.071	493,028	424,040	4,351,709
3 4,6	678, 913	2, 740, 454		7,902,503	4,307,447 2,132,265	2,533,755		7,170,320
5	928, 287 31, 308	134 135,095		1, 928, 421 166, 403	2,132,265	44,182		2, 176, 447 354, 268
6	31,303	155,095		1,801,109	39,461	314,807		2,282,315
				1,001,103				2,202,010
Total	801.719	9, 717, 634	3, 276, 499	33, 325, 319	13, 105, 479	7,844,947	3,392,741	28, 870, 928
Number of cases of finished goods shipped to customers (case equal approximately 3,000 yards):					!			
District 1	2,709	2,536	1,169	12, 193	1,977	2,007	1,246	9, 229
2	2,709 2,592 2,136	283		5,408 3,867	2,287	25		9, 229 3, 930 2, 790
3	2,136	1,460		3,867	1,548	1,019		2,790
5	1,915			2,551	1,487			2,237
0		• • • • • • • • • • • • •		202	•••••			73
0	•••••				• • • • • • • • • • • • • • • • • • • •			10
Total	9,352	4,279	1,169	24, 221	7, 299	3,051	1,246	18, 259
Number of cases of finished goods held in storage at end of month: District 1.	5,021	5,416	4,051	24,235	A PH11	4,675	3,997	23,605
2	3,321	356	4,001	9,570	4,771 4,030	4,075] 3,991 j	9,926
3	500	355		5,957	367	372		5,790
5	510			5,957 2,164	990			2,614
6								.
8				1,121				1,415
Total.	9,352	6,127	4,051	43,047	10,158	5,066	3,997	43,350
Total average work ahead at end of month (expressed in days): District 1.					20,200			
	4.2	2.1	1.4	2.6	3.0	1.5	2.5	2.3
2	10.6	1.9	10.0	5.0	13.2	. 8	4.4	4.8
3	10.0	4.8		6.8	7.4	5. 2		6.0
5	13.0			13.0	11.8			11.8
6		• • • • • • • • • • • • • • • • • • • •	•••••	2.3	• • • • • • • • • • • • • • • • • • • •			2.8
8	•••••			20.0				30.0
Average for all districts	7.3	2, 6	2, 6	4.4	7.0	2.2	2.8	4.3

FEDERAL RESERVE BANKING DURING 1920.

Changes in the condition of the Federal Reserve Banks during the year just passed should be considered in connection with the changes in the credit policy originated about the close of 1919 and continued during the year under review. Early in the year the Federal Reserve Banks raised their discount rates on commercial paper, but the influence of the higher rates is seen in retarding the progress of borrowings rather than in restricting them. In fact, total Federal Reserve Bank holdings of discounted bills, 2,231.2 millions at the beginning of the year, increased by over 300 millions up to the end of April, and by another 200 millions during the next four months. The peak of 2,826.8 millions was reached on November 5, while the total held on December 30, 2,719.1 millions, is 487.9 millions larger than the total held at the beginning of the year.

Another important change in policy affected the holdings of paper secured by Covernment war obligations. Preferencial rates on paper secured by Liberty bonds and Victory notes were abrogated by some Federal Reserve Banks and raised by others to a level more nearly approximating the rate level for ordinary commercial paper. In the case of paper secured by Treasury certificates the rates adopted were in most cases identical with the higher coupon rates fixed by the Covernment, thus holding out no inducement to the member banks to carry these securities among their own investments and use them as collateral for loans at the Federal Reserve Banks, but rather providing a stimulus to place them in the hands of ultimate investors. The result is seen in the gradual decrease of the amounts of war paper held during the year by the Reserve Banks. From nearly 1,500 millions at the opening of the year the holdings of paper secured by Covernment war obligations declined to 1,141 millions on December 30. Of the latter total 188 millions, or 16.5 per cent, were secured by Treasury certificates, compared with 461.5 millions, or over 31 per cent, held at the opening of the year—this decrease corresponding in a general way to the reduction in the amount of certificates held by the member banks. Much smaller reductions are shown in the Reserve Banks' holdings of paper secured by Liberty bonds and Victory notes, the Decemof the year. On the other hand, holdings of millions being shown for January 16 and the

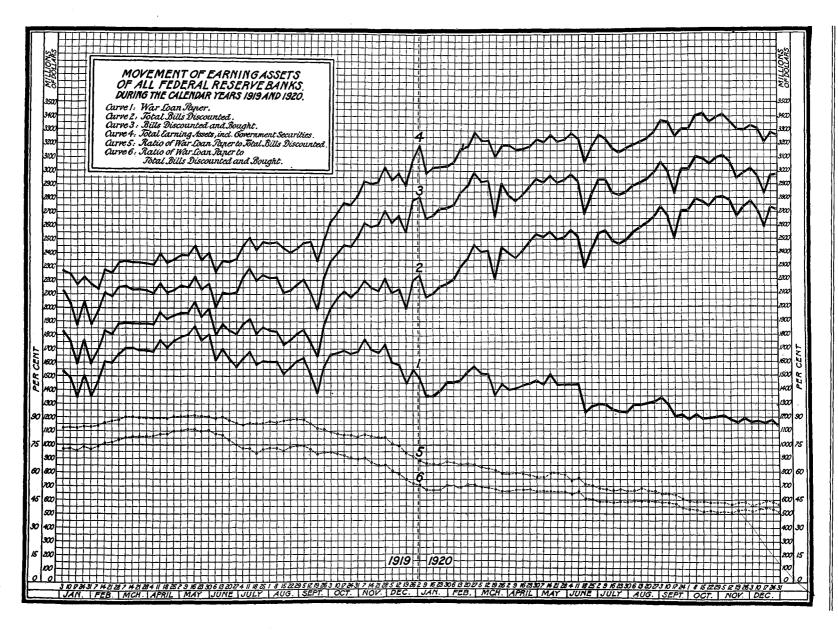
other discounted paper, which at the opening of the year totaled 746.9 millions, show an almost steady growth, being in excess of 1,500 millions at the end of September, and fluctuating between about 1,500 and 1,600 millions during the last three months of the year. At the end of the year, out of a total of 2,719.1 millions of discounted bills, about 42 per cent was composed of paper secured by United States war obligations, against 67 per cent of a total of 2,231.2 millions held on the first Friday of the year.

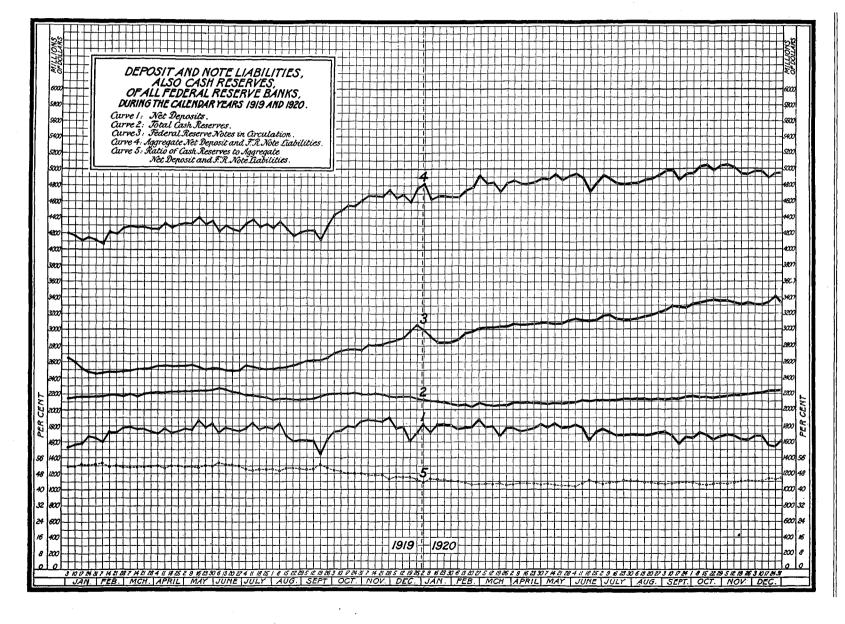
Holdings of bills purchased in open market show an almost uninterrupted decline for the period under review. From a total of 574.6 millions at the beginning of the year, a decline to 255.7 millions on December 30 is shown, the decrease of 318.9 millions being due largely to the increased demand for this class of bills by savings banks, trust companies, also corporate and individual investors. No appreciable changes are shown in the amounts and classes

of United States bonds held.

Fluctuations in the holdings of Treasury certificates during the year are largely the result of the issuance by the Covernment from time to time of temporary certificates pending collection of funds from depositary institutions. The largest figures are shown for the four Fridays following the quarterly income tax dates, when temporary advances to the Government by the Federal Reserve Banks for the redemption of tax certificates were at their maximum. Total earning assets of the Federal Reserve Banks, which stood at 3,181.8 millions on January 2, reached the high point of 3,422 millions on October 15, and at the end of the year stood at 3,263 millions, an increase of over 80 millions for the year.

Government balances with Federal Reserve Banks were considerably smaller than for the previous year, partly because of a smaller volume of Government expenditures but also because of the development of a better technique in the handling of Government funds. The daily average of Government deposits for 1920 was 36 millions, compared with 99 millions the year before. The lowest amount of Government deposits is shown for August 10, when the total was only 7.4 millions, while on September 17, subsequent to the series of fiscal operations in connection with the payment of the September 15 installment of income and excess profits taxes and the issuance and redemption of tax certificates, the highest figure for the year, 135.2 millions, was reached. Members' ber 30 total, 9.53 millions, being only 70 millions reserve deposits fluctuated within comparaless than the amount reported at the beginning | tively narrow limits, the largest total of 1.943.6





smallest of 1,711.8 millions for November 26. Other deposits, including foreign Government credits, declined from 116.3 millions on January 2 to 22.2 millions on December 30, largely as the result of withdrawals by the Argentine Government of deposits made during the war. Net deposits of the Federal Reserve Banks show a general downward tendency for the year, the December 30 total of 1,604.2 millions being 280.4 millions below the maximum amount shown for February 27, and 264.9 millions below the corresponding total at the beginning of the year, decreases in reserve and net deposits reflecting reductions in demand deposits of member banks, especially during the latter part of the year.

Federal Reserve note circulation, after the usual contraction at the beginning of the year, when a return flow of notes issued during the holiday season occurs, shows an almost uninterrupted expansion from the minimum amount of 2,844 millions on January 23 to a maximum of 3,404.9 millions on December 23.

The total of 3,344.7 millions on December 30 marks a reduction of 60.2 millions for the week, but an expansion of 345.7 millions since the beginning of January, note expansion rather than growth of deposits accompanying the increase in the borrowings of member banks. Federal Reserve Bank note circulation shows a practically steady decline from 259 millions on January 2 to 177 millions on

259 millions on January 2 to 177 millions on May 14, but since that date an increase to 217 millions on December 30 is noted

millions on December 30 is noted.

During the early part of the year the Federal Reserve Banks lost gold, largely through export to South America and to the Orient, and on March 26 total gold holdings were 1,935 millions, marking a reduction of 128 millions from January 2. Since that time, partly as the result of gold shipments from England in anticipation of the maturity of the Anglo-French bonds on October 15, there has been an increase in gold reserves, the total of 2,059.3 millions on December 30 being only 3.3 millions below the total shown on January During the latter part of the year all the gold held with foreign agencies, except 3.3 millions held by the Bank of France for Federal Reserve Bank account, was returned to this country. Since the gold held abroad was counted as part of the banks' reserves, its transfer from abroad has had no effect on the reserve ratio. Total cash reserves show an increase of 127.9 millions, or from 2,121.3 millions on January 2 to 2,249.2 millions on December 30, the larger part of the increase being due to deposits of silver by the United States Treasury.

Interbank discounting showed a considerable increase about the end of April, when nearly 150 millions of rediscounted bills were carried by the Boston, New York, and Cleveland banks for seven other Federal Reserve Banks. After a slight recession these operations were resumed on an increasing scale early in August, and on October 29 the Boston, Philadelphia, and Cleveland banks reported a maximum for the year of over 247 millions of bills held under discount for eight other Reserve Banks. At the close of the year total discounts of the above three banks included 115.3 millions of paper discounted for five other Reserve Banks in the South and Middle West.

During the year the paid-in capital of the Federal Reserve Banks increased from 87.4 to 99.8 millions, or by 12.4 millions, corresponding to an increase of over 411 millions in capital and surplus of member banks. This gain is due primarily to increases in capitalization of existing member banks and to a smaller extent to accessions of new members.

The reserve ratio of the Federal Reserve Banks, as a consequence of the changes detailed above, is higher at the end of the year than at its beginning, the percentage being 45.4 on December 30, compared with 43.7 on January 2. The ratio was brought up to 44.5 per cent on June 18, and to 45.5 per cent, the maximum for the year, on December 17, the Fridays following two of the quarterly income tax dates.

It may be of interest to note that at the Bank of England the ratio of reserves to note and deposit liability combined, calculated on a basis similar to our own, has been maintained during the year on a level approximately the same as that of the Federal Reserve Banks, though the English ratio is subject to wider and more rapid fluctuations caused largely by Government operations in selling Treasury bills and obtaining ways and means advances, on the one hand, and by redemptions of these short-term obligations, on the other. In general, the ratio for the Bank of England has fluctuated during the year between 40 and 50 per cent. On December 1 it stood at 42.4 per cent, comparable with a ratio of 44.1 per cent shown on December 3 for the Federal Reserve Banks.

On pages 26 and 27 are presented charts illustrating the movement from week to week in 1919 and 1920 of the principal asset and liability items of the Federal Reserve Banks; also changes in the ratio of war loan paper to total discounts and to total bills held by the Federal Reserve Banks, and changes in the reserve ratio.

RECENT MONETARY AND EXCHANGE DEVELOPMENTS IN INDIA.

Indian currency conditions during the war and their relation to the course of the price of silver were discussed in the Federal Reserve BULLETIN for October, 1919, page 945, where a sketch of India's monetary history and of the machinery of Indian exchange is also given. On December 22, 1919, the committee appointed by the Secretary of State for India to inquire into Indian exchange and currency made its report and its findings were summarized in the Federal Reserve Bulletin for March, 1920, page 253. In the December, 1920, Bulletin, page 1298, there was reprinted the official resolution putting into effect on October 1 the amendments to the Indian currency and coinage acts adopted by the Indian Legislative Council in conformity with the recommendations of the committee. In view of the developments in India since the close of 1919, this appears to be an opportune time for discussing some of the economic conditions underlying the currency and exchange situation confronting India to-day.

REPORT OF CURRENCY COMMITTEE OF 1919.

Just as the Indian currency committee of 1914 dealt primarily with the difficulties caused by the low price of silver, so the committee of 1919 considered methods of overcoming the difficulties produced by the high price of silver. One way of overcoming these difficulties was to reduce the silver content of the rupee, but the committee was disinclined to do that as the Indian population was accustomed to consider the rupee as a standard and would have resented any tampering with its time-honored standard of value. Rather than to debase the rupee the committee chose to increase its legal parity from 15 rupees to a sovereign to 10 rupees to a sovereign, i. e., to make the rupee equivalent to 11.3 grains of pure gold, instead of 7.5 grains as before. The committee chose to link the rupee to the gold sovereign rather than to the pound sterling for the reason that the pound sterling was depreciated and its value subject to fluctuations. When the discount on pounds sterling will have disappeared and the sovereign and the pound will have become once more interchangeable, then the 10 to 1 ratio will apply equally to the pound and to the sovereign. If, on the other hand, the rupee were to be fixed in relation to the pound, the committee felt that the ratio would have to be a very high one in order to prevent the melting of the rupee for its silver content, and in the future, after the expected dis- action along this line has yet been taken.

appearance of the discount on the pound, this ratio would result in an exaggerated valuation of the rupee. The committee determined that the ratio should be 10 rupees to a sovereign for the reason that this figure is high enough to prevent the silver content of the rupee (165 grains) from exceeding its monetary or gold value for any considerable length of time, since in order to make it profitable to melt rupees at the new rate silver would have to be beyond the melting point of British, American, and French coins, and in the committee's opinion silver could not be maintained at such a high level without causing the melting of these coins and thus increasing the supply and reducing the price of silver.

An essential part of the recommendations of the committee was that the import and export of gold to and from India be free from Government control, because a parity with gold could not be maintained without a free gold The committee also recommended market. the removal of the restrictions on the import of silver and of the silver import duty, as well as the ultimate removal of the export restrictions, although it realized that during the duration of the extremely high prices of silver control over silver exports would have to be maintained. In connection with paper currency it was recommended that the absolute limit on fiduciary circulation, which under the latest regulation was 1,200 million rupees, be abolished and a 40 per cent requirement for the metallic portion of the paper currency re-serve be substituted. The ratio of metallic reserve actually adopted is 50 per cent. Furthermore, it was recommended that of the securities held in reserve not more than 200 millions be securities of the Government of India. A provision for emergency circulation not to exceed 50 million rupees to be deposited with Presidency banks in times of money stringency was also recommended. In regard to the gold standard reserve, which is made up of profits from the coinage of rupees and was created for the purpose of stabilizing the exchange value of rupees, the committee recommended that it be continued. This reserve at present consists not of gold but of securities, and the committee felt that its conversion into gold was not practicable or advisable under present conditions, since gold can be used to better advantage in currency reserves. The securities in the gold standard reserve are to have maturities not exceeding 12 months, and a portion of the reserve not exceeding one-half may be held in India. The committee advised the reopening of the Bombay branch of the Royal Mint for the coinage of sovereigns and half-sovereigns, but no

GOVERNMENT ACTION SINCE THE REPORT OF THE CURRENCY COMMITTEE.

Since the submission of the report of the currency committee nearly all of its recommendations have been adopted by the Covernment of India. All restrictions on gold imports for private account were removed on June 21, 1920, while restrictions on gold exports had been set aside even at an earlier date. As early as February the overnment began to buy gold at the new rate of 11.3 grains per rupee and to sell drafts on London at the rate of 10 rupees per sovereign. Silver imports were permitted on February 2 and silver exports on July 2, when the price of silver began to decline. On June 21 sovereigns and half-sovereigns were declared no longer legal tender in India and holders of such coins were given 21 days in which to turn them in at the treasuries in exchange for 15 rupees. On October 1, by virtue of an act passed on September 8, sovereigns and half-sovereigns regained their legal tender quality, but at the new rate of 10 rupees per sovereign. The mohur, which has the same gold content as the sovereign, but carries on its reverse the legend "15 rupees," will continue to be accepted by the Government at that rate, the intention being to call in practically all of those coins and to demonetize them. In order to reduce the premium on gold, the Government sold considerable quantities at the Indian bazaars.

MOVEMENT OF THE PRICES OF SILVER AND INDIAN EXCHANGE.

At the time when the currency committee's recommendations began to be put into effect the price of silver was at its highest, being quoted at over \$1.31 per ounce in New York. In accordance with this price and the general condition of the market, the Indian Government offered reverse councils, i. e., Government drafts in India on London, for sale at about 2 shillings gold per rupee less cost. At that rate there was an unprecedented demand for these drafts. The main reason for this demand was that large sums had been accumulated by British and other interests in India during the war and that there was a rush to transmit them to England at the favorable rate. India's exports and imports for a period of years and for the most recent months are shown in the following table. One reason for the large imports in recent months is that the stock of merchandise as well as of machinery was depleted during the war period when the figure on November 30 being 1,602 millions.

the physical volume of imports was comparatively small.

British-Indian exports and imports of merchandise on private account.

[In thousands of rupees.]

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Exports.	Imports.		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Year ending Mar. 31:				
1911 22,098,820 1,293,540 805,280 1912 2,278,442 1,385,748 892,694 1913 2,465,472 1,610,159 855,313 1914 2,488,788 1,832,480 656,308 1915 1,815,917 1,379,289 436,628 1916 1,973,802 1,313,403 660,399 1917 2,408,868 1,496,220 912,648 1918 2,425,500 1,504,200 921,300 1919 2,538,450 1,690,350 848,100 1920 3,270,274 2,079,993 1,190,281 April, 1920 271,814 203,188 68,626 May, 1920 255,588 219,588 39,000 June, 1920 231,870 260,020 28,156 July, 1920 200,000 280,000 80,000 August, 1920 210,000 310,000 100,000 September, 1920 220,000 290,000 70,000		1,878,795	1, 170, 600	708, 195	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1911			805, 280	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1912		1, 385, 748		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1913	2, 465, 472	1,610,159	855, 313	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1914	2, 488, 788	1, 832, 480	656,308	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1915	1, 815, 917	1, 379, 289	436,628	
1917 2, 408, 868 1, 496, 220 912, 648 1918 2, 425, 500 1, 504, 200 921, 300 1919 2, 538, 450 1, 690, 350 848, 100 1920 3, 270, 274 2, 079, 993 1, 190, 281 April, 1920 271, 814 203, 188 68, 626 May, 1920 255, 588 219, 588 39, 000 June, 1920 231, 870 260, 020 80, 000 August, 1920 200, 000 280, 000 80, 000 August, 1920 210, 000 310, 000 100, 00 September, 1920 220, 000 290, 000 70, 000	1916	1, 973, 802		660,399	
1918 2, 425, 500 1, 504, 200 921, 300 1919 2, 538, 450 1, 690, 350 848, 100 1920 3, 270, 274 2, 079, 993 1, 190, 281 April, 1920 271, 814 203, 188 68, 626 May, 1920 258, 588 219, 588 39, 000 June, 1920 231, 870 260, 020 28, 15 July, 1920 200, 000 280, 000 80, 000 August, 1920 210, 000 310, 000 100, 000 September, 1920 220, 000 290, 000 70, 000	1917				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1918				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1919				
April, 1920. 271, 814 203, 188 68, 626 May, 1920. 258, 588 219, 588 39, 000 June, 1920. 231, 870 260, 020 28, 15 July, 1920. 200, 000 280, 000 80, 000 August, 1920. 210, 000 310, 000 100, 000 September, 1920. 220, 000 290, 000 70, 000	1920	3, 270, 274		1,190,281	
May, 1920. 285,588 219,888 39,000 28,15 June, 1920. 231,870 260,020 28,25 July, 1920. 200,000 280,000 80,000 August, 1920. 210,000 310,000 100,000 September, 1920. 220,000 290,000 70,000	April, 1920				
June, 1920. 231, 870 260, 020 28, 15 July, 1920. 200, 000 280, 000 80, 000 August, 1920. 210, 000 310, 000 100, 000 September, 1920. 220, 000 290, 000 70, 000	May, 1920				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	June, 1920.	231, 870			28, 150
August, 1920	July, 1920				
September, 1920	August, 1920				
October, 1920	September, 1920				70,000
	October, 1920				110,000
	·	,	1 ′	1	:

India's excess exports of merchandise amount on the average to about 750 million rupees a year. Of this 750 millions something over onehalf is offset by payments of interest on investments, of pensions, and of expenditures on account of the India Government in London, this amount being roughly measured by the net sales of council drafts, i. e., council drafts less reverse drafts. The remainder of India's favorable trade balance is settled through imports of gold and silver into India. Generally speaking, the Government sells council drafts in London to the extent that it needs funds transferred to England from India, while reverse councils are sold for the purpose of maintaining the exchange rate, i. e., when the price of ster-ling drafts in India becomes too high in terms of rupees, the India Government offers drafts for sale, thereby tending to stabilize the exchange value of the rupee. These drafts are taken up in England out of the proceeds of the gold standard reserve, which was created for that purpose out of the profits of the coinage of rupees and is kept largely in London where the pa, ments must be made. The sale of reverse council drafts has the effect of contracting the circulation of India, as the drafts are bought with rupees which are thus returned to the Government. Between January 31 and September 30 the circulation was reduced in this manner from 1,852 million to 1,576 million rupees, a decrease of 276 millions. Since the sale of reverse councils was discontinued on September 23, the circulation has begun to expand,

Movement of the price of silver and of sterling and rupee exchange, 1919 and 1926. [Exchange rates are highest quotations on sight drafts for each month.]

	Average price	New York of silver.	New York exchange on England.		New York rupee exchange.		London
Date.	Price per fine ounce.	Per cent of average price for 1913 (\$0.60641).	4.8665=100.	Per cent.	48.67=100.1	Per cent.	exchange on India (rupee= 24d.).1
January1919.	\$1,01558	167. 45	4, 7585	97, 78	35, 65	73, 25	1725
February March April	1. 01500 1. 01495 1. 01500	167.35 167.34 167.35	4. 7585 4. 758 4. 6725	97. 78 97. 77 96. 01	35. 65 35. 875 35. 65	73. 25 73. 71 73. 25	17 35 17 35 17 35 17 35 17 39
May June July	1. 11402 1. 07332	178, 10 183, 68 176, 97	4. 6925 4. 6350 4. 57	96. 42 95. 24 93. 91	42, 50 42, 50 43, 00	87. 32 87. 32 88. 35	193 194 194
August. September. October. November.	1.12386 1.15636 1.20692 1.30446	185.30 190.66 198.99 215.08	4. 3525 4. 2625 4. 3225 4. 1625	89. 44 87. 59 86. 97 85. 53	43. 50 45. 00 44. 00 44. 75	89.38 92.46 90.40 91.95	21 ⁷ / ₅ 23 ¹ / ₅ 23 ¹ / ₆ 24 ¹
December 1920.	1.33072	219. 41	3. 9875	81. 94	46. 25	95. 03	24 ¹ / ₂ 27 ¹ / ₈
January February March April May June July	1. 32665 1. 27287 1. 20576 1. 03495 2. 92789 2. 92935	220. 77 218. 74 209. 87 198. 84 170. 67 153. 01 153. 25 159. 87	3. 7875 3. 4525 3. 9525 4. 0175 3. 9150 3. 9875 3. 95125 3. 7075	77. 83 70. 94 81. 22 82. 55 80. 45 81. 94 81. 19 76. 18	46. 25 49. 00 50. 00 47. 25 45. 75 43. 50 38. 50 37. 25	84, 48 100, 68 102, 73 97, 08 94, 00 89, 38 79, 10 76, 54	273 32 <u>1</u> 30 <u>7</u> 263 263 24 <u>3</u> 22 <u>13</u>
August. September. October. November. December.		155, 87 155, 85 138, 83 129, 41 107, 35	3. 7075 3. 5625 3. 5075 3. 5275 3. 5275	76. 18 73. 20 72. 07 72. 48 72. 48	37. 25 34. 75 32. 50 30. 25 28. 50	76. 54 71. 40 66. 78 62. 15 58. 56	221 221 195 193 193 18

¹ Until Oct. 1, 1920, par of exchange for rupees was 16 pence, or 32.64 cents, but for the sake of comparability percentages have been figured on the new base throughout.

² Price of domestic silver, 99.535 per fine ounce.

drafts at the rate of 28 to 30 pence per rupee, i. e., at about 10 rupees or less per sovereign, the demand for such drafts became so heavy, and the difference between the Government rate and the market rate was so pronounced that the Government was obliged to change the rate from 10 rupees to a sovereign to 10 rupees to a pound sterling. The amount of reverse councils sold up to September is estimated at over 50 million pounds. At the same time, as a result of the cessation of the demand for silver from China, the price of silver was rapidly falling, so that the gold value of the silver in a rupee was no longer equal to its par value as a coin. In other words, the problem from one of how to keep down the price of the rupee became one of how to keep it up.

A little retrospect may throw light on the The rupee before 1893 had a value measured by the value of the 165 grains of silver it contained, that is to say, India was on a silver basis. From 1893 to 1920 India was on the gold exchange basis and the rupee had a gold value for exchange purposes of approximately 7.5 grains of gold. But the value of its silver content rising continually in recent years, the value of the rupee had to be raised, as otherwise it would have been melted for export. As the result of the new parity and of the drop in the price of silver the rupee is in a somewhat in a somewhat in the preceding of the silver that the Government of India should maintain the prewar practice of making gold coin available when it is demanded by the public" (p. 29); also, "In normal tunes, and whenever the supplies of silver permit, the Government of India will doubtless offer all facilities for the conversion of legal tender gold into legal tender silver coin, and vice versa; but, in view of the present shortage of silver, we consider that the obligation to give rupees for sovereigns should be withdrawn" (p. 30).

When the Government was selling sterling | anomalous condition. Theoretically, it is linked with gold, but the Government has not cared to give gold in exchange for rupees in view of the great premium commanded by gold in India, though it was the committee's intention ultimately to make sovereigns and rupees interchangeable at will at the 1 to 10 rate. It was feared that to issue gold for rupees would result in a heavy drain on the gold reserves which the Government was not prepared to risk, especially as the gold in the reserves was declining (See attached table on currency reserves.)

Since March, 1920, the value of the silver content of the rupee no longer equaled its value at the gold parity. The practical consequence of the situation is that the rupee, whether paper or coin, is inconvertible token money, so far as foreign trade is concerned, and its exchange value is dependent to a great extent on India's balance of international payments. In a western country, with a free gold market, the falling exchange value of the rupee would have led to the export of large quantities of gold, but in India there was a great demand for gold in the interior, where

the immemorial custom is to use gold for ornaments and for religious ceremonies, and where also, in view of inadequate banking facilities, the hoarding of gold as a means of storing one's wealth is still prevalent. In view of these facts, gold commanded such a high price in the bazaars of India that it did not pay to export gold even in the face of a very low exchange value of the rupee. Gold was thus used for domestic purposes, while the exchange value of the rupee responded to the demand for foreign drafts. India's trade balance in recent months, as shown in the table, has been unfavorable, which is almost unprecedented for that country and may be due to the large demand for textiles and iron and steel products to replenish the stock depleted during the war. The demand for sterling and dollar exchange has been exceedingly heavy and the value of the rupee has dropped as low as 24 cents in the New York market. The situation is rendered still worse, because wheat exports from India are prohibited, in view of the shortage of food. Recently the Government has arranged to permit the export of 400 thousand tons of wheat at a fixed price in the course of the next 6 or 8 months.

To sum up, a perplexing state of affairs exists in India and future developments are difficult to forecast. It is safe to assume that as soon as the balance of trade becomes favorable to India, a tendency for the price of the rupee to rise will appear. This year's crop prospects are only fair, however, which

export of gold is permitted, since the point has even now been reached where large amounts of gold have been shipped to Japan in payment of balances accumulated during the war. An exchange rate can not well fall below the gold shipment point so long as there is no interference with the free movement of the metal.

The rupee can not, however, be expected to rise to and remain at its par value in exchange transactions until it becomes freely convertible into gold in India, and in turn, convertibility can hardly be expected so long as gold commands a substantial premium in the market. It appears, therefore, that the new ratio of 10 rupees to 1 sovereign will remain purely theoretical so long as the market price of gold will exceed by a considerable margin the statutory ratio of 1 rupee for 11.3 grains of gold, or 10 rupees per sovereign, while the minimum below which the price of the rupee can not fall is the value of its silver content. So that, in effect, the value of the rupee at the present time is more closely connected with the price of silver than with the rupee's statutory gold value.

A paragraph in the Indian currency committee's summary of conclusions reads as follows:

If, contrary to expectations, a great and rapid fall in prices were to take place, and if the costs of production in India fail to adjust themselves with equal rapidity to the lower level of prices, then it might be necessary to consider the problem afresh.

It appears from the developments discussed in this study that the state of affairs mentioned may delay the recovery of the favorable by the committee has come about and that a trade balance. No further decline in rupee reconsideration of its conclusions in the light exchange is to be expected so long as the of these developments may become necessary.

Notes in circulation in India, composition of reserve, and percentage of metallic reserve at close of each month, September, 1919, to November, 1920.

In thousands of rupees.1

	37.4. 1.	Metallic reserves.					Securities held in reserve.	
Date.	Notes in circula- tion.	Silver coin and silver bullion.	Gold coin and gold bullion in India.	Gold coin and gold bullion in England.	Total.	Percentage of circula- tion.	In India.	In Eng- land.
Sept. 30. 1919. Oct. 31. Nov. 30. Dec. 31. 1920. Jan. 31. 1920.	1,796,700 1,829,100 1,851,500 1,830,300	509,700 509,200 474,400 436,700 403,300 389,900	184,500 192,500 235,400 296,100 351,000 413,000	29, 100 55, 900 91, 600 101, 000 116, 200 46, 400	723, 300 757, 600 801, 400 833, 800 870, 500 849, 300	42. 08 43. 22 44. 60 45. 59 47. 00 46. 40	170, 300 170, 300 170, 300 170, 300 170, 300	825, 000 825, 000 825, 000 825, 000 825, 000
Mar. 31 Apr. 30 May 31 June 30 July 31 Aug. 31. Sept. 30 Oct. 31. Nov. 30	1,745,200 1,707,400 1,669,200 1,643,400 1,638,700 1,632,700 1,576,300	398, 500 393, 700 413, 700 455, 500 503, 600 552, 900 580, 600 594, 100 599, 300	361,500 1 237,500	34,500 9,500 7,400 24,900	876, 700 857, 000 849, 700 915, 200 949, 800 944, 100 942, 100 831, 600 837, 900	50. 23 50. 18 50. 90 55. 69 57. 96 57. 82 59. 75 52. 11 52. 30	195, 900 237, 700 311, 800 355, 500 406, 200 473, 300 471, 400 680, 700 680, 700	672, 600 612, 700 507, 700 372, 700 282, 700 215, 300 162, 800 83, 500

¹ On Oct. 1 the gold in the paper currency reserve was revalued at the new rate of 10 rupees per sovereign instead of 15.

Transfer of Subtreasury Functions to Federal Reserve Banks.

During the past few months the Federal Reserve Board and the Treasury Department have been cooperating in effecting the discontinuance of the United States subtreasuries and the transfer of certain of their functions and duties to the Federal Reserve Banks. The authority for discontinuance of the Subtreasuries was given by the legislative, executive, and judicial appropriation act, approved May 29, 1920, which provides, as follows:

INDEPENDENT TREASURY.

Section 3595 of the Revised Statutes of the United States, as amended, providing for the appointment of an Assistant Treasurer of the United States at Boston, New York, Philadelphia, Baltimore, New Orleans, St. Louis, San Francisco, Cincinnati, and Chicago, and all laws or parts of laws so far as they authorize the establishment or maintenance of offices of such assistant treasurers or of subtreasuries of the United States are hereby repealed from and after July 1, 1921; and the Secretary of the Treasury is authorized and directed to discontinue from and after such date or at such earlier date or dates as he may deem advisable, such subtreasuries and the exercise of all duties and functions by such assistant treasurers or their offices. The office of each assistant treasurer specified above and the services of any officers or other employees assigned to duty at his office shall terminate upon the discontinuance of the functions of that office by the Secretary of the Treasury.

The Secretary of the Treasury is hereby authorized,

in his discretion, to transfer any or all of the duties and functions performed or authorized to be performed by the assistant treasurers above enumerated, or their offices, to the Treasurer of the United States or the mints offices, to the Treasurer of the United States of the mints or assay offices of the United States, under such rules and regulations as he may prescribe, or to utilize any of the Federal Reserve Banks acting as depositaries or fiscal agents of the United States, for the purpose of performing any or all of such duties and functions, notwithstanding the limitations of section 15 of the Federal Reserve Act, as amended, or any other provisions of law: Provided, That if any moneys or bullion, constituting part of the trust funds or other special funds heretofore required by law to be kept in Treasury offices, shall be deposited with any Federal Reserve Bank, then such moneys or bullion shall by such bank be kept separate and distinct from the assets, funds, and securities of the Federal Reserve Bank and be held in the joint custody of the Federal Reserve agent and the Federal Reserve Bank: Provided further, That nothing in this section shall be construed to deny the right of the Secretary of the Treasury to use member banks as depositaries as heretofore authorized by law.

The Secretary of the Treasury is hereby authorized to assign any or all the rooms, vaults, equipment, and safes or space in the buildings used by the subtreasuries to any Federal Reserve Bank acting as fiscal agent of the United

All employees in the subtreasuries in the classified civil service of the United States, who may so desire, shall be eligible for transfer to classified civil service positions under the control of the Treasury Department, or if their services are not required in such department they may be transferred to fill vacancies in any other executive department with the consent of such department. To the extent that such employees possess required qualifications, they shall be given preference over new appointments in the classified civil service under the control of the Treasury Department in the cities in which they are now employed.

In each of the subtreasury cities there is either a Federal Reserve Bank or a Federal Reserve Branch Bank, and to these many functions of the respective subtreasuries have been transferred. The following subtreasuries have thus far been discontinued, on the dates named: Boston, October 25, 1920; Chicago, November 3, 1920; New York, December 6, 1920; San Francisco, December 20, 1920; New Orleans,

January 5, 1921; St. Louis, January 8, 1921.
Branches of Federal Reserve Banks in Minneapolis, Minn., Kansas City, Mo., Buffalo, N. Y., Detroit, Mich., Philadelphia, Pa., Memphy, Tenn., Louisville, Ky., and Little Rock, Ark., have also been authorized to perform subtreasury functions in part, including particularly exchanges of currency or coin. The subtreasury at Baltimore will be discontinued on or about January 15, and those at Cincinnati and Philadelphia shortly thereafter.

Methods Followed by City Banks in Granting Accommodation to Correspondents.

This is the second article 1 presenting the results of a study made by the Division of Analysis and Research of the Federal Reserve Board of the methods pursued by reserve city banks in granting accommodation to their correspondents. The previous article presented the results of data obtained from leading New York City institutions. The present article is based upon information obtained from banks located in Chicago, St. Louis, Minneapolis, Kansas City, Dallas, and San Francisco, or the Federal Reserve Bank cities of the seventh, eighth, ninth, tenth, eleventh, and twelfth Federal Reserve districts. A similar survey is now in progress in various southern and eastern centers, and the results will be published in a later issue of the Bulletin.

To indicate more clearly the relative importance with respect to this type of business of the centers considered in the present article, the following table has been prepared, showing loans, both direct and indirect, made by national banks in these cities to other banks

and trust companies.

[In thousands of dollars.]

	Number of banks.	Loans.
Chicago St. Louis Minneapolis Kansas City Dallas San Francisco Total Total for all reserve and other cities baving a population of over 50,000	5 9	35, 346 10, 781 7, 973 29, 409 5, 278 7, 311 96, 098 474, 393

Includes central reserve and other reserve city banks in Chicago.
 The first article appeared in the June, 1920, issue, pp. 584-592.

The figures are taken from the annual report of the Comptroller of the Currency for 1919, volume 1, pages 78-81, and relate to December 31, 1918.

The following figures, taken from pages 46-47, show loans by national banks in these cities to other banks and trust companies in the form of bills payable and rediscounts separate from loans on certificates of deposit, as of March 4, 1919:

[In thousands of dollars.]

	Bills payable and re- discounts.	Certificates of deposit.	Total.
ChicagoSt. Louis	16,239	284	16,523
St. Louis	8,160	25	8, 185
Minneapolis	1,810	1,511	3,321
Kansas City	11,199	1,333	12,532
Dallas	3,923	895	4,818
San Francisco	3,497	2,599	6,096
Total Total for all central reserve and		6,647	51,475
reserve cities		17,310	251, 360

I. SOURCES OF INFORMATION.

Contents of the file.—The credit folders vary from a very elaborate one of five sections used by a St. Louis bank to mere chronological filing of all statements, reports, memoranda, and correspondence in the case of several banks. elaborateness of the folder affords an indication of the relative importance placed upon maintaining the impressions on the subject bank in the mind, instead of having them recorded in writing and filed away. The number of borrowing accounts, of course, must be considered in this connection and undoubtedly is an important factor in determining the extent to which each method is used. In the centers under consideration relatively greater use is made of the simpler types of folder than is the case in New York. The officers as a whole prefer to rely more upon their personal knowledge of the subject bank. The folder mentioned above has the following divisions: "Agencies," "statements," "special information," "investigation," and "correspondence." The folders of the other banks differ greatly. A Kansas City institution has a folder of two parts, one containing any correspondence relating to loans made and the other containing all individual statements and reports from outside sources relating to the bank and its officers. A Dallas bank reports the use of a separate file for each bank in the case of correspondents only, statements and data relating to other banks being placed in the miscellaneous file under the name of the town where the bank is located.

As in New York, annual revision of the file is the general practice and, it is stated from Minneapolis, "owing to the fact that loans are granted only one time in the year," this is considered sufficient. One Chicago bank states that it revises files "at least every two years." One bank each in Chicago and Minneapolis report semiannual revision instead.

Experience of other institutions.—In the previous article it was pointed out that in New York it is the general policy to write to the correspondents of the subject bank and request their views and experiences on the subject bank, and also that the banks in general placed considerable stress on the results of these inquiries. In the centers considered in the present article, a similar practice prevails, but less importance appears to be attached to the results. Undoubtedly the closer personal contact which exists in these centers between the lending banks and their correspondents plays a large part in the matter. Two large San Francisco banks make little use of correspondents' expressions of opinion. Another uses reports of correspondents only on country banks, and a Kansas City bank uses this source only when the subject bank is located at some distance and it is not in close touch with the official personnel. On the other hand, it is the general report from Chicago, which would naturally be expected to approximate most closely the New York practice, that "little dependence and importance is placed upon the reports of correspondents." However, some banks of course consider the views of correspondents important, and accordingly we find that one St. Louis bank asks for an expression of opinion from correspondents at least every six months. Banks throughout the territory covered in this article write to correspondents when adverse information comes to their attention, and in this way verify to a certain extent the accuracy of the reports. There is also the general feeling that form inquiries obtain little information specific enough to be of real value. One bank in Kansas City explains "that it is only by giving your own experience and the reason for the investigation that anything of value will be received." This view as to form letters is in accord with that expressed in New York, where various banks reported they frequently had answers so general to be of little service.

Approximately the same information is requested by all banks when inquiry is made of a correspondent. This covers such points as (1) integrity and ability of the management; (2) past relations with the subject bank, whether the account has been satis-

factory, etc.; (3) whether any adverse information has come to its attention, etc. Some banks, especially in Chicago, also request information on the borrowings of the subject bank; i. e., the extent of its borrowings, and whether it is a habitual borrower or only appears to borrow for seasonal needs.

In most cases the exigencies of each case determine the number and location of the correspondents of whom inquiry is made. In Chicago, however, it is stated to be the general policy of the banks not to write to banks in the same town, or even in the immediate vicinity, of the subject bank. Such institutions are regarded as either obligated or prejudiced, as the case may be, and their answers influenced accordingly. One San Francisco bank states that the frequency of its inquiries is based upon the extent and frequency of applications for accommodation by the subject banks. In St. Louis a bank never requests a new expression of opinion unless some information has come to its attention which causes it to think a thorough investigation is necessary. One San Francisco institution states that it writes to from two to ten or more banks, depending on the size and importance of the matter under investigation, perhaps writing in certain cases to two or three banks in the principal cities of the State of the subject bank; two or three Chicago banks; two or three New York banks; and one each in Kansas City, Philadelphia, St. Louis, and Boston. The bank communicates regularly with the banks to see if there has been a change in the opinions expressed, and to other banks when new connections are made. Another San Francisco bank checks all depositing banks about once a year through their banks, using the principal depositaries each time, and varying what appear to be secondary depositaries.

Statement of the subject bank.—As a general rule the published statement of the subject bank is considered sufficient. However, there are a few exceptions. Some banks do not regard such statements as sufficiently detailed to be of real service. Thus one bank in Minneapolis has a special detailed form, which it sends to its correspondents every six months. A second objection to the brief published statement is raised by a Dallas institution, which states that "nothing is disclosed relative to the character of the bank's loan account or investment in securities." To remove this objection the subject bank fills out a special form, not only giving the assets and liabilities in detail, but also a full statement of the amounts due from correspondents, to-

gether with the amount and name of each bank involved.

While it is the general policy of the banks to compile a comparative statement from statements of the subject bank, many do not do so, and instead merely file the published statements in chronological order. There is much diversity in the comparative statement form used by various banks, as is shown by the following table indicating the data employed by certain of the banks:

	,	
1	2	3
Loans and discounts. Overdrafts. Fixed assets. Stocks and investments. Cash.	Loans and discounts. Furniture and fixtures. Other real estate. Cash and sight exchange. Stocks, bonds, securities, etc.	Loans and discounts. Overdrafts, Real estate, U. S. and other bonds, Cash and exchange.
Total assets. Capital. Surplus and undivided profits. Deposits. Bills payable. Rediscounts. Total liabilities.	ties, etc. Banking house and real estate. Total assets. Capital stock. Surplus fund. Undivided profits. Individual deposits. Bank deposits. Bills payable and rediscounts. Total liabilities.	Total assets. Capital. Surplus and profits. Deposits. Bills payable. Circulation. Due Federal Reserve Bank. Rediscounts. Total liabilities.
4	5	6
Loans and discounts. Overdrafts. United States bonds. Premium on U. S. bonds. Other bonds, stocks, etc. Banking house. Furniture and fix- tures. Other real estate. Due from banks and bankers. Checks and other cash items. Cash on hand. Redemption fund. Due U. S. Treasurer. Other assets. Total assets. Capital stock. Surplus fund. Undivided profits. Circulating notes.	Loans. Overdrafts. Expenses. Realestate. Furnitureand fixtures. U. S. bonds. Premium. Five per cent fund. O t he r stocks and bonds. Warrants. Due from— Kansas City. New York. Chicago. St. Louis. St. Joseph. Wichita. Oklahoma City. Omaha. Cash. Totalassets. Capital. Surplus. Undivided profits. Undersest.	Quick assets: Cash and exchange Loans and discounts. Overdrafts. Cust. Accept. Liab. U. S. bonds and C. ind. Liberty bonds. Bonds and securities. Total. Liabilities: Circulation. Due to banks. Individual deposits, demand. Individual depoits, time. Bonds borrowed. Bills payable. Accept. liabilities. Other liabilities. Other liabilities.
Circulating notes. Due to banks. Individual deposits. Demand certificates. Time certificates. Certified checks. U. S. deposits. Bills rediscounted. Bills payable. Other liabilities.	Interest. Exchange. Circulation. Deposits: Individual. County. Government. Demand certificates. Time certificates. Certificates for borrowed money. Bills payable. Bills rediscounted. Tax account.	Margin in quick. Fixed assets: Banking house. Furniture and fixtures. Other real estate. Other assets. Total. Capital. Surplus. Undivided profits.
Total liabilities.	Total liabilities.	Totalcapital,sur- plus and undi- vided profits.

In addition to the comparative statement form, many banks compile various supplementary data, such as a record of overdrafts, average monthly balances, amounts in transit, eastern funds deposited, gross value of account, cost of account, and maximum and minimum loans. In some cases this is included on the comparative statement form, while in others a special form is used.

Representatives' visits and agency reports.— The majority of reporting institutions do not have a regular staff of field men making personal visits to country banks. The two chief reasons for this are, that (1) the relatively small number of borrowing accounts in many cases does not require the full services of a traveling representative, and (2) the personal contact between the officers of the city bank and the borrowing bank's official personnel, added to a general knowledge of conditions in the territory, is sufficient. In view of this most institutions make a personal visit only when a special investigation is deemed necessary, and then send an officer. Representatives, however, attend bankers' conventions. The information gathered there in most cases is later written up in the form of memoranda and placed in the proper folders. Some banks believe this offers one of their most profitable sources of information, due to the fact that many men will say things which they do not care to put in writing. Only one of the Chicago banks from whom information was obtained maintains a staff of men in the field to call upon borrowing banks, and this was not instituted until recently. Another bank has two men in this work, but the other banks have either found the practice unsatisfactory, or else the number of borrowing banks too small to justify it. The other institutions which maintain regular field men are scattered among most of the other centers included in the study.

Diversity of practice exists with respect to obtaining mercantile agency reports. One bank gets them on all its borrowing accounts at least once a year. In Dallas, Chicago, and Minneapolis also most reporting institutions make use of such reports, explaining they find them of value in gathering information concerning the directors and officers of the subject bank. One Dallas bank considers agency reports of no value because those who prepare the reports know little of the banking business and, like most people, "believe that a country bank is good until it closes its doors." In San Francisco and Kansas City, as a general rule, mercantile agency reports are not obtained, although some banks find them a valuable

II. RELATION OF AMOUNT OF ACCOMMODATION TO BALANCE MAINTAINED-"CLEAN-UP" RE-QUIREMENTS.

Balances.—Chicago, St. Louis, and Minneapolis banks attach more importance to the minimum balance kept than do the other cities under consideration. One of the large Chicago banks requires a 20 per cent balance and does not consider a balance of \$1,000 or \$2,500 a basis for loans. Several institutions report they make loans to country banks on a minimum balance of 10 per cent, but require 15 per cent from city banks. One bank fixes a minimum dollar amount of \$5,000. This requirement is not without exception, such as in cases where officers, or more especially directors, of the borrowing bank are affiliated with larger institutions that maintain substantial balances with it, or in the case of very infrequent borrowers, which have been carrying accounts for a number of years, where a 10 per cent minimum alone is required. Some Chicago banks have also, of late, been making loans against balances of less than 10 per cent, generally to small banks located in the Dakotas or Montana that have been in need of help but unable to maintain a satisfactory balance. In St. Louis one bank requires a minimum balance of 15 to 20 per cent, and adds that it is only in exceptional cases, such as for an infrequent loan entirely covered by readily marketable securities, to a very strong institution, that the balance is only 10 per cent. A second institution in this city states that while it has no formal rule, but in making a loan takes into consideration fully the value of the account as shown by complete analysis, balances maintained by borrowing banks with it are over 20 per cent. Minneapolis banks report the highest minimum average balance requirements. One bank insists that its correspondents maintain on deposit at all times nearly 50 per cent of their loans. Another institution requires only a 25 per cent balance on deposit during the heavy borrowing season. However, no limit on the maximum loan is set by the borrowing bank's capital or its capital and surplus. In Dallas, San Francisco, and Kansas City the average balance required ranges from 33½ per cent to no set limit. Certain San Francisco banks report that they do not insist upon a certain minimum balance, and no reporting bank in that center fixes an absolute minimum, although one institution says a balance of 10 per cent is never found except in the case of a small bank. In Dallas balances average about 10 per cent, the balances kept, source of data relative to the official personnel. of course, being a factor in determining the amount of accommodation to be extended. In Kansas City most reporting banks have a minimum average balance rule, but several explain there are many exceptions to it. The most frequent reason for these exceptions is stated to be crop failure for several seasons in succession, in which case accommodation is granted against a very low average balance.

In most centers there is no special difference in the proportion of the average balances maintained to amount of accommodation granted between large and small banks or banks in different sections served. In Chicago, however, some banks report that the smaller country banks as a rule maintain a lower percentage. The explanation is suggested that they attempt to keep too many city accounts and do not have sufficient funds to make any of them substantial. It was indicated above that recently a number of small banks located in the Dakotas and Montana have kept low average balances. In one or two other cities a bank reports that the small banks have the lowest proportionate balances, but the abovementioned center is the only one where the statement is generally made.

Overdrafts do not appear to offer an important problem throughout this territory. One Chicago bank states that it looks with disfavor upon small balances and overdrafts, but that there may be offsetting circumstances. Another institution in the same city states that the relation between small balances and overdrafts depends entirely upon the net earnings analysis of the account in determining whether a loan should be made. In St. Louis one bank says when overdrafts are frequent it insists upon a discontinuance of the practice under penalty of closing the account. A second St. Louis institution, however, does not "believe it always indicates an unsatisfactory condition

of affairs.

Character of borrowing.—With very few exceptions requirement of an annual "clean-up" is the policy of all banks included in the present study. One Chicago institution reports that during the last two years it has not required this from its good borrowing accounts because of the heavy Government financing and the unsettled financial conditions. Minneapolis banks generally require all country correspondents to completely liquidate their loans at least once a year. In this district the heavy borrowing occurs in the fall, commencing in August when the harvest begins. Loaning continues until the crop is marketed, and liquidation takes place in October, November, and December. Some loans are also made in the spring to finance seeding, but this seldom |

These loans necessarily are not liquidated until after the crop is marketed. In St. Louis, a "clean-up" is insisted upon by or during December from banks in the cotton territory, while banks financing other crops than cotton have the "clean-up" time varied to suit the marketing season. One bank in this city states that its correspondents borrow between April and August, and liquidate between October and December, remaining out of debt until the following April. In Kansas City, Dallas, and San Francisco all but one reporting bank insist upon an annual "clean-up." Dallas bank states it insists on a periodical "clean-up," and does not think the borrowing institution should be back in the market borrowing money for a period of five or six months. The one bank having no formal requirement regarding annual liquidation adds that in case a "clean-up" is not made it ascertains the reason thereof. One bank in Kansas City reports that it requires a "clean-up" once or twice a year, depending upon the nature of the business of the borrowing bank. "Our California banks only borrow during the cropmoving period," states a San Francisco bank.

The usual method of insisting on a periodical liquidation of all loans is by making an annual "clean-up" part of the agreement covering the loan. One bank located in Chicago adds emphasis by increasing the rate of interest with each renewal. Several institutions require a reduction of the loan with each renewal, but this requirement depends upon the exigencies of the case. One Dallas bank states that "we try to impress upon them at the time the loan is made that a bank is not chartered for the purpose of borrowing money, except for specific purposes—first, the making of a crop under adverse conditions, and second, taking care of the crop after it is made." The importance of prompt liquidation in connection with their credit standing is explained to borrowers by a

Kansas City bank.

By far the greatest volume of loans are for seasonal needs, although during the past two years more loans for other than seasonal needs have been made than previously. These have been occasioned mainly by Government financing, and, among Chicago banks, by land settlements this year. Unusual withdrawals of deposits, of course, call for special loans. Several banks report that when application is made for a loan other than to help in financing crops, arrangements are made for each special case. Only one bank in the territory, a Kansas City institution, reports that it makes a general practice of lending for other than seasonal requirements. The centers included occurs except after a previous bad season. In the present study thus stress lending for seasonal purposes only, to a greater extent than is the case in New York.

III. FORMS OF ACCOMODATION.

Security of the loan.—As in New York, the greater volume of accommodation granted by city banks to their correspondents is in the form of loans against the borrowing bank's note secured by collateral rather than through rediscount of commercial paper for them. The percentage of unsecured loans varies considerably both among the various centers and among the institutions in each center. The highest figure given is by a large San Francisco bank, which places its unsecured loans at 75 per cent of the total accommodation extended, and its rediscounts at 5 per cent. Other San Francisco institutions all show a much lower proportion, and one requires security for all advances. In Kansas City the percentage of unsecured direct loans varies from five to fifteen. One Dallas bank has about 10 per cent unsecured, but another requires either the indorsement of the board of directors of the borrowing bank or collateral for the face amount of the loan, and in the case of the smaller banks, the full limit of the State law, which is one and one-half times the face value and frequently guaranty of the board of directors. Loaning against an unsecured note is generally not favored in Chicago, and banks which do not furnish collateral are required to have the guaranty or indorsement of responsible individuals, usually the directors of the borrowing institution. Loans of Minneapolis banks reporting are all secured, while in St. Louis the proportion of unsecured loans ranged from virtually nothing to 5 per

In these centers, also, as in New York, the majority of the collateral consists of bills receivable. In Chicago, the "overwhelming preponderance" consists of them, one of the largest institutions showing 90 per cent and another 85 per cent of its collateral in that form. One institution, however, located in San Francisco, states that it has only one loan against which the collateral is bills receivable. Some institutions instance the less work involved in checking financial statements, collecting at maturity, etc., in the case of securities collateral. On the other hand, several institutions report that they have no loans secured by stock and bonds other than Liberty bonds. In Minneapolis, stocks and bonds other than Liberty bonds are used as collateral only to a neighble extent. There appears to be a decreasing volume of loans made against Liberty bonds, although loans made against Liberty bonds, although recourse, than a loan against very high-grade some banks still report that as high as 50 per collateral. Some banks rediscount on special

cent of the accommodation which they have extended is secured in this way. tion varies between banks, rather than between cities. One or two institutions at present are making no loans against Liberty bonds, while other banks prefer them to any other class of security, and accordingly request Liberty bonds as collateral when the borrowing bank has them. In some institutions it is noted that a better rate is given on a loan so secured than on one secured by bills receivable. Some institutions prefer securities to bills receivable as collateral, the Chicago banks being stated to be about evenly divided on this point.

The margins which are required vary somewhat between banks. Some banks in Kansas City and Dallas loan on Government obligations to the full face value, thus relying upon the maker's name. In various other cases 5 or 10 per cent over the market value is required, while in Minneapolis the amount is given as 20 per cent of the face value to conform with Federal Reserve Bank practice. In Chicago practice is to require a 15 per cent margin on Liberty bonds, 5 per cent on Victory notes, and loan to the full amount on certificates of indebtedness. Loans on other stocks and bonds in general carry 20-25 per cent collateral, and the margin is frequently the same as on bills receivable. Some banks, however, require only a 10 or 15 per cent margin. One bank in Chicago varies its requirement on bills receivable from 20 to 30 per cent in the case of large or good-sized banks to $1\frac{1}{2}$ to 1 in the case of small banks. In Minneapolis the 50 per cent margin generally required by all banks on bills receivable is increased by one bank to 100 per cent in the event of a renewal, but is more in the nature of a penalty for slow payment than a safeguard for the loan. In special circumstances, of course, margins will be increased, and the full limit of the State laws may be

Use of bills receivable.—Some institutions from which data were obtained do a very large rediscount business. Two banks report that 60 per cent or more of the total accommodation they extend is in this form. One of these banks is located in San Francisco and the other in Kansas City. One bank in Dallas estimates its percentage of rediscounts at 35 per cent. Such high percentages are the exceptions, however, rather than the general rule, and in most institutions the percentage of rediscounts does not exceed 5 or 10 per cent, and especial care is taken to safeguard the bank against any loss, one bank reporting that its rediscounts amount to little more, in view of their protection and occasions, such as when, after buying commercial paper in the market as an investment for a country bank, the latter finds itself in need of funds and requests the city bank to rediscount the paper for it. One bank which does this to some extent explains that at the time the paper is originally bought for its correspondent it does not obligate itself in any way, such as with a repurchase agreement. The condition of the correspondent at the time repurchase is made is the governing factor, not the circumstances under which the paper was previously bought. "With commercial paper," however, it is stated from Chicago, "there is no objection in any instance to rediscounting."

Various reasons are found for the rediscount of paper by banks with their city correspondents instead of obtaining a straight loan with it as collateral. A Chicago bank states that "usually we make an exception and rediscount instead of insisting upon a collateral loan to meet the wish of a banker who is still old-fashioned in this respect and objects to borrowing on the bank's notes." One bank rediscounts commercial paper when the statement of the maker warrants a larger advance than the country bank can legally make, and a second institution where the limit of bills payable which the bank can make has been reached. One San Francisco bank states, "if bank's own commercial paper, we prefer to rediscount; if not, we consider their note secured by bills receivable just as acceptable.' On the other hand, a Chicago institution which in the past has been doing a considerable rediscount business says, "more and more we are insisting upon bills parable secured by their bills receivable.'

No noticeable change in general is remarked in the methods of securing accommodation since 1914 by the banks from whom data were obtained. One Minneapolis institution believes that the member banks of the Federal Reserve system tend to reserve their eligible paper for use in connection with borrowings at the Federal Reserve Bank, while city banks "have adopted the practice of accepting as collateral any good customer's notes of a sound borrowing bank, merely insisting on the ratio of one and one-half to one of collateral against loans." One Kansas City bank, however, notices just the opposite change, stating "we have asked our correspondents to give us eligible paper whenever possible, and there has been a measurable response to this request."

Maturity of loans.—There are considerably

Maturity of loans.—There are considerably, ernment obligations increases. A reduction less demand loans made in this territory than is not usually required in the case of substitutions. Some banks send the collateral back and St. Louis all the banks from whom data were obtained report that they make no several banks send maturing paper to their

demand loans to banks. In Minneapolis it is further explained that the conditions under which borrowing occurs, namely in summer and fall to be repaid after crops are marketed, are especially adapted to time loans, and hence there are no calls for demand loans. In Chicago, San Francisco, and Dallas most banks make such loans only in exceptional cases, for example where the borrowing bank requires funds for a few days while getting paper rediscounted at the Federal Reserve Bank. One San Francisco bank, however, has about half its bank loans on demand, but all other reporting banks which have an such loans at all, show only a very small proportion. Some banks which accept a demand note from a country correspondent return it within a few days in case the loan is not liquidated and request a note with a definite maturity. maturities for time loans var. from 30 days to 6 months, with the majority for 90 days. As almost all the accommodation in this territory is for seasonal needs, the loans made for 90 days may at times if necessary be renewed for another 90 days, at the end of which time harvesting will be completed, and crop returns available. A few institutions, all in different cities, report that they make no loans for over 90 da s, believing that the country bank should not need funds from outside sources over three months in order to make the necessar, advances to borrowers in its own territory

Holding of collateral.—Collateral is usually held by the lending bank. Infrequent exceptions are made by banks when there is no question as to the integrity of the management of the borrowing bank. Kansas City is the only city in which the banks consulted state that they do not at any time allow the correspondent to either hold the collateral itself or deposit it with another institution which acts as agent for the lending bank. Where collateral is held by a bank other than the lender a trust receipt is generally employed. One bank allows the borrowing bank at times to set aside certain securities and bills receivable in the name of one of the directors of the borrowing bank, rather than with some other institution. This variation from the general practice is due to the fact that it saves the trouble and expense of shipping, insurance, etc., and also facilitates substitution. Facilitating substitutions of course decreases in importance as the proportion of collateral consisting of Government obligations increases. A reduction is not usuall, required in the case of substitutions. Some banks send the collateral back correspondent in order that prompt collection may be made. One institution never allows other banks to hold the collateral covering any of its loans unless it consists of warehouse receipts and substitution is to be allowed, in which event a bank in the locality of the borrowing institution acts as agent of the lending bank and holds the collateral. No difference is noted in practice in this regard as between the different sections of the country by the banks from whom data were obtained.

Special forms of accommodation.—The striking difference in the form in which accommodation is granted in the centers considered here and in New York is in the relatively large use of the certificate of deposit as a means of borrowing in several of the western centers. Reference to the table given at the opening of the present article indicates that the centers fall into three classes: (1) Chicago and St. Louis, which show a very small use of certificate of deposit borrowing; (2) Dallas and Kansas City, where greater use is made, but much less than in (3) Minneapolis and San Francisco, where the proportion for national banks is somewhat less than half. Some banks in Chicago, St. Louis, and Kansas City have a formal rule against such loans. One Chicago bank which loans a very limited amount in this manner states: "We are making every effort to educate bankers in the practice of borrowing in the regular way." Another institution which shows special consideration to one or two banks says their institutions have formed a habit of borrowing money by the issuance of certificates of deposit for the express purpose of not wanting to show the indebtedness under bills payable. As was above indicated, this is exactly why many banks included in the present study and practically all New York banks oppose the making of such loans. In some States, such as South Dakota and Wisconsin, loaning on certificates of deposit is prohibited by law, in which case notes are generally used instead. In Minneapolis and San Francisco, however, certificate of deposit borrowing forms a large percentage of the total accommodation extended. One bank in San Francisco extends perhaps almost 90 per cent of its accommodation to other banks in this form, the California banks in general issuing their certificates of deposit. The average in Minneapolis is between 80 and 90 per cent. In Minnesota, North Dakota, and Montana this is practically the universal method. Some banks make no distinction between the two forms of obligation, and regard certificates of deposit and notes as of the same value. A few banks note a variation in the form of

One bank in Dallas states that "during the marketing season, banks may more frequently issue certificates of deposit or the bank's obligation indorsed by directors for temporary advances. During the growing season, the bank's obligation supported by collateral is more frequently used, the loan covering a longer period. Paper of longer maturities offered in both spring and summer months; shorter maturities during the fall and winter."

The two other special forms of accommodation more commonly found, i. e., borrowing by the personal note of the directors or officers and sale of securities or paper with a repurchase agreement are reported to be found to a limited extent, as is the case also in New York. A few banks buy paper with repurchase agreement, and a larger number buy securities, especially Government obligations, in this way. However, there is no general policy as to this, and the banks reporting this practice are widely scattered, while they report that such transactions are infrequent.

IV. PARTS OF THE ANALYSIS.

Analysis of bills receivable offered as collateral.—Credit information concerning, or statement of the maker, frequently accompany paper offered when obtaining accommodation. In Chicago the estimated net worth of the several makers or indorsers of each loan pledged is required. One Dallas bank observes that "it is nearly impossible for us to analyze bills receivable. On all that we can analyze, we secure the commercial rating." One Kansas City bank in most cases obtains a memorandum of the assets and liabilities of the maker of unsecured loans in excess of \$1,000. Another Dallas bank and a San Francisco bank also vary the analysis according to the size of the paper, requiring definite information or making separate inquiries on notes of considerable size, in addition to the statement of the applying bank as to the maker's character and line of busi-The extent to which the receivables are scrutinized differs, of course, also with the standing of the subject bank. One Chicago institution frequently checks up on its bills receivable, and with the permission of the borrowing bank asks for information from other banks located in the same town in regard to the financial responsibility and moral risk of the makers.

The borrowing bank's statement.—The extent to which analysis is made of the statement of condition varies considerably. One bank states that "we are relying more especially upon our knowledge of the management and general conaccommodation at different times of the year.

particular location from which request is made for accommodation." This same thought will also find expression in the exceptions which are allowed to the ratios between the various items which are customarily considered in analyzing the statement. These items were indicated in the preceding article, and include the volume of business, the character of assets, and the borrowings. One Dallas bank gives little attention to the relation between deposits and capital investment for the reason that in its territory "deposits rarely reach a point out of proportion to capital." In Chicago one bank refuses to loan to institutions carrying fixed asssets in excess of 50 per cent of capital and surplus, or when the ratio of deposits to capital investment exceeds 10 to 1, explaining in such cases that they believe the borrowing bank should pay in additional capital instead of borrowing money. It is not the general rule to fix even a rough line of credit for correspondents. Most institutions prefer to consider every application on its individual merits rath r than to have previously made commitments. In a few cases a maximum line is established above which the lending bank will not consider applications for loans, but in these cases the maximum line appears to be rather for the use of the lending bank, and does not represent a commitment on the part of the latter. Most institutions which establish a maximum line of credit limit it to 100 per cent of the capital and surplus, although one institution in Chicago has placed it at 50 per cent of the capital and surplus. Another institution, located in St. Louis, states that it determines the loan limit by "capital investment, liquidity, and amount of balances main-

A few institutions attempt to gather information on "charge-offs" by the country banks they serve in relation to the growth of un-divided profits. While such information, if obtained, is significant, there are, however, as one bank in Dallas explains, other factors which may affect the undivided profits, such as overhead expense being out of proportion to gross profits, or the policy of the management in the payment of large dividends, thereby preventing the accumulation of a "healthy" undivided profits account. This particular bank placed little emphasis on the growth of the undivided profits account from year to year, and refers to the fact that it, like most banks, has no special facilities for obtaining such information. One institution requires figures as to profit and loss operations, showing charge-offs, etc., when they believe the institution is carrying slow assets. Another institution states it "considers a bank that charges off losses and shows no and Research.

gain and no undivided profits, a better risk than one that shows gain and undivided profits without charging off."

Handling of the account—Experience of 'other banks.—The way the borrowing institution handles its account with the lending bank naturally is relied upon much more than the experience of other institutions with the account. In drawing conclusions, important considerations are the average balance, the overdrafts and drawings against uncollected funds. One bank attaches importance to the manner in which the subject is dealt with by other institutions, in the event that another bank has the principal account of the country bank. Naturally any adverse reports from other institutions receive consideration, and are generally made the basis of an investigation. The manner in which the account is handled on the books is also an important factor in deciding whether or not a bank will require a reduction of a loan or permit a substitution of collateral.

A varying amount of importance is attached to advances made by other institutions. In most cases the other loans are added to the amount of the loan applied for, the total then being considered in relation to the total assets of the applying bank to see if its condition warrants the additional advance. One bank states that the fact that some conservative, successful bank had advanced funds to the applying bank, would tend to make it give the application more favorable consideration than otherwise. In Chicago loans by other banks are given little consideration, unless the aggregate is over 100 per cent of the capital and surplus of the applying bank.

Fluctuations in Loans and Discounts of Eleven Banks of New York City, 1913-1919.1

Part I.

The present study of fluctuations in loans and discounts is part of a general review of changes in condition of 11 banks of New York City, which courteously permitted excerpts to be made from their daily statements for a period of seven years, in order that an examination might be made of day-to-day fluctuations in the principal items under assets and liabilities. Although the total resources of the seven national banks and four trust companies included in the study approximated \$4,300,000,000 at the end of 1919, the statistics are limited in scope when compared with the weekly returns made by the clearing-house

banks of New York City. Their chief value lies in the fact that they are based upon a day-to-day survey of changes in condition of individual banks for a period during which our banking system has been subjected to radical changes, and has been forced to meet extraordinary demands growing out of war.

OUTLINE OF STUDY.

The first part of the study is confined to an examination of percentual changes in the loans and discounts of each bank for the period 1913–1919. The second part deals with the borrowing activities of these banks as shown by outstanding bills payable and rediscounts for the years 1918 and 1919. The data for 1917 are incomplete for four banks, and are not therefore given in as much detail as for the two later years.

Following these surveys of the course of loans and discounts and of rediscounts, similar examination will be made of percentual changes in individual deposits and in bank deposits for each bank. In this connection, the shifting importance of other investments as contrasted with loans and discounts can be further discussed. How did the war, for example, affect the distribution of investments as between loans and discounts on the one hand and securities on the other? Did it accentuate the tendency of those banks and trust companies whose direct investments in securities were already great, to expand this item more rapidly than did other banks? Or did banks previously unaccustomed to invest directly in securities in large amounts expand their holdings with greater relative rapidity? In short, did the characteristic emphasis of the several banks in matters of investment policy alter during the war or did it tend to persist in so far as war-time exigencies permitted? Generalizations based upon returns compiled from many banks can not, of course, answer such questions.

EXCLUSION OF OTHER INVESTMENTS.

In attempting to follow the movement of loans and discounts for each bank, a truer picture of banking activity will be given if other investments are excluded. Not only will the exclusion accentuate or define those differences in investment policy which are obscured by the inclusion of loans, discounts, and other investments under the same caption, but more light ought to be thrown in consequence upon the purposes and results of rediscounting. Segregation helps to explain why some banks have borrowed so much more heavily than others from the Federal Reserve Bank. It is also an aid to the understanding of differences

in times and in methods of borrowing. be sure, total loans and discounts are swollen by loans against Government securities and there is more or less shifting from United States securities directly held to customers' loans against United States securities. These loans are nevertheless in a very different category from direct investments in United States securities. The latter may have been acquired on credit, the resultant United States deposit requiring no reserve. The former gives rise to deposits requiring reserves, although if the proceeds of the loan are being used to pay for bonds, the deposit will eventually be shifted to Government account. The chief objection, however, to the elimination of loans against United States securities from total loans is the impossibility of differentiating between those loans which would never have been contracted except for investment purposes and those whose proceeds are being used in all sorts of ways-loans which would have been collateraled in some other fashion if United States securities had not been available.

LOANS AND DISCOUNTS.

A number of difficulties were encountered in assembling day-to-day returns of loans and discounts for the several banks. The only way to test the comparability of the items has been to check them with reports made to the United States Comptroller of the Currency and the New York State Superintendent of Banks, and then to find out by direct inquiry the reasons for the discrepancies that usually exist between the official statements of condition and the daily ones. The United States Comptroller, for example, requires banks reporting at dates of call to subtract from total loans and discounts the following items: (1) Notes and bills rediscounted (other than acceptances sold); (2) acceptances of other banks payable at a future date, guaranteed by the reporting bank by indorsement or otherwise; and (3) foreign bills of exchange or drafts sold with indorsement of the reporting bank. But in calling for a condensed statement from individual banks for publication in the second volume of his annual report, the Comptroller asks for gross amounts of loans and discounts which include besides overdrafts and rediscounts the above-mentioned contingent liabilities on indorsed acceptances of other banks and foreign bills of exchange. Since the banks, as a rule, do not include items (2) and (3) among loans and discounts in their daily statements, and since, for the purpose in hand, it seems undesirable to do so, the statistics of loans and discounts, although including item (1) notes and bills rediscounted, fall by these excluded amounts of contingent liabilities which are very large in two instances.¹ In the case of Bank O, however, the contingent liabilities on acceptances of other banks indorsed have not been excluded. The daily statement is in highly condensed form and these totals have been added to the figures for daily loans and discounts. An examination of the detailed statements made to the Comptroller over the years for which the item appears shows that the amounts are fairly stable and percentually insignificant. At worst, the growth in 1919 would slightly raise the percentage of total loans and discounts for the later months of the year.

WORK OF ASSEMBLING.

The heterogeneity of the forms in which the daily statements appear made the work of assembling difficult. Since the daily statement is a record designed to meet the special needs of the bank and its officers, it is not surprising that no two banks are alike in methods of presentation. In some cases there are elaborate classifications of loans affording a fairly detailed insight into investment policies of the banks; in other cases the classifications are allembracing and sometimes misleading to an outsider. As a result, additions, both simple and lengthy, and occasional subtractions are required to bring the totals into general con-formity with one another. The most serious obstacle encountered in bringing about the uniformity necessary for the purpose in hand grows out of the variety of practice that prevails in segregating loans from other investments. To be sure, items not placed in accordance with official rulings are eventually thrown into total loans and discounts—or taken out, as the case may be—on dates of call; but otherwise they appear on the daily statement under various headings. One bank, for example, included all its United States certificates of indebtedness under time loans, and these had to be subtracted from the daily totals by reference to other records. Another institution classified under other investments, securities held by it under repurchase agreements (large amounts as it happened) which were transferred to loans only at dates of call. Moreover, to the uninitiated these holdings were not described in a way to differentiate them from other stock and bond investments. Another bank which also carried securities under repurchase agreements had classified them as loans, but under a designa-tion which required definition. In all cases, differences of this sort have been corrected in

accordance with the official practice except in instances noted below.

FOREIGN LOANS.

Loans made by foreign branches of two of the banks had to be excluded as they are only available for the dates of call and their inclusion would be undesirable for comparative purposes even if obtainable. In one of these cases estimates of amounts of such loans were obtained and it was found that the resultant percentage fluctuations did not differ materially from those used except in one month. Banks with foreign departments sometimes maintain entirely separate bookkeeping systems and only transfer balances to the daily statement instead of distributing investments among the various items. For this reason, in the case of Bank Z, the average amounts of foreign loans were estimated on the basis of the Comptroller's calls, as the amounts were nearly the same for all the dates and assurance was given that they were consistently so. It so happened that the resultant changes amounted to only a fraction of 1 per cent in any month. In the case of the same bank, certain shortterm municipal notes carried as loans on the general ledger had been transferred to investments in the daily statement and were allowed to remain there. Otherwise, except for a few minor items (kept under investments for all purposes except calls), whose addition to loans would have been laborious and would have been practically without effect upon computations, uniformity of practice in combining loans and discounts has, it is hoped, been secured.

MERGERS.

The continuity of the comparisons has been interfered with in four instances by mergers. Fortunately, in two cases (Banks N and X) these occurred in 1914 and did not affect the computations of the chain indices in 1917, 1918, 1919. The averages were corrected by increasing the totals for the earlier months of the year in which the mergers took place by a constant percentage representing the addition to loans thereby brought about. In the third case (that of Bank O) occurring in 1919, loans were reduced for the later months in similar fashion in computing percentages for the tables showing the range of fluctuations in the daily averages of loans and discounts as given by months. In the fourth case (Bank A), the merger was effected in 1917 and it seemed best in this instance to increase loans for the preceding months of 1917 by a fixed amount instead of by the addition of a constant percentage. (See Tables I and II.) No corrections, how-

¹ Individual overdrafts as a rule do not appear on the daily statements, being kept as separate memoranda. Hence in all but one instance, in which the effect upon the results was insignificant, they have been excluded.

ever, were introduced for the statistics contained in Tables A and B in the second part of the study.

VOLUME OF LOANS.

The total volume of loans and discounts of the 11 banks, as averaged for the year in each case, on the basis of daily holdings, amounted to \$1,900,000,000 in round numbers in 1919. as compared with not quite \$620,000,000, the sum of the averages for 1913. As will be shown, however, by Chart X facing this page, the rate of increase has been very unequal for the different banks, while the extent of the fluctuations up and down show an extraordinary difference of degree and often of direction.¹

The banks rank as follows according to:

	(1)	(2)	(3)
Rank.	Total resources, 1919 (last official statement).	Loans and dis- counts, 1919 (averages based on daily statements).	Loans and discounts, 1913 (averages based on daily statements).
1	M C B E A X Z Z D	M C B A Z X N D	C Z M A B X E
9. 10. 11.	N O Y	Y E O	N Y O

Since the present study deals in percentage shifts, the banks naturally lend themselves to classification according to the character of the percentual changes in loans and discounts for the period. An examination of Chart X, referred to above, and of Table I, makes it evident that on the whole the banks have become increasingly unstable as regards the volume of loans and discounts held, but that, notwithstanding this fact, differences in degree of instability persist so that it is possible to group them roughly into (1) banks with a wide range of deviation from the yearly average throughout the period under examination, as, for example, Banks E and M; (2) banks with an intermediate range of deviations—some manifesting a fair degree of stability for single years, but with a great spread in the averages for other years, as banks O and C; others showing a wide range within the year but with greater steadiness of range when comparing one year with another, as Banks A and D. Banks B and Y have also been placed in this intermediate group; (3) banks with a relatively limited range of deviation as compared with the other banks in the group, as, for example, Banks X, Z, and N.

Table I.—Difference in range between (1) highest and lowest daily averages of loans and discounts for months, and (2) highest and lowest daily holdings of loans and discounts (expressed as percentages of the daily average of total loans and discounts for each year).

[Corrected as previously indicated to allow for mergers. Based on items correct to the nearest \$1,000.]

						,		-			
	Ban	k A.	В	ank I	3.	E	an	k C.	Ba	nl	κD.
	(1)	(2)	(1)	((2)	(1))	(2)	(1)		(2)
1913 1914 1915 1916 1917 1918	P. ct. 13.7 19.3 51.0 19.1 26.3 21.1 30.7	P. ct. 23.2 28.4 62.1 31.4 47.5 30.9 39.5	P. c 16. 17. 54. 16. 20. 41. 25.	8 3 0 3 6 6 6 2 3 2 6 5	. ct. 30. 5 32. 4 37. 4 36. 4 39. 6 32. 2 30. 5	P. 6 13. 26. 55. 14. 22. 37. 9.	6 9 6 0	P. ci 23. 34. 65. 23. 48. 50. 18.	9 17. 34. 3 64. 3 20. 9 25. 0 20.	5 6 6 2 8	P. ct. 26.2 44.5 73.7 30.8 45.1 36.9 39.4
	Ban	kЕ.	В	ank M	1.	В	an	k N.	B	nl	c O.
	(1)	(2)	(1)		2)	(1)	,	(2)	(1)	Ī	(2)
1913 1914 1915 1916 1917 1918	P. ct. 30.4 47.3 82.2 34.1 46.9 49.6		P. c 43. 39. 88. 17. 16. 54. 32.	4 4 2 5 6 10 9 2 8 3 0 7	. ct. 9. 9 4. 8 0. 7 6. 4 2. 1 3. 4	P. 6 10. 10. 29. 11. 16. 15. 22.	3 2 9 6 8 7	P. ct 24. 35. 40. 20. 24. 23. 33.	11. 16. 9 85. 8 26. 8 25. 6 45.	4 5 4 7 0	P. ct. 44. 4 29. 1 112. 1 38. 7 51. 4 70. 2 31. 1
		В	ank 2	κ.		Ban	kΥ	7.	Ва	nk	z.
		(1)		(2)	(1)	((2)	(1)		(2)
913 914 915 916 917 917		26. 39. 15.	4 5 6 3 0 4	22. 1 36. 8 51. 4 22. 6 43. 9 21. 9 21. 0	1 1 2 2 1 3	ct. 10. 5 10. 3 53. 4 27. 9 16. 5 30. 4 27. 9		7. ct. 20.8 18.0 71.7 45.2 27.1 41.6 39.2	P. ct. 7.9 12.8 36.4 11.0 9.2 17.3 22.1		P. ct. 16.0 22.0 44.6 21.0 28.0 25.8 27.3

DAY-TO-DAY FLUCTUATIONS.

The characteristic tendencies come out even more strongly in an examination of day to day fluctuations in loans and discounts. Table I gives the range of the daily averages for months, and of the actual daily amounts of loans held, for each bank, as expressed in percentages of the daily averages for the successive years. The justification for the attempt at grouping on the basis of the variability of the monthly average is usually reenforced by an examination of the figures showing the daily range. The classification is by no means hard and fast and it may be that certain banks in the intermediate group could be transferred to the first group. It will be noted that Bank M in the first group is first both in total resources and in loans in 1919; Bank E, fourth in total resources, is only tenth in loans; whereas two of the three banks in the lowest group rank higher in volume of loans than in total resources.

 $^{{\}bf 1}$ Chart ${\bf X}$ is based on actual averages without corrections for mergers.

The classification does not take account of differences in the rate of growth of loans and discounts from year to year. Bank E, for example, has shown a relatively lower rate of increase from year to year than other banks, falling from seventh to tenth place. Bank Z also has dropped from second to fifth place, whereas Bank N in the same group has advanced from ninth to seventh place. It is the variability in the amount of such holdings from month to month, not the rate of increase from year to year, that is emphasized by the grouping.

As the information in regard to the several banks was secured under pledge not to make individual returns public, actual figures are nowhere employed. It is very desirable, however, in comparing percentage fluctuations to secure at least a rough idea of the relative amounts of actual loans and discounts in order to know whether large percentual fluctuations apply to a relatively small bank or to one of the largest ones. For this purpose, Chart X, showing the course of loans and discounts for all banks for the years 1913-1919, has been drawn on the logarithmic scale, thereby making it possible not only to show percentage increases or decreases from month to month but also enabling one to place absolute amounts in relation to one another. Two-deck logarithmic paper was used in order to facilitate comparison of banks whose loans and discounts fall below \$100,000,000 with those which rise above that sum. This chart shows the general trend for each bank, and can be used to supplement impressions given by the statistics. (See Chart X.) Charts drawn on the arithmetic scale have also been prepared showing for one typical bank in each group the percentage changes in the daily averages of loans and discounts from month to month expressed in terms of the daily averages for the year. (See Chart Y following Chart X.)

(Excerpt from "Elements of Statistics" (Bowley), p. 188, 3d edition)

"" * " When we are attacking questions of causation it very frequently happens that we are more concerned to know the proportionate increase than the actual increase. * " We need a diagram not of quantities, but of ratios, where equal vertical distances represent no longer equal absolute increments, but equal proportional increments; that is, equal rates of increase. By the use of logarithms a universal scale can be constructed which serves this purpose. The nonmathematical student can easily accustom himself to the use of diagrams so constructed, by studying one where the actual amounts represented are entered, and noticing that whatever part of the scale he takes, doubling, halving, increasing by 20 per cent, and so on, are always represented by the same vertical distances, respectively. " " ""

It should be remembered, however, that the vertical scale measuring increases is not the same as that for decreases. For example, a 30 per cent decrease is always represented by the same vertical distance, on any part of

the scale, but the distance is not the same as for a 30 per cent increase. (Cf. scales of increase and of decrease, Chart X_{\cdot})

IRREGULAR LOAN MOVEMENT.

Throughout the period under examination the movement of loans and discounts is highly irregular. The uncertain industrial outlook in 1913, the outbreak of war in Europe in 1914, the coincident panic, the subsequent trade revival and unexampled growth of the years 1915 and 1916, were unsettling factors that took away all semblance of normality from statistics of banking growth. Then followed the declaration of war by this country and the all-controlling and upsetting influence exercised by fiscal needs. Opportunity for normal expansion and contraction of loans has been lacking. It is only surprising that in the midst of the turmoil there is a certain persistence of type in the movement of the loans and discounts of the individual banks that warrants an attempt at classification.

During the year 1915 the change in percentage relationships is unprecedented. In all cases there is a marked rise due to the fact that the year witnessed a tremendous growth of trade and industry following the uncertainty and panic immediately succeeding the outbreak of the war in Europe. A contraction of loans had no sooner been achieved than an expansion came on a great scale and a steady advance upward was registered. It is interesting to note that the range for all banks with the one exception of Bank E was greater in 1915 than in any war year, but the movement was regular, almost uniformly upward. It is also noticeable that the increase was as spectacular in the case of the trust companies as in that of the banks then belonging to the Federal Reserve System.

The outstanding fact which is emphasized by the charts is the increasing irregularity of loans and discounts for all banks, with the maintenance, however, of relative status, i. e., the banks showing greatest stability in earlier years are also found to have steadier loan holdings during the war period while the percentual changes of banks that were erratic to begin with continue to be pronounced. (See Charts X and Y and Table I.) The frequency table on page 46 showing by years the number of times different per cents occur in different months again evidences the progressive spread that has occurred in those fluctuations as compared even with such abnormal years as 1913-1914 (excepting 1915, however). (See Table II.)

A more detailed analysis has been made of the statistics of loans and discounts for the war years 1917, 1918, and for 1919, the daily averages for each month being expressed as a percentage of the daily averages for the preceding month, giving a series of chain relatives for each bank. Table III on page 47 shows the comparative frequencies of the values of chain relatives by months during the three years.

CHAIN RELATIVES.

A comparison of the classified chain relatives of the individual banks for the years 1917, 1918, and 1919 with those contained in the frequency table published on page 159 of the Review of Economic Statistics for April, 1919, which shows monthly average loans of the New York City clearing-house banks (January, 1879, to January, 1914, inclusive), gives added emphasis to the fact of increasing irregularity.

The medians of the relatives as computed from the clearing-house returns are as follows:

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	July. June. 101.3
<u>Feb.</u> <u>Jan.</u> 103. 7	Aug. July 100. 6
<u>Mar.</u> Feb 100. 7	Aug. July 100. 6 Sept. 99. 2 Oct. Sept. 100. 0 Nov. Oct. 99. 4 Dec. Nov 99. 2
Apr. 99. 4	Oct. Sept 100.0
<u>May.</u> Apr 100.0	Nov. Oct. 99. 4
June. May 100.8	Dec. Nov. 99. 2

Table II.—Loans and discounts: Daily averages for each month expressed as percentages of the daily average for the year.

[Frequency of occurrence of different per cents in different months.]

[Based on items correct to nearest \$1,000.]

								Ваз	sea o	n ite	ms c	orrec	et to	пеаг	esta	51,000	٠.]											
			Ja	nuai	ry.					Fe	brus	ry.					M	f arcl	۱.					4	April	ı.	-	-
Per cent.	1913	1914	1915	1916	1917	1918	1919	1913	1914	1915	1916	1917	1918	1919	1913	1914	1915	1916	1917	1918	1919	1913	1914	1915	1916	1917	1918	1919
65- 70 70- 75 75- 80 80- 85 85- 90 90- 95 95-100	3	1 2 3 3 2	2 2 3 2 2	1 2 2	2	2 3 5	2 4 2	1	2 1 6	1 2 2 2 4	1 1 1	4 3 2	1 2 2 2	 1 3 3 3	1 6	1 1 1 	1 3 1 4 2	1	 4 3	 1 2 2 2 3	1 1 3 2 2	6	3	1 2 4 4	 1 1	1 5	1 3 1 1 4	1 1 4 1 2
100–105	4 3 1			3	2	1	2 1 	4 4 1	1		4	2		1	1 1 	1		6 4	3 1 	1	1	2 2 	5 2 1		6 2 1	2 1 	1	1 1
Per cent.		May.									June	٠.						July	,					A	ugus	st.		
rer cent.	1913	1914	1915	1916	1917	1918	1919	1913	1914	1915	1916	1917	1918	1919	1913	1914	1915	1916	1917	1918	1919	1913	1914	1915	1916	1917	1918	1919
65- 70	2 6	·····	1 1 1 1 5 1	 5	1 2 5	1 2 2 2 2 2	1 1 5	3 7	2	1 1 7 2	1 7	5	 2 6	1 1	8	3	1 4 5	 2 5 4	 1 2	1	3	1 1 2	5	1 4	1 4 2	 1 1		2 5
100-105 105-110 110-115 115-120 120-125	2 1 	7 3 	1	6	2 1 	1	3 1 	1	4 5		3	2 4 	1 2 	3 4 1 1	3	2 1 1 1	1		6 2 	4 4 1 1	4 3 	4 3 	4 2 	4 2 	3 1 	3 5 1	4 3 1 1	1 1 1
			Sep	otem	ber.	•			•	0	etob	er.					Nov	emb	er.	-				Dec	emb	er.		
Per cent.	1913	1914	1915	1916	1917	1918	1919	1913	1914	1915	1916	1917	1918	1919	1913	1914	1915	1916	1917	1918	1919	1913	1914	1915	1916	1917	1918	1919
80- 85 85- 90 90- 95	1 3	- 2	3	 2 6	 1 1	3	1 1 1	1 1 1	1 4		4	 1 4	1 	 1 1	1 2 3	1 1 5		ī	1 2 3	 1 1	 1 3	1 4 5	1 2 4		1 1 3	1	1	i
100-105. 105-110. 110-115. 115-120. 120-125. 125-130. 130-135. 135-140. 140-145. 145-150. 150-155.	4 3	5 3 1	2 3 3 	1 1	6 2 1	5 2 1	6	8	3 1 2	1 5 2 1 	5 1 1 1	1	2 4 2	2 3 2 1 	5	4	1 3 2 1 1 1 1	5 4	2 1 2	2 2 1 2 1 1	3 1 1 1 	1	3	2 1 2 1 1 1 1	4 1 1	5 1 3	2 1 1 3 2 	3 1 3 1

Table III.—Loans and discounts: Daily averages for each month expressed as percentages of the daily averages for the preceding month.

[Comparative frequencies of values of chain relatives, by months, in three years.] [Based on items correct to the nearest \$100,000.]

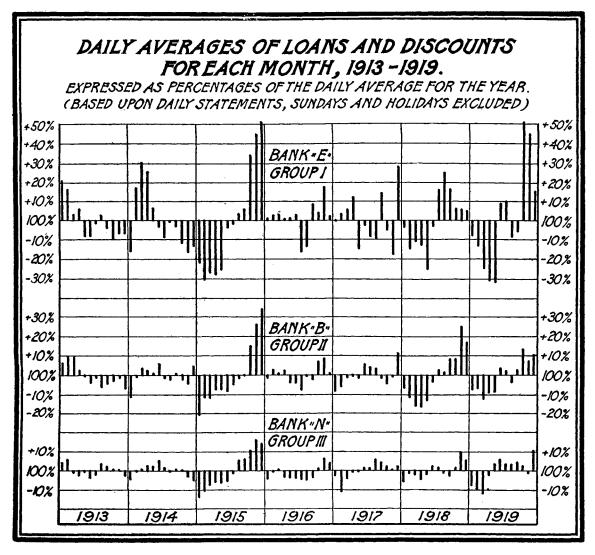
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65–70		!																
70-75				,	:-													
75-80 80-85					1							• • • • •		• - • • •	1			
85-90.		i			2		1							····i				
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95–100	4	2	2	5		2	5	3		4	6	2	3	2	3	2	2	4
100-105	1	3	1	2	3	5	3	2	6	4	3	5	5	7	3	1	9	
105-110	2	2	6	ī	1	2	ĭ	$\tilde{2}$	5		2	3	3		ĭ	2	2 2) 2
110-115			2		1					1		1		1		3	3	1
115-120														 			1	1
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60-65 65-70 70-75 75-80 80-85 85-90		June.	1917	1919	July.	1		August	;. I	Se	ptemb	1917	1919	Octobe	1917	1919	1918	1917
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60-65. 65-70. 70-75. 75-80. 80-85. 83-90. 90-95. 95-100. 100-105. 100-110. 110-115.	2 3 3 5 1	June. 1918 2 4 1	1917	1919	July.	1917	1919	1918 1918 2 2 4 2 1	1917	1919 1 1 5 3	1918 1918 2 3 3	1917 1917 1	1919	1918	1917	1919 1919 1	1918	1917
60-65. 65-70. 70-75. 75-80. 80-85. 85-90. 90-95. 99-90. 100-105. 105-110. 110-115.	2 3 5 1	June. 1918	1917 1 5 2 2 1	1919	July.	1917	1919	1918 2 2 4 4 2	1917	1919 1919 1 1 1 5	1918 1918 2 3 3	1917 1917 1	1919	1918 2	1917 1 3 3 2 1	1919 1919 1 1 5	1918	1917
60-65. 65-70. 70-75. 75-80. 80-85. 85-90. 990-95. 95-100. 100-105. 105-110. 110-115. 115-120. 120-125.	2 3 3 5 1	June. 1918 2 4 1 2 2	1917 1 5 2 2 1	1919	1918 	1917	1919	1918 1918 2 2 4 2 1	1917	1919 1 1 5 3	1918 1918 2 3 3	1917 1917 1	1919	1918	1917 1 3 3 2 1	1919 1919 1 1 5	1918	1917
60-65 65-70 70-75 75-80 80-85 85-90 90-95 95-100 100-115 115-120 115-120 120-125 125-130 130-135	2 3 5 1	June. 1918 2 4 1 2 2 2	1917	1919	July.	1917	1919	1918 1918 2 2 4 2 1	1917	1919 1 1 5 3	1918 1918 2 3 3	1917 1917 1	1919	1918	1917 1 3 3 2 1	1919 1919 1 1 5	1918	1917
60-65. 65-70. 70-75. 75-80. 80-85. 83-90. 990-95. 95-100. 100-105. 110-115. 115-120. 1290-125. 125-130. 130-135.	2 3 5 1	June. 1918 2 4 1 2 2 2	1917 	1919	July.	1917	1919	1918 1918 2 2 4 2 1	1917	1919 1 1 5 3	1918 1918 2 3 3	1917 1 1 7 2 1 1	1919	1918	1917 1 3 3 2 1	1919 1919 1 1 5	1918	1917
60-65. 65-70. 70-75. 75-80. 80-85. 85-90. 90-95. 95-100. 100-105. 105-110. 110-115. 115-120. 120-125. 125-130. 130-135. 135-140. 140-145.	2 3 5 1	June. 1918	1917	1919	July.	1917	1919	1918 1918 2 2 4 2 1	1917	1919 1 1 5 3	1918 1918 2 3 3	1917 1 1 7 2 1 1	1919 1117 7	1918	1917 1 3 3 2 1	1919 1919 1 1 5	1918	1917
60-65. 65-70. 70-75. 75-80. 80-85. 85-90. 990-95. 95-100. 100-105. 110-115. 115-120. 120-125. 125-130. 130-135. 135-140. 140-145.	2 3 5 1	June. 1918	1917	1919	July.	1917	1919	1918 1918 2 2 4 2 1	1917	1919 1 1 5 3	1918 1918 2 3 3	1917 1 1 7 2 1 1	1919 1117 7	1918	1917 1 3 3 2 1	1919 1919 1 1 5	1918	1917
60-65. 65-70. 70-75. 75-80. 80-85. 85-90. 90-95. 95-100. 100-105. 105-110. 110-115. 115-120. 120-125. 125-130. 130-135. 135-140. 140-145.	2 3 5 1	June. 1918	1917	1919	July.	1917	1919	1918 1918 2 2 1 1 1 1 1 1 1 1	1917	1919 1 1 5 3	1918 1918 2 3 3	1917 1 1 7 2 1 1	1919 1117 7	1918	1917 1 3 3 2 1	1919 1919 1 1 5	1918	1917

per cent in any month for the entire period were eight in number, three occurring in February. The cases in which decreases equaled or exceeded 6 per cent were one each in January, March, May, June, October, and December. A glance at Table III shows how marked are the divergencies of the relatives of the individual banks from any normal trend that may be postulated on the basis of the clearing-house figures. To be sure these latter computations were based upon composite returns from the clearing-house banks and individual erratic tendencies would be absorbed in many in-

The cases in which the increase exceeded 6 | stances. However, when 11 banks, representing such large amounts of banking resources as those in question, show variations as extreme as indicated in the table presenting comparative frequencies of values of chain relatives in the years 1917, 1918, 1919, it is evident that all tests of normality that might once have been applied fall down. Even eliminating Bank E and Bank M, responsible for the most extreme fluctuations, the spread still remains very great.

² The clearing-house returns include in addition to loans and discounts, "stocks, bonds, and mortgages owned by the bank." Although the inclusion of such other investments further vitiates comparison with statistics of loans and discounts, the comparison still has value, because for the prewar period investment holdings would probably remain fairly steady comparing one month with another.

CHART Y.



Bank "E" has a limited number of large accounts and heavy investments in securities in relation to loans. It is among the leading "Wall Street" banks.

Bank "B" occupies an intermediate position. It represents commercial banking operations, does a Wall Street

business, and controls heavy bankers' balances.

Bank "N" has a large number of individual accounts and is said to be engaged primarily in commercial banking

operations. Investments in securities are relatively small.

Although these three typical banks happen to fall into three different groups, the method of grouping has not been based upon any distinctions as to type of business done. It rests of necessity upon superficial differences that are apparent to anyone examining the statistics. A thoroughgoing interpretation of the changes in loans and discounts of the individual banks would necessitate an intimate knowledge of the scope of their activities, the kinds of business financed by them, and the seasonal peculiarities of such businesses.

COMPARISON WITH CLEARING-HOUSE BANKS.

Furthermore, not only are individual variations abnormal as compared with the composite clearing-house returns, but the upward and downward trends for the 11 banks taken as a whole are quite incalculable from month to month during the three-year period studied. For example, in 1918 and in 1919 January shows a decline over December of the preceding year in a majority of instances, whereas the median point for the clearing-house banks for the period 1879-1914 was 101.3; February shows a decline in these years, but in 1917 advances were recorded for 7 of the 11 banks (C. H. 103.7). Similarly, in March, 1918, and in March, 1919, there is a decline in 7 cases (C. H. 100.7). April shows a decline in 6 cases both in 1918 and in 1919, but advances in 9 cases in 1917 (C. H. 99.4). In May declines occur in 3 cases in 1918, in 3 cases in 1919, and in 7 cases in 1917 (C. H. 100.0). In June for all three years there was an advance over May in a majority of cases (C. H. 100.8); in July there was an advance in 1918 in all but two cases and in the other years a fairly even division (C. H. 101.3). In the majority of cases August shows a drop in 1919 and 1918 (C. H. 100.6), and September an advance in 1919 and a drop in 1918 and 1917 (C. H. 99.2). October drops in 1917, advances in 1918 and 1919 (C. H. 100.0); November advances in 1918, drops markedly in 1919 (C. H. 99.4); December advances in 1917 and drops in 1918 and 1919 in the majority of cases (C. H. 99.2). Even if there were evidence of a tendency to conform to any general trend in the movements upward or downward, the percentage changes are so extreme in comparison with the restrained limits of the clearing-house returns for the earlier years that they would be of little use in enabling one to forecast trends. As it is, there is a lack of consistency in the month to month changes when comparing one bank with another and lack of consistency in month to month changes from one year to another in the case of the same banks.3

EFFECT OF REDISCOUNTS.

With the rediscount facilities afforded by the Federal Reserve Banks, it is to be expected that the month to month fluctuations in loans and discounts would be exaggerated. In a sense, that may be said to have been one of the chief objectives of banking reform—to make it easier to enlarge loan holdings at certain seasons of the year, not to keep them within rigid limits. If borrowing from Federal Reserve Banks had been undertaken solely for carrying loans instead of largely for the purpose of financing the purchase of securities, or if it were possible to differentiate actually as well as technically between the two classes of applications, one might measure somewhat the extent to which borrowing or rediscounting in 1917, 1918, and 1919 had enhanced the fluctuations of loans as compared with the already erratic movements of 1913-1916.

It is obvious that any seasonal tendencies have been obscured, neutralized, or even reversed by war-time needs and by readjustment activities following the war. The fairly general and decided upward trend at the end of the year in 1917, 1918, and 1919 testifies to that fact. That the composition of loans should be altered by war needs goes without saying. All banks would have large additions to loans collateraled by United States securities. Those banks investing heavily in United States securities would also borrow more heavily to pay for them. But such investments would not affect the ability to lend to private borrowers, and if rediscounting operations had been confined to financing purchases of United States securities, there would be no reason to expect that loans and discounts would show a tendency to shift more violently in the later years of the period studied. As a matter of fact, it is evident that the rediscounting facilities afforded by the Federal Reserve Banks not only took care of the purchase of Government securities but made possible the creation of "war" loans without necessitating the displacement of other loans to an equal amount, just as in normal times seasonal needs would make possible the granting of new loans without corresponding contraction, if rediscounting facilities were available. It is not without significance, therefore, that the banks which have resorted most largely to borrowing are usually found among those whose loan holdings have been highly irregular. The banks which have done the least borrowing have maintained, as compared with other banks, a steadier line of loans and discounts, although all have shared in the increasing unevenness.

³ The Review of Economic Statistics for June, 1920, p. 145, contains the following statement:

following statement:

"During the prewar period the corrected items of the following series fluctuated with interest rates:

"Loans of New York City clearing-house banks,
"Deposits of New York City clearing-house banks,
"Dividend payments by industrial corporations.
"The significance of the first two of these series has been changed by the introduction of the Federal Reserve System. The enormous rise in prices has, of course, had its effect on the volume of loans and deposits. During 1919, all banking operations were affected by government financing. Moreover, the data for 1903-1914 included commercial banks only; since 1914, the consolidated statements excluding trust companies have not been issued. For all of these reasons, loans and deposits of the New York banks have been discarded for the present as indices of banking conditions.

PART II.

To demonstrate the statements made above, it is necessary to follow the operations of the individual banks, in order to see to what extent and under what conditions they borrowed from the Federal Reserve Bank. The detailed examination of their borrowing operations has been confined to 1918–19 as the data for 1917 are incomplete for several banks. The returns for 1917 which are available, however, merely reinforce the conclusions reached by a study of the statistics for 1918–19.

Borrowing operations of the banks have been considered primarily in their relation to loans and discounts on the one hand, and to United States deposits on the other, with a view to determining some of the underlying reasons which led to applications for loans and rediscounts. (It is hoped that a study of changes in individual deposits and in bankers' deposits, now in preparation, will throw further light on

this subject.)

So much stress has been placed upon the extent to which borrowing at the Federal Reserve Banks has resulted from Government calls of sums on deposit created by loans made to the Government against holdings of its securities, that it is interesting to observe the cases in which operations of this sort are severely limited. In two cases, at least, Banks N and X, borrowing was resorted to relatively late and only became considerable at the end of the period studied when business and industrial needs rather than governmental demands were pressing.

STATISTICAL STUDY.

Tables A and B contain the statistics upon which the study is based. Table A shows for each bank for 1918 and 1919 the percentage deviations from corresponding items for the previous month, of daily averages of (1) loans and discounts, (2) bills payable and rediscounts, and (3) United States deposits. Table B shows the percentage relations of daily averages for months and for years of (1) bills payable and rediscounts and (2) United States by increasing deposits to daily averages of total loans and

discounts for corresponding periods during 1918 and 1919. Table C gives data similar to that presented in Table B for the seven banks for which returns were secured in 1917.

For purposes of the present study, it appears desirable to ignore the distinction between bills payable and rediscounts. To subtract rediscounts from total loans, for example, and not deduct bills payable would give an entirely false idea of the relative position of two banks, one of which is shifting part of its burdens whether of loans or of investments by means of bills payable, while the other is resorting to rediscounts. In the case of Bank Z, for example, bills payable are collateraled by bills receivable over a considerable period. If one were to include these bills receivable in total loans and discounts and exclude eligible paper of the same sort rediscounted, the proceeding would be illogical and would lead to false conclusions. For purposes of the present comparison, therefore, rediscounts have been added to loans and discounts as previously stated and total figures of bills payable and rediscounts have been compared with total loans including rediscounts.

In the banks examined, bills payable have usually been collateraled either entirely or almost wholly by certificates of indebtedness. In the case of Bank E this is exclusively so: the use of bills receivable by Bank Z is exceptional. Some of the banks have made fairly extensive use of customers' paper collateraled by United States securities, as, for example, Banks B and C. But the facts are that the purpose of the rediscount does not dictate the form it shall take. The only way to establish a connection (or lack of it) between the general lending activities of the bank and its need of rediscounts is to combine bills payable, however secured, with rediscounts. Even so, if investments are combined with loans for purposes of comparison, the reasons for mounting rediscounts are obscured. They may be due to payments called for by the Government or investments in securities or they may be occasioned by increasing loans. There is no way of knowDecember.....

Table A (1918).—(1) Loans and discounts, (2) bills payable and rediscounts, and (3) United States deposits.—Percentage deviation of the daily average for each month from the corresponding daily average for the preceding month.

[Based on items correct to nearest \$100,000.]

		Bank A		В	nk B.			Bank (c.]	Bank D	•]	Bank I	E.		Bank M	ī .
	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)1	(1)	(2)	(3)	(1)	(2)	(3)
1918. February. March. April. May. June. July August. September. November. December.	$ \begin{array}{r} -5.4 \\ +0.3 \\ +4.2 \\ +2.3 \\ +1.9 \\ +2.8 \\ -5.3 \\ -0.6 \\ +16.6 \end{array} $		+127.9 -32.3 -8.6 $+14.6$	-4.9 + 0.8 - 0.8	22.6 - 3.6 - 23.5 - 42.6 - (2) - 108.1 - 49.6 - 19.6 - 35.1 - 0.0 -	Per ct. +44.8 -15.2 -6.4 +25.2 +46.3 +5.0 -16.7 -48.6 -3.7 +46.1 -1.3	- 5. - 1. + 1. + 15. + 10. - 2. - 2. + 2. + 14.	1 - 30. $2 + 22.$ $7 + 125.$ $8 + 32.$ $9 - 2.$ $9 + 156.$ $6 + 65.$ $0 + 352.$ $8 + 48.$	2 + 206.8 $3 + 30.4$ $5 + 8.2$ $1 - 0.2$ $6 + 1.8$ $0 - 31.5$ $3 + 32.2$	$\begin{array}{c} + 7.3 \\ + 5.2 \\ + 5.3 \\ + 0.6 \\ - 2.0 \\ + 3.7 \\ - 0.5 \\ - 12.4 \\ - 6.6 \\ + 6.1 \end{array}$	+1.8 $+54.2$ $+20.1$ -1.9 -45.2 $+16.8$ $+45.1$ $+4.9$ -26.0	+165.5 + 20.8 - 35.5 + 60.0 + 50.0 - 13.9 - 16.1 - 40.4	$\begin{array}{c} -11.7 \\ + 4.3 \\ - 1.8 \\ -13.9 \\ +30.0 \\ +19.0 \\ + 7.7 \\ - 6.6 \\ - 9.1 \\ - 0.3 \end{array}$	(2) (2) +44. +70. +24. -42. + 7. +64. +20. - 0.	5 + 55. 5 - 12.	1 -23. 1 + 8. 1 + 1. 4 + 0. 9 +11. 5 +14. 2 - 4. 3 + 0. 8 + 9. 5 +14.	7 + 89.1 3 + 222.9 7 + 22.8 5 - 45.7 5 - 54.3 6 + 185.4 9 + 117.4 9 + 25.0 0 - 34.6	+32.0 -31.6 -45.7 - 4.3 - 1.0 +61.4 -16.0 -29.3 - 3.7 -24.2
			Bank 1	N.		Bar	ık O.			Bank X			Bank	Y.			Bank Z.	
		(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)) (3)1	(1)	(2)	(3)
1918. February March April May June July August September October November		Per ct +32. +3. +4311. +4.	7 (2) 6 (2) 0 (2) 0 (2) 1 (2) 2 (2) 4 (2) 5 8 +380 1 + 6	+ 74. + 9. - 40. +117. - 18. - 36. - 36. + 78. 3 - 8.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 + 5 $0 + 5$ $0 +$	2)	Per ct. +18.3 -65.2 +62.9 -45.5 +22.9 + 3.4 +55.7 -58.9 +17.1 +17.3	Per ct. + 0.6 - 0.9 - 2.5 - 1.3 - 0.2 - 1.0 + 16.4 - 3.4 - 3.7	(2) + 45.5	+16. +66. +25. -59. -1.	9 +10 2 + 0 2 + 0 1 - 3 0 + 5 7 + 1 6 - 4 9 + 4 4 + 5 9 +10).2).3. +6).8. +2].0. +].6. +1].2].9. +5].1. +].5. +3	6.1 + 9.0 - 5.0 + 1.1 + 1.4 - 4.4 - 5.3 - 3.4 + 5.4 +	59.5 1.7 45.0 36.4 60.0 6.9 6.0 60.3	Per ct 6.5 - 5.5 + 5.5 + 3.8 + 6.2 + 2.1 - 4.1 - 3.3 - 1.3 + 6.8	Per ct. +29.1 +38.4 +5.7 -24.0 +11.9 +88.3 -7.3 -15.2 -4.0 -39.0	Per ct. +273.5 - 8.7 - 16.4 + 77.3 - 21.5 + 27.4 - 52.1 - 23.2 - 47.2

Table A (1919).—(1) Loans and discounts, (2) bills payable and rediscounts, and (3) United States deposits—Percentage deviation of the daily average for each month from the corresponding daily average for the preceding month.

[Based on items correct to nearest \$100,000.]

		Bank A	.	В	ank B	•		Bank (D.	1	Bank D]	Bank E	ì.		Bank M	ι.
	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
1919. January February March April May June July August September November	$ \begin{array}{r} -2.4 \\ +3.4 \\ 0.0 \\ -13.0 \end{array} $	$\begin{array}{c} -12.6 \\ -0.7 \\ +1.8 \\ -25.6 \\ -57.1 \\ +234.0 \\ -7.9 \\ +14.4 \\ +18.5 \\ -66.5 \end{array}$	+ 22.0 + 16.6 - 14.3 - 16.7 - 24.0 + 263.2 - 64.5 - 20.5 + 64.1 + 7.3 - 50.4	$ \begin{array}{r} -3.6 \\ +0.9 \\ -6.3 \\ +3.8 \\ +0.6 \\ +13.3 \\ -1.2 \\ \end{array} $	- 79.2 - 14.9 - 56.3 0.0 - 23.6 - 54.6 - 80.7 -487.0 -168.2 - 15.2	+ 59.2 - 39.0 + 59.8 - 56.9 + 14.1 + 40.3 - 21.6 + 183.1 + 26.6 - 54.8	-1.2 -1.3 +2.3 -0.3 +5.3 -2.6 -7.3 +0.3 +2.3 -1.3	2 +18. 7 +13. 9 -19. 1 +20. -30. - 8. 2 + 1. 3 +24. 7 -49.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{r} + 0.3 \\ + 2.0 \\ - 1.9 \\ + 5.6 \\ + 24.4 \\ - 7.6 \\ + 6.6 \\ - 2.8 \\ - 5.8 \\ - 8.8 \end{array} $	+22.3 + 3.2 + 5.4 +10.9 -10.2 - 0.4 - 4.1 -32.6 -20.5 -12.9	+20.0 + 5.5 -24.2 -33.3 -22.9 + 8.1 +77.5 -18.3 -44.8 -43.7	$\begin{array}{c} -6.0 \\ -13.0 \\ -7.6 \\ -2.1 \\ +59.9 \\ +1.1 \\ -17.2 \\ +2.8 \\ +60.9 \\ -3.9 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	3 + 45.3 $3 - 38.6$ $4 + 28.8$ $3 + 112.6$ $4 + 269.6$ $4 + 269.6$ $4 + 3.2$ $4 + 56.3$ $4 + 7 - 7.8$	6 -3. +2. 0. +0. +6. +9. -0. +5. +9. +5. +1.	0+51.7 $3-21.6$ $3+13.3$ $0-19.6$ $2+2.3$ $4-12.3$ $7-14.3$	3 + 17.0 3 + 10.5 5 - 26.7 3 - 40.3 2 + 105.8 2 - 32.7 5 + 85.9 3 + 32.6 3 + 20.9 3 + 20.9 3 + 20.9
			Bank N	τ.		Ba	nk O.]	Bank X			Banl	k Y.		1	Bank Z.	
		(1)	(2)	(3)	(1	1) ((2)	(3)	(1)	(2)	(3)	(1)	(2) ((3)	(1)	(2)	(3)
January February March April May June July August September October November		- 3. + 0. + 0.	2 (1) 4 (1) 7 (1) 0 (1) 19 2+280. + 100. 2 + 57. 8 2+ 50. 2 2+544. 9 - 29.	$ \begin{array}{c cccc} 0 & -66 & -$	5++ 2 3 7 3 3 2 9	4.7 + + + + + + + + + + + + + + + + + + +	123. 1 72. 8 7. 9 42. 7 21. 4 7. 5 35. 5 38. 1 ² 48. 1 114. 8 10. 3	P. ct. - 30.3 + 8.8 + 12.7 - 20.8 - 23.9 - 50.1 - 30.8 + 316.3 + 7.4 - 51.5 - 52.0 + 408.6	P. ct. -5.3 -0.2 +5.0 -2.2 +3.9 -5.0 +0.2 +1.8 +2.0 +2.4 +1.9	+66.0 -43.4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.3	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	91. 2 26. 6 0. 0 51. 1 13. 1 250. 0 40. 0 33. 3 10. 7 4. 0 31. 5	$\begin{array}{c} P.\ ct. \\ -\ 3.5 \\ -\ 5.9 \\ +\ 0.2 \\ +\ 1.9 \\ -\ 1.4 \\ +\ 1.8 \\ +\ 4.9 \\ -\ 1.8 \end{array}$	P. ct. +35.6 +12.9 + 3.9 -37.8 +66.6 +26.1 -18.8 +18.3 - 0.7 + 0.6 + 4.4 - 9.8	+420.0 - 58.0 - 61.5

¹ No rediscounts or bills payable reported.

¹Computations for both years based upon weekly statements made to the Federal Reserve Bank of New York showing United States deposits on hand.

² No rediscounts or bills payable reported. (The percentage computations showing increases or decreases in bills payble and rediscounts are in each case compared with returns for the last preceding month in which they are reported, not antedating Jan. 1 1918, however.)

³ Baseless than \$1,000,000.

² Base less than \$1,000,000.

Table B.—(1) Bills payable and rediscounts, and (2) United States deposits—Daily averages for months and for years expressed as percentages of the daily averages of total loans and discounts for the same periods.

[Based on items correct to nearest \$1,000.]

Average	Ban	k A.	Ban	kВ.	Ban	kС.	Ban	k D.	Ban	k E.	Ban	kМ.	Ban	kN.	Ban	kО.	Ban	kХ.	Ban	kY.	Ban	k Z.
for—	(1)	(2)	(1)	(2)	(1)	(2)	(1)	1(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	1(2)	(1)	(2)
1918. Year 1918	P. ct. 5. 6				P.ct. 12, 6				P. ct. 68. 5	P. ct. 60, 0	P. ct. 13. 4	P.ct. 9.5	P. ct. 1. 1	P.ct. 6.3	P. ct. 5. 9	P. ct. 13. 2	P.ct. 4.8	P.ct. 7.2	P.ct. 22.4	P.ct. 7.4	P. ct. 14. 5	
Jan	(2) (2) (3) (4) (2) (3) (4) (5) (6) (6) (6)	16. 8 12. 1 10. 9 12. 7 10. 6 9. 7 11. 3 12. 8	6.8 7.5 5.7 3.1 (2) 5.5 8.4 9.5 6.1 5.4	8.2 7.3 7.0 8.3 11.0 10.8 9.2 4.4 4.2 5.4	6.2 8.0 18.3 23.7 19.9 0.9 2.4 4.1 18.0 23.3	15. 4 21. 1 23. 3 22. 8 20. 1 12. 4 26. 9 10. 8 13. 0 9. 1	16. 9 25. 0 28. 5 27. 7 15. 4 17. 4 25. 5 30. 4 19. 5 13. 5	7.3 8.4 5.3 8.4 12.7 10.5 8.8 5.9 5.6 7.2	(2) 50. 0 98. 7 94. 4 45. 6 45. 6 80. 4 111. 1 106, 2	47. 9 69. 7 91. 0 130. 3 47. 2 61. 7 50. 3 40. 1 72. 9 92. 4	2.9 5.1 16.2 19.8 9.7 3.9 11.5 24.8 28.2 16.2	8. 4 7. 5 10. 6 9. 3 6. 5 5. 7	(2) (2) (2) (2) (2) (2) (2) (2) (2) (3) (5.5 5.5 5.3 0.6	8.5 7.3	(2) 8.9 21.6 9.3 3.2 4.8 3.6 4.8 2.4	21.8 10.7 11.6 10.3 15.0 7.0 7.6 8.4	2.5 4.2 8.9 9.2 16.1 11.4 2.6	9.2 9.1 7.0 4.6 5.9 6.9 11.6 12.5 5.1 5.1 4.5	19. 7 20. 8 20. 2 20. 2 29. 7 29. 4 35. 8	9.1 4.9 7.1 10.7 9.8	10.5 15.3 15.4 11.2 11.7 21.8 21.0 18.5 18.0	8.8 18.5 6.7 11.4 9.1 7.0 9.3 4.6 3.6 1.8
1919. Year 1919.	12.3	5.8	11.2	8.2	20, 8	8.9	21.3	4.9	95.5	60.9	14.8	4.9	2.4	3.0	20.1	4.1	3.3	4.4	29.6	4.3	18.1	3.6
Jan Feb Mar Apr May June July Aug Sept Oct Nov	15.8 15.7 15.7 11.3 3.9 12.7 12.1 13.4 15.9 6.1	7. 6. 5. 3. 11. 3. 5. 5.	22. J 20. 0 8. 4 9. 2 4. 2 4. 5 12. 8 13. 8	10. 5 10. 4 10. 4	25.3 29.1 1 22.7 5 27.5 18.2 1 17.1 18.7 19.7 23.5 11.9	11.8 6.9 9.6 4.9 7.4 8.2 8.3 15.0 12.1	3 27. 3 27. 7 3 29. 7 3 31. 2 4 22. 5 2 24. 2 3 15. 2 1 12. 3 7 12. 3	9.0 9.6 7.3 4.6 2.9 3.3 5.4 4.6 1.7 1.6	68. 5 75. 2 73. 3 207. 1 85. 7 105. 3 126. 7 98. 1 68. 5	31. 5 46. 7 10. 7 53. 3 137. 5 62. 7 95. 1 54. 5 24. 8	17.5 19.4 15.6 15.9 13.2 10.3 10.0 4.7 8.7	7.3 7.9 5.8 3.4 6.7 2.4 4.6 5.7 6.4 2.9	(2) (2) (2) (2) (2) 1.7 3.5 0.5 0.8 5.3 4.0	2.8 3.4 3.1.6 3.0.6 0.8	31. 5 34. 8 21. 5 24. 8 20. 4 27. 4 17. 3 6. 8 13. 7 15. 8	7. 2 6. 1 4. 4 2. 0 1. 4 5. 7 4. 7 2. 1 1. 1	3.9 2.1 6.2 7.1 2.5 11.4 2.0 3.6 6.0 3.4	4.6 6.0 3.3 2.8 5.4 1.3 4.3 7.3 6.2	40. 4 39. 8 33. 8 30. 5 25. 8 22. 8 24. 2 23. 8 22. 4	5. 2 5. 2 2. 5 2. 3 8. 2 5. 3 3. 9 3. 2 2. 0	18. 5 19. 2 12. 2 19. 2 21. 9 17. 5 21. 0 20. 5 20. 4	8.5 6.3 10.2 5.5 1.7 0.8 4.4 1.8 0.7 0.3

¹ Computations based on weekly returns of United States deposits made to the Federal Reserve Bank of New York. ² No rediscounts or bills payable reported.

Table C.-(1) Bills payable and rediscounts 1 and (2) United States deposits—Daily averages for months and for the year expressed as percentages of the daily averages of total loans and discounts for the same periods.

[Based on items correct to nearest \$1,000.]

	Ban	kВ.	Ban	kС.	Ban	k E.	Banl	k N.	Ban	k O.	Ban	k X.	Ban	k Z.
Average for—	(1) (2)		(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)1	(2)	(1)	(2)
1917. June July August	P. ct. 5. 0 1. 2	P. ct. 3.6 0.9	P. ct. 1.8	P. ct. 3.8 2.9 4.4	P. ct. 28. 8 6. 6	P. ct. 12.8 12.8 41.0	P. ct.	P. ct. 2.5 5.7 3.7	P. ct. 5.8 0.5 0.2	P. ct. 5.1 0.9 0.8	P. ct. 4.7 1.4	P. ct. 3.0 0.7 1.0	P. ct 2.1 3.2 1.2	P. ct. 1.9 3.6 1.8
August September October November December		2.1 5.9 1.1 8.3 1.3 17.9		10. 1 19. 3 57. 0 33. 8	5, 6 84, 8 129, 5 7, 6	76.5 74.0 71.3 120.5		2.8 6.0 28.8 11.2	2.8 11.3 5.8 11.0	2.7 8.5 20.4		3.0 4.0 10.0 10.0	1. 2 1. 1 2. 4 3. 0 8. 4	1. 8 1. 4 1. 4 13. 8 8. 6

May figures not included given for few days at end of month.

The direct comparison of bills payable and and discounts is an insistent one. Why was rediscounts with loans and discounts, excluding other investments, undeniably gives startling results in some cases, as, for example, in those instances in which rediscounts in excess of 100 per cent of loans appear. If extraordinarily high percentages are found, it is obvious that the bank in question is heavily interested in other investments (although if loans are mounting at the same time, there will be a secondary cause of rediscounting activity to be reckoned with).

The question that arises in examining the ratios of bills payable and rediscounts to loans than in other securities. The question has

there such unequal resort to the privilege of buying United States securities on credit and then borrowing to meet calls for payment, especially as final payment could be effected easily when the redemption of certificates occurred or when Government funds were subsequently deposited? In short, since the operation involved expansion of investments without necessitating a corresponding increase in current funds, it is surprising that it was not done more extensively even by banks customarily putting their resources in loans rather

¹ Includes United States Certificates sold under repurchase agreements.

been frequently put to bankers, but has never been satisfactorily answered. One can see that, in the case of banks carrying a large proportion of trust or savings funds and facing the prospect of heavy withdrawals at the time of the Liberty loan campaigns, the necessities of the case would dictate extensive investments in United States securities. Similarly banks carrying large amounts of funds in securities that could be easily liquidated and accustomed to a high degree of fluctuation in loans would be freer to convert their assets into Government securities at the beginning. But subsequently, the profitableness of such operations must have appealed to all banks, whatever the character of their business.

CHANGES IN REDISCOUNTS AND BILLS PAYABLE AND IN UNITED STATES DEPOSITS.

To study the interaction between rediscounts and bills payable on the one hand and United States deposits on the other, it is necessary to consult both Tables A and B. It does not follow that a striking inverse correlation between rediscounts and United States deposits, as shown by the chain indices in Table A, reflects any very significant relationship of the absolute figures. To get some further light on this point, it is necessary to turn to Table B, giving percentages of daily averages for each month of bills payable and rediscounts and of daily averages of United States deposits to the daily average of total loans and discounts for the corresponding period. One can with the aid of Table B determine whether the shifts upward and downward are of comparable. magnitude. To illustrate: An increase of 11.9 per cent in bills payable and rediscounts in Bank Z in June, 1918, parallels a decrease of 16.3 per cent in United States deposits. (See Table A.) In May, however, bills payable and rediscounts had averaged 11.2 per cent of total loans for that month and United States deposits 11.4 per cent. (See Table B.) It is evident that although the absolute drop has been greater in the case of United States deposits, the absolute magnitudes are in measurable relation to each other. To illustrate again: Bank C in June, 1919, showed a decrease of 30.2 per cent in the daily average of bills payable and rediscounts compared with the preceding month. At the same time the daily average of United States deposits rose 60.5 per cent. (See Table A.) However, as United States deposits in May averaged only 4.9 per cent of the daily average of loans and discounts for that month against 27.5 per cent for the daily average of bills payable and rediscounts, it is patent that the absolute

increase of 60.5 per cent is small when compared with the decrease of 30.2 per cent in bills

payable. (See Table B.)

The method of averaging by months somewhat obscures at times the extent of the existing inverse correlation; but weekly averages proved to be even less satisfactory. A day-to-day plotting of the actual figures would yield the best results, as a descending line of bills payable and rediscounts may cross an ascending line of United States deposits in the middle of the month or vice versa. Indeed the upward and downward movements may extend over a period of several months. Unfortunately daily statements could not be effectively used without divulging actual returns, but it has been possible to use charts based upon daily returns as supplementary aids in interpreting the monthly averages.

When United States deposits result from credit purchases of certificates or credit on loan account there is, of course, no reason to expect that an increase in such deposits will bring about a decrease in bills payable and rediscounts. But following increases in United States deposits due to actual receipts as in months of tax payments, there is reason to expect a reduction of bills payable in the case of banks that have previously borrowed to meet calls for payment on securities purchased on credit or bonds bought similarly. It is noticeable in June, 1918, that there is a reduction in average bills payable and rediscounts in a majority of the banks and an increase in the average of United States deposits. This is even more generally true in June, 1919.4

PEAK OF REDISCOUNTS.

Notwithstanding the marked differences in the practices of the various banks both as to time and extent of rediscounting and in the relative amount of United States deposits carried, a few partial generalizations can be made. Both in 1918 and in 1919 a bare majority of the banks reach the peak of their rediscounting activities in the months of October, November, and December, when daily averages of rediscounts and bills payable for the month bear the highest percentage relation to the daily averages for the year. (See Table X.)

In 1919, however, it will be noted that the daily average for successive months of United States deposits on the whole bears a steadily diminishing relationship to the daily average of total loans and discounts, while the daily average of bills payable and rediscounts after a

⁴ Sometimes the increase in United States deposits grows out of purchases of United States certificates on credit, preceding tax payments, the subsequent redemption of certificates resulting in the reduction of bills payable following the tax-due dates.

mid-year period of contraction becomes on the whole an increasing percentage of the daily average of total loans and discounts for corresponding periods. Not only that, but there is an increasing tendency for loans and rediscounts to move upward and downward in unison, whereas Government withdrawals, even when occurring at times when rediscounts are rising, become ever less adequate to explain the magnitude of those rediscounts. It will be noted, for example, by consulting Table B, that in 1918 the daily average for the year of Chart X.)

United States deposits in the majority of cases was greater than the daily average of rediscounts, but in 1919 the situation is reversed. In short, it is evident that the increases in rediscounts are taking care of loan increases to an ever greater extent. As might be expected under such circumstances, loans not only continue to show a wide range of fluctuations in 1919, but in some banks, the upward and downward swings cover a wider range as expressed in percentages than they did in 1918. (See Chart X.)

Table X.—Daily averages for each month expressed as percentages of the daily average for the year.

BILLS PAYABLE AND REDISCOUNTS.

'IBased	on if	ems.	correct	to	nearest	81	000 T

			ino mocardi	ttoms com	oct to mean	cs: ¢1,000.					
	Bank A.	Bank B.	Bank C.	Bank D.	Bank E.	Bank M.	Bank N.	Bank O.	Bank X.	Bank Y.	Bank Z.
January February March April May June July August September October November December	129. 4 120. 3 72. 4 103. 8 129. 6 110. 3 185. 5	129. 7 100. 3 104. 3 78. 9 45. 1 94. 4 141. 2 169. 5 110. 0 110. 0 115. 8	63. 1 44. 0 53. 9 121. 5 160. 4 156. 3 78. 7 20. 2 33. 4 150. 8 224. 4 164. 2	75. 2 76. 4 118. 2 141. 8 138. 9 76. 0 88. 8 129. 1 135. 2 80. 9 59. 7 77. 2	64. 8 110. 0 136. 9 78. 8 84. 6 139. 5 168. 7 167. 1 232. 9	18. 1 16. 7 31. 4 101. 8 125. 1 67. 9 31. 0 88. 4 192. 3 240. 3 157. 1 133. 6	108. 4 502. 0 529. 6 54. 9	19. 1 116. 6 112. 7 300. 5 147. 1 59. 2 95. 0 63. 5 91. 5 49. 2 144. 6	34. 2 48. 9 82. 4 172. 7 206. 9 358. 4 244. 4 53. 9	36. 7 61. 1 78. 6 82. 3 91. 7 90. 4 86. 5 133. 8 138. 9 187. 4 212. 0	53. 7 69. 5 96. 0 101. 9 77. 1 86. 4 163. 0 150. 7 128. 0 75. 0 68. 4
			UNIT	ED STAT	ES DEP	OSITS.					
January. February. March. April. May. June. July. August. September. October. November. December.	109. 9 100. 2 114. 9 94. 3	71. 1 102. 6 86. 8 81. 6 101. 7 149. 2 156. 5 130. 3 67. 5 64. 8 94. 2 93. 4	31. 3 96. 3 125. 6 136. 0 135. 7 138. 1 94. 6 125. 0 78. 1 95. 6 77. 2 62. 6	34. 5 91. 4 109. 6 71. 3 113. 8 170. 4 146. 3 122. 6 73. 2 66. 0 89. 4 111. 3	25. 1 67. 5 102. 5 131. 3 161. 9 76. 2 118. 7 104. 1 77. 6 128. 0 162. 0 52. 6	160. 3 211. 7 144. 8 78. 8 75. 4 74. 4 120. 4 101. 2 71. 6 68. 8 52. 3 39. 7	56. 4 98. 7 108. 6 64. 1 139. 5 113. 2 114. 2 120. 8 77. 2 137. 6 126. 5 43. 2	181. 9 216. 5 74. 7 122. 7 66. 7 82. 1 84. 4 132. 6 53. 8 64. 2 75. 1 38. 5	125. 2 124. 1 94. 3 61. 1 77. 8 90. 3 150. 1 188. 4 76. 2 74. 3 69. 9 61. 8	73. 1 116. 7 117. 7 64. 3 89. 2 141. 7 131. 5 124. 1 48. 6 50. 4 176. 4 66. 6	34. 8 130. 3 118. 8 99. 3 176. 2 147. 9 116. 1 148. 5 71. 1 54. 6 29. 0 69. 9
		ві	LLS PAY	ABLE A	ND RED	ISCOUNT	rs.		*		
January. February March. April. May. June July. August September October November. December	120. 4 112. 0 127. 9 151. 6 50. 8	103. 1 184. 7 157. 1 68. 5 68. 5 84. 9 38. 3 7. 4 43. 7 117. 1 135. 2 190. 2	101. 0 119. 7 135. 6 109. 2 132. 0 92. 1 84. 7 86. 0 91. 2 108. 7 55. 4 73. 8	93. 3 113. 9 117. 5 124. 0 137. 3 123. 4 122. 7 117. 9 79. 7 63. 4 45. 3 46. 5	107. 1 61. 5 58. 7 53. 0 146. 2 96. 8 120. 3 119. 9 95. 5 107. 2 150. 3 76. 3	97. 5	75. 6 154. 6 23. 2 35. 4 231. 2 166. 0 514. 0	78. 7 135. 9 147. 4 83. 9 102. 8 94. 5 128. 3 79. 3 41. 0 \$5. 6 98. 0 121. 6	60. 2 92. 1 53. 1 149. 5 61. 2 274. 2 49. 6 91. 4 153. 0 86. 5 91. 4	130. 4 157. 3 154. 1 128. 6 113. 0 94. 6 77. 4 75. 4 72. 7 70. 9 88. 2 71. 7	78. 9 88. 8 92. 4 57. 4 95. 6 120. 6 97. 7 115. 2 115. 8 120. 7 109. 6
			UNIT	ED STAT	ES DEP	OSITS.					_
January. February March April May June July August September October November December	98. 2 81. 1 61. 8 224. 6 79. 8 63. 2 104. 2 111. 4 55. 3	74. 6 118. 6 72. 3 115. 5 50. 0 56. 7 79. 9 62. 7 117. 3 224. 6 101. 4 70. 7	87. 1 131. 8 75. 4 108. 6 54. 8 88. 2 95. 3 89. 9 163. 6 134. 9 62. 2 109. 5	134. 2 161. 2 170. 5 128. 4 85. 9 66. 5 71. 6 127. 2 103. 2 57. 1 31. 8 55. 3	72. 7 44. 6 57. 5 122. 1 59. 3 244. 5 90. 4 93. 3 145. 7 134. 4 58. 9 70. 1	106. 6 124. 7 137. 6 101. 0 60. 1 124. 0 49. 9 92. 5 122. 6 148. 1 70. 2 62. 7	123. 0 115. 5 109. 0 76. 0 73. 7 293. 4 97. 2 118. 2 56. 4 21. 9 11. 5 102. 1	119. 8 130. 3 146. 9 116. 3 88. 5 44. 1 30. 6 127. 2 136. 6 66. 3 31. 8 161. 8	120. 4 100. 3 137. 1 73. 0 64. 9 118. 4 28. 5 95. 9 168. 5 146. 5 70. 6 83. 7	187. 4 135. 6 135. 8 65. 6 57. 5 204. 0 120. 6 81. 1 72. 2 69. 4 42. 6 27. 8	128, 8 203, 6 151, 9 240, 4 135, 3 48, 0 23, 3 120, 1 49, 6 20, 3 9, 8 69, 5

CLASSIFICATION OF BANKS.

Before examining the statistics of individual banks in more detail, a tentative classification might be made for the sake of clarity. Just as the 11 banks were grouped according to the extent of the fluctuations in their total loans and discounts (as averaged for months), so they may be classified according to the magnitude of their rediscounting operations as compared with total loans. Or they may be divided with reference to the extent of the inverse correlation existing between bills payable and rediscounts, on the one hand, and United States deposits on the other. In general, banks that have borrowed heavily also give evidence of active participation in governmental financing operations, while those that have done the least borrowing show little connection between rediscounts and accessions or withdrawals of Government funds. It follows that banks doing the greatest amount of borrowing, and participating most extensively in dealings in United States securities, can usually be grouped together by all three methods of classification. But there are at least two exceptions to this generalization. Bank Z, which has relatively stable loan holdings, is among the heavy borrowers whose rediscounts are not explicable by reference to Government operations, and Bank Y, also a heavy borrower, with fluctuating loans, varies its rediscounts throughout in close correspondence with changes in its loans.

Under normal conditions one would expect a bank accustomed to varying the amount of its loans and discounts rather freely, and used to carrying investments in other securities in more than the average amounts in relation to loans, to have less need of rediscounting facilities than banks of the opposite type. Banks with their resources more fully invested in loans and discounts, and accustomed to pursue an even lending policy, might be expected to feel more quickly the pressure of extraordinary demands for loans or unusually large withdrawals. They would have smaller available secondary reserves, such as readily convertible securities, upon which they could rely and would presumably apply sooner for the assistance of a rediscounting agency. Yet there were not only great differences in the extent of the reliance upon rediscounting by the several banks, but as a result of the character of the war-time need, the banks that would normally have been expected to do the least borrowing did the most.

SPECIAL ANALYSIS.

The analysis of the operations of the several banks which follows is more confidently expressed in some cases than in others, because, as will be evident, the amount of supplementary information that can be used in interpreting the figures is fairly detailed in some cases, while in others it is highly condensed and inadequate.

BANK E.

Bank E holds a unique position among the other banks in respect to the high ratios existing between daily averages of bills payable and of United States deposits to daily averages of total loans and discounts for corresponding periods. Both in 1918 and in 1919, daily averages of United States deposits are very large, being 60 per cent of the daily average of total loans and discounts in 1918 and 60.9 per cent in 1919. The daily average of bills payable, however, which amounted to 68.5 per cent of the daily average of total loans and discounts in 1918, has risen to 95.5 per cent in 1919 (Cf. Table B). It is evident, therefore, that in the latter year, bills payable are helping to carry a greater percentage of the regular loans and discounts. In other words, they do not result so largely from Government calls for sums due on United States securities purchased on credit or from other withdrawals of government funds. As might be expected, therefore, with an expansion of rediscounting activity accompanying a reduction in the size of government operations, the fluctuations in the holdings of loans and discounts in 1919 become even more pronounced than they were in 1918. In view of the large investments in United States certificates and the heavy Government deposits on hand, it is easy to see why the effect of tax payments is more apparent and the resultant changes in condition more extreme in the case of Bank E than in any of the other 10 banks. A day to day following of the movement of bills payable and United States deposits affords striking evidence of the inverse correlation existing between these items during the period preceding and following tax dates. In June, 1918, it will be noticed that the daily average of United States deposits showed a drop from May of 52.9 per cent, while bills payable increased 24.4 per cent. Withdrawals of United States deposits began in May and continued until the end of June, concurrently with a rise in bills payable. Then an accession of Government funds brought a decrease in bills payable, the effect of which is seen in the heavy

July drop in bills payable. The daily statements show that a July increase in United States deposits is due to purchases of United States certificates paid for by credit on the books of the bank. Bills payable on the other hand, remain fairly steady during the month, although below the level of the preceding month. (Cf. Table A.)

In September and December, 1918, Government withdrawals were fourd in conjunction with increases in bills payable. In September, however, although withdrawals of United States deposits led to an increase in bills payable, the extent to which such deposits were withdrawn is not adequately reflected in the average monthly figures, because reductions were partially counterbalanced in the latter part of the month by credit created additions to deposits resulting from purchases of new certificates. (Cf. daily statements.) The December reductions in United States deposits were accompanied by a steady increase in bills payable until the middle of the month, after which date bills payable dropped somewhat. Nevertheless the amount outstanding at the end of the year still remained at a very high figure. (Daily statements.) For July to December, inclusive, the daily averages of loans and discounts are above the figures for the earlier months, while bills payable in October, November, and December amount to 111.1 per cent, 106.2 per cent, and 149.1 per cent of total loads and discounts, considerably above the ratio of United States deposits to total loans, which amounted to 72.9 per cent, 92.4 per cent, and 30.2 per cent, respectively. Table B.)

In 1919 again a pronounced drop in the daily average of United States deposits in May was due to steady Government withdrawals throughout the month, resulting in mounting bills payable, the maximum figure being reached at the end of the month when United States deposits were at their lowest point. (Cf. Table A.) In June the increase in United States deposits occurs at the beginning of the month when bills payable are being maintained at a high level. The increase is evidently the result of credit purchases of United States certificates. Following tax payments there is no increase in United States deposits, but bills payable fall with a reduction in certificate holdings due to redemptions. In September again, a heavy increase in United States deposits dates from the middle of the month with a coincident sharp drop in bills payable. October and November withdrawals of Government funds mark a steady advance of bills payable with a downward plunge at the

held were redeemed. The level of bills payable remains nevertheless high in December, averaging 63.7 per cent of the daily average of total loans and discounts, and it is evident that notwithstanding the close interaction throughout between bills payable and United States deposits, the former in receding fail to revert to the previous low levels, whereas United States deposits show diminishing averages. (Cf. Table B.) Loans and discounts, however, advance and in the concluding three months of 1919 average 150.4 per cent, 144.5 per cent, and 115 per cent, respectively, of the daily average for the year. (Cf. Chart Y.)

BANK M.

Bank M is another bank which carried heavy investments in United States securities in 1918 and 1919. In 1918 there is evidence of a certain amount of inverse correlation between bills payable and rediscounts on the one hand and United States deposits on the other. The heavy reductions in United States deposits in April, for example, are found in conjunction with a sharp rise in bills payable and rediscounts. But otherwise the average amounts of withdrawals are insignificant in comparison with the average increases in bills payable and rediscounts. (Cf. Table A.) After the June decreases in bills payable and rediscounts, resulting from redemption of United States certificates, a low level of rediscounts was maintained through July. Then there followed a period of increased borrowing. The daily average of bills payable and rediscounts rose from 3.9 per cent of the daily average of total loans and discounts in July to 24.8 per cent and 28.2 per cent of the daily average of total loans and discounts in September and October respectively, falling to 16.2 per cent in November and 14.4 per cent in December. (Cf. Table B.) Meanwhile loans and discounts were approaching the peak points for the year, the November average being 130.5 per cent of the yearly average, while the December average dropped slightly to 124.9 per cent (statistics not tabulated). United States securities directly held had, on the contrary, been reduced to a minimum in November and December, so that the loan increases were no doubt partly accounted for by additions to borrowers' loans collateraled by United States securities, following installment payments on the fourth Liberty loan.

month with a coincident sharp drop in bills payable. October and November withdrawals of Government funds mark a steady advance of bills payable with a downward plunge at the beginning of December when certificate issues

redemption kept borrowing in check. In fact, until October the daily average of bills payable and rediscounts for successive months falls steadily except for a March rise and a negligible increase in May. Thereafter, the expansion that occurred appears to have virtually nothing to do with Government operations. The rising amounts of bills payable and rediscounts, however, become an ever increasing proportion of total loans and discounts, jumping from 8.7 per cent of average loans in October to 24 per cent in November and 24.9 per cent in December. (Cf. Table B.) At the same time loans and discounts rise above total their daily average for the year to 114.1 per cent in October, 115.8 per cent in November, and 114.6 per cent in December. (Statistics not tabulated.) No doubt the tieing up of loans resulting from labor troubles and transportation difficulties which were responsible for a very general increase in borrowing operations at the end of the year affords at least a partial explanation of the rise which occurred n the case of Bank M.

BANK A.

Bank A has rediscounted much less heavily than either Bank E or Bank M in proportion to its outstanding loans and discounts. In fact, during the early months of 1918 there are no bills payable or rediscounts recorded, excepting small amount in January. (Cf. B.) The direct holdings of United States securities are, however, heavier than for the later months of the year. In March there is an increase in the average amounts of United States securities directly held, while there is a drop in the average holdings of loans and discounts of about the same magnitude. A resort to borrowing in May accompanies an increase in loans, United States securities showing a commensurate decline. (For holdings of United States securities see weekly returns to Federal Reserve Bank of New York.) Installment payments on the third Liberty loan were due in this month and probably explain the loan increases with accompanying borrowing.

In the course of the year bills payable and rediscounts become a fairly steadily increasing percentage of loans and discounts, which in their turn reach their maximum in November and December, when the daily averages for the month are 113.6 per cent and 113.3 per cent, respectively, of the daily average for the year. (Statistics not tabulated.) As payments on the fourth Liberty loan were being made in these months and as United States securities directly held were below the level of earlier months to months, it looks as if responsibility for pay-

ments on United States bond issues had been shifted to customers in the form of collateral loans, installment payments being met for them by the bank, however, through a further resort to bills payable or rediscounts.

In 1919 Bank A displays marked unevenness in loans and discounts with a pronounced swell for the period from June to October. It will be noticed that bills payable and rediscounts maintain a high and fairly stable percentual relation to the daily average of loans and discounts for all months up to November, with the exception of June. (Cf. Table B.) The sustained high level of loans goes along with a dimi-nution in amount of United States securities held, reductions coming at times when redemptions of United States certificates occur. (Cf. weekly returns made to Federal Reserve Bank of New York.) It is evident that these redemptions have not been made an occasion for contraction, as Lills payable are not reduced in consequence. On the contrary, they are maintained at a high figure until November, when a sharp drop is brought about, coincident with loan contraction, loans falling in September from 116.5 per cent of the daily average for the year to 101.4 per cent in November. (Statistics not tabulated.) The reduction which took place in June in bills payable and rediscounts was traceable to certificate redemptions, United States deposits being high throughout the month with no evidence of additions or withdrawals. The December increase in Government deposits which came in the middle of the month coincided with a redemption of United States certificates and reduced holdings. Nevertheless borrowing increased toward the end of the month, although loans dropped slightly. Table A.)

BANK C.

Bank C is a bank having heavy direct investments in United States securities in 1918 (cf. daily statements) and highly variable amounts of bills payable and rediscounts outstanding. Its holdings of United States certificates are steadily increasing during the early months, reaching a maximum in May and June when United States deposits, evidently credit-created, are also at a high point. The high daily averages of bills payable and rediscounts for April, May, and June are explicable on the score of Government calls to pay for certificates purchased. (Cf. daily statements.) Loans and discounts remain below the daily average for January until June. With redemptions in United States certificates at the end of June, bills payable and rediscounts disappear entirely for a time. Throughout the summer months they remain at a low figure. (Cf.

In the fall again there are large additions to holdings of United States certificates. Diminishing United States deposits and increases in loans which are at maximum in November and December, bring increases in bills payable and rediscounts, which in November and December are absolutely higher than they were in the preceding May and June. The loan increases follow reductions in United States certificates and represent loans to customers against United States securities in the months when installment payments on the fourth Liberty loan were due. (Cf. daily statements giving loans classified in detail.)

In 1919 Bank C shows a steady reduction in loans against United States securities and after July the daily average of total loans and discounts is constantly below the average for the year until December. (Cf. Chart X showing Ioan contraction early in the year.) The ratio of bills payable and rediscounts to total loans and discounts, although high throughout the year, is lower for the last half year, October excepted. (Cf. Table B.) The reduction in bills payable and rediscounts has coincided very largely with the redemption of United States certificates. In the months when United States deposits have been withdrawn the daily averages of bills payable have, as a rule, increased, as in March, May, and October. Toward the end of March there is a reduction in bills payable and rediscounts following a reduction in certificate holdings. The December increase in the daily average of bills payable and rediscounts appears to be related to loans as they increase together for a while. During the month, however, a drop in bills payable is found in conjunction with a reduction in loans against United States securities.

BANK B.

In the case of Bank B the daily averages of bills payable and rediscounts are moderately low in relation to the daily averages of total loans and discounts during 1918. Rediscounts of loans to customers against United States securities explain some part of the fluctuations in amounts of bills payable and rediscounts. (Cf. daily statements giving loans classified in detail.) Although few United States securities were carried directly, large loans were made against them as collateral and very heavy increases in loans occurred at the end of 1918, when the daily averages for November and December amounted to 125 per cent and 117.1 per cent, respectively, of the daily average for the year. (Cf. Chart Y.)

In 1919 the daily average of bills payable and rediscounts reaches a maximum in Decem-

of the daily average of total loans and discounts for the month. February is not far behind December in the actual daily average of rediscounts, while the ratio of the daily average to the daily average of total loans and discounts is even greater, 22.1 per cent. (Cf. Table B.) In February an increase in rediscounts of loans to customers against United States securities occurred, following last installment payments on the fourth Liberty loan. Eventually these rediscounts disappear, but at the end of the year, following Victory loan financing, they are a large item. Again a pronounced end of the year increase in loans comes with the increase in bills payable. As in other cases, the unsatisfactory industrial conditions prevailing at this time help to explain the increase. Reductions in United States deposits in November and December would also accentuate the need for borrowing. (Cf. Table A.)

BANK O.

As compared with the other banks, Bank O has maintained a moderately low percentage of bills payable and rediscounts to total loans in 1918, excepting the month of May, when a decided increase follows upon Government withdrawals of deposits. Its loan fluctuations are rendered more extreme, however, by the fact that with the reduction of security holdings, following redemptions of United States certificates, increases in its reserves appear to have been made the occasion of expanding loans. (Cf. daily statements.)

In 1919 the position of the bank has altered in that bills payable and rediscounts have become increasingly heavy in relation to total loans and discounts, while United States deposits are on the average but a small percentage of the average bills payable and rediscounts. There is no evidence of any significant connection between reductions in the former and increases in the latter, given the disproportion in the absolute sums involved. With reductions in amounts of United States securities held, there did not follow commensurate reductions in bills payable and rediscounts, which were sustained at a high level until August, when there was a drop. A subsequent increase resulted in the attainment of a high ratio of the daily average of bills payable and rediscounts to the daily average of total loans and discounts in the fall months. (Cf. Table B.)

BANK N.

Bank N is one of the banks having relatively stable holdings of loans and discounts ber, when the average amounts to 19.7 per cent | which has borrowed in restricted amounts. It did not resort to borrowing operations until the fall of 1918, beginning in September. There are slight increases in November in the daily average of bills payable coinciding with a drop in the daily average of United States deposits. Both items are small, however, but the withdrawals are much larger than the increase in bills payable. Moreover, United States deposits drop sharply from a high figure at the beginning of the month, whereas bills payable are relatively steady throughout. The December decrease in loans was accompanied by a disappearance of bills payable, loans against United States securities remain-

ing about the same.

As the investments of this bank are chiefly in loans (as compared with other banks, direct investments in securities being much below the average), and as this was also true for the war period, it follows that United States deposits were relatively small, and Government withdrawals had little to do with the creation of bills payable and rediscounts. Hence the course of loans and discounts needs to be examined. As loans were fairly stable during the early part of 1918, it is easy to see why the bank was the last one to resort to borrowing. And, when it did begin in the fall, there is a rise in loans, traceable probably to Liberty loan operations, as it was accompanied by an increase in loans to customers against United States securities. (Cf. daily statements.) Although there is some measure of inverse correlation between bills payable and rediscounts and United States deposits in July, September, and October, 1919, it will be evident upon examination of the percentage relationships of these items to total loans and discounts in the preceding months, that there is little relationship between the absolute figures. (Cf. Tables A and B.) In September, furthermore, a low percentage of bills payable indicates disappearance of the item on all but four days of the month. A day to day following of these items fails to reveal any connection between Government demands and the rediscounting activities of the bank. The sharp increase in rediscounts in December undoubtedly was the outcome of business and industrial exigencies, and accompanies an increase in loans. Bills payable are consistently high during December and at the end of the month they are at the peak. Loans to customers against Liberty bonds have fallen, however, to insignificant sums. United States bonds on hand or pledged have become negli-

daily statements.) In the course of the year loans have become a percentually larger proportion of total investments, although there has been a liquidation of war paper, of which the holdings were at no time heavy.

BANK X.

Bank X may be classed with Bank N, in that it has maintained relatively stable holdings of loans and discounts while its bills payable and rediscounts as compared with total loans and discounts have averaged less both in 1918 and in 1919 than those of any other bank except Bank N. In the early part of 1918 it has no bills payable or rediscounts to record, and during the year the only significant connection between bills payable and redis-counts on the one hand and withdrawals of United States deposits on the other is found in September, when the average reduction in the latter is close to the increase in the former. The percentage reduction in the daily average of United States deposits as compared with August is 59.9 per cent, while the increase in the daily average of bills payable and rediscounts is 73.7 per cent. (Cf. Table A.) In August, however, the daily average of bills payable and rediscounts had only amounted to 9.2 per cent of the daily average of total loans and discounts for that month, while United States deposits had constituted 12.5 per cent thereof. (Cf. Table B.) Even in this case the day-to-day changes do not show any measure of inverse correlation between decreases in United States deposits and increases in rediscounts. There was an early August rise in bills payable and rediscounts, a late August drop in United States deposits, and fairly steady items for both in September. In 1919, in months in which the daily average of United States deposits is reduced, the daily average of bills payable and rediscounts does increase, to be sure, but amounts involved are small and a day-to-day following of items shows that the correspondence is not very significant.

sharp increase in rediscounts in December undoubtedly was the outcome of business and industrial exigencies, and accompanies an increase in loans. Bills payable are consistently high during December and at the end of the month they are at the peak. Loans to customers against Liberty bonds have fallen, however, to insignificant sums. United States bonds on hand or pledged have become negligible. Bills payable are largely secured by bills discounted and time loans in place of certificates and United States bonds. (Cf.

the third and fourth Liberty loans were being received, unexpected withdrawals occasioned some part of the resort to borrowing. Thereafter a reduction in loans in October and November is accompanied by a marked drop in bills payable and rediscounts, followed by a complete disappearance of these items in December. In 1919, after July, the daily average of bills payable and rediscounts constitutes only a small percentage of the daily average of total loans and discounts (October excepted) (cf. Table B) although the daily average of loans and discounts is at a maximum in October and December. (Statistics not tabulated.)

BANK Z.

Bank Z would also be classified with Bank N and Bank X in so far as relative stability of loans and discounts controls the grouping. But it happens that it has throughout borrowed heavily, while the ratio of the daily average of bills payable and rediscounts to the daily average of total loans and discounts is higher in 1919 than in 1918. Its holdings of United States securities, including certificates of in-debtedness, are large, but bills payable and rediscounts do not contract as might be anticipated, at times when redemptions of United States certificates occur. (Cf. daily statements.) For the early months of 1918 withdrawals of United States deposits as shown by reductions in the daily averages are paralleled by increases in the daily average of bills payable and rediscounts and in May and June, 1919, this is also true. (Cf. Table A.) On the whole, however, day-to-day following of changes would indicate slight relation between the course of United States deposits and rediscounting operations and a much more intimate connection with changes in loans and discounts. As a matter of fact, daily averages of United States deposits are insignificant when compared with the daily averages of bills payable and rediscounts in 1919, becoming steadily smaller as the year progresses. Although amounts carried are larger in 1918, the disproportion is also great in the latter months of that year.

Since the heavy borrowing has not exaggerated the fluctuations in loans and discounts, which remain relatively steady in this case, and since there is a lack of evidence that United States securities have been shifted to any great extent to customers' loans, the data at hand would indicate that borrowing has been resorted to in order to carry a con-

balances, it is entirely probable that withdrawals have induced resort to rediscounting. It is significant that the rate of increase of the loans and discounts of this bank has been much less than that of other banks, the average for 1919 even falling below that for 1917. (Cf. Chart X.)

BANK Y.

In Bank Y bills payable and rediscounts follow the course of loans and discounts more consistently than in any other case, Government security holdings having practically no effect upon the amounts of bills payable and rediscounts outstanding. In April, September, and December, 1918, to be sure, a reduction in the daily average of United States deposits is shown with an increase in the daily average of bills payable and rediscounts. (Cf. Table A.) But the bills payable and rediscounts are much larger absolute amounts than are explicable on the basis of requirements induced by Government calls, especially since United States security holdings are at no time excessive. Loans show a steady increase during the year, however, but the rate of increase of bills payable and rediscounts is even more rapid, the daily average amounting to 41.2 per cent of the daily average of total loans and discounts in December, 1918. (Cf. Table B.)

In 1919 the process is reversed. Loans and discounts are steadily reduced, with a minor increase in the daily average for October Daily averages of bills payable and rediscounts fall with them (cf. Table A) although they are still large at the end of the year, being 24.4 per cent of the daily average of total loans and discounts in December. (Cf. Table B.) United States securities held have also been steadily reduced during the year. (Cf. weekly returns to Federal Reserve Bank of New York.) In short, there is evidence of a sustained policy of contraction, following a very unusual expansion of loans, made possible by means of rediscounting.

BANK D.

Bank D is a bank with a high proportion of bills payable and rediscounts to total loans in both years. In both years, too, the daily averages of United States deposits for all months is much below the daily averages of bills payable and rediscounts. The reductions in June, 1918, in bills payable and rediscounts are probably due to redemptions in United States certificates held. The October drop is siderable part of ordinary loans. As the bank also coincident with reductions in United is one holding large numbers of bankers' States securities owned, indicating redemptions of outstanding certificates. (Cf. weekly reports to Federal Reserve Bank of New York.) In the months when bills payable and rediscounts were high, withdrawals of United States deposits occurred which may have resulted in slightly increasing the amounts of bills payable and rediscounts outstanding.

In 1919, following the attainment of maximum loan holdings in June, which coincided with increases in loans against United States securities, and resulted in the maintenance of a high proportion of bills payable and rediscounts to total loans and discounts, there was a gradual reduction of loans and a drop in bills payable and rediscounts facilitated by successive redemptions of certificate issues which reduced bills payable to a minimum in December. (Cf. Table A.) The result of this policy was that, with two exceptions, the ratio of the daily average of bills payable and rediscounts to the daily average of total loans and discounts was lower in December than for the other banks, although the January ratio had been exceeded in only two cases. Table B.)

Incomplete data for 1917 bear out the statements based upon conditions in 1918 and 1919, as regards the characteristic rediscounting activities of the several banks. (Cf. Table C.) The influence of Government demands, however, is probably more patent, less complicated by a multiplicity of factors, than in the two later years. The effect of the payments on the first Liberty loan is apparent in the resort to rediscounts and bills payable which in all cases but one begins at the end of May. By August, certificate redemptions have led to a great reduction or disappearance of bills payable and rediscounts. Again at the end of the year, the second Liberty loan payments induce fresh resort to rediscounting.

VARIATION OF INVESTMENTS.

From the start differences in policy are manifest in the widely varying ratios of investments in United States securities to loans and dis-When these ratios are high, credit purchases have been the rule and subsequent withdrawals have led to the creation of heavy amounts of bills payable and rediscounts. Bank E from the start has large United States deposits, increasing as purchases of United States certificates pile up. Withdrawals are met by the creation of bills payable, with a drop at times of certificate redemptions. October and November show a sustained high level of rediscounting, with Liberty loan installments again being called for. Bank N, on the light on the reasons for and the legitimacy of

States securities without resort to rediscounting, and Bank X has confined its rediscounting to June and the early part of July. Bank C has invested heavily in certificates bought on credit as evidenced by the size of United States deposits and heavy rediscounts at times of call. Bank B, which is carrying very large United States deposits in the last two months of the year, has done only a moderate amount of rediscounting. Bank Z begins with a small but steadily increasing amount of rediscounts, which have become considerable by November. Bank O pursues an uneven policy, with pronounced variations in the daily averages of bills payable and rediscounts from month

The great rise in loans in November and December, especially in the case of Banks B, C, and E, all of which had evidently invested largely in United States securities as shown by the size of United States deposits, no doubt evidences an increase in loans to customers against United States securities following installment payments on the second Liberty Ioan.

In conclusion it may be said that the limited statistical survey which has been attempted emphasizes the need of further analysis of the causes underlying fluctuations in the loans and discounts of individual banks. During the period covered, many extraordinary influences were at work which produced extraordinary changes in the condition of all banks, individually and collectively. But these influences operated with very unequal degrees of intensity upon the several institutions studied. It would be interesting to pursue the inquiry over a longer period of time, for years when the fiscal needs of the Government have fallen into the background and conditions have become more normal. It would be instructive to see to what extent differences in lending policy, in the degree and the direction of changes in loans and discounts, tend to persist.

Such a study of the fluctuations in the loans and discounts of individual banks, in attempting to explain the reasons for individual variations, would consider the seasonal or nonseasonal nature of the businesses financed, try to determine whether the several bank managements had adopted a conscious policy in regard to the permissible degree of loan expansion and contraction, and finally take account of any fortuitous occurrences that may have been operative to produce changes.

REQUESTS FOR REDISCOUNTS.

Such an investigation would also help to throw contrary, has financed its purchases of United requests for rediscounts. It is clear that the proximate reasons assigned for making such requests do not necessarily constitute a fundamental explanation of them. During the period studied, for example, rediscounts were often the immediate result of Government withdrawals. But loans may have been previously increasing and cash holdings consequently reduced, even with Government calls in prospect. Or deposits belonging to banks and to individuals may have been drawn down to an unexpected extent, necessitating rediscounts despite a conservative loan policy which would ordinarily have obviated the necessity of an application for rediscounts.

The exclusive study of combined statements of condition is apt to give a too-emphatic impression of unanimity of policy in the expansion or contraction of loans on the part of the banks belonging to any system. As a matter of fact loan contraction in one or several instances may Or, a be offset by expansion in other cases. more likely situation, a pronounced change in the loan holdings of one bank may exert an undue influence upon the combined results. Again, difficulties arise in interpreting the rise and fall in rediscounts when totals are given for a group of banks. One bank may have been forced to rediscount for example, because of depleted reserves, due to a policy of loan expansion; another may have had to cover withdrawals of deposits, without having previously enlarged its loans, etc. But unless the combined statements bring such changes into relief, the real causes of an increase in rediscounts may either remain unknown or else be misstated.

The Investment Trust as a Channel for Investment Abroad.¹

FRANCE.

Probably the foremost financial company in France to-day that at one time carried on exclusively an investment trust business is the Crédit Mobilier Français. This institution has since its foundation undergone several changes. After its reorganization in 1871, when the capital was increased to 80,000,000 francs, it operated exclusively as an investment trust. The capital was reduced, however, in 1878, to 40,000-000 francs, and again in 1883 to 30,000,000 francs. In 1902 the Office des Rentiers became associated with the Crédit Mobilier, and the new combination worked with a capital of 7,525,000 francs. During the years subsequent to 1910 great success accompanied the transactions of the Crédit Mobilier. Several loans to

foreign Governments were floated by it, and the reorganization of foreign industrial corporations and banks was undertaken with advantage. The institution increased gradually its capital to 80,000,000 francs, and is to-day principally engaged, apart from the financing of undertakings, in the flotation of loans.

Interest in American securities in France led to the creation of the Société Financière Franco-Américaine, which was founded in 1905 in Paris with a capital of 50,000,000 francs. The company has been in liquidation since June, 1916. Concerning the organization and purposes of this company a few details would not seem to be out of place.

The company was founded in accordance with the laws of July 24, 1867, August 1, 1893, July 9, 1902, and November 16, 1903, for the purpose of engaging, on its own account, in partnership with other persons, or for the account of third parties, in operations covering personal property, and especially American securities. The company's functions included buying, subscribing, issuing, selling, and negotiating all public securities and personal property, French or foreign, especially American, whether transferable or not, wholly paid up or only in part; it was to receive on deposit such securities, performing all operations and services as might be required in respect to same; carrying out all commercial and financial operations previously indicated, and in general all operations required of a banking institution; affiliating with, by contributions, participations, loans, opening of credits, subscriptions, purchase of stocks or bonds, etc., any institution already established or to be created with an object similar to its own. The company was authorized to purchase or construct all buildings necessary for its installation.

The head office was fixed at Paris, with another office at New York as the seat of the New York committee. Branches and agencies could be established wherever considered necessary. The duration of the company was fixed at 50 years from the date of its definite establishment unless previously dissolved or extended.

The capital consists of 50,000,000 francs, divided into 10,000 shares each of 5,000 francs. Each share has an equal claim on the assets of the company and to dividends distributed. The capital could be increased or decreased on the recommendation of the board of directors with the sanction of the stockholders.

The company was authorized to contract loans by the issue of bonds, or by other methods. The board of directors, without the ratification of the general meeting of the bondholders. was authorized to fix the amount of such loans, as well as the terms, method of issuing, and repayment thereof. The limit of such loans was fixed at twice the amount of the nominal capital of the company.

The company was administered by a board of directors composed of from 7 to 12 members, selected from the stockholders. These members were appointed and removable at a stockholders' meeting. Each director was obliged to own at least 10 shares of stock. The first board of directors was appointed for six years by the general constituent assembly. At the end of the first six years the whole board was to be renewed in its entirety. Subsequently the membership of the board was to be renewed so that the tenure of office of a director would not exceed six years. A president and vice president were elected by the board. The board was to hold meetings at least once a month. Certain decisions of the board had to be voted by a majority of three-quarters of the board. The board was given full powers without reservations to act in the name of the company and to carry out all necessary operations.

¹ Continuation of article published in the November (1920) FEDERAL RESERVE BULLETIN, pages 1168-1173.

The directors residing in the United States, the "New York committee," represented the company in America. The relations between the board of directors and the New York committee, as well as the powers which were delegated to the directors who formed this committee, were determined by the board of directors. No operations in American securities could be made without the consent of the majority of the members of the New York committee. The board of directors could delegate all or part of its powers to expedite its business to one or several directors or attorneys taken from outside the board. The board determined and governed the functions of the directors and attorneys. It was to fix the salary to be given to the directors and attorneys, as well as all traveling expenses. The board was empowered to confer powers on whoever it might desire by special order and for a specific object.

board was empowered to confer powers on whoever it might desire by special order and for a specific object.

A general meeting of stockholders was to be held in the semester following the closing of the annual budget. All stockholders owning one or more shares could participate. At least one-fourth of the capital subscribed had to be represented at this meeting. The general meeting was to be presided over by the chairman of the board of directors, or, if he was unable to do so, by a director designated by the

board of directors.

INVESTMENTS IN AMERICAN SECURITIES.

The primary object of the company was, as pointed out above, to invest in American securities and to profit by the difference in the rates of interest paid in the United States and in France. Prior to the decision to liquidate, the company had not been as successful as originally anticipated. When the stock of the company was floated, the high prices prevailing in the American markets did not offer opportunities for investment on favorable terms, and it was decided that the company would await a period of depression in the United States which would allow the purchase of securities at depreciated prices and thus permit of a higher rate of interest being obtained on the investments. When, however, such a period of depression occurred, the French market, in its turn, showed similar tendencies, with the result that the margin between the rates of interest in France and America was not large enough to warrant the purchase of securities in the latter country. The company was consequently obliged to abandon one of the most important items in its program, and its operations were greatly restricted for a considerable period.

Soon after the outbreak of war in August, 1914, the situation became even more acute, as the rates of interest in France continued to advance and eventually became higher than in the United States, thus eliminating the principal object for which the company was formed. It was, therefore, decided at a stockholders' meeting on June 29, 1916, to wind up the busi-

ness of the company.

A few other companies having the character of investment trusts may be mentioned. The Banque des Fonds Publics et des Valeurs Industrielles was founded in Paris in 1877, with a capital of 3,000,000 francs, but has been General Motor Cab Co.; Great Cobar (Ltd.); Simmer Deep (Ltd.); Nelson Steam Navigation Co.; Africander Proprietary Gold Mines; Anglo-French Navigation Coal Estates; Anglo-French Matabele Land Co.; Van Ryn Deep (Ltd.); Van

in liquidation since 1909. An investment trust for railway securities is the Société Générale des Chemins de Fer Economiques, which was founded in 1880 through the cooperation of practically all the great banks of Paris. It has a capital of about 25,000,000 francs invested in French, Belgian, and Italian railways. Another investment trust for railway obligations is the Compagnie des Chemins de Fer Departementaux, which was founded in 1881 and has a capital of 30,000,000 francs. Probably the largest institution of this kind to day is the Société Parisienne pour l'Industrie des Chemins de Fer et des Tramways Electriques, with a capital of 50,000,000 francs. The extent of its interests may be gathered from the investments in the following railways: Société d'Electricite de Paris, Atéliers et Constructions Electriques du Nord et de l'Est, Société d'Electricite du Hainaut, Métropolitain de Paris, Chemins de Fer Economiques du Nord, Compagnie Belge de Chemins de Fer Réunis, Tramways d'Astrachan, Tramways de Taschkent, Cairo Electric Railway and others. Other companies holding railway securities are: Omnium Lyonnais de Chemins de Fer et de Tramways, founded in Lyons in 1896, originally with a capital of 20,000,000 francs, reduced in 1898 to 10,000,000 francs, and controlling numerous street railways and subways; and the Société Française de Tramways Electriques et Chemins de Fer, with a capital of 3,000,000 francs, invested in Hungarian, Russian and other street railways.

COAL MINING INVESTMENTS.

There have been a number of French investment trusts investing in stocks of coal mines. Most of them had, however, only a rather brief existence, as, for example, the Société Générale de Crédit Minier et Industriel, with a capital of 3,000,000 francs; Société Française pour l'Industrie et les Mines; Société Omnium Française de Valeurs Minières et Industrielles, with a capital of 3,000,000 francs. An investment trust which, like most of the other companies, is also a financial company, invests in gold mines, is the Anglo-French Exploration Co. This company was founded by English, French, and German capital. Its capital, amounting to about 1,000,000 pounds, is invested in the following bonds and stocks: British Government bonds; East India Railway debentures; London County; National Railways of Mexico; Central Argentine Railway; Camp Bird (Ltd.); General Motor Cab Co.; Great Cobar (Ltd.); Simmer Deep (Ltd.); Nelson Steam Navigation Co.; Africander Proprietary Gold Mines; Anglo-French Navigation Coal Estates; Anglo-French

Boksburg Gold Mines; Rand Klip (Ltd.); Cordoba Copper Co.; City Deep (Ltd.); Kleinfontein Estates and Township; Anglo-French Land Co. of the Transvaal; Apex Mines; Brakpan Mines; Colcoath Mine (Ltd.); Crown Mines, Great Cobar (Ltd.); Great Fitzroy Mines; Mount Elliott (Ltd.); Mount Lyell Mining & Railway Co.; Randfontein Deep; Vorspoed Diamond Mining Co.; Alaska Mexico Gold Mining Co.; and others.

BELGIUM.

It may not be incorrect to say that the first investment trust ever created, long before such institutions were formed in Scotland, was the Société Générale de Belgique, which was founded in Brussels in August, 1822. The business of investment trusts is carried on nowadays by a great number of banks, which are, however, at the same time financing or promoting companies. Practically all such banks are interested to a greater or less degree in industrial and transportation undertakings.

The promotion of street railway undertakings in all parts of the world is made a speciality of the Belgian banks, and a large amount of capital is invested in such transportation One of the older banks of this systems. character is Crédit Général Liégeois, founded in 1865. It was changed in 1885 from a partnership to a corporation. Its capital is 30,000,000 francs, and it holds stock in a large number of industrial enterprises and railway companies, including the Entreprise Générale de Travaux, which controls the Société Générale de Tramways et d'Applications d'Electricité; the latter possesses electrical plants in Russia, and is interested in the Société Nationale des Chemins de Fer et Tramways en Italie. Another investment trust and financial company is the Banque Liégeoise, founded in 1835. It has an authorized capital of 30,000,-000 francs, and is interested in numerous tramway companies in Italy, Spain, Greece, and Russia, and electrical enterprises. A similar position is held by the Crédit Anversois, being a subsidiary of the Crédit Général Liégeois and founded in 1898 with a capital of 12,000,000 francs. The present capital is 35,000,000 francs.

The largest institution, exclusively an investment trust and neither conducting a banking nor a financing business, is the Banque Belge de Chemins de Fer, founded in 1894 in Brussels by an international banking consortium, consisting of the Banque de Paris et des Pays-Bas, the Wiener Bankverein, Schweizerische Kreditanstalt, Société Générale des Chemins de Fer Economiques, Deutsche Bank, Dresdner Bank and other banks. It was created by the consortium purely for the purpose of pur- Union Financière de Genève, a banking and

chasing and selling and subscribing to stocks and securities of railroads and street railways. It has a capital of 25,000,000 francs and holds a large amount of securities of American and other foreign railways.

STREET RAILWAY INVESTMENTS.

Belgium, to a degree unsurpassed by any other country, has invested in street railways in all parts of the world, and has created for that purpose a number of investment trusts. A few of these trust companies may be mentioned: Compagnie Générale de Railways et d'Electricité, Brussels, 1904, capital 35,000,000 francs; Fédération Française et Belge de Tramways, Brussels, 1898, capital 7,500,000 francs; Compagnie Générale Auxiliaire d'Enterprises Electriques, Brussels, 1909, capital 10,000,000 francs; Trust Franco-Belge de Tramways et d'Electricité, Brussels, 1898, in liquidation.

A company that is interested in securities of public utilities in the Argentine, Spain, Hungary, Italy, Rumania, Denmark, Belgium, Russia, and South America is the Société Financière des Transports et d'Entreprises Industrielles, of Brussels. It was established in 1898 by an international syndicate of bankers, and has paid average dividends, from 1904 to 1911, on a capital of 20,000,000 francs of about 8

per cent per annum.

For purposes of investment in American railway securities, there was founded in 1911 an international investment trust in Brussels, the Société Financière de Valeurs Américaines. Among the founders were the Deutsche Bank; Warburg & Co., of Hamburg; the Société Générale of Brussels; Banque de Bruxelles; Banque de Paris et des Pays-Bas; Société Générale pour Favoriser, etc., in Paris; Société Française de Banque et de Dépots; Banque Française pour le Commerce et l'Industrie; Kuhn, Loeb & Co., New York, and others. authorized capital amounted to 30,000,000 francs, of which 20 per cent was paid in.

SWITZERLAND.

A considerable number of institutions in the nature of investment trusts is found in Switzerland. The city of Geneva seems to be the home of most of the older companies. The Banque de Fonds was founded in 1885 and the Société Financière Franco-Suisse in 1892. The two companies acquired a large part of Turkish and Serbian loans and issued their own debenture bonds. The Banque de Fonds has been liquidated. The Société Financière Franco-Suisse has become affiliated with the

financial company, but has preserved the character of an investment trust. Its purpose was, originally, to acquire only Government bonds and securities guaranteed by Governments. In 1895 the company started, however, to make investments in municipal and railway bonds. But investments in railway securities may not exceed 25 per cent of the entire investments. Its present capital consists of \$800,000 in common shares. Outstanding, \$5,500,000 in 4 per cent bonds. The company owns an assortment of city and railroad bonds of Japan, Russia, Turkey, the Balkans, and North, Central, and South American countries. Average dividends paid on common shares from 1907 to 1917, about 12 per cent per annum. It may be well to quote articles 2, 3, and 4 of the company's statutes:

ARTICLE 2. The society has as its principal object the acquisition and realization (1) of funds guaranteed by States, cities or communities; (2) obligations issued by railroads enjoying an annual kilometric guaranty given by the State; (3) obligations of societies of landed credits, or of railroads holding legally constituted guaranties. At all times in this latter class the proportion can not be represented by more than one quarter of the placements of the

The society may carry on the usual operations, commercial or financial, which are the object of the normal activity of banking establishments, in so far as these operations are not in contradiction with the present statutes. The society may equally receive on deposit securities, either of public bodies or of private enterprises, and deliver certificates in multiplies or fractional parts, and make all the necessary operations which the possession of these securities may require for the purpose of safeguarding them.

ART. 3. The administration of the society will be at Geneva. Agencies in other cities can be created by decision of the council of administration. These agencies may be placed in banking establishments already existing. ART. 4. The duration of the society is unlimited. It

ART. 4. The duration of the society is unlimited. It may at all times be liquidated by the general assembly of stockholders.

GENEVA COMBINATION.

In order to take advantage of a favorable opportunity for speculating in American stocks, several banking houses of Geneva founded in 1896, in cooperation with the banking firm of Iselin & Co., of New York, the Société Financière Suisse Américaine, with a capital of 2,500,000 francs. The great success attained by this company is indicated by the dividends distributed during the years immediately following: 1897, 12 per cent; 1898, 20 per cent. In 1898 the company was liquidated after a payment of a dividend of 100 per cent and the redemption of its obligations. When in 1907 another occasion presented itself for advantageous buying of American stocks, the company was revived. Its capital was then 5,000,000 francs, which was increased to 8,250,000 francs in 1909.

One of the Swiss organizations, the Société lic intent on speculation. There was founded Financière pour Entreprises Electriques aux in September, 1906, the Trustgesellschaft für

Etats-Unis, Geneva, is especially interested in electrical enterprises in the United States, and its council of administration is not exclusively limited to Swiss citizens, but also includes three persons in the United States. The investments are more of the public utility type than of any other, and are widely distributed throughout the United States, being electrical power companies in most instances. The powers of the society are contained in articles 2, 3, and 4 of the statutes, as follows:

ARTICLE 2. The society has for its objects to engage, in all countries, and more especially in the United States, for its own account, for the account of others, or in participation with others, in all operations, affairs or enterprises, commercial, financial or industrial, all enterprises of public utility, and in particular those pertaining to the furnishing of lighting and electrical power.

ART. 3. The administration will be at Geneva. There

ART. 3. The administration will be at Geneva. There may be created agencies or branches in other countries by decision of the council of administration. A committee may be established in the United States.

ART. 4. The duration of the society is unlimited. It may be dissolved at any time by decision of the general assembly in conformity with article 30 hereafter enumerated

There are other companies interested in investments in American securities. In 1907 there was founded in Basel by a banking consortium the Schweizerische Gesellschaft für Anlagewerte, with a capital of 20,000,000 francs. Investments are principally made in American industrials.

Speyer & Co., in Basel, created in 1903, in cooperation with a few other banks, the Société Suisse pour les Valeurs de l'Amérique du Nord, with a capital of 5,000,000 francs, doubled in 1907. Investments may only be made in American securities. In 1906 a company under the name of Omnium Electrique and with a capital of 800,000 francs, for the purpose of participating in electrical enterprises, was founded in Geneva. The capital was reduced in 1910 to 300,000 francs.

To mention a few other companies created for different purposes: Glückauf, A.-G. für Industrielle Unternehmungen, Zürich; Société Suisse d'Applications Industrielles, Geneva; Schweizerische Bank für Kapitalanlagen, Zürich-Effekten Gesellschaft, A.-G., Winterthur; Société Financière pour l'Industrie au Canada, Geneva; Société Financière Italo-Suisse, Société Anonyme, Geneva; Société Financière pour l'Industrie au Mexique, Geneva; Société Franco-Suisse pour l'Industrie Electrique, Geneva.

Most of the great Swiss banks have founded as subsidiaries investment trust companies. This system has, however, at times been used for fraudulent purposes, for example by the Zentralbank in Bern. This bank founded investment trusts and procured capital from the public intent on speculation. There was founded in September. 1906, the Trustgesellschaft für

Industriewerte in Bern, and in March, 1907, another company, the Internationale Eisenbahnbank in Bern. Soon after the foundation of these two companies, the directors of the Zentralbank began to unload on the subsidiaries at high prices securities of which they wanted to dispose, with ruinous effects on the subsidiaries.

GERMANY.

Investment trust companies have not obtained great importance in Germany. The absence of such companies for the purpose of investing in foreign securities is particularly noticeable. There was always plenty of opportunity for capital to invest in domestic enterprises. The German investment trusts are also financial and controlling companies, and they are closely affiliated with the banks.

The oldest German investment trust is the Aktiengesellschaft für Rheinisch-Westfälische Industrie, founded in 1871 by the A. Schaaffhausenscher Bankverein and a few other concerns, with a capital of 6,000,000 marks. The capital was decreased in 1884 to 1,500,000 marks. Its success may be gauged from the dividends distributed: 1905, 19 per cent; 1906, 40 per cent; 1907, 6 per cent; 1908, 4 per cent; 1909, 6 per cent; 1910, 6 per cent; 1911, 4 per cent; 1912,

4 per cent; 1913, 4 per cent.

Another company, founded in 1871 by the Barmer Verein and others for the purpose of the general development of industry, building, and banking, is the Bergisch-Märkische Industriegesellschaft. Originally it had a capital of 4,500,000 marks, which was reduced during the years 1878-1885 to about 3,000,000 marks. In 1897 the company became affiliated with the Deutsche Bank and its subsidiary, the Bergisch-Märkische Bank, and the capital was increased to 6,000,000 marks. The company paid a dividend in 1910, 4 per cent; in 1911,

0; 1912, 0; 1913, 7 per cent; 1914, 6 per cent. The Aktiengesellschaft für Rheinische-Westfälische Industrie and the Bergisch-Märkische Industriegesellschaft were for more than 20 years the only investment trusts in Germany. The years subsequent to 1890 witnesses a period of great financial activity and a number of new institutions in the nature of investment trusts were founded. Most of the companies devoted themselves to financing of new enterprises. One of the investment trusts is the Hannoverische Gesellschaft für Industrielle Unternehmungen, a creation of the Nord-deutsche Bank of Hamburg and of the banking house of Ephraim Meyer & Sons, of Hanover. Its capital is 5,000,000 marks, and the following dividends were paid: 1910-11, 6 per cent; 1911-12, 6 per cent; 1912-13, 6 per cent; 1913-14, 4 per cent; 1914-15, 4 per cent.

There may be mentioned the Bank für Industriebeteiligungen, founded in Berlin in 1901 with a capital of 1,000,000 marks. Investments were principally made in Hungarian mining operations. The company was liquidated in 1903 with great loss to the investors. The Deutsche Industriegesellschaft, A. G., of Regensburg, founded in 1898, which has now a capital of 1,400,000 marks, and the Aktiengesellschaft für Industrielle Unternehmungen of Blankenburg A. H., founded in 1906, which has a capital of 1,000,000 marks, are two other examples of investment trusts. But their success has not been striking.

Election of Directors.

The following directors of Federal Reserve Banks have been elected for the three-vear term beginning January 1, 1921:

District No. 1-Boston:

District No. 1—Boston:
Class A.—Thomas P. Beal, Boston, Mass.
Class B.—Philip R. Allen, East Walpole, Mass.
Class C.—Frederic H. Curtiss, Boston, Mass.
District No. 2—New York:
Class A.—R. H. Treman, Ithaca, N. Y.
Class B.—Richard H. Williams, Madison, N. J.
Class C.—W. L. Saunders, New York, N. Y.
District No. 3—Philadelphia:
Class A.—Lesenb Wayne, ir Philadelphia Pa

District No. 3—Philadelphia:
Class A.—Joseph Wayne, jr., Philadelphia, Pa.
Class B.—Edwin S. Stuart, Philadelphia, Pa.
Class C.—Richard L. Austin, Philadelphia, Pa.
District No. 4—Cleveland:
Class A.—Robert Wardrop, Pittsburgh, Pa.
Class B.—Thomas A. Combs, Lexington, Ky.

Class C.—Cardwell Hardy, Richmond, Va.
District No. 6—Atlanta:
Class A.—P. R. Kittles, Sylvania, Ga.
Class B.—Leon C. Simon, New Orleans, La.
Class C.—Jos. A. McCord, Atlanta, Ga.

District No. 7—Chicago:
Class A.—E. L. Johnson, Waterloo, Iowa.
Class B.—A. R. Erskine, South Bend, Ind.
Class C.—James Simpson, Chicago, Ill.

District No. 8-St. Louis:

Class A.—John G. Lonsdale, St. Louis, Mo. Class B.—Le Roy Percy, Greenville, Miss. Class C.—John W. Boehne, Evansville, Ind.

Class C.—John W. Doenne, Evansyllic, Inc.
District No. 9—Minneapolis:
Class A.—J. C. Bassett, Aberdeen, S. Dak.
Class B.—N. B. Holter, Helena, Mont.
Class C.—John H. Rich, Minneapolis, Minn.

Class C.—John H. Rich, Minneapolis, Minn.
District No. 10—Kansas City:
Class A.—E. E. Mullaney, Hill City, Kans.
Class B.—Harry W. Gibson, Muskogee, Okla.
Class C.—Asa E. Ramsay, Kansas City, Mo.
District No. 11—Dallas:
Class A.—Ed. Hall, Bryan, Tex.
Class B.—J. J. Culbertsor, Paris, Tex.
Class C.—W. F. Ramsey, Dallas, Tex.
District No. 12—San Francisco:
Class A.—John W. Baer, Pasadena, Calif.

Class A.—John W. Baer, Pasadena, Calif. Class B.—A. B. C. Dohrmann, San Francisco, Calif. Class C.—John Perrin. San Francisco, Calif.

Directors of Branch Banks.

Directors of branches of Federal Reserve Banks to serve for the year 1921 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. Frve.

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, E. J. Barcalo, T. E. Lannin.

CINCINNATI BRANCH.

(Federal Reserve Bank of Cleveland.)

Manager.—L. W. Manning. Directors.—Judson Harmon, Charles A. Hinsch, W. S. Rowe, L. W. Manning, Geo. D. Crabbs.

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 B. 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.—W. C. Weiss.

Directors.—U. S. Stewart, A. F. Kerr, W. W. Turney,
A. P. Coles, W. C. Weiss.

HELENA BRANCH,

(Federal Reserve Bank of Minneapolis.)

Manager.—O. A. Carlson, Directors.—R. O. Kaufman, Chas. J. Kelly, H. W. Rowley, L. M. Ford, Thomas Marlow.

HOUSTON BRANCH.

(Federal Reserve Bank of Dallas.)

Manager.-E. F. Gossett. Directors.—Frank Andrews, J. J. Davis, E. F. Gossett, G. M. Bryan, R. M. Farrar.

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.—C. J. Shepherd. Directors.—A. J. Waters, I. B. Newton. H. M. Robinson, J. F. Sartori, C. J. Shepherd.

LOUISVILLE BRANCH.

(Federal Reserve Bank of St. Louis.)

Manager.—W. P. Kincheloe. Directors.—Geo. W. Norton, W. C. Montgomery, W. P. Kincheloe, F. M. Sackett, E. L. Swearingen.

MEMPHIS BRANCH.

(Federal Reserve Bank of St. Louis.)

Manager,—John J. Heflin. Directors,—R. Brinkley Snowden, John D. McDowell, John J. Heflin, T. K. Riddick, S. E. Ragland.

NASHVILLE BRANCH.

(Federal Reserve Bank of Atlanta.)

Manager.—J. B. McNamara.
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, Leon C.

OKLAHOMA CITY BRANCH.

(Federal Reserve Bank of Kansas City.)

Manager.—C. E. Daniel.
Directors.—Wm. Mee, E. K. Thurmond, Dorset Carter,
T. P. Martin, jr., C. E. Daniel.

OMAHA BRANCH.

(Federal Reserve Bank of Kansas City.)

Manager.—L. H. Earhart. Directors.—Luther Drake, Geo. E. Abbott, L. H. Earhart, 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.—F. Greenwood. Directors.—E. Cookingham, J. C. Ainsworth, Nathan Strauss, F. Greenwood.

SALT LAKE CITY BRANCH,

(Federal Reserve Bank of San Francisco.)

Manager.—R. B. Motherwell. Directors.—L. H. Farnsworth, R. B. Motherwell, Chapin A. Day, G. G. Wright, Lafayette Hanchett.

SEATTLE BRANCH,

(Federal Reserve Bank of San Francisco.)

Manager.—C. R. Shaw. Directors.—M. F. Backus, M. A. Arnold, C. H. Clarke, C. R. Shaw.

SPOKANE BRANCH.

(Federal Reserve Bank of San Francisco.)

Manager.—W. L. Partner.
Directors.—D. W. Twohy, R. L. Rutter, Peter McGregor,
G. I. Toevs, W. L. Partner.

State Banks and Trust Companies Admitted.

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 four hundred and eighty-seven State institutions are now members of the system.

	Capital.	Surplus.	Total resources.
District No. 1.			
Massachusetts Trust Co., Boston, Mass.	\$1,000,000	\$500,000	\$ 16,712,551
District No. 2.	•	ĺ	
Fidelity Trust Co., Newark, N. J The Orleans County Trust Co., Albion,	3,000,000	630,634	31,818,766
The Orleans County Trust Co., Albion, N. Y	100,000	50,000	867,359
District No. 4.			,
First Trust & Savings Co., Cleveland, Ohio	1,250,000	1,000,000	32,817,7 44
District No. 6.			
Central State Bank, Lakeland, Fla Bank of Bowersville, Bowersville, Ga	100,000		352,440
The Farmers & Merchants Bank, Hart-	25,000	5,000	352, 440 124, 212
well, GaOglethorpe County Bank, Lexington,	100,000	12,000	494, 262
Bank of Monroe, Monroe, Ga	25,000 300,000	25,000 75,000	337, 130 1,085,669 562, 223
Plains Bank, Plains, Ga The Central Bank, Swainsboro, Ga	50,000 25,000	75,000 10,000	562, 223
District No. 7.	20,000		25,000
State Bank of Early, Early, Iowa	40,000	20,000	388, 288
Commercial Savings Bank, Farragut, Iowa.	40,000	10,000	247,393
Farmers State Bank, Grand River, _Iowa	25,000 50,000	15,000	364,848
Hudson Savings Bank, Hudson, Iowa Schaller Savings Bank, Schaller, Iowa	50,000 25,000	15,000 20,000 25,000	648, 994
Farmers Savings Bank, Ute, Iowa Commercial State Bank, Constantine,	25,000		364,848 648,994 390,188 139,255
Mich Sparta State Bank, Sparta, Mich	25,000 30,000	5,000 8,000	348,061 525,284
District No. 8.			
Bolivar County Bank, Rosedale, Miss	150,000		547, 273
District No. 9.			
Farmers State Bank, Hayfield, Minn Bank of Commerce, Forsyth, Mont Montana Trust & Savings Bank,	25,000 75,000	14,000 37,500	638, 418 944, 324
Montana Trust & Savings Bank, Helena, Mont Little Horn State Bank, Wyola, Mont Philipsburg State Bank, Philipsburg,	150,000 25,000	75,000 6,750	1,969,591 117,364
Bank of Boulder, Boulder, Mont	40,000 50,000	15,000 25,000	491,471 649,005
The Farmers State Bank, Worden, Mont The Metals Bank & Trust Co., Butte,	25,000	5,000	248,080
Mont	300,000	200,000	6,566,581
District No. 11.	-		
First Guaranty State Bank, Cross	20.000		050 305
Plains, Tex. Del Rio Bank & Trust Co., Del Rio,	30,000	00.000	256, 165
Tex. Security Bank & Trust Co., El Paso, Tex.	100,000	20,000	770,621 2,293,340
District No. 12.	200,000	20,000	2,200,010
Guaranty Bank & Trust Co., Seattle,			
Wash	250,000	49,500	1,209,574

VOLUNTARY LIQUIDATIONS.

The American Bank, Baltimore, Md.
Pan American Bank & Trust Co., New Orleans, La.
Bank of Commerce, High Point, N. C.
Stockgrowers Bank & Trust Co., Pocatello, Idaho.
Union Commercial Bank, Mobile, Ala.

CHANGE OF NAME.

Alliance Bank, Rochester, N. Y., to Lincoln-Alliance Bank.
The Guardian Trust & Savings Bank, Toledo, Ohio, to The Commerce
Guardian Trust & Savings Bank.
The Hibernia Savings Bank, Portland, Oreg., to Hibernia Commercial & Savings Bank.
Penn Counties Trust Co., Allentown, Pa., to Penn Trust Co.
The Liberty Bank, St. Louis, Mo., to The Liberty Central
Trust Co.

CONSOLIDATION.

The Citizens Savings & Trust Co. and the First Trust & Savings Co., of Cleveland, Ohio, have consolidated and membership continued under the name of The Union Trust Co.

CONVERSION.

Commercial Bank & Trust Co. to The Commercial National Bank & Trust Co., Laurel, Miss.

Fiduciary Powers Granted to National Banks.

The applications of the following banks for permission to act under section 11(k) of the Federal Reserve Act have been approved by the Board during the month of December, 1920:

DISTRICT NO. 1.

Registrar of stocks and bonds: The Baxter National Bank of Rutland, Rutland, Vt.

DISTRICT No. 2.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics:
The Peoples National Bank of Elizabeth, Elizabeth, N. J.
The Manufacturers National Bank of Troy, N. Y.

DISTRICT No. 3.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics: The First National Bank of Hazleton, Hazleton, Pa.

The Lycoming National Bank of Williamsport, Williamsport, Pa.

DISTRICT No. 4.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, receiver, and committee of estates of lunatics:
The Ashland National Bank, Ashland, Ky.
Trustee and registrar of stocks and bonds:
The City National Bank of Canton, Canton, Ohio.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, and receiver.
The Fourth National Bank of Cadiz, Cadiz, Ohio.

DISTRICT No. 6.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics: Commercial National Bank & Trust Co., Laurel, Miss.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics:
The First National Bank of El Paso, El Paso, Ill.
The Farmers National Bank of Shelbyville, Shelbyville, Ind.
The Swedish-American National Bank of Rockford, Ill.
The City National Bank, Waukegan, Ill.
The City National Bank of Battle Creek, Mich.

Trustee:
The City National Bank of Lansing, Lansing, Mich.

DISTRICT No. 10.

Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, and committee of estates of lunatics:
The National Bank of Commerce, Hominy, Okla.
The First National Bank of Thermopolis, Thermopolis, Wyo.
The Nebraska City National Bank, Nebraska City, Nebr.

DISTRICT No. 11.

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

The First National Bank of Albuquerque, N. Mex.

DISTRICT No. 12.

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

The First National Bank of Hoquiam, Hoquiam, Wash.
Trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, and receiver:

The Metropolitan National Bank, Seattle, Wash.

Federal Advisory Council.

The following have been elected as members of the Federal Advisory Council to serve during the year 1921:

District No. 1—Philip Stockton, Boston, Mass.
District No. 2—Paul M. Warburg, New York City.
District No. 3—L. L. Rue, Philadelphia, Pa.
District No. 4—Corliss E. Sullivan, Cleveland, Ohio.
District No. 5—Joseph G. Brown, Raleigh, N. C.
District No. 6—Edward L. Lane, Jacksonville, Fla.
District No. 7—John J. Mitchell, Chicago, Ill.
District No. 8—F. O. Watts, St. Louis, Mo.
District No. 9—C. T. Jaffray, Minneapolis, Minn.
District No. 10—E. F. Swinney, Kansas City, Mo.
District No. 11—R. L. Ball, San Antonio, Tex.
District No. 12—A. L. Mills, Portland, Oreg.

Edge Act Corporation Organized.

On Wednesday, December 29, 1920, the Federal Reserve Board approved the articles of association and organization certificate of the Federal International Banking Co., a corporation organized under the provisions of section 25(a) of the Federal Reserve Act, commonly known as the "Edge Act." The capital of this corporation is \$7,000,000 and its home office is in New Orleans, La. It is incorporated for the purpose of engaging in the business of international or foreign banking or other international or foreign financial operations. Pending the issue of a final permit to commence business the corporation has authority to exercise only those powers which are incidental and preliminary to its organization.

Export and Exchange Transactions with Russia.

The following statement for the press was

issued on December 20, 1920:
The Secretary of the Treasury and the Federal Reserve Board announce that, with the approval of the Department of State and in order to give force and effect to the action of that Department in removing restrictions in the way of trade and communication with Soviet Russia, as announced by that Department on July 7, 1920, all rules and regulations restricting the exportation of coin, bullion, and currency to that part of Russia now under the control of the so-called Bolshevik Government, or restricting dealings or exchange transactions in Russian rubles, or restricting transfers of credit or exchange transactions with that part of Russia now under the control of the socalled Bolshevik Government, have been suspended, effective December 18, 1920, until further notice.

Commercial Failures Reported.

Reflecting the changed business conditions and falling prices, the country's commercial mortality discloses a more marked tendency toward increase, the 1,025 failures reported to R. G. Dun & Co. for three weeks of December largely exceeding the 400 defaults of the same period of 1919. During the latter period, however, the insolvencies were abnormally moderate. The statement for November, the most recent month for which complete statistics are available, shows 1,050 failures for \$30,758,130 of liabilities, against 551 defaults for \$9,177,321 in the corresponding month last year. The November insolvencies are the largest of any month since March, 1918, and the indebtedness is the heaviest on record for November. Separated ness is the heaviest on record for November. Separated according to Federal Reserve districts, the November returns reveal more failures in every instance than in that month of 1919, while only in the fourth district are the liabilities smaller.

Failures during November.

D.	Nun	iber.	Liabilities.			
District.	1920	1919	1920	1919		
First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Tevelith	281 47 66 47 90 125 58 37 35 50	61 99 29 58 26 34 74 28 6 22 28 86	\$3, 486, 558 10, 776, 972 1, 010, 956 1, 113, 724 1, 184, 105 1, 911, 992 3, 647, 520 829, 889 1, 235, 761 1, 582, 279 839, 548 3, 138, 826	\$535, 609 1,548, 918 589, 611 4,071,586 132, 640 301,065 434,048 235,393 108,176 204,082 253,516 762,677		
Total	1,050	551	30, 758, 130	9,177,321		

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 27 to December 31, 1920, inclusive:

	Banks.	Amount.
New charters issued to	23	
With capital of	26	\$1,490,000
With new capital of		1,675,000
Aggregate number of new charters and banks		, ,
increasing capital	49	3,165,000
With aggregate of new capital authorized	• • • • • • • • •	3, 103, 000
Number of banks liquidating (other than those consolidating with other national banks under		
the act of June 3, 1864)	8	
Capital of same banks. Number of banks reducing capital Reduction of capital. Charter expired by limitation Capital of such bank.		5,325,000
Reduction of capital		0
Charter expired by limitation	1	
Capital of such bank		50,000
Total number of banks going into liquidation	ĺ	ì
or reducing capital (other than those con- solidating with other national banks under		
the act of June 3, 1864) and expiring by limi-		
tation	9	
Aggregate capital reduction		5,375,000
Consolidation of national banks under the act of Nov. 7, 1918.	4	
Capital		3,450,000
The foregoing capital shows the aggregate of		
increased capital for the period of the banks		
embraced in statement		3,165,000
Against this there was a reduction of capital	Į.	
owing to liquidation (other than for consolida- tion with other national banks under the act	l	
of June 3, 1864) and expiration of charter	l	5, 375, 000
		2,210,000
Net reduction		2,210,000

¹ Includes two increases in capital aggregating \$100,000 incident to consolidations under act of Nov. 7, 1918.

RULINGS OF THE FEDERAL RESERVE BOARD.

The Federal Reserve Board has received an inquiry as to whether bankers' acceptances, drawn by dealers engaged in both export and domestic trade under a certain form of contract with the accepting banks, are eligible for rediscount and purchase by Federal Re-serve Banks under the Board's new regulations of the series of 1920. The form of contract was prepared some time ago to comply with the requirements of an opinion of the Board's counsel dated April 1, 1918. In that opinion published on page 314 of the April, 1918, Bulletin and on page 438 of the May, 1918, BULLETIN, it was suggested that drafts, drawn by a dealer purchasing the same class of goods both for export and domestic sale and accepted by a bank to finance the purchase and sale of the goods to be exported, might be considered eligible bankers' acceptances if the dealer's contract with the accepting bank, provided "(a) that he has entered into a contract for the export of the goods of a fixed amount: (b) that the total amount of drafts drawn by him under the credit opened to finance the export of such goods shall at no time exceed the aggregate amount of the import or export transactions contracted for and in process of execution; (c) that the proceeds of drafts drawn against the accepting bank under this credit are to be used in connection with the export contracts referred to, and that the proceeds of the sale of the goods exported will be applied in payment of the acceptances unless the dealer has in the meantime placed the bank in funds to meet them at maturity or has secured such acceptances by shipping documents, warehouse receipts, or other similar document conveying or securing title to readily marketable staples.

This suggestion was further commented upon in an opinion published on page 439 of the May, 1918, Bulletin. As a result of these opinions the form of contract in question was submitted to and approved by the Federal Reserve Board containing the provisions suggested in the above quotation. This form is now used, the Board understands, by a number of con-cerns, engaged in both foreign and domestic trade, when arranging for acceptance credits with their banks.

In the cases under consideration the drafts are drawn to finance the purchase or production of goods to be exported, and the export shipment of the goods has not actually occurred at the time of acceptance. Under the Board's Regulations A and B, series of 1920, bankers' acceptances so drawn in export or the proceeds of the sale of the goods exported

Acceptances drawn by dealers engaged in the export import transactions are eligible for rediscount and domestic sale of the same class of goods. or purchase by Federal Reserve Banks only when they comply with the requirements of Regulation A, section B, subdivision (b) (1) "that there be in existence a specific and bona fide contract providing for the exportation or importation of such goods at or within a specified and reasonable time, and that the customer agree that the accepting bank will be furnished in due course with shipping documents covering such goods or with exchange arising out of the transaction being financed by the credit.'

It is apparent that a contract of the kind suggested in the opinion of April 1 does not comply with these requirements.

Under the terms of the Federal Reserve Act the Federal Reserve Board is vested with broad discretion in the matter of regulating the rediscounts and open market purchases of Federal Reserve Banks. The Board's ruling, incorporated in the published opinion of April 1,1918, was made during the war and at a time when it was necessary to facilitate in every way the exportation of goods essential to the prosecution of the war. The opinion permitted the use of bankers' acceptances under circumstances which would not justify their use at the present time. The Board's regulations of the series of 1920, which have just been issued, supersede all previous rulings which are inconsistent with them and make acceptances drawn under the form of contract suggested in the opinion of April 1, 1918, ineligible for redis-

count or purchase.

If dealers purchasing or producing the same class of goods both for export and domestic sale wish to finance their export transactions by means of eligible bankers' acceptances, it will be necessary that their contracts with the accepting banks shall contain different provisions than those suggested in the opinion of April 1, 1918. The Board now suggests that the contracts between such dealers and their accepting banks contain the following provisions, (a) that the dealer has entered into contracts providing for the exportation of goods of a specified amount within a specified and reasonable time; (b) that the total amount of drafts drawn by the dealer under credits opened to finance the exportation of such goods shall at no time exceed the aggregate amount of the export transactions contracted for and in process of execution; (c) that the proceeds of drafts drawn against the accepting bank under this credit will be used to consummate the export contracts referred to, that the dealer will furnish in due course to the accepting bank shipping documents covering such goods, and that

will be applied in liquidation of the acceptance

The furnishing of "exchange arising out of the transaction being financed by the credit" is intended as an alternative to the furnishing of shipping documents only in import transactions, so that this phrase, which appears in Regulation A, may be disregarded in con-

sidering export transactions.

Under the Regulations of 1920 acceptances drawn to finance the purchase or production of goods under contract for export are eligible for rediscount or purchase only when the customer definitely agrees that the accepting bank will be furnished in due course with shipping documents covering such goods. Such acceptances will no longer be eligible, therefore, if the customer is given the option to furnish warehouse receipts or similar documents covering goods not intended for export, and thus to change the nature of the acceptances by converting them from acceptances based upon export transactions into acceptances based upon domestic transactions.

Right of national banks to invest in the stock of international financial corporations.

The Federal Reserve Board recently has received a number of inquiries as to whether a national bank desiring to invest in the stock of corporations organized or to be organized under the provisions of the so-called Edge Act, which constitutes section 25 (a) of the Federal Reserve Act, must make application to the Federal Reserve Board for permission to purchase such stock, and if so, whether such applications must be filed prior to January 1, 1921, in view of the provisions of the so-called McLean-Platt amendment to section 25. In order to correct certain misapprehensions which appear to have arisen in this connection, the Federal Reserve Board feels that it is advisable to set forth its interpretation of the pertinent provisions of section 25 and section 25 (a).

Section 25, as amended September 7, 1916, and September 17, 1919, makes provision for the investment by national banks in the stock of certain kinds of international financial corporations organized under the laws of the United States or of any State thereof. At the time of the passage of these amendments, however, there was no provision for the incorporation of international financial corporations under the laws of the United States. The Edge Act has now provided a means for the incorporation of such corporations under Federal law, thus enabling national banks to exercise to the full extent the rights which were given to them by the amendments to

corporations, the Edge Act, among other things, expressly provides:

Any national banking association may invest in the stock of any corporation organized under the provisions of this section, but the aggregate amount of stock held in all corporations engaged in business of the kind described in this section and in section 25 of the Federal Reserve Act as amended shall not exceed 10 per centum of the subscribing bank's capital and surplus.

It is evident, therefore, that this provision of section 25(a) to some extent has modified the provisions of section 25, so far as the right of national banks to invest in the stock of corporations organized under the laws of the United States is concerned.

Section 25 and section 25(a) both contemplate two classes of international financial corporations, (1) international banking corporations engaged in granting ordinary short time commercial credits, and (2) international investment corporations engaged in granting long time credits and in issuing their own debentures secured by foreign securities. Section 25 authorizes a national bank with a capital and surplus of \$1,000,000 or more to make application to the Board for permission to invest not to exceed 10 per cent of its capital and surplus in the stock of one or more corporations organized under the laws of the United States or of any State thereof and principally engaged in international or foreign banking; and the McLean-Platt amendment of September 17, 1919, authorizes any national bank, irrespective of the amount of its capital and surplus, until January 1, 1921, to make application to the Board for permission to invest not to exceed 5 per cent of its capital and surplus in the stock of one or more corporations organized under Federal or State law and principally engaged in such phases of international financial operations (as distinguished from international banking operations) as may be necessary to facilitate exports from the United States. Section 25 (a), however, without qualification, authorizes any national bank to invest in the stock of international financial corporations organized under that section, whether engaged in international banking or in the international investment business, provided, only, that the aggregate amount of stock held in all corporations engaged in the business of the kinds described in that section and section 25 does not exceed 10 per cent of the subscribing bank's capital and surplus.

It will be noted that the pertinent provision of section 25(a) contains no such restrictions upon the powers of national banks to invest in the stock of international financial corporations as are found in section 25, other than the provision with regard to the aggregate amount of stock which a national bank may section 25. In addition to making provision hold in all such corporations. As the provision for the organization of international financial of section 25(a) is limited to corporations organized under that section, this specific provision must be construed as superseding the more general restrictions in section 25 as to the capital and surplus requirements of the subscribing bank and as to the amount which may be invested, the time limit and the phases of the international financial operations of the corporations in whose stock the national bank desires to invest, so far as investments by national banks in corporations organized under the laws of the United States are concerned.

In view of these considerations it is clear that the January 1, 1921, limitation in the McLean-Platt amendment restricting the right of national banks to make application to the Board only until January 1, 1921, does not relate to the right of a national bank to invest in the stock of an Edge corporation, whether the Edge corporation is organized for the purpose of engaging in international banking operations or in an international investment business. Similarly, the provisions of the McLean-Platt amendment which places a limitation of 5 per cent upon the amount which a national bank may invest in a corporation of the kind described therein, has been modified by virtue of the provisions of section 25 (a) to the extent that a national bank may now invest not more than 10 per cent of its capital and surplus in a corpora ion organized under the laws of the United States, irrespective of whether such corporation is organized to carry on a banking business or an investment business, provided that the aggregate amount of stock held in all corporations engaged in business of the kind described in section 25 (a) and in section 25, whether organized under the Edge Act or under State law, does not exceed 10 per cent of the subscribing bank's capital and surplus.

In brief, under the present provisions of sections 25 and 25 (a) the situation after January 1, 1921, will be as follows: Any national bank, irrespective of its capital and surplus, may invest in the stock of any corporation organized under the provisions of section 25 (a), regardless of whether such corporation is a foreign banking corporation or a foreign investment corporation issuing its own debentures; a national bank having a capital and surplus of \$1,000,000 or more may invest in the stock of a State incorporated banking institution, but may not invest in the stock of a State incorporated investment corporation; a national bank having a capital and surplus of less than \$1,000,000 may not invest in the stock of a corporation organized under State law, whether that corporation is a banking corporation or an investment corporation; and the aggregate of the investments of any national bank in the stock of corporations engaged in the buisness of the kind described in sections 25 rations organized under State law.

and 25 (a) may not exceed 10 per cent of the subscribing bank's capital and surplus.

The Board has ruled that a national bank which desires to invest in the stock of corporations such as are described in section 25 and in section 25 (a) must make application to the Board for permission to subscribe to such stock, irrespective of whether the corporation is to be organized under section 25 (a) or under State law. The Board will not consider an application by a national bank to subscribe to the stock of a corporation to be organized under State law until the corporation has filed an agreement with the Board to restrict its operations as the Board may require, pursuant to the provisions of section 25, and will not consider an application to subscribe to the stock of a corporation to be organized under section 25 (a) until the corporation has submitted its title to the Board for approval and reservation for 30 days, pursuant to the Board's regulation K, series of 1920, and the Board has approved this title.

In the case of an Edge corporation which is in the process of organization, the Board has ruled that while it will consider an application after the approval of its title the Board will approve the application only upon the condition that the national bank shall not be authorized to pay out any money in payment for such stock until the international financial corporation in which the national bank desires to invest shall have been duly incorporated under the provisions of section 25 (a) and shall have received from the Board a preliminary permit to exercise such of the powers conferred upon it by that section as are incidental and preliminary to its organization.

Heretofore the Board has not required that these applications be in any particular form, but has accepted as an application a letter signed by an officer of the national bank requesting permission to invest in the stock of the international financial corporation. In view of the increasing number of national banks desirous of investing part of their capital and surplus in the stock of such corporations, the Board recently has prepared a form of application for use by national banks, and will hereafter require national banks desiring to purchase stock in international financial corporations to make application to the Board upon this form. The applications in the first instance must be forwarded to the Federal Reserve agent of the district in which the applying bank is located, who will in turn forward them to the Federal Reserve Board with his recommendation noted thereon. This form is suitable for use in making applications to purchase stock either in Edge corporations or in corpo-

LAW DEPARTMENT.

Proposed bill to amend section 11 (m).

On December 30, 1920, Governor Harding of the Federal Reserve Board appeared by request before the Committee on Banking and Currency of the House of Representatives, to which had been referred the bill to extend the provisions of section 11 (m) of the Federal Reserve Act for a further period of one year until December 31, 1921. During the discussion of the bill it developed that there was some opposition on the part of the committee to extending the provisions of the section without any qualification as to the manner in which the member banks' customers may have acquired the United States bonds and notes used as security for the customers' paper rediscounted by Federal Reserve Banks in excess of the limitation of 10 per cent of the member bank's capital and surplus prescribed in section 13 upon the amount of the paper of any one borrower which a Federal Reserve Bank may rediscount for any member bank. Accordingly, at the request of the committee, the Board submitted a bill which would in effect extend the provisions of section 11 (m) until December 31, 1921, in so far as is necessary to authorize the Federal Reserve Board to permit the Federal Reserve Banks to rediscount the paper of any one borrower up to 20 per cent of the member bank's capital and surplus, provided, that such paper in excess of 10 per cent of the member bank's capital and surplus is secured by Liberty bonds or Victory notes of which the borrower is the original subscriber, or by United States certificates of indebtedness. This bill was introduced into the House of Representatives on December 31, 1920, by Hon. Louis T. Mc-Fadden, chairman of the Committee on Banking and Currency. The text of the bill as introduced is as follows:

AN ACT To amend section 11 of the act approved December 23, 1913, known as the Federal Reserve Act, as amended.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 11 of the act approved December 23, 1913, known as the Federal Reserve Act, as amended, be further amended by striking out the whole of subsection (m), and by substituting therefor a subsection to read as follows:

"(m) Upon the affirmative vote of not less than five of its members, the Federal Reserve Board shall have power to permit Federal reserve banks to discount for any member bank notes, drafts, or bills of exchange bearing the signature or endorsement of any one borrower in excess of the amount permitted by section nine and section thirteen of this act, but in no case to exceed twenty per centum of the member bank's capital and surplus: Provided, however. That all'such notes, drafts, or bills of exchange discounted for any member bank in excess of the amount permitted under such sections shall be secured by not less than a like face amount of bonds or notes of the United States issued since April twenty-fourth, nineteen hundred and seventeen, for which the borrower shall in good faith prior to January 1, 1921, have paid or agreed to pay not less than the full face amount thereof, or certificates of indebtedness of the United States: Provided further, That the provisions of this subsection (m) shall not be operative after December thirty-first, nineteen hundred and twenty-one."

Amendment to New Jersey banking laws.

An act enacted by the New Jersey Legislature and approved March 22, 1920 (Ch. 26, N. J. Laws of 1920), provides that the Federal Reserve Board shall have the right, if it deems necessary, to examine member banks and trust companies organized under the laws of New Jersey, and that the State authorities having supervision over such banks and trust companies may disclose to the Federal Reserve Board, or its examiners, all information with reference to the affairs of any New Jersey bank or trust company, which has become, or desires to become, a member of the Federal Reserve System. The act reads, in part, as follows:

1. Any bank or trust company incorporated under the laws of this State which has or shall become a member of a Federal reserve bank, shall continue to be subject to the supervision and examinations required by laws of this State, except that the Federal Reserve Board shall have the right, if it deems necessary, to make examinations; and the authorities of this State having supervision over such bank or trust company may disclose to the Federal Reserve Board, or to examiners duly appointed by it, all information in reference to the affairs of any bank or trust company which has become, or desires to become, a member of a Federal Reserve Bank.

The New Jersey banking laws as amended by this act contain the substance of all the provisions of the act recommended by the Federal Reserve Board to bring about greater coordination in the powers of State and National banks and to promote uniformity in State and Federal banking laws, except that the State authorities are not authorized to accept examinations made by Federal authorities in lieu of those required by State law.

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RETAIL TRADE.

In the following tables is given a summary of the data obtained from representative department stores in each Federal Reserve district showing the activity of retail trade during the past several months. In districts Nos. 1, 5, 9, 11, and 12 the data were received in (and averages computed from) actual amounts No. 9 15 in district No. 10, 18 in district No. 10 the material was received in the form of percentages, the averages for the cities and new stores from time to time in the reporting list.

districts computed from such percentages being weighted according to volume of business done during the calendar year 1919. For the month of November, the tables are based on reports from 26 stores in district No. 1, 14 in district No. 2, 41 in district No. 3, 14 in district No. 4, 24 in district No. 5, 11 in district No. 6, 7 in district No. 7, 6 in district No. 8, 10 in district No. 9, 15 in district No. 10, 18 in district No.

Condition of retail trade in the twelve Federal Reserve districts.

					. [Percen	tage of	increa	se.]									
				Com	pariso	n of ne	t sales	with t	hose o	f corres	spondi	ng peri	od pre	vious	year.			
District and city.					T .3		Q	0.4	NT	Jan. 1	, 1920,	to clos	e of—	Ju	ıly 1, 1	920, to	end of	
	Mar., 1920.		May, 1920.	1920.	1920.	Aug., 1920.	1920.	Oct., 1920.	1920.	Mar., 1920.	Apr., 1920.	May, 1920.	June, 1920.	July, 1920.	Aug., 1920.	Sept., 1920.	Oct., 1920.	Nov, 1920.
District No. 1: Boston Outside	38.9 29.4	16.8 26.0	19.4 25.5	27.8 28.5	16.3 27.2	11.6 9.1	16.0 14.7	0.1 2.2	15.0 1.7	30.7 36.4	26. 1 33. 1	24.7 30.5	25.3 30.0	16.3 27.2	24.1 18.1	15.9 16.9	9.7 11.1	11.0 9.0
District	37.5	18.5	20.7	28.0	19.9	10.9	15.4	. 6	11.4	31.6	27.5	25.8	26.2	19.9	15.1	15.2	10.1	10.4
District No. 2: N.Y. City and Brooklyn Outside	66. 6 50. 4	15.0 22.4	41.1 22.8	26.4 32.3	22. 4 26. 9	10.9 2€.4	13.2 16.9	1.7 15.4	7.6 18.9	59.3 38.1	35.0 33.6	35.3 30.1	32.7 31.7	22. 4 26. 9	13.0 27.1	3.6 23.4	5. 2 19. 6	3.0 22.8
District	64.8	15.8	35.4	28.4	24.4	15.9	3.6	6.2	11.6	57.0	34.9	33.7	33.8	24.4	17.5	10.2	10.0	10.0
District No. 3: Philadelphia Outside									8.5 8.5									12.0 18.5
District	37.5	12.4	50.7	34.3	23.8	22.6	15.2	15.8	8.5	26.2	20.5	30.9	31.0	23.8	24.9	19.6	17.3	14.6
District No. 4. District No. 5. District No. 6. District No. 7. District No. 8. District No. 9. District No. 10.	27.4 65.2		31.3 11.0 31.0 49.7	31.5 21.4 24.3 59.6	29.9 15.7 11.6 41.2	33.2 20.8 8.8	24.6 7.5 12.6 28.6 11.8	20.8 12.4 25.1 8.3 10.5	26. 1 13. 1 14. 6 17. 6 10. 8 2. 9	38. 2 12. 1 29. 9 57. 4	33.6 8.8 22.0 43.5	32.1 9.3 28.1 49.6	34.6 11.4 29.3 58.7	29.9 15.7 11.6 41.2	27.3 21.1 19.6 29.6 18.0	25. 9 14. 1 16. 9 35. 5 16. 8	23.9 13.6 19.7 32.6 16.5	24.8 13.5 18.8 24.2 13.8 3.8
District No. 11	58.4	43.6	10.9 38.2	12.9 39.0	14.1 25.9 35.1	9.9 25.6 48.9	7.8 12.4 29.1	1 1.9 16.0 19.3	9.2 12.7 31.2	26.9 61.2 39.7	56.1	52. 2 37. 6	17.9 49.8	14.1 25.9 35.1	14. 2 25. 2 42. 4	11.1 20.9 37.9	5. 2 21. 6 33. 9	12.9 17.9 33:7
San Francisco Oakland Sacramento Seattle Spokane	31.0 65.1 19.2 19.8	28.5 14.9 33.9 4.3 10.9	40.9 17.1 34.4 6.3 48.8	23.6 15.2 32.1 11.1 62.8	21.0 16.9 20.1 .2 22.7	12.7	10.4	4.6	9.9 7.2 116.4 5.6	32.3 60.9 21.8 26.8	36.6 27.9 47.5 16.2 23.1	25.6 39.4 13.9 29.1	23.3 38.3 13.4 35.7	21.0 16.9 20.1 .2 22.7	19.6 14.7 13.3 14.4 16.8	17.3	9.4	11.7 18.2
Sålt Lake City District		7.1	26. 4 31. 2	18.3	20.6		14.5	8.9	11.3	15.1 41.0	12.8 36.9	16. 4 34. 7	14.7 33.2	20.6	16. 1 21. 4	19.8	14.0	12.2
5.00				-			tocks	at end	of mor	nth cor	npared	with-	_		!		1	
District and city.			San	ne m or	ith pre	vious	year.						Prev	ious m	onth.		New years II despression	**
	Mar., 1920.	Apr. 1920.	May, 1920.	June 1920.	July, 1920.	Aug., 1920.	Sept., 1920.	Oct., 1920,	Nov. 1920.			May, 1920.	June, 1920.	July, 1920.	Aug. 1920.	Sept., 1920.	Oct., 1920.	Nov., 1920.
District No. 1: Boston Outside	42.3 44.9	45. 2 43. 2	44. 5 43. 8	43. 8 36. 3	32.1 30.4	26.3 26.4	20.7 21.7	9. 5 15. 9	7.1 10.6	9. 9 11. 9	4.0 2.8	13.4	¹ 5.6	1 7.0 .2	4.9 3.2	9.5 9.7	1 4.2 3.0	9.0 1 2.0
District	42.8	44.7	44.3	41.4	31.5	26.4	21.0	11.6	8. 2	10.2	3.7	1 2.9	1 5. 5	14.7	4.3	9.5	11.8	4.9
District No. 2: New York City and BrooklynOutside	69. 6 60. 6	53.8 51.6	47.9 51.7	45.5 38.4	46. 2 30. 9	30.7 26.3	18.0 20.2	17. 2 15. 6	5.1 3.8	27.9 9.3	1.3 11.4	1 6.6 1 1.7	1 5.4 1 7.7	1 4.3 4.6	7.3 5.6	5.7 9.3	1.0	1 4.8 1 7.0

¹ Decrease.

29.3 18.7 16.7 4.6 25.8 1.4 15.0 16.1

Condition of retail trade in the twelve Federal Reserve districts—Continued.

[Percentage of increase.]

		!					S	tocks	at end	of mor	th cor	npared	l with-	_					
District and ci	ty.	!		Sam	e mon	th pre	vious	year.			Previous month.							_	
		Mar., 1920.	Apr., 1920.	May, 1920.	June, 1920.	July, 1920.	Aug. 1920.	Sept. 1920.	Oct., 1920.	Nov., 1920.	Mar., 1920.	Apr., 1920.	May, 1920.	June, 1920.	July, 1920.	Aug., 1920.	Sept., 1920.	Oct., 1920.	Nov, 1920.
District No. 3: Philadelphia Outside										5. 7 17. 4									1 5. 1 4.
District			25.7	30.4	26.7	28.4	31.0	20.6	16.0	10.1	12.3	5.4	16.7	13.0	3.3	6.2	8.4	. 9	1 4.
District No. 4. District No. 5. District No. 6. District No. 7. District No. 8. District No. 9. District No. 10. District No. 11.		. 53.1 51.5 41.1 64.9	63. 9 59. 5 29. 9 39. 9 27. 6 43. 3	57. 0 67. 1 50. 2 49. 7 18. 7 40. 7	53.3 57.2 47.2 77.1 30.7 39.6	48.3 44.6 51.6 70.1 12.6 43.6 69.5	40.4 29.6 39.8 64.1 24.2 17.7 39.1 59.5	34.0 21.1 37.2 55.5 35.4 22.6 29.1 52.8	34.9 15.1 30.1 51.7 30.5 12.0 25.0 42.3	22.5 5.3 16.3 39.7 17.0 7.1 11.8 31.5	11.6 14.1 4.7 10.1	7.3 1.1 3.0 0 4.7 3.1	1.9 2.3 1.5 2.1	1 1.0 1 9.2 5.6 .0	1 1. 4 2. 5 5. 6 8. 4	9.4 2.3 5.4 14.6 5.6 2.9 9.8 22.3	9.2 10.2 13.1 4.8 11.6 6.9 4.6 6.6	4.8 .1 .8 1.0 1.8 .5 11.9	1 6. 1 7. 1 6. 1 5. 1 4. 1 4. 1 5.
District No. 12: Los Angeles San Francisco. Oakland. Sacramento. Seattle. Spokane. Salt Lake City.		58.3 62.2 35.2 61.8 53.8	64.9 60.7 34.4 29.4 55.5	65. 0 54. 9 29. 7 34. 1 46. 7 59. 6	62.9 58.5 33.9 35.6 57.3	47.5 43.1 27.7	31. 2 27. 1 22. 5 11. 4 1 8. 4 45. 5	33.4 16.2	21.6 15.4 8.3 17.5 .5 40.1	16.4 8.0 3.8 14.4 33.6	7.8 6.1 6.5 3.7 14.9	3.7 2.4 1.5	1 6.5 1.6 1 1.5 1 6.7	1.4 15.2 12.6 .1 18.7 14.4	1.8 1.5 12.9	1 2.5 1.4 2.3 9.8 1.9 9.1	13.7	.2 15.4 .6 .3 2.8 1 2.7	1 4. 1 3. 1 2. 1 4.
District		. 58.0	56.5	52.6	52.5	40.1	25.3	20.6	15.6	20.1	9.6		14.7	13.0	1.8	.7	4.9	1.2	1 3.
District and city.	Feb. Mar.,	1, 1920 Apr., 1920.	, te en	l of— June	, Jul . 192	July y, Au	y 1, 192	20, to e	nd of- Oct., 1920.			Apr., 1920.	May, 1920.	June, 1920.	July, 1920.	Aug., 1920.	Sept., 1920.	Oct., 1920.	Nov. 1920.
District No. 1: Boston Outside	509. 5 320. 5	389. 8 464. 7	348. 4 442. 5	339. 431.	2 419 7 436		7.1 4 2.1 4		388. 4 482. 6	368. 4 456. 6	18.8 18.6	15. 8 15. 5	15. 4 7. 5	15. 4 10. 0	18.5 9.1	13.7 14.2	11. 4 14. 7	7.5 10.8	5. 4 10. 4
District		405.2		358.		.1 45	5.1 4	33.5	415.6	398.6	18.7	15.7	12.7	12.3	12.0	14.0	13.1	9.1	7.
District No. 2: New York City and Brooklyn Outside	384. 7 372. 3	493.1		379.	390				479. 4 441. 3	464. 1 430. 6	18.8 20.3	17.6 21.8	15. 5 13. 9	16.8 17.7	15. 7 18. 9	16.8 14.3	14.7 12.0	9. 2 6. 6	6.9 4.1
District	383.4	492.0	399.4	369.	440	.1 49	6.7 5	73.9	466.9	452.3	19.0	18.2	14.8	17.2	17.4	15.9	13.6	8.1	5.
District No. 3: Philadelphia Outside										360. 4 520. 5									4. ' 2. '
District	380.0	347.0	382.6	357.	399	.8 47	1.2 5	00.3	437.2	418.0	24.8	23.5	17.6	19.3	19.8	14. 2	10.1	5.9	4.
District No. 4	298. 6 337. 6		362.8 421.5 305.8 31.8 285.4	328.: 109.	505 3 432 3 107	.9 56 .7 42 43 .9 .1 33	0.7 5 7.9 4 2.6 3 4.0 3	12.9 10.7 77.0 40.4	466.8 489.0 403.9 371.0 396.8 337.6 343.3 454.0	452. 1 454. 5 381. 6 431. 7 324. 4 526. 8 416. 7	19. 4 16. 9 20. 9 31. 4	34.8 12.1 20.1 31.2 9.6 18.0	13. 2 9. 9 20. 6 31. 9 19. 5 5. 4	16. 2 9. 7 17. 0 19. 5 20. 0 25. 3	18.9 16.1 17.4 19.3 13.7 15.6 18.6	17.0 14.8 15.6 23.2 17.2 9.1 9.7 12.7	13.3 8.4 11.0 15.7 9.2 8.8 10.0	7.6 7.1 6.9 5.1 6.1 12.4 3.1 4.1	5.9 3.0 5.8 6.4 3.9 11.9 3.9
Los Angeles San Francisco Oakland Sacramento Seattle Spokane Salt Lake City	494. 9 619. 7 542. 6	390.7 492.3 585.2 527.9 528.8	480, 4 469, 8 589, 5 533, 4 539, 7 605, 4	508. 573. 531. 524.	8 539 8 625 3 470	.1 59 42 2 53	2.8 5 8.3 3.3	08.0	462. 5 511. 9 732. 5 387. 4 502. 5 579. 0	478.0 515.8 567.4 454.5 544.3	33.9 31.0 17.6 34.7	39. 0 27. 7 17. 2	29. 7 23. 9 14. 2 31. 1	26. 2 26. 0 16. 3 25. 1	22.8 25.9 16.3 29.9 18.7	15. 5 21. 1 12. 2	12.0 10.8 8.6	9.3 13.6 6	7.0
District	515.3	456.0	598.0	516.	536	.5 48	9.6 5	04.0	467.3	488.5	27.2	21.6	23.2	23.1	22.3	14. 2	9.5	9.8	7.0

¹ Decrease.

FOREIGN TRADE INDEX.

There is presented below a series of indexes designed to reflect movements in foreign trade of the United States, with fluctuations due to for November. While this decrease was noted price changes eliminated. The commodities chosen for these indexes are those for which prices are compiled by the Federal Reserve Board in the preparation of its international price index. The list includes 25 of the most important imports, the value of which in 1913 formed 47.7 per cent of the total import values, and 29 of the most important exports, the value of which in 1913 formed 56.3 per cent of the total export values. The list of the were largely responsible for the increase in commodities is given in the July Bulletin. the imports of producers' goods.

Total exports, after a continuous increase in every class of exports, it is most noticeable in the case of producers' goods. Total imports, on the other hand, after showing a decrease for every month since June, showed an appreciable increase for November. The very large increase in the imports of producers' goods more than compensated for the decrease in the imports of raw materials and consumers' goods. Cane sugar and India rubber

Value of exports and imports of selected commodities at 1913 prices.

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

[Monthly average values, 1913=100.]

	,			E	xports.				Imports.									
	Raw ma (12 com ties	modi-	Produ goods () modi	10 com-	goods (ls (7 com- exports		goods (7 com- export		Grand total exports (29 com- modities).		Raw materials (10 commodities).		icers' 12 com- ties).	Consumers' goods (3 commodities).		Grand imports (moditi	25 com-
	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.		
1913. January February March April May June July August September October November December	100,027 71,074 61,681 71,446 68,856 51,325 74,869 103,614 137,772 126,836 113,326	116. 8 83. 0 72. 0 83. 0 80. 4 54. 8 59. 9 87. 4 120. 9 160. 9 148. 1 132. 3	11,762 12,266 11,836 14,128 11,661 11,612 11,109 11,547 10,622 12,608 9,987 10,053	101. 4 105. 8 102. 1 121. 8 100. 6 100. 1 95. 8 99. 5 91. 6 108. 7 86. 1 86. 7	30,715 30,790 28,698 28,708 29,923 28,242 27,686 29,370 32,190 34,612 31,246 33,089	100.9 101.2 94.3 94.3 98.3 92.8 91.0 96.5 105.8 113.8 102.7 108.7	142,504 114,130 102,215 114,282 110,440 86,817 90,120 115,786 146,426 184,992 168,069 156,468	111. 6 89. 4 80. 1 89. 5 86. 5 68. 0 70. 6 90. 7 114. 7 144. 9 131. 6 122. 5	61,347 55,332 55,555 52,271 50,089 40,822 40,298 42,470 52,659 44,407 48,107 60,904	121.9 110.0 110.4 103.9 99.5 81.1 80.1 84.4 104.6 88.2 95.6 121.0	40. 107 41,060 45,753 42,346 38,409 38,606 35,990 37,385 41,184 22,721 28,788 31,929	108.3 110.9 123.6 114.4 103.7 104.3 97.2 101.0 111.2 61.4 77.8 86.2	14. 219 14, 335 13, 378 10, 896 7, 718 8, 382 9, 698 11, 078 15, 883 15, 929 15, 059 21, 446	108. 0 108. 9 101. 6 82. 7 58. 6 63. 7 73. 6 84. 1 120. 6 121. 0 114. 4 162. 9	115, 673 110, 727 114, 686 105, 513 96, 216 87, 810 85, 986 90, 933 109, 726 83, 057 91, 954 114, 279	115. 1 110. 1 114. 1 104. 9 95. 7 87. 3 85. 4 90. 4 109. 2 82. 6 91. 5 113. 7		
Year	1,027,789	100.0	139, 191	100.0	365, 269	100.0	1,532,249	100.0	604, 261	100.0	444,278	100.0	158,021	100.0	1, 206, 560	100.0		
January. February. March. April. May. June. July. August September. October. November. December.	84,066 58,488 57,659 65,112 67,595 98,335 71,917 81,250 70,285 70,322 99,589 89,585	98. 2 68. 3 67. 3 76. 0 78. 9 114. 8 84. 0 94. 9 82. 1 82. 1 116. 3 104. 6	18, 444 14, 598 16, 161 19, 356 15, 972 28, 618 17, 150 19, 574 19, 359 17, 182 15, 740 13, 208	159.0 125.9 139.3 166.9 137.7 247.1 147.9 168.8 166.9 148.1 135.7 113.9	56,748 53,338 61,585 80,639 58,731 96,088 52,553 49,194 43,342 45,844 46,473 43,563	186. 4 175. 2 202. 3 264. 9 192. 9 315. 1 172. 7 161. 6 142. 4 150. 6 152. 7 143. 1	159, 258 126, 424 135, 405 165, 107 142, 298 223, 041 141, 620 150, 018 132, 986 133, 348 161, 802 146, 356	124.7 99.0 106.1 129.3 111.4 174.7 110.9 117.5 104.1 104.4 126.7 114.6	44,552 47,774 54,947 63,385 81,274 86,256 86,443 85,571 1123,524 99,114 98,690 79,965	88. 5 94. 9 109. 2 125. 9 161. 4 171. 7 169. 9 245. 3 196. 8 196. 1 158. 9	53,071 66,708 82,546 88,017 89,890 61,886 77,401 42,132 70,033 74,736 79,198 71,886	143.3 180.2 223.0 237.7 242.8 167.2 209.1 113.8 189.2 201.9 213.9 194.2	14, 434 14, 230 25, 223 18, 869 24, 861 18, 512 29, 492 20, 953 25, 240 20, 386 21, 254. 21, 521	108. 1 109. 6 191. 6 143. 3 188. 8 140. 6 224. 0 159. 1 191. 7 154. 8 161. 4 163. 4	112,057 128,712 162,716 170,271 196,025 166,654 193,336 148,656 218,797 194,236 199,142 173,372	111. 4 128. 0 161. 8 169. 3 195. 0 165. 7 192. 3 147. 8 217. 6 193. 2 198. 1 172. 4		
Year	914, 203	88.9	215,362	154.7	688,098	188.4	1,817,663	118.6	951,495	157.5	857,504	193.0	254,975	161.4	2,063,974	171.1		
1920. January February March April May June July August September October November	93,141 70,130 90,805 68,048 63,650 55,200 66,924 67,225 70,699 101,708 95,148	108.7 81.9 106.0 79.4 74.3 64.5 78.1 78.5 82.5 118.7 111.1	15,647 14,198 17,279 17,063 17,546 14,663 19,138 15,708 13,883 17,649 14,390	134.9 122.4 149.0 147.1 151.3 126.4 165.0 135.4 119.7 152.2 124.1	35, 406 41, 645 56, 428 51, 689 62, 457 46, 113 43, 325 28, 594 28, 599 37, 859 33, 996	116.3 136.8 185.4 169.8 205.2 151.5 142.4 94.0 94.0 124.4 111.7	144, 194 125, 973 164, 512 136, 800 143, 653 115, 976 129, 387 111, 527 113, 181 157, 216 143, 534	112.9 98.7 128.9 107.1 112.5 90.8 101.3 87.3 88.6 123.1 112.4	103,796 87,086 97,039 87,588 64,177 75,225 60,942 61,321 51,388 44,866 43,612	206. 2 173. 0 192. 8 174. 0 127. 5 149. 5 121. 0 121. 8 102. 1 89. 1 86. 6	90,655 107,162 125,496 97,187 84,134 95,699 93,910 94,866 61,163 48,683 61,422	244.9 289.5 339.0 262.5 227.2 258.5 253.7 256.2 165.2 131.5 165.9	24,064 19,964 25,999 29,076 14,887 21,463 24,562 22,624 17,226 17,613 14,610	182.7 151.6 197.4 220.8 113.1 163.0 186.5 171.8 130.8 131.8	218,515 214,212 248,534 213,851 163,198 192,387 179,414 178,811 129,777 111,162 119,644	217.3 213.1 247.2 212.7 162.3 191.3 178.4 177.8 129.1 110.6 119.0		

¹ An additional list of 11 commodities of imports is given in October Bulletin.

WHOLESALE PRICES ABROAD.¹

Index numbers of wholesale prices (all commodities). [1913 = 100.7]

States; States; Bureau of Endance Bure					•	•					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		States; Federal Reserve Board (90 quota-	States; Bureau of Labor Statistics (328 quota-	Kingdom; Statist (45 com-	Bulletin de la Statistique Générale (45 com-	Prof. Bachi (40 commodi-	Svensk Handels- tidning (47 quota-	Bank of Japan for Tokyo (56 commodi-	Common- wealth Bureau Census and Statistics (92 com-	Depart- ment of Labor (272 quota-	Calcutta, India; Depart- ment of Statistics (75 com- modities).
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			_ 								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					100	100		100		100	
1916			100								4 10
1917						133	145			110	
1918. 197 226 339 409 339 193 170 206 201 20				159		202	185			135	
1919. 215 242 357 364 330 235 180 217 1919. 1919. 219 230 271 405 436 308 280 199 227 1920. 1920.				206		299		149			
1919. November. 219 230 271 405 436 308 280 199 227 December. 226 238 276 423 455 317 288 197 238 1920. January. 242 248 288 487 504 319 301 203 248 February. 242 249 306 522 556 342 313 206 254 March. 248 253 307 555 619 354 321 209 258 April. 263 265 313 588 679 354 300 217 261 May. 264 272 305 550 659 361 271 225 263 June. 258 269 300 493 615 366 247 233 258 July. 250 262 299 496 613 363 239 234 256 August. 234 236 242 292 526 660 362 230 230 241	8	. ¹			339		339	193		206	
November. 219 230 271 405 436 308 280 199 227 December. 226 238 276 423 455 317 288 197 238 1920. <	9 -	• • • • • • • • • • • • • • • • • • • •	215	242	357	364	330	235	180	217	
November. 219 230 271 405 436 308 280 199 227 December. 226 238 276 423 455 317 288 197 238 1920. <	1919	i)							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		219	230	271	405	436	308	280	199	227	
1920. January. 242 248 288 487 504 319 301 203 248 February. 242 249 366 522 556 342 313 206 254 March. 248 253 307 555 619 354 321 209 258 April 263 265 313 588 679 354 300 217 261 May. 264 272 305 550 659 361 271 225 263 June. 258 269 300 493 615 366 247 233 258 July. 250 262 299 496 613 363 239 234 256 August. 234 250 298 501 632 365 235 236 244 September. 226 242 292 526 660 362 230 230 241			238					288		238	
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February. 242 249 366 522 556 342 313 206 254 March. 248 253 307 555 619 354 321 209 258 April. 263 265 313 588 679 354 300 217 261 May. 264 272 305 550 659 361 271 225 263 June. 258 269 300 493 615 366 247 233 258 July. 250 262 299 496 613 363 239 234 256 August. 234 250 298 501 632 365 235 236 244 September. 226 242 292 526 660 362 230 230 241										_	İ
March. 248 253 307 555 619 354 321 209 258 April. 263 265 313 588 679 354 300 217 261 May. 264 272 305 550 659 361 271 225 263 June. 258 269 300 493 615 366 247 233 258 July. 250 262 299 496 613 363 239 234 256 August. 234 250 298 501 632 365 235 236 244 September. 226 242 292 526 660 362 230 230 241		242					319	301			21
April 263 265 313 588 679 354 300 217 261 May 264 272 305 550 659 381 271 225 263 Fune 258 269 300 493 615 366 247 233 258 Fuly 250 262 299 496 613 363 239 234 256 August 234 250 298 501 632 365 235 236 244 4sptember 226 242 292 526 660 362 230 230 241	oruary	242	249				342	313		254	20
May 264 272 305 550 659 361 271 225 263 June 258 269 300 493 615 366 247 233 258 July 250 262 299 496 613 363 239 234 256 August 234 250 298 501 632 365 235 236 244 September 226 242 292 526 660 362 230 230 241	reh	248	253		555	619	354		209	258	19
July 250 262 299 496 613 363 239 234 256 August 234 250 298 501 632 365 235 236 244 September 226 242 292 526 660 362 230 230 231	ril	263	265	313			354	300	217	261	20
July 250 262 299 496 613 363 239 234 256 August 234 250 298 501 632 365 235 236 244 September 226 242 292 526 660 362 230 230 241	у	264	272	305	550	659	361	271	225	263	21
August 234 250 298 501 632 365 235 236 244 September 226 242 292 526 660 362 230 230 241	1e		269	300			366	247	233	258	20
September 226 242 292 526 660 362 230 230 241	У	250	262	299			303	239	234	256	20
	gust		250	298						244	2
	otember		242					230			20
	tober		225								20
November 190 207 263 460 658 331 221 208 225	vemper	190	207	203	400	058	331	221	208	225	19

¹ The index numbers printed in this article are constructed by the various foreign statistical offices according to methods described in the BULLETIN for January, 1920. In all cases, except that of the United States, the original basis upon which the index numbers have been computed has been shifted to the 1913 base. The monthly and yearly index numbers are therefore only approximate. The latest figures are received by cable and are subject to correction.

2 July 1, 1913, to June 30, 1914=100.

3 July, 1914=100.

4 End of July, 1914=100.

5 Last six months of 1917.

tions abroad during the past few weeks. Wholesale prices were definitely on the decline in most countries, but the reaction had not gone far enough either to relieve the ultimate consumer materially or to bring about an active resumption of business among traders. Production had been curtailed in many industries, resulting in partial or complete unemployment for large numbers of workers. At the same time inflation of bank credit had increased, probably in large measure because of the situation arising from the rapid decline in commodity values, but also because of Government financing and end of year requirements.

ENGLAND.

Prices in England declined very rapidly during November, the Statist index number standing at 282 at the end of October and 263 at the end of November. Practically all groups of commodities were affected, meats and domestic coal being the most important

Developments of the past few weeks in practically all commodity lines have been of interest, but the situation in the wool and coal industries is of special significance because of continued Government control. During December free wool sales as well as Government auctions were held. At the Government sales | running only 24 hours a week.

marketing of the wool.

No material change is to be noted in condi- only a small amount of trading occurred, offerings totaling 54,000 bales, while sales amounted to only 16,000 bales. According to reports, the upset price of the Government is too high to attract buyers. Sales at the free wool auctions have been considerably larger, but prices ruled lower than at the Government sales and were also well under November prices.

There has been much agitation recently over the disposition of the enormous quantity of carry-over wool held by the British Govern-ment. These large stocks constitute a serious problem to all members of the wool trade, growers in particular opposing a general revision of prices. The latest development is a recommendation on the part of the Australian wool growers (backed by their own Government) that the British Government terminate its wool contract with them on December 31 of this year and make an equal division of the cash, wool, and other assets resulting from its control of the wool business. The growers then plan to form a wool realization association with a capitalization of £25,000,000 for the

Prices of wool tops in December were very strikingly reduced from quotations of earlier months and piece goods was likewise lower. A large portion of the Yorkshire mills are

All regulations regarding the price of export and bunker coal were revoked on December 1. Domestic coal prices continue at the same level as during earlier months, the Government fixed price being still effective. Export coal prices, however, have begun to decline, and it is reported that stocks of export coal are accumulating in the Cardiff region. Production during recent weeks has been maintained at the high point of the year, while demand from abroad has been curtailed.

The following table shows the course of wholesale prices according to the Statist index number:

Statist index number of wholesale prices.

Date.	Vege- table foods.	Ani- mal foods.	Sugar, coffee, tea.	Food- stuffs.	Min- erals.	Tex- tiles.	Sun- dries.	Mate rials.
1010	100	100	100	100	100	100	100	
1913	100	100	100	100	100 90	100	100	100
1914	110	100	107	105		97	105	9
1915	155	125	130	137	109	111	131	119
1916	193	152	161	169	140	152	163	15
1917	252	192	213	218	152	228	212	19:
1918	248	210	238	229	167	265	243	22
1919	252	215	275	238	190	271	268	24
November.	266	226	332	258	226	325	292	28
December	270	228	336	260	234	334	296	28
1920:	٥	200	250		222	1		
January	274	230	356	265	256	343	312	30
February	297	237	415	286	267	362	329	31
March	345	237	393	300	263	360	318	31
April	346	265	392	315	263	354	321	31
May	351	244	473	318	273	308	311	29
June	359	244	496	325	269	308	282	28
July	343	278	425	325	276	298	277	28
August	317	295	404	319	281	298	278	28
September.	319	291	334	308	283	286	279	28
October	334	290	257	302	276	261	268	26
November .	308	293	238	291	265	212	253	24

The condition of the Bank of England on November 24 was rather stronger than for the last week of October. Deposits were £13,500,000 lower than at the end of October, bank and currency note circulation was reduced, and gold holdings increased (due to receipts from France). During the next weeks, however, considerable strain was felt, especially at the first of December, because of the repayment of £12,500,000 of exchequer bonds which matured on that date and the distribution of £50,000,000 in interest on the war loan. This resulted in an increase in other deposits and a decrease in the ratio of reserve to liabilities from $11\frac{7}{8}$ per cent on November 24 to $7\frac{7}{8}$ per cent on December 1, the lowest point reached since 1866. During the next two weeks conditions improved slightly, but on December 22 and 29 the reserve ratio was again down to between 7 and 8 per cent. As a result of the December 1 payments by the Government, the floating debt was greatly increased. Treasury bills outstanding increased from £1,097,000,000 the last week in November to £1,127,000,000 the first week in December, and temporary advances from the bank and other departments increased from £231,000,000 to £268,000,000. The volume of currency notes was reduced during the month of November, but was again increased in December.

The suspension of payment by Farrow's Bank, which was capitalized at £361,000, was due to unsound management rather than to general financial conditions.

	1	Deposit and 1	note accounts	š.	Goveri	ıment floatiı	Discount rates.		
1920	Bank notes.1	Currency notes and certificates outstand- ing.	Deposits, public and other.	Coin and bullion. ²	Treasury bills.	Temporary advances.	Total float- ing debt.	3 months' bank bills.	6 months' trade bills.
End of— January February March April May June July August September October November	92, 426 99, 371 101, 284 103, 614 106, 658	000°8. £329,554 324,994 335,372 337,377 348,316 357,356 361,911 356,012 353,795 355,872 349,284	000's. £155,272 190,147 137,170 140,381 117,784 191,715 133,796 115,955 127,167 136,977 123,304	000's. £128, 434 138, 946 140, 672 141, 018 140, 955 146, 382 151, 734 151, 529 151, 615 151, 699 152, 613	000's. £1,111,000 1,070,000 1,107,000 1,048,000 1,062,000 1,050,000 1,058,000 1,067,000 1,139,000 1,288,000 1,097,000	000's. £208,000 188,000 205,000 249,000 221,000 244,000 183,000 143,000 241,000 231,000	000°s. £1,319,000 1,258,000 1,312,000 1,297,000 1,294,000 1,262,000 1,262,000 1,262,000 1,283,000 1,283,000	Per cent. 518 58 58 681 681 681 681 681 681 681 681 681 68	Per cent. 68 68 77 77 77 77 77

¹ Less notes in currency notes account.

£793,000,000, while during the last week they week.

London bank clearings constantly decreased had been reduced to £676,000,000. During during the successive weeks of November, the first two weeks of December the totals During the first week they amounted to were higher again, but declined in the third

² Held by the Bank of England and by the Treasury as note reserve.

London bankers' clearing-house returns. [In thousands of pounds sterling.]

Date (1920).							
Veek ending-							
Nov. 3	792,78						
Nov 10	705, 25						
Nov. 17	705, 25 683, 04						
Nov. 24	675,70						
Dec. 1.	753, 23						
Dec. 8	764,81						
Dec. 15	670,58						

Foreign trade during the month of November showed an increase of £7,000,000 in exports, a decrease of £3,000,000 in reexports, and of £5,000,000 in imports. As regards England's balance of trade, this is the most favorable showing yet obtained, and the total exports for the month are the largest in value of any month since the war with the single exception of July, 1920. The only unfavorable features of the report were the relatively small quantity of raw materials and the relatively large quantity of finished goods imported.

	Valu	e of foreign (trade.	Produ	Ship tonnage		
Date.	Imports.	Exports.	Reexports.	Coal.	Pig iron.	Steel ingots and castings.	under construc- tion (gross tons).
Monthly average, 1913	000's. £39,061	000's. £43,771	0.0's. £9,131	000's. 24, 336	000's. 869	000's. 649	1 2,002,699
January February March April May July August September October November	183, 498 170, 514 176, 648 167, 154 166, 816 170, 491 163, 342 153, 255 152, 692 149, 389 144, 260	105, 880 85, 964 103, 699 106, 252 119, 319 116, 352 137, 452 114, 903 117, 456 112, 295 119, 365	25, 464 22, 604 27, 031 20, 407 20, 260 20, 124 17, 848 13, 368 13, 351 16, 134 13, 115	2 22, 657 19, 435 19, 505 17, 131 2 22, 131 19, 048 2 22, 926 16, 970 18, 885 2 14, 044 15, 920	676 656 710 655 738 726 750 752 741 533 404	766 811 854 779 848 745 800 709 884 544 504	3,394,425 3,578,000 3,731,000

 $^{\rm 1}$ Average of four quarterly estimates. Figures following are estimates taken at the end of each quarter. $^{\rm 2}$ Five weeks in the month.

	Average percentage increase in cost of living, base, July, 1914.	Per cent of trade- union members unem- ployed (mem- bership 1,636,012 at end of Septem- ber).
January. February March. April. May June July August. September October November December	141 150 152 155 161	2.9 1.6 1.1 .9 1.1 1.2 1.4 1.6 2.2 5.3 3.7

1 Food, rent, clothing, fuel, light, etc.

Figures applying to increase in cost of living are for the beginning of month and those for trade-union unemployment are for end of month.

The index number of the cost of living in England showed a decline during November for the first time since the post war boom began. During October the index increased from 164 per cent to 176 per cent above the from 164 per cent to 176 per cent above the average in July, 1914, mainly because of the removal of the bread subsidy. In November, for the year 1920 provided (as has been previ-

however, the effects of the decline in wholesale prices began to be felt in retail prices as well. Unemployment had reached considerable proportions in October, many people being thrown out of work as a result of the coal strike. During November and December conditions were further aggravated, establishments continuing on a part-time basis even after the strike was over. The ministry of labor estimates 60,000 members of trade-unions were out of work at the end of November; 415,000 individuals were registered in the insured trades as out of work at the same time.

FRANCE.

Subscriptions to the French National 6 per cent loan closed on November 30, 1920. Receipts total about 27,000,000,000 francs, of which 12,500,000,000 francs were paid in the form of French Government securities of former loans. The large total is particularly welcome in view of the current needs of the French treasury. An examination of the state of the national finances has been taking place in the finance commissions of both the ously noted in the Bulletin) for the following expenditures:

	000's of francs.
Ordinary expenses	21, 761, 108
Extraordinary expenses	5, 420, 303
Expenses recoverable from Germany	20, 751, 128
Total	47, 932, 539

The budget for 1921 recently submitted by the Finance Minister, M. François Marsal, provides for the following items of expense:

	000's of francs.
Ordinary expenses	22, 327, 409
Extraordinary expenses	5, 420, 731
Special expenses	16,539,100
Total	44, 287, 240

The last item is made up principally of interest on a portion of the public debt (5 billion francs) and expenses in the devastated regions (10 billion francs). M. François-Marsal estimates that the Government's ordinary receipts during 1921 will be 19,735 million francs, and the outroordinary receipts 5.228 millions. This its extraordinary receipts 5,228 millions. would seem to leave a deficit of almost 3 billion francs in the "ordinary" and "extraordinary" posits which increased about 450 million fra budgets, leaving the "special" budget out of consideration entirely. (This last is regarded between overnment and private deposits.

as eventually recoverable from Germany and will be met by a loan.) The commissions of finance of the Chamber and Senate have recently requested the Finance Minister to reduce the expenses contemplated for 1921 by about 3 billion francs in order that receipts and the expenses of the ordinary and extraordinary budget may balance. Both commissions emphasize the need for doing away with Government departments which are "useless and out of harmony with the exigencies of the present financial situation," and the commission from the Chamber of Deputies says that it wishes to obtain the consent of the ministers of the Army and the Navy for new and important economies. Work on the 1921 budget will not be finished by the first of the year and provisional credits will have to be voted for January and February.

The following table gives a survey of the French financial situation during November. The only important changes to be noted in the statement of the Bank of France are in note circulation, which decreased slightly, and in deposits which increased about 450 million francs. This latter increase is about equally divided

French financial situation.

	[III II	ancs.j						
	Bank of France.					Situation of the Government.		
	Gold reserves (000,000°s)	Silver reserves (000,000's)	Deposits ¹ (000,000's)	Circula- tion (000,000's)	Advances to the Govern- ment for purposes of the war ² (000,000's)	Govern- ment ³ revenue (000,000's)	Public debt (000,000's)	Price of 3 per cent perpetual rente.
1913, average	3,343	629	830	5,665		320	35,000	86. 77
January January February March April May June July August September October November	4 3,602 4 3,603 4 3,606 4 3,608 4 3,610 4 3,611 4 3,612 4 3,531 4 3,537 4 3,543	255 251 247 244 240 241 248 255 256 264 265	3, 172 3, 277 4,039 3, 469 3, 751 3, 653 3, 416 3, 267 3, 307 3, 474 3, 927	37,583 37,889 37,569 37,688 37,915 37,544 37,696 37,905 39,208 39,084 38,807	25, 300 25, 800 26, 300 26, 050 26, 050 26, 000 25, 550 25, 800 26, 600 26, 600 26, 600	885 794 859 1,057 857 908 1,109 882 1,120 1,332 1,088	⁶ 206, 616	58. 75 57. 60 58. 82 57. 40 59. 35 57. 25 58. 90 56. 30 54. 15 56. 20 55. 40

Includes Treasury and individual deposits.
 Under the laws of Aug. 5 and Dec. 26, 1914, July 10, 1915, and Feb. 16, 1917.
 From indirect taxation and Government monopolies.

decline during the month of November. The wholesale price index number of the Statistique Générale dropped from 502 in October to 480 in November. Prices of meat and vegetables, which were still increasing in October, began to move downward in November, and sugar and coffee reached further low levels during the month. The decline in meat prices was due to the fact that the Government imported and marketed frozen meat at fixed prices. Sugar-

beet production in France was much larger this year than last, and lower prices have Not including about 1,978 million francs held abroad.
As of Dec. 31, 1919.
Foreign debt calculated at par.

Wholesale prices in France continued to 1920-21 season is estimated at 244,260 tons. 70 per cent more than the estimated yield of the season af 1919-20.

Textile prices were also much lower in November; Buenos Aires fine wool at Havre dropped from 9.80 francs per kilo the last of October to 8.90 francs the last of November. Cotton at Havre fell from 430 francs per 50 kilos the last of October to 298 francs the last of November.

Toward the last of November orders for textiles had become so rare that a reduction in working hours was necessary in the Lille district. There is also unemployment in the resulted. Production of refined sugar for the | textile mills of the Vosges, but reports from the

region of Mulhouse, Alsace, show some improvement in the situation there. Silk prices also declined during November, and the Lyon market reports continued inactivity.

Metal prices rose slightly the first of the month and then dropped below October levels. They are not yet as low, however, as they were last year at this time.

The following table gives the group index numbers of the Statistique Générale:

Group index numbers—France. [Bulletin de la Statisque Générale.] [1913=100.]

. Date.	Ani- mal food.	Vege- table foods.	Sugar, coffee, and cocoa.	Foods (20).	Min- erals.	Tex- tiles.	Sun- dries.	Raw mate- rials (25).
1913	100	100	100	100	100	100	100	100
1914	103	103	106	104	98	109	99	101
1915	126	126	151	131	164	132	145	145
1916	162	170	164	167	232	180	199	206
1917	215	243	201	225.	271	303	302	291
1918	286	298	231	281	283	460	420	387
1919	392	313	253	336	272	444	405	373
1919, end of—						ļ	į.	
November	424	351	271	369	323	620	415	435
December	432	380	278	375	357	649	419	454
1920:								
January	452	432	419	440	413	787	465	525
February	484	474	436	474	444	828	503	561
March	500	516	439	498	460	884	548	600
April	522	511	429	506	498	953	587	646
May	480	480	424	472	459	841	601	614
June	482	400	392	434	428	734	517	540
July		370	405	432	469	746	500	548
August		359	399	432	475	737	524	558
September	531	412	544	487	468	715	540	558
October		421	422	469	153	637	527	528
November	519	390	371	441	424	510	498	476

Recent dispatches from France say that retail as well as wholesale prices are declining. Evidently the decline was not widely felt in November, however, as the Statistique Générale's retail price index number for Paris showed an increase of 6 points for the month. This index includes 13 articles, weighted according to annual consumption of a workingman's family of four people. The base period is July, 1914.

Retail prices in Paris.

[July 1914=100.]

Month.	1914	1915	1916	1917	1918	1919	1920
January		122	137	139	191	248	290
February. March						226 248	297 339
April		116	135	147	218	257	358
May June						268 263	378 369
July		122	132	183	206	261	373
August						238	373
September October		120	128	184	237	259 283	407 420
November.		120	100	104	201	280	426
December						285	

Preliminary figures on French foreign trade for November, 1920, show a distinct decline in exports over previous months. Imports, however, are larger than they were last month. The following table gives a summary of the trade for this year:

Foreign trade of France.1 [In thousands of francs.]

!	Imports.						Exports.		
	Food.	Raw materials.	Manu- factured articles.	Total.	Food.	Raw materials.	Manu- factured articles.	Parcel post.	Total.
1913 average ² . 1919 average ³ . 1920: January.	151, 465 719, 122 538, 365	412,144 1,101,811 985,410	138, 169 660, 610 478, 408	701,778 2,481,543 2,002,183	69, 908 80, 805 84, 561	154,841 161,401 187,626	301, ±20 440, 314 415, 007	47,182 43,577 35,204	573,351 726,097 722,398
February March April May June 4	653, 630 871, 857 675, 799 547, 825	1,336,987 1,478,987 1,398,592 1,193,960 1,302,867	651, 299 772, 007 813, 216 644, 911 726, 856	2,641,916 3,122,851 2,887,607 2,386,696 2,588,674	150,060 114,223 125,678 103,355 216,849	347, 480 349, 521 353, 344 348, 361 421, 735	767, 423 834,031 844,901 726,654 1,100,931	58, 866 39, 884 52, 987 31, 658 69, 862	1,323,829 1,337,659 1,376,910 1,210,028 1,809,377
July 5. August 6 September October November 7	723, 749	1,171,091 1,294,160 1,243,294 1,389,928	905, 613 724, 894 684, 442 732, 416	2,800,453 2,627,876 2,595,445 2,672,000	210, 888 229, 892 262, 808 200, 388	440, 482 446, 131 337, 464 405, 858	1,631,883 1,363,469 1,597,808 1,136,356	116, 255 112, 081 134, 472 140, 996	2,399,508 2,151,573 2,332,552 1,883,598

Not including gold, silver, or the reexport trade.
 Calculated in 1913 value units.
 Calculated in 1918 value units.
 January-June, 1920, figures are calculated in 1918 value units. French foreign trade figures are originally recorded in quantity units only, and the value of the trade is calculated by applying official value units to the quantities imported and exported. Normally the monthly statements of trade appear computed at the rates of the year previous, and only at the end of the year is the trade evaluated at the prices prevailing during that year. Because of the disturbed price conditions in France this year, however, it was not until July that the 1919 price units were decided upon and applied.
 Monthly French foreign trade figures are published only in cumulative form, and as the value rates used were changed in July it is impossible to give separate figures for that month.
 Calculated in 1919 value units.
 Figures subject to revision.

ITALY.

The Italian situation is still marked by falling exchange rates and continued inflation of bank credit, but wholesale prices have begun to decline. Exchange rates which began their second spectacular decline of the year in the month of July continued to depreciate throughout November and December, lire being worth only 3.38 cents in New York on December 27. prices of textiles and minerals declined.

Wholesale prices, which stood at 662 in October (as compared with 100 in 1913), had declined to 658 in November. This decline is so slight as to be almost immaterial except for the fact that it indicates that the peak of the present upward movement has been passed. Increases occurred during the month in prices of foodstuffs (probably because of the removal of Covernment subsidies of one sort and another), but

Group index numbers—Italy. Prof. Bachi. [1913=100.]

Date.	Cereals and meats.	Other food- stuffs.	Textiles.	Minerals and metals.	Other goods.	Date.	Cereals and meats.	Other food-stuffs.	Textiles.	Minerals and metals.	Other goods.
1913 1914 1915 1916 1917 1918 1919 1919 November December	215 315 316	100 84 93 135 171 229 340	100 96 113 184 326 475 427 633 658	100 100 207 380 596 750 414	100 96 133 197 266 391 360 351 405	1920. January February March April May June July August September October November	381 395 441 445 434 445	396 399 418 494 499 511 508 510 520 502 535	777 840 962 1,064 840 742 759 794 837 810 763	671 857 996 1,076 1,088 917 903 957 1,040 1,092 1,077	418 443 489 535 525 534 542 540 541 572 585

Bank statistics are not available for more recent date than September 30, but in view of the situation as disclosed by foreign exchange rates and prices, it is unlikely that conditions have improved very materially since then. On that date the note circulation of the three banks of issue stood at almost 19,000 million lire as compared with something under 3,000 million lire before the war. Between January and September, 1920, the increase in this item amounted to more than 20 per cent. During 1920 gold and silver holdings of the banks remained practically stationary, but holdings of foreign securities increased from a value of 868 million lire to 1,063 million lire. Deposits of these same banks increased from 2,376 million lire on January 31 to 2,444 million lire September 30. April, June, and September saw the most rapid increases in this item, while the totals were somewhat reduced during May and July. The ratio of reserves to note circulation after deducting 20 per cent required for demand liabilities was 9.87 per cent on September 30.

The floating debt of Italy on June 30 was about as large as her note circulation. The latter item amounted to something under 18 billion lire on that date, while treasury bills were in circulation to the amount of 15 billion lire. In addition, there were over 2 billion lire in State notes in circulation, while of the total bank note circulation of about 18 billion lire 8 billion lire had been issued for the account of the State.

Banks of issue.—Aggregate note circulation, deposits, and reserves for Banca d'Italia, Banco di Napoli, and Banco di Sicilia.

[In millions of lire.]

Date.		De- posits	Reserve.					
	Circu- lation.	and de- mand liabil- ities,	Gold.	Silver.	Foreign hold- ings.	Total.		
1920 Jan. 31. Feb. 29. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30.	15,634 15,448 15,932 16,429 16,861 17,817 17,899 17,955 18,912	2,376 2,224 2,296 2,377 2,264 2,379 2,196 2,276 2,494	1,038 1,038 1,028 1,038 1,038 1,039 1,039	115 115 115 115 115 115 115 115 115	868 894 910 882 912 957 954 1,018	2,021 2,047 2,063 2,035 2,065 2,110 2,113 2,171 2,216		

Total public debt on that date amounted to 72,574 million lire as compared with 53,622 at the same date in 1919. Of this sum 43,500 millions was perpetual debt, while 29,200 millions consisted of long-term treasury certificates, railway certificates, credits opened in the United States, bonds placed in foreign countries, etc.

The principal revenues in the first two months of the current fiscal year (July and August) amounted to 1,479 million lire, against 1,083 millions for July and August, 1919. Revenues from Government monopolies were 200 millions over those for the same period of the preceding year, which were 80 millions more than those for July-August, 1918. The yield from taxes on consumption shows in the first two months of the current fiscal year an increase of 12 million lire over the same period of the preceding year, but a decrease of 12.5 millions as compared with 1918.

October 18 was the date on which the first installment of the 1920 quota of the tax on capital was due. Official reports are not yet available showing the amount collected. The tax is levied on all fortunes of 50,000 lire or more, at a progressive rate, graduating from 4.50 per cent to 50 per cent. The payment is extended over a period of 20 years (or 10 years for those estates of which three-fifths or more consist of personal property), a discount of 6 per cent a year being granted those who pay before their annual installment falls due. According to the provisional figures obtained in October the number of persons assessed is 361,000, or 1 per cent of the total population; the total wealth assessed, 70 billion lire; the annual yield of the tax, 450 millions; the number of persons having fortunes of 1 million lire or more, 6,000, and their aggregate fortunes, about 14 billion lire. These figures are only tentative, and it is thought that with the enforcement of the law regarding the registering of bearer bonds the number of individuals subject to the tax will be found to be much larger.

Italian foreign trade, January-July, 1919 and 1920, (excluding gold and silver).

[Based on 1919 value units.]
[In millions of lire.]

Month.	Imp	orts.	Expe	orts.	Excess of imports over exports.		
	1920	1919	1920	1919	1920	1919	
January	1,002	1,061	497	260	505	801	
February	1,141	1,368	616	301	525	1,067	
MarchApril	$1,431 \\ 1,363$	1,656 1,651	683 679	367 350	748 684	1,289 1,301	
May	1,401	1,364	662	358	739	1,006	
June	2,076	1,431	752	484	1,324	947	
July	1,040	1,555	521	432	519	1,123	
Total	9,454	10,085	4, 411	2,551	5,043	7,534	

With foreign exchange rates depreciated even more than domestic values, conditions during 1920 have been favorable for Italian export trade. Total exports for the first 7 months of the year show an increase of 73 per cent in values over those of the same period in 1919. This is presumably a true increase, since the figures for both years are based upon values in 1919. Exports for June were at the highest level of the year, the July exports showing a considerable decline. Italian imports are still far larger than exports, the un-

favorable balance amounting to 5 billion lire during the first seven months of the year. Total imports, however, have been slightly lower during 1920 than they were in 1919, and the unfavorable balance is considerably smaller.

On October 10, the Commissioner of Food Supply estimated that the budgetary deficit this year on account of the bread subsidy might exceed 7 billion lire. About a month later a bill for financing the bread subsidy was proposed by the Government. This bill provides that the receipts from certain taxes (such as the income tax) shall be applied to the deficit on this account and that the price of wheat to the regional consortia be raised to the national requisition price (domestic grain price). It is estimated that the latter regulation will increase the price of bread from 1 lire per kilogram to 1.30-1.40 lire per kilogram. These provisions will yield something over $4\frac{1}{2}$ billion lire, it is estimated, but even so the total cost of the subsidy will not be met.

The crop situation as a whole seems to be somewhat less favorable than last year. Except in the case of maize, potatoes, and beets, 1920 crops are estimated as lower than 1919.

Estimates of production of agricultural products in Italy, 1919 and 1920.

[In quintals.]

	1920	1919
Wheat . Rye Barley . Oats . Rice . Maize . Potatoes . Beets .	1,150,000 1,270,000 3,500,000 4,300,000 22,000,000 14,000,000	46,204,000 1,161,000 1,813,000 5,036,000 4,867,000 21,806,000 13,875,000 15,000,000

GERMANY

The tendency toward the consolidation of individual financial and industrial undertakings which has been characteristic of German economic development in the last few years, has been of particular interest in the last few months. In the chemical industry agreements were made between dye manufacturers and nitrogen concerns. Three great oil mills united under Dutch influence, and a starch combination was formed. The most striking development of this sort which occurred in the industrial field during November was the absorption by the Rhine-Elb Union (the "electromining trust" organized by Hugo Stinnes) of the Siemens Electrical interests. This union now produces coal and electric power, as well as iron ore, semifinished and finished iron and steel products. Its capitalization amounts to 603 million marks (according to figures published in the Frankfurter Zeitung) and its employees number 200,000.

German financial situation.

[In marks.]

	Reichsbank statistics.					
	Rese	erve.				
	Gold.	Reichs- und Darlehns- kassen- scheine,	Note circu- lation.	Deposits.		
1913 average	000,000's. 1,067.6	000,000's. 32	000,000's. 1,958	000,000's. 668		
End of— April. May. June July. August September October November	1,092 1,092 1,092 1,092 1,092 1,092 1,092 1,092	15, 193 15, 907 17, 252 17, 874 18, 686 19, 861 21, 341 20, 363	47,940 50,017 53,975 55,969 58,401 61,735 63,596 164,284	16, 499 17, 024 23, 414 17, 282 15, 772 20, 054 17, 945 17, 340		
	Sit	uation of t	he Govern	ment.		
	Receipts from taxes and Govern- ment monop- olies.	Floating debt.	3 per cent imperial loan.1	5 per cent war loan.2		
1913 average	000,000's. 265	000,000's.	75.90			
April. May. June July. August. September October November	3,635 4,126	141, 987 148, 750 156, 825 161, 920 165, 918	74. 50 67. 50 62. 90 60. 64 60. 80 62. 25 66. 25 72. 30	98. 75 98. 70 98. 30 98. 50 98. 70 99. 90 99. 00 98. 80		

¹ In addition there were in circulation about 12.5 billions of Darlehns-

kassenscheine.
² Quotations of the Berlin Bourse.

Among the German banks similar amalgamations have been proceeding for several years. The Deutsche Bank has made the greatest strides in this direction. In 1913 its capital was 200 million marks. In 1914 it absorbed the Bergisch-Märkische Bank and increased its capital 50 million marks; in 1917 it took over the Schlesischer Bankverein of Breslau and the Norddeutsche Creditanstalt of Königsberg and raised its capital to 275 million marks; and in 1919 it annexed the Elberfelder Bankverein. Early in the current year it severed connections with the latter bank, but in November it continued its policy of expansion by raising its capital to 400 million marks, and took over the Hannoversche Bank, the Braunschweigische Privatbank, and the Privatbank of Gotha, and became a controlling interest in the Württembergische Vereinsbank. The four other large banks which have been pursuing this same

policy are the Disconto-Tesellschaft, the Dresdner Bank, the Commerz-und-Disconto Bank, and the Nationalbank für Deutschland. The last-named bank has been particularly active in recent years in uniting industrial with financial groups. Recent dispatches from Frankfurt say that it took over the Holstenbank in Neumünster in November and that it is preparing to take over the Hanover banking house of Bernhard Caspari, which has many close industrial connections.

The table opposite gives a brief summary of the German financial situation in November. The Reichsbank holdings of Reichs-und Darlehnskassenscheine decreased slightly in November, but its note circulation, after declining during the first two weeks of the month, has reached another high point. Deposits show a slight decrease as compared with the last week in October.

The fiscal situation of the German Government is still the object of great concern in the Reichstag. A bill has been introduced providing for the early collection in 1921 of the emergency war levies, so that the floating debt may be materially reduced by the middle of next

German exchange fluctuations were chaotic throughout November. The value of important foreign currencies as expressed in German marks rose steadily until the third week in November, when a sharp drop occurred. The movement was again reversed, however, in the last week of the month. The following table shows the recent trend of Berlin exchange on London, New York, Paris, and Switzerland:

	Berlin exchange on—							
4 4	London.	New York.	Paris.	Switzer- land.				
Marks to the	Pound sterling.	Dollar,	Franc.	Franc.				
Par	20. 40	4. 20	0, 80	0.80				
1920. Oct. 27. Nov. 3. Nov. 10. Nov. 18. Nov. 24. Dec. 1. Dec. 8.	249. 75 269. 70 286. 70 242. 25 239. 75 242. 00 254. 70	72, 555 77, 295 85, 169 69, 305 68, 430 69, 18 74, 05	4. 525 4. 8950 4. 9950 4. 3955 4. 2200 4. 2100 4. 3700	11. 239 12. 1475 13. 0765 10. 9890 10. 7390 10. 8400 11. 5100				

These violent fluctuations in exchange have a chaotic effect on German economic life. When the value of the mark is lowered it is almost impossible to import goods from abroad, and when it becomes high German manufacturers are unable to find foreign purchasers.

The following table gives wholesale prices in Germany for several important commodities:

Wholesale prices in Germany.

	1913 average.	First quarter, 1920.	Second quarter, 1920.	Third quarter, 1920.	October, 1920.	Novem- ber, 1920.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 16.4 1 16.2 1 15.6 3.2 4 42.4 1 1.29 2.14 1 1.9 77.50 110 148.9 37.4		1,683 6 44 6 116 6 15 1,769 4,927 1,490 622 677 6,350 236 296	² 141.5 ² 136.5	2 155. 5 2 141. 5 2 136. 5 2 135. 0 110 1,050 4.50 24.50 4,060 1,962. 5 731. 2 915 6,131. 3 238 300. 2	2 155. 5 2 141. 5 2 136. 5 2 136. 5 2 135. 0 110 1,125 41. 88 90 21. 03 1,660 3,360 1,968. 8 855 892. 5 6,725 238 300. 2

Statistisches Jahrbuch für das Deutsche Reich.
 Price fixed by the Government.
 Prices from the Frankfurter Zeitung.

The trend of the uncontrolled prices in the organization will be issued in small de-Germany this year has been divided into nominations so that they may be purchased three distinct movements. During January and February and in some cases as late as April prices rose. From that time on, until June and July, there were sharp price declines. Raw silk prices fell from 3,500 marks per kilo in March to 850 marks in July and August. Lead prices fell from 1,750 marks per 100 kilos in February to 375 in June and other prices declined similarly. During the month of August prices increased again, and there was a fairly steady rise after that time in the price of most commodities not controlled by the Government.

In the second half of November, however, this third movement was reversed in the case of some important commodities. Prices for nonferrous metals, raw cotton, and cotton yarn declined slightly during the last of the month. In the first week of December prices of raw silk and organzine, hides and leather, and some vegetable prices also decreased. Coal prices have remained unchanged, since the Government has refused to allow the coal syndicates to increase their prices since May. Wages of coal miners have been increased several times during that period, and the coal operators protest that they can not continue

to produce coal at the present prices.

The question of coal production has been before the German public in the last month. On November 10 a subcommittee on the socialization of coal mines reported to the Reichstag. It recommended a plan not for the taking over of the coal mines by the Government, but for the consolidation of all coal production in the hands of a gigantic orders as soon as possible in order to obtain

⁴ Applies to raw silk 12 to 14 instead of 11 to 13. ⁵ January quotation only. ⁶ June quotation only.

by the miners. No action has as yet been taken on this plan of reorganization.

The Bureau of Foreign and Domestic Commerce of the United States has recently published the following statement in regard to German foreign trade in 1919 and the first five months of 1920:

German foreign trade.

	Imports.	Exports.
1919.	Marks.	Marks.
January	397,000,000	161,000,000
February	408,000,000	195,000,000
March	440,000,000	292,000,000
April	626,000,000	270,000,000
May	1,468,000,000	251,000,000
June	2,688,000,000	406,000,000
July	3,538,000,000	570,000,000
August	3, 817, 000, 000	735, 000, 000
September	3,817,000,000 4,191,000,000	790,000,000
October	5, 179, 000, 000	1,089,000,000
November	4, 446, 000, 000	1, 284, 000, 000
December	5, 178, 000, 000	1, 284, 000, 000 4, 014, 000, 000
Total January-May	3,339,000,000	1, 169, 000, 000
Total for the year	32, 376, 000, 000	10,057,000,000
1920.		
January	6,560,000,000	3,219,000,000
February	5, 932, 000, 000	4, 262, 000, 000
March	5, 683, 000, 000	4,216,000,000
April	4,768,000,000	5, 344, 000, 000
May	5, 537, 000, 000	6,647,000,000
Total January-May	28, 480, 000, 000	23, 688, 000, 000

"The reversal of the trade balance in April and May of 1920 is explained in part by the fact that the goods exported in those two months were free from the ausfuhrabgaben, or export duties. The manufacturers and the merchants naturally made haste to fill current trust. If this scheme is adopted, shares in the benefit of the exemption. It should be

noted also that considerable quantities of goods purchased or ordered by foreign visitors at the Leipzig Fair were shipped in April and

"The favorable balance of trade for the two months has been greeted in some quarters as a good omen, but it is pointed out by the "Handelsberichte" of October 28, 1920, that the favorable balance is only apparent, not real. It seems to be due to the method of valuation rather than to an actual increase of exports. In Germany declared values are registered for all exports, but the value of most of the imports is estimated officially on the basis of average prices prevailing during the year. For the several months of 1920 the imports have been valued on the basis of prices prevailing in 1919, the resulting figure of imports being much too low in comparison with the exports, as the mark had depreciated in 1920. The exports were stated in the low marks of 1920, the imports in the higher marks of 1919.

"Arrangements are now being made to improve the method of valuation so that a real trade balance may be shown by the figures of trade. It is probable that declarations of value will be made compulsory for all cate-

gories of imports.

"It should also be remembered, when the value of the exports is under consideration, that the total includes goods delivered to the allied powers as compensation under the treaty of peace. Such goods can not properly be considered articles of commerce. The deliveries of sidered articles of commerce. The deliveries of coal alone represent a value of 792,000,000 marks for the first five months of 1920, the value being estimated on the basis of domestic prices.'

JAPAN.

The accompanying table shows the condition of the Bank of Japan during the past seven years. Among the items the increase in the advances on foreign bills between 1916 and 1918 is perhaps the most striking, indicating as it does the remarkable activity of the bank in connection with foreign trade. Advances on foreign bills at the end of 1913 amounted to only 44 million ven, whereas at the end of 1918 they were approximately 10 times as great, amounting to 444 million yen. During 1919 and 1920 there has been a decided falling off in this item, especially in the interval between December 31, 1919, and June 30, 1920. Gold embargoes abroad made it necessary for the bank to assist exporters in financing foreign trade during the war period. These advances were made through the exchange banks by means of note issues on the part of the Bank of Japan.

During the war period the item "Private loans and discounts" increased at a far less rapid pace than advances on foreign bills. On December 31, 1913, they amounted to 80 million yen, while at the end of 1918 they were 142 million yen. However, since June 30, 1919, this item has increased very strikingly, while advances on foreign bills have declined, with the result that private loans and discounts on June 30, 1920, were far larger than advances on foreign bills on that date. The increase in loans and discounts is an interesting indication of the fact that during the war, while business conditions were easy, the connections between the Bank of Japan and the private banks was not so close as during the last year, when conditions have been far more critical within the country.

Another group of items which showed very striking increases during the war were deposits at overseas agencies and coin, bullion, and notes. During the war the Bank of Japan accumulated large holdings of gold. Part of this specie was shipped to Japan, but at the same time very large portions were kept abroad. With the rapid increase in foreign trade it was necessary for the bank to keep increasingly

large deposits abroad.

The second table shows the condition of the Bank of Japan as regards certain important items at monthly intervals during 1919 and 1920. This table shows that while specie reserves have been steadily increasing during 1920, the note issue has been on the decline. The decline during 1920 in the branches and agencies account (including overseas agencies account) indicates that specie has been shipped to Japan from abroad. The freedom of the movement of gold probably explains in part at least the decrease in the item "advances on foreign bills." It is also affected by the fact that recently the city banks have had large sums available for the use of the exchange banks. At the same time the volume of foreign trade has been steadily on the decline.

The decrease in loans and discounts items since July probably indicates that the stringency which existed in the earlier months of

the year has been somewhat relieved.

Foreign trade during the month of November showed an excess of imports over exports. The total imports amounted to 112 million yen and the total exports to 105 million yen. During the first seven months of 1920 the foreign trade of Japan showed an adverse balance, but between August and October exports were larger than imports. The fact that November trade again shows an unfavorable balance indicates that foreign demand is abnormally light.

$Statement\ of\ the\ Bank\ of\ Japan,\ 1913-1920\ (slightly\ summarized).$

[In thousands of yen.]

	1913, Dec. 31.	1914, Dec. 31.	1915, Dec. 31.	1916, Dec. 31.	1917, Dec. 31.	1918, Dec. 31.	1919, June 30.	1919, Dec. 31.	1920, June 30.
ASSETS.									
Government securities (franchise)	44,835 79,595 32,048 55,530 225,568 361 151,993 36,082 693 2,622	22,000 46,682 40,703 33,130 55,877 219,564 294 122,711 40,718 1,594 2,576 22,500	22,000 20,787 37,701 42,470 43,951 250,179 46 267,678 60,756 1,709 2,568 22,500	22,000 120,543 68,039 54,708 36,723 402,718 93 303,985 34,386 675 2,498 22,500	22,000 199,119 73,076 41,330 34,534 655,854 33 446,503 24,760 1,975 2,432 22,500	22,000 444,225 142,432 44,527 32,002 716,713 86 801,283 29,060 1,889 2,194 22,500	22,000 374,051 152,337 44,515 40,663 710,029 880,171 40,272 1,606 2,238 22,500	22,000 358,113 357,955 51,926 76,998 953,295 57 969,538 35,523 1,554 2,235 22,500	22,000 294,83' 365,27' 40,556 84,00' 982,20' 17' 773,39' 40,00' 2,55' 2,21' 22,50'
ment notes)				19,825	91,210	114,395	145,300	184,89
Total	673,828	608, 349	772,346	1,078,868	1,543,943	2,340,101	2,404,883	2,996,991	2,815,60
LIABILITIES.									
Notes issued. Reserve for small Government notes. Government deposits. Sinking funds for bonds. Due to Government for loans issued. Private deposits. Due to correspondents Deferred liabilities. Overdue tax	86,035 32,233 14,960 55 30,840	385,589 62,012 40,385 15,441 31 10,691	174,910 58,481 11,582 2,328	330,850 23,422 25,930 14 1,500	831, 372 19, 825 547, 725 24, 454 2 21, 517 42 1, 900	1,144,739 91,210 915,805 27,562 48,170 93 14,236	1,080,315 114,395 1,029,034 35,980 1 41,985 24 1,332 2,470 60,000	1,555,101 145,300 1,111,106 34,635 1 33,731 330 4,080 6,287 60,000	1,349,066 184,890 1,055,755 36,000 68,899 8,615 8,288
Capital	60,000 33,318	60,000 34,198	60,000 34,874	60,000 35,928	37,045	38, 284	60,000 39,346	60,000 40,418	60,00 43,86
Total	673,828	608, 349	772,346	1,078,868	1,543,943	2,340,101	2,404,883	2,996,991	2,815,60

Important items of the statement of the Bank of Japan.

[In thousands of yen.]

	Discounts.	Loans.	Advances on foreign bills.	Branch and agency account.	Coin, bullion, and notes.	Govern- ment de- posits.	Private deposits.
January 12 February 16 March 16. April 13 May 18. June 15. July 13. August 17. September 14. October 12. November 16. December 14.	21, 601 12, 769 15, 486 30, 776 67, 016 42, 678 71, 828 100, 660 90, 332 66, 383	46,157 47,814 47,390 55,624 57,962 57,933 48,184 56,641 55,947 55,136 51,728 47,062	326, 820 343, 752 309, 373 264, 725 279, 171 336, 906 371, 329 348, 399 297, 049 258, 818 273, 036 293, 626	834,770 821,152 870,719 895,196 902,447 936,567 914,207 934,543 993,742 1,033,601 1,016,747 1,013,521	713,597 712,347 711,549 707,225 706,257 705,367 711,013 765,569 755,603 805,713 825,011 886,054	901, 189 1, 013, 963 1, 081, 256 1, 059, 643 1, 098, 112 1, 039, 189 1, 046, 747 1, 1095, 378 1, 117, 846 1, 110, 181 1, 094, 315	35, 082 27, 905 21, 651 23, 651 35, 447 39, 512 32, 860 28, 952 25, 464 38, 251 37, 346 48, 617
January 10. February 14. March 27. April 17. May 15. June 12. July 17. August 14. September 11.	290, 457 349, 876 369, 054 308, 522 237, 613 174, 594	55, 457 55, 862 73, 259 52, 812 51, 945 52, 101 45, 380 47, 393 47, 737	283,012 323,125 281,375 287,754 302,457 250,014 228,369 199,264 125,400	1,008,687 971,466 894,816 876,385 862,271 846,994 816,873 812,796 850,373	951,236 941,237 925,697 921,699 920,490 967,174 993,897 1,033,635 1,050,533	1,136,466 1,136,703 1,143,223 1,167,357 1,177,682 1,101,408 1,094,885 1,093,484 1,049,508	43, 502 37, 883 37, 613 65, 529 119, 543 80, 814 93, 699 71, 322 72, 611

Group index numbers—Calcutta, India, Department of Statistics. [End of July, 1914=100.]

Date.	Build- ing mate- rials.	Manu- fac- tured articles.	Metals.	Hides and skins.	Cotton manu- fac- tures.	Raw cotton.	Jute manu- fac- tures.	Other tex- tiles.	Oils.	Raw jute.	Oil seeds.	Tea.	Sugar.	Pulses.	Cereals.	Other foods,
End of July, 1914 August, 1918		100	100 317	100 83	100	100 240	100 328	100 240	100	100 89	100 96	100	100 95	100 179	100	100
January February March April May June. July August September October November.	127 114 128 131 139 142	225 217 218 201 215 233 235 235 237 282 246	226 215 222 219 248 244 249 257 245 245 243	253 233 211 209 160 116 100 99 105 96 89	356 364 351 357 365 364 364 360 347 343 341	214 185 179 158 135 144 132 139 154 142 133	181 164 150 170 142 147 151 163 163 136 118	153 158 159 161 164 164 168 168 164 164	159 155 135 116 123 119 119 115 115 132 118	125 123 118 119 120 83 89 91 105 104 90	200 190 166 163 169 171 169 167 179 184 163	96 92 87 90 90 73 74 72 65 64 62	377 363 321 377 511 482 503 477 456 392 348	207 191 160 159 150 149 159 160 170 169 168	167 158 151 156 157 156 151 151 154 154 155 150	204 199 192 185 183 180 188 185 186 178 173

¹ Includes pulses.

Group index numbers—Sweden, Svensk Handelstidning.

Date.	Vegetable food,	Auimal food.	Raw materials for agriculture.	Coal.	Metals.	Building material.	Paper pulp.	Hides and leather.	Textiles.	Oils.
1913-14 1914 1 1915 1 1916 1 1917 1 1918 1	151 152 181	100 101 140 182 205 419 409	100 114 161 180 198 304 340	100 123 177 266 551 856 804	100 109 166 272 405 398 258	100 104 118 165 215 275 286	100 116 233 267 300 308	100 118 158 229 206 195 211	100 103 116 166 247	100 111 120 149 212
1919. November December	230 241	361 362	317 319	840 840	225 237	280 294	316 343	228 258	328 350	204 204
Japuary February March April May June July August September October November	273 270 265 269 250 252 271 273 258	328 305 304 284 283 273 277 307 312 306 290	317 319 318 320 320 311 312 310 308 309 303	864 936 960 1,008 1,069 1,252 1,252 1,117 1,085 1,026 910	248 259 291 - k83 324 318 293 286 273 256 253	295 371 367 367 367 381 388 388 388 390 387	388 476 682 767 788 778 767 756 753 740 609	258 269 268 263 252 212 202 191 180 166 161	353 380 380 368 374 368 336 328 310 250 233	204 226 275 275 275 303 303 322 340 340 332

¹ Average for six months ending Dec. 31, 1914.

$Group\ index\ numbers--Australian\ Commonwealth--Bureau\ of\ Census\ and\ Statistics.$ [July, 1914=100.]

Date.	Metals and coal.	Textiles, leather, etc.	Agri- cultural products.	Dairy products.	Groceries and tobacco.	Meat.	Building materials.	Chemicals.
July, 1914. 1915. 1916. 1917. 1918.	100 117 154 213 220 193	100 93 131 207 232 217	100 202 113 110 135	100 127 124 116 121	100 110 127 131 138 147	100 150 155 155 147 145	100 116 136 194 245 261	100 149 172 243 315 282
1919. November	184 186	254 259	238 224	142 142	151 156	132 132	278 281	267 266
January February March April May	192 205 205	273 283 281 277 265	227 226 226 234 252	143 149 162 169 177	156 161 160 192 197	147 149 126 160 170	282 287 298 298 307	268 272 280 280 297
June. July August September. October	214 211 209 211	260 252 251 222 220	261 244 238 231 208	187 188 189 209 214	195 193 193 196 196	208 261 284 273 226	307 307 312 295 289	297 283 282 276 276
November	222	(1) 220	206	212	195	211	281	25

¹ Mutilation in table.

${\it Group\ index\ numbers---Canadian\ Department\ of\ Labor.}^{\bf 1}$

[1913=100.]

Date.	Grains and fodder.	Animals and meats.	Dairy products.	Fruits and vege- tables.	Other foods.	Textiles.	Hides, leather, etc.	Metals.	Imple- ments.	Building materials, lumber.	Fuel and lighting.	Drugs and chemi- cals.
1913. 1914. 1915. 1916. 1917. 1918.	100 114 136 142 206 231 226	100 107 104 121 161 197 199	100 100 105 119 149 168 192	100 99 93 130 233 214 206	100 104 121 136 180 213 222	100 102 114 148 201 273 285	100 105 110 143 168 169 213	100 96 128 167 217 229 173	100 101 106 128 174 213 228	100 100 97 100 118 147 171	100 94 92 113 163 188 201	100 106 160 222 236 250 205
1919. November December	240 251	176 182	221 230	240 240	230 232	298 30 6	252 231	171 181	232 232	194 224	261 209	181 189
1920. January Pebruary March April May June July August September October November	275 280 291 301 302 292 271	195 195 198 200 207 206 211 204 202 194 184	228 216 206 196 189 183 194 198 202 207 209	265 290 295 316 358 338 295 142 190 177 203	245 251 254 264 275 274 283 277 261 249 236	316 321 322 366 323 314 305 300 296 292 273	237 245 222 239 215 186 183 173 169 156 153	191 199 210 214 213 207 209 209 207 203 195	235 231 237 237 237 238 242 243 259 259 259	232 243 268 268 294 295 282 285 273 265 265	212 215 215 245 257 279 294 298 296 211 270	190 189 194 201 203 206 218 217 211 205

¹ Unimportant groups omitted.

 $Group\ index\ numbers-United\ States,\ Bureau\ of\ Labor\ Statistics.$

[1913=100.]

Date.	Farm products.	Food, etc.	Cloths and clothing.	Fuel and lighting.	Metals and metal products.	Lumber and building material.	Chemicals and drugs.	House furnishing goods.	Miscel- laneous.
1913	100	100	100	100	100	100	100	100	100
	103	102	98	96	88	98	101	99	98
	106	105	99	92	94	94	109	99	99
	119	124	123	114	142	100	157	115	117
	189	178	181	175	208	124	198	145	153
	219	191	240	163	181	152	221	195	192
	234	214	270	173	161	195	178	246	217
NovemberDecember.	240	219	325	179	164	236	176	299	220
	244	234	335	181	169	253	179	303	220
1920. January. February. March. April. May. June. July. August. September. October. November.	237 239 246 244 243 236 222	253 244 246 270 287 279 268 235 222 204	350 356 353 353 347 335 317 300 278 257 234	184 187 192 213 235 246 252 267 284 282 258	177 189 192 195 193 190 191 193 192 184 170	268 300 325 341 341 337 333 328 318 313 274	189 197 205 212 215 218 217 -216 222 216 207	324 329 329 331 339 362 362 363 371 371 369	227 227 230 238 246 247 243 240 239 229 230

WHOLESALE PRICES IN THE UNITED STATES.

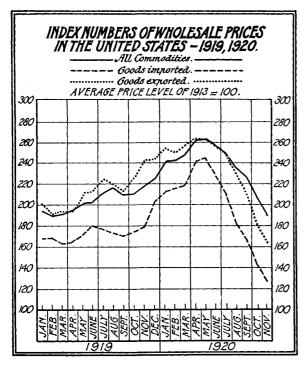
The Board's index number of wholesale prices showed another material decline in November. The number stood at 208 for October and 190 for November, a decline of 8.5 per cent. Another marked downward movement characterized the index of prices of imported goods, the number registering 127

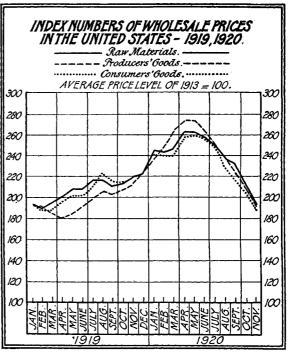
for November as compared with 142 in October and 246 in May. Export goods likewise declined some 18 points during the month. Price declines, however, were not limited to

Price declines, however, were not limited to goods entering into foreign trade, practically all commodities being considerably reduced, except coal, petroleum, gasoline, cement, brick, newsprint, which were unchanged, and certain foodstuffs which normally advance during the winter.

Index numbers of wholesale prices in United States—Federal Reserve Board.
[Average price for 1913=100.]

Date.	Goods pro- duced.	Imported.	Exported.	Consumed.	Raw mate- rials.	Producers' goods.	Consumers' goods.	An.
1913. Average for the year	100	100	100	100	100	100	100	100
January. February. March April May June. July. August September October November. December	197 191 193 198 204 204 221 215 215 222 231	168 163 163 172 180 176 174 170 174 179 203	200 192 194 194 211 214 224 219 212 226 242 245	195 190 191 196 201 202 211 218 212 211 217 227	195 190 196 201 209 208 217 217 211 213 220 229	192 191 185 181 184 192 200 206 203 207 213 223	196 188 188 197 202 202 211 224 216 214 219	195 189 191 196 202 203 211 218 211 212 219
January. 1920. January. Pebruary. March April May June. July August September. October November.	244 244 250 265 266 260 253 238 231 213	212 216 218 242 246 226 208 182 164 142	255 252 256 264 262 256 248 229 211 181 163	240 242 247 263 264 257 249 234 227 211 193	245 242 246 263 263 258 249 237 233 211 192	236 247 263 274 274 265 251 235 225 209 190	240 240 241 257 261 255 250 229 218 203 187	242 242 248 263 264 258 250 234 226 208 190





Index numbers of wholesale prices in the United States for principal classes of commodities. [Bureau of Labor Statistics.] [Average price for 1913=100.]

		R	aw material	8.		Producers'	Consumers'	All com- modities (Bureau of
Year and month.	Farm products.	Animal products.	Forest products.	Mineral products.	Total raw materials.	goods.	goods.	Labor Sta- tistics index number).
July, 1914	102	106	97	91	99	93	103	100
November, 1914	98	103	96	89	97	92	103	98
November, 1915	104	101	92	100	100	109	105	103
November, 1916	166	127	98	157	139	156	143	144
November, 1917	239	187	129	160	183	181	182	183
November, 1918	234	210	150	185	199	203	219	206
November, 1919	276	212	2 39	183	226	216	236	230
January, 1920	291	213	273	190	239	245	259	248
February, 1920	278	206	315	194	240	246	256	248
March, 1920	288	200	348	197	247	246	263	253
April, 1920	304	196	367	224	260	263	280	265
May, 1920	314	179	367	234	260	271	285	272
June, 1920	301	186	363	245	261	262	279	268
July, 1920	287	184	359	256	258	251	272	263
August, 1920	259	181	351	265	251	238	250	250
September, 1920	232	186	344	277	248	224	240	242
October, 1920	191	172	339	272	230	209	224	225
November, 1920	170	159	289	246	205	194	214	207

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

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

			Į,	er or ago	P1100 101 10	20 - 200.,						
	Corn N Chica		Cotton, m New Cr		Wheat, northern Minnea	spring,	Wheat, red wi Chica	nter,	Cattle, s good to c Chica	choicé,	Hides, pa heavy r steers, Cl	ative'
Year and month.	Average price per bushel.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per bushel.	Rela- tive price.	Average price per bushel.	Rela- tive price.	Average price per 100 pounds.	Rela- tive price.	Average price per pound.	Rela- tive price.
July, 1914 November, 1914 November, 1915 November, 1916 November, 1916 November, 1917 November, 1919 January, 1920 February, 1920 March, 1920 March, 1920 July, 1920 July, 1920 July, 1920 August, 1920 September, 1920 November, 1920 November, 1920 November, 1920 November, 1920	1.5388 1.5310 1.2938	114 111 106 157 329 206 242 240 229 252 275 322 299 250 249 210 143 130	\$0.1331 .0742 .1155 .1960 .2804 .3007 .3963 .4035 .3944 .4060 .4144 .4038 .4030 .3950 .3380 .2706 .2088 .1780	105 58 91 154 221 237 312 318 311 320 326 318 317 311 266 213 164 140	\$0.8971 1.1594 1.0182 1.9800 2.1700 2.2206 2.8250 2.9313 2.6875 2.7550 3.00750 2.9000 2.8313 2.5500 2.4903 2.1063 1.7528	103 133 117 2218 254 323 336 315 344 352 322 224 221 201	\$0.8210 1.1488 1.1250 1.8116 2.1700 2.2375 2.2881 2.6338 2.4900 2.7725 2.9750 2.8950 2.4735 2.4919 2.2047 2.0570	83 116 114 184 220 227 232 267 252 253 281 302 294 284 251 253 224 209	\$9. 2188 9. 4063 8. 8450 10. 3500 14. 3875 18. 1563 17. 5000 15. 9375 14. 9688 14. 4000 13. 9063 12. 6000 15. 0313 15. 3813 15. 3500 14. 6875 14. 5750	108 111 104 122 169 213 206 187 176 163 148 177 181 180 179 173	\$0.1938 .2175 .2625 .3150 .3525 .2900 .4688 .4000 .4025 .3640 .3613 .3538 .3410 .2944 .2850 .2840 .2560 .2325	105 118 143 171 192 158 255 255 218 219 198 196 192 185 160 155 154 139
	Hogs, Chies	light, igo.	Wool, O	hio, ½-3 coured.	Hemlock Yor	ς, New k.	Yellow floor New Y	ing,	Coal, ant stove, Ne tidew:	w York,	Coal, bitu run of a Cincin	mine, ´
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, 1917 November, 1919 January, 1920 February, 1920 March, 1920 April, 1920 June, 1920 July, 1920 August, 1920	\$8. 7563 7. 4813 6. 6455 9. 4063 17. 3500 17. 7063 14. 1438 15. 1250 14. 9813 15. 5000 15. 7125 14. 7550 15. 3500 15. 8875 15. 7350	104 88 79 111 205 209 167 179 177 183 186 175 182 188	\$0.4444 .4722 .6143 .6857 1.3571 1.4365 1.2545 1.2364 1.2364 1.2364 1.2000 1.1636 1.0000 .9091 .8727	94 100 130 146 288 305 266 263 263 263 255 247 212 193 185	\$24.5000 24.2500 21.2500 21.2500 30.5000 44.0000 53.0000 57.0000 57.0000 57.0000 57.0000 57.0000 57.0000 57.0000	101 100 88 98 126 182 219 235 235 235 235 235 235 235 235	\$42,0000 42,0000 38,0000 40,0000 57,0000 63,0000 100,0000 139,0000 139,0000 160,0000 160,0000 157,0000	94 94 85 90 128 141 224 251 312 312 359 359 359 359	\$4. 9726 5. 1912 5. 1766 5. 6946 6. 1469 7. 8071 8. 4271 8. 4118 8. 4109 8. 4368 8. 9964 9. 3672 9. 4580 9. 6087	98 103 102 113 121 154 167 166 166 167 178 185 187	\$2,2000 2,2000 2,2000 3,7500 3,7500 4,1000 4,1000 4,1000 4,1000 6,0000 6,0000 6,0000 6,0000	100 100 100 170 170 170 186 186 186 250 273 273 273 273 323

Average monthly wholesale prices of commodities—Continued.

	,											
War and ward	Coal, Potas, No		Coke, Co ville		Copper, electrol New Y	ytic,	Lead, j desilver New Y	ized,	Petroleum Pennsyl at we	vania, ˈ	Pig iron,	basic.
Year 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.	A verage price per pound.	Rela- tive price.	A verage price per barrel.	Rela- tive price.	A verage price per long ton.	Rela- tive price.
Inly, 1914. November, 1914. November, 1915. November, 1916. November, 1918. November, 1918. November, 1919. January, 1920. February, 1920. March, 1920. May, 1920. May, 1920. June, 1920. June, 1920. June, 1920. August, 1920. September, 1920. November, 1920. November, 1920.	\$3.0000 3.0000 2.8500 6.0000 4.4120 4.6320 4.6320 4.6320 4.6320 6.4800 6.4800 6.4800 6.4800 7.2800 7.2800 7.2800	100 100 95 200 147 154 154 154 216 216 216 216 216 216 243 243	\$1.8750 1.5500 2.3750 5.7500 6.0000 5.9375 6.0000 6.0000 10.5000 12.0000 14.3000 14.3750 15.5500 15.3125 14.3125 8.8500	777 64 97 236 246 248 246 246 246 492 586 588 637 628 587	\$0. 1340 .1125 .1788 .2863 .2350 .2600 .2038 .1931 .1906 .1858 .1919 .1900 .1900 .1800 .1869 .1675 .1455	85 72 114 182 149 165 130 123 121 118 122 121 121 121 121 121 129 109 92	\$0,0390 .0350 .0490 .0700 .0613 .0805 .0676 .0872 .0881 .0923 .0896 .0856 .0848 .0860 .0898 .0816 .0731 .0628	89 80 111 159 183 154 198 200 210 204 195 193 195 204 185 166 166	\$1. 7500 1. 4500 1. 8000 2. 6000 3. 5000 4. 0000 4. 4375 5. 0625 5. 5125 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000	71 59 73 106 143 163 181 207 225 249 249 249 249 249 249 249 249	\$13.0000 12.4800 15.7500 25.1000 33.0000 28.3125 37.7500 42.2500 41.6000 42.2500 44.0000 45.7500 48.1000 48.5000 43.7500 48.5000	88 85 107 171 224 224 193 255 287 283 289 294 299 311 327 330 298 248
Year and month.	Cotton northern	cones,	Leather hemlock	, sole, No. 1.	Steel bi Besser Pittsbu	mer, '	Steel pl tank, I burg	itts-	Steel r open he Pittsbi	earth,	Worsted 2–32's o bree	ross-
Ten and month.	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.
aly, 1914	. 1550 . 2050 . 3325 . 4700 . 6927 . 6648 . 7271 . 7465 . 7549 . 7784 . 7672 . 7299 . 7009 . 6310 . 6310	97 70 93 150 212 268 300 329 337 341 352 347 285 245 196	\$0.3050	108 113 174 170 174 202 202 202 202 202 202 202 20	\$19,0000 19,2500 26,5000 47,5000 47,5000 41,3750 48,0000 60,0000 60,0000 60,0000 60,0000 61,0000 62,5000 58,7500 55,2000 49,7000	74 75 103 202 184 160 186 214 233 233 233 233 242 227 228 213 193	\$0.0113 .0110 .0150 .0375 .0325 .0325 .0325 .0265 .0274 .0360 .0365 .0375 .0375 .0355 .0355 .0395 .0395 .0395	76 74 101 253 220 179 185 236 247 253 240 228 220 220 209 190	\$30,0000 30,0000 30,0000 35,0000 40,0000 47,0000 57,7000 54,5000 54,5000 54,5000 54,5000 54,5000 54,5000 54,5000 54,5000 54,5000 54,5000 54,5000	100 100 100 117 133 190 157 169 182 182 182 182 182 182 182 182 182	\$0.6500 .6300 .8500 1.2000 1.9000 2.1500 2.2500 2.2500 2.2000 2.2000 2.0000 2.0000 1.7500 1.6000 1.5000	84 81 119 154 245 277 283 290 283 258 258 258 225 206 193 167
Year and month.	Beef, ca good n steers, C	ative	Coffee, Ri	o, No. 7.	Flour, standard (1918, standard Minnea	patents andard	Hams, si Chica	noked, igo.	Illumina 150° fir New Y	e test,	Sugar, a 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 November, 1914 November, 1915 November, 1916 November, 1917 November, 1919 November, 1919 January, 1920 February, 1920 March, 1920 May, 1920 June, 1920 June, 1920 June, 1920 August, 1920 September, 1920 October, 1920 November, 1920 November, 1920 November, 1920 November, 1920	. 1438 . 1375 . 1375 . 1900 . 2450 . 2350 . 2320 . 2125 . 2050 . 2090 . 1950 . 2225 . 2550 . 2550 . 2500 . 2520	104 111 106 106 147 189 181 179 164 158 161 151 172 197 201 195 185	\$0. 0882 .0638 .0750 .0950 .0794 .1069 .1697 .1628 .1478 .1500 .1514 .1559 .1498 .1306 .0936 .0819 .0759 .0746	79 57 67 85 71 96 152 146 133 135 140 135 117 84 74 68	\$4. 5938 5. 8813 5. 5000 9. 8250 10. 2250 10. 2100 12. 9500 14. 4438 13. 5375 14. 2813 14. 1600 13. 6688 12. 2350 12. 5938 11. 2063 9. 2950	100 128 120 214 223 283 315 295 287 312 328 309 298 207 275 244 203	\$0. 1769	106 100 98 122 174 213 172 177 184 190 214 220 227 224 219 215	\$0.1200 1200 1200 1200 1300 2200 2240 2500 2600 2600 2600 2600 2600 2750 2900 2900	97 97 97 105 142 178 182 195 203 211 211 211 211 223 235 235	\$0.0420 .0493 .0568 .0735 .0818 .0882 .0882 .1537 .1495 .1372 .1919 .2247 .2120 .1910 .1490 .1490 .1496 .1078 .0962	98 115 133 172 192 207 207 360 350 321 449 447 349 334 252 225

In the following table are presented actual discount and interest rates prevailing during the 30-day period ending December 15, 1920, in the various cities in which the several Federal Reserve Banks and their branches are located. A complete description of the several types of paper for which quotations are given will be found in the September, 1918, and October, 1918, Federal Reserve Bulletins. Quotations for new types of paper will be added from time to time as deemed of interest.

Discount and interest rates prevailing in various centers during 30-day period ending Dec. 15, 1920.

Dis-	City.	30 to 90 4 to 6 30 to 90 4 to 6				Interbank loans.		cceptances, 0 days.		l loansstock exchang r other current.	e Cattle	Secured by warehouse receipts,	Ordinary loans to customers secured by Liberty
one.		30 to 90 days.	4 to 6 months.	30 to 90 days.	4 to 6 months.	tours.	Indorsed.	Un- indorsed.	Demand.	3 months. 3 to 6 months		etc.	bonds and certificates of indebt- edness.
	Louisville Memphis ¹ Little Rock Mmneapolis	8 6 6-7 7 6 6 6 6-64 7 6 6 6-64 8 6 7 7 8 6 7 7 8 6 7 8 7 6 7 8 8 7 7 8 8 6 7 8 8 6 7 8 8 7 7 8 8 8 7 7 7 8 8 8 7 7 8 8 8 7 7 7 8 8 8 7 7 8 8 8 7 7 8 8 8 7 7 8 8 8 7 7 7 8 8 8 8 7 7 8 8 8 8 7 7 8 8 8 8 7 7 8 8 8 8 7 7 8 8 8 8 7 7 7 8 8 8 8 8 7 7 7 8 8 8 8 8 7 7 7 8 8 8 8 8 7 7 7 8 8 8 8 8 7 7 8 8 8 8 8 7 7 7 8 8 8 8 8 8 7 7 8 8 8 8 8 7 7 8 8 8 8 8 7 7 8 8 8 8 8 8 7 7 8 8 8 8 8 7 7 8 8 8 8 8 8 7 7 8 8 8 8 8 8 8 7 7 8	H. L. C. 78 8 6 6 6 7 6 6 6 6 6 6 6 6 6 6 6 6 6	#. L. C. 8 7½ 8 8 8 8 8 7 6½ 6½ 6½ 6½ 6½ 6½ 6½ 6½ 6½ 6½ 6½ 6½ 6½	#. L. C. 8 7\frac{7}{4} 8 8 8 8 8 7 6 6\frac{1}{2}-7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	H. L. C. 61/27 6 6 6 7 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6	H. L. C. 61 6 68 71 6 6-62 62 63 64 68 63 6 6 6 6 6 6 8 7 8 8 7 72 61 61 62 64 62 6 6 6 63 64 64 65 65 65 64 65 65 65 65 65 65 65 65 65 65 7 68 7	H. L. C. 6½ 6½ 6½ 6½ 8 6 6½-7½ 7 6½ 6½ 6½ 6½ 6½ 6½ 6½ 6½ 8 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 7 8 7 6½ 6	H. L. C. 8 8 8 8 9 4 6-7 6 5½ 6 7 6 7 6 6 7 7 6 7 8 7 7½ 8 6 7 7 6½ 7 7 6½ 7 8 7 7½ 8 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8	8 7½ 7½ 8 7½ 7 6 7 6 7 6 7 6 7 6 7 6 6 6 6 6 6 6 6 8 7 7 7 8 6 7 6 6 7 7 8 6 8 6 7½ 8 8 6 7 6 7 7 8 6 7 6 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 6 7 7 8 6 7 8 6 7 7 8 6 8 6 7 7 8 8 6 8 8	C. H. L. C. 66 67 77 77 77 77 77 77 77 77 77 77 77		H. L. C.

¹ Rates for demand paper secured by prime bankers' acceptances, high, 7, low, 6, customary, 6.

² No report.

PHYSICAL VOLUME OF TRADE.

In continuation of tables in the December (1920) | FEDERAL RESERVE BULLETIN there are presented in the following tables certain data relative to the physical volume of trade. The January, 1919, issue contains a description of the methods employed in the compilation of the data and the construction of the accompanying index numbers. Additional material will be presented from time to time as reliable figures are obtained.

Receipts of live stock at 15 western markets during November showed an increase of about 11 per cent over October, but continued to remain below the receipts for the corresponding month of 1919. This increase was due largely to an increase in the receipts of hogs. Shipments decreased, both when compared with last month and the same month a year ago. Stocker and feeder movements showed a seasonal decrease, but continued lighter than during the same period a year ago. Receipts of grain at 17 interior centers during November showed a decrease over the October figure, but were only slightly above the receipts for November, 1919. Receipts of flour at these centers decreased slightly during November, and fell off considerably from the same month a year ago. Cotton sight receipts during November showed a seasonal increase, but were considerably less than receipts during November, 1919. American spinners' takings during November fell to a new low figure, being only about one-eighth of the takings during the same month a year ago.

The railroad net ton mileage after a considerable falling off during September showed an increase during October,

The railroad net ton mileage after a considerable falling off during September showed an increase during October, almost reaching the year's high figure, which was recorded during August. The tonnage of vessels cleared during November showed a considerable decrease when compared with October, 1920, but a very large increase over November, 1919.

Both receipts and shipments of lumber at Chicago and St. Louis during December showed a very slight increase over November, 1920, but were considerably below the receipts and shipments for December, 1919. The production of southern pine, Douglas fir, and North Carolina pine decreased considerably during November when compared with October, 1920, and November, 1919. A large decrease was noted in western pine and eastern white pine when compared with October, 1920, and the production of the latter was considerably greater than for November, 1919. California shipments of citrus fruits during November showed a slight increase, but were only about one-half the amount of the shipments for November

ber, 1919. Shipments of deciduous fruits showed a considerable decrease during November from the October shipments, but were still slightly above the figure for November, 1919. Receipts of raw sugar at North Atlantic ports during December showed a very large increase and were considerably above receipts for November, 1919. Meltings also showed a very large increase, and were slightly above meltings for the same month last year, while stocks of raw sugar at these ports at the close of December showed a very slight increase over stocks at the close of November, but a large increase over the stocks held at the close of November, 1919.

The production of bituminous coal during November showed a very slight increase over October, but was almost three times the production figure for November, 1919, during which month a strike occurred in this industry. The production of anthracite coal showed a slight decrease, both when compared with October, 1920, and November, 1919. Crude petroleum production during November decreased when compared with the high production figure for October, 1920, but was considerably greater than the production during November, 1919. Production of pig iron during December showed a decrease of about 8 per cent when compared with November, but was slightly above the production for December, 1919, while steel ingot production during December showed a falling off of about 12 per cent when compared with November. The unfilled orders of the United States Steel Corporation at the close of December showed a decline and were also slightly below the unfilled orders at the close of December, 1919.

Wool consumption during November decreased 28 per cent when compared with October, 1920, and 54 per cent when compared with November, 1919. The percentage of idle woolen machinery on December 1 reflected a further decline in activity in the industry, for an increase was shown for each principal class. Cotton consumption during November showed a further decline, the figure for November being 17 per cent less than for October, 1920, and 32 per cent less than for November, 1919. The number of cotton spindles active during November also showed a further large decrease, both when compared with last month and the same month a year ago. The imports of raw silk continued to decline, being 14 per cent less than the October figure and 73 per cent less than for November, 1919.

Livestock movements.

[Bureau of Markets.]

			Receipts.					Shipments.		
	Cattle and calves, 59 markets.	Hogs, 59 markets.	Sheep, 59 markets.	Horses and mules, 43 markets.	Total, all kinds.	Cattle and calves, 54 markets.	Hogs, 54 markets.	Sheep, 54 markets.	Horses and mules, 43 markets.	Total, all kinds.
1919. November	Head. 2,672,364	Head. 3,718,906	Head. 2,750,900	Head. 140,092	Head. 9,282,262	Head. 1,374,492	Head. 1,308,095	Head. 1,597,007	Head. 134,679	Head. 4,414,273
1920. January. February. March April May June July August September October November	1,542,150 1,766,394 1,870,121	5, 275, 412 3, 423, 992 3, 963, 245 3, 030, 801 4, 234, 022 3, 741, 202 2, 837, 685 2, 516, 240 2, 435, 589 2, 826, 277 3, 862, 243	1,560,051 1,387,111 1,255,490 1,441,072 1,421,009 1,592,450 2,000,758 2,561,661 2,826,693 2,945,7 9 9 2,419,596	138, 541 108, 056 82, 584 48, 036 40, 901 32, 199 35, 668 73, 423 57, 468 38, 657 22, 477	8,842,727 6,387,529 7,104,392 6,062,059 7,462,367 7,235,972 6,531,854 7,103,410 7,599,095 8,007,582 8,708,306	752,605 591,691 570,323 593,362 771,865 789,953 721,328 869,849 1,079,170 1,159,459 1,148,861	1,665,274 1,287,169 1,399,485 1,119,205 1,374,902 1,295,936 1,095,470 953,088 931,261 1,064,175 1,394,347	669, 458 572, 634 483, 550 724, 718 769, 718 768, 172 1, 015, 612 1, 459, 150 1, 581, 680 1, 932, 083 1, 474, 299	138, 145 110, 827 87, 896 47, 998 40, 021 33, 539 37, 152 69, 971 60, 414 37, 994 22, 963	3, 225, 482 2, 562, 321 2, 541, 254 2, 485, 283 2, 956, 506 2, 887, 600 2, 869, 562 3, 352, 058 3, 652, 525 4, 193, 711 4, 040, 470

¹St. Louis no longer considered as having a public stockyard.

Receipts and shipments of live stock at 15 western markets.

[Chicago, Kansas City, Oklahoma City, Omaha, East St. Louis, St. Joseph, St. Paul, Sioux City, Cincinnati, Cleveland, Denver, Fort Worth Indianapolis, Louisville, Wichita.]

RECEIPTS.

[Monthly average, 1911-1913=100.]

	Cattle an	d calves.	He	gs.	She	ep.	Horses ar	nd mules.	Total, a	ll kinds.
	Head.	Relative.	Head.	Relative.	Head.	Relative.	Head.	Relative.	Head.	Relative.
November, 1919	2,038,786	202	2, 659, 251	121	1,742,668	128	83,838	182	6, 524, 543	141
1920. January. February. March April May June July August September October. November	1,040,903 1,209,656 1,290,265	139 110 119 103 128 118 145 172 162 177	3, 912, 449 2, 440, 154 2, 910, 909 2, 150, 281 3, 128, 249 2, 746, 390 2, 115, 639 1, 818, 245 1, 597, 622 1, 836, 748 2, 624, 185	178 115 132 98 142 125 96 83 73 84	1, 035, 591 948, 116 900, 299 928, 191 796, 160 1, 006, 528 1, 301, 458 1, 688, 719 1, 893, 312 1, 865, 330 1, 542, 477	76 72 66 68 58 74 95 124 139 136	90, 022 75, 488 56, 880 31, 235 24, 889 21, 056 26, 257 55, 371 38, 950 24, 716 12, 149	196 170 124 68 54 46 57 120 85 54 26	6, 438, 093 4, 531, 850 5, 071, 587 4, 150, 610 5, 158, 954 5, 064, 239 4, 631, 373 5, 021, 900 5, 265, 893 5, 355, 358 5, 960, 072	139 102 110 90 112 110 100 109 114 116 129
				SHIP	MENTS.					·
November, 1919	993, 148	244	788, 107	163	945, 992	188	78,710	192	2,805,957	195
January. February. March April May June July August September October November	548, 841 427, 608 418, 310 414, 967 515, 062 528, 273 508, 199 640, 295 819, 371 866, 327 810, 284	135 109 103 102 127 130 125 157 202 213 199	1,026,763 814,253 923,526 712,087 822,907 797,946 737,923 627,670 540,812 584,742 784,468	212 174 191 147 170 165 152 130 112 121	403, 382 334, 012 298, 878 373, 381 316, 002 399, 613 614, 557 899, 342 1, 027, 510 1, 192, 912 952, 159	80 69 59 74 63 79 128 179 204 237 189	89, 990 78, 540 61, 625 31, 348 21, 037 22, 363 27, 728 52, 163 40, 890 24, 051 12, 782	219 198 150 76 59 55 68 127 100 59	2,068,976 1,654,413 1,702,339 1,531,783 1,678,008 1,748,195 1,918,407 2,219,470 2,428,583 2,668,032 2,559,693	144 119 119 107 117 122 134 155 169 186

$Shipments\ of\ stockers\ and\ feeders\ from\ 35\ markets.$

	Cattle and calves.	Hogs.	Sheep.	Total, all kinds.		Cattle and calves.	Hogs.	Sheep.	Total, all kinds.
November, 1919. 1920. January. February. March April	346, 430 237, 939 240, 121	88, 994 80, 719 82, 981 104, 962 72, 834	300, 449 140, 219 135, 246 267, 664	727, 598 461, 139 480, 329 583, 494	May June July August September October November	270, 053 217, 292 279, 402 474, 852 573, 136	66, 144 42, 156 25, 826 34, 479 44, 483 59, 155 52, 777	252, 221 226, 696 322, 869 567, 430 789, 773 1,055, 370 855, 545	610, 260 538, 905 565, 987 881, 311 1, 309, 108 1, 687, 661 1, 455, 438

Exports of certain meat products.

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

4	Beef, car	med.	Beef, fre	sh.	Beef, pick and other o		Bacon	•	Hams and ders, cur		Lard.		Pickled p	ork.
	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.
November, 1919. 1920. January. February. March. April May June July. August. September. October November.	847,397 1,606,737 5,976,493	210 163 115 128 243 902 1,024 788 186 37 31 43	15, 694, 002 22, 872, 223 13, 010, 793 6, 036, 166 17, 687, 306 4, 304, 038 12, 526, 669 5, 506, 812 343, 352 1, 984, 543 522, 251 3, 091, 895	1, 265 1, 844 1, 085 487 1, 426 347 1, 010 444 28 158 42 249	2,997,652 1,670,500 1,631,457 2,290,835 2,241,460 3,056,449 2,563,702 2,152,982 1,613,657 1,995,039 1,678,091	83 63 86 84 114 96 74 81 60 75 63	65, 288, 694 77, 501, 002 75, 891, 195 75, 002, 410 24, 356, 349 5, 412, 388 60, 730, 935 31, 562, 761 23, 333, 156 41, 371, 561 40, 338, 768 57, 934, 259	390 463 469 448 145 301 363 188 139 247 298 346	16, 844, 285 13, 905, 923 24, 217, 706 31, 088, 859 15, 640, 236 17, 896, 764 21, 277, 089 8, 385, 089 9, 360, 469 8, 997, 124 8, 787, 853 11, 197, 880	93 168 208 105 120 143 56 63 60 59 75	42, 106, 339 38, 823, 902 36, 644, 906 69, 429, 785 40, 758, 401 55, 544, 483 45, 009, 517 47, 061, 422 31, 020, 802 46, 326, 353 54, 173, 979 57, 316, 309	96 88 86 158 93 126 102 107 71 105 123 130	4, 934, 696 4, 251, 187 3, 710, 308 3, 160, 456 2, 784, 535 3, 816, 157 3, 962, 649 2, 926, 247 2, 257, 511 3, 279, 902 3, 549, 456 2, 605, 431	96 87 71 63 86 90 66 51 74 80 59

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	t.	(Corn	•		Oat	۶.		Rye	.		Barle	y.	1	rotal gr	ain.	Flot	ı r.	Total grai flour	
	Bushels.	Rela- tive.	Bush	els.	Rela- tive.	Bus	nels.	Rela- tive.	Busl	hels.	Rela- tive.	Bus	hels.	Rela- tive.	Bu	ıshels.	Rela- tive.	Bushels	Rela- tive.	Bushels.	Relative.
1	35,729,832	133	14,606	,137	65	17,69	9,925	88	2,579	,579	233	3, 58	2,873	50	74,	198,346	95	3,541,95	181	90, 137, 153	10
February1	25, 074, 624 18, 115, 324 18, 007, 798	70 67	24, 139 26, 051 24, 306	, 855 , 196	120 108	20, 92 20, 57 19, 14	5, 654 9, 624	105 95	4,378 3,263 3,548	3,686 3,739	305 321	$2,47 \\ 2,92$	8, 544 0, 622 8, 440	36 41	70, 67,	816, 813 477, 141 940, 797	94 87	2, 298, 692 2, 059, 421 1, 617, 544	109 83	88, 160, 927 79, 744, 536 75, 219, 745	9 8
May 2 June 2 July 2	15, 260, 236 20, 510, 063 21, 020, 640 29, 714, 399	76 78 110	11,326 12,107 27,251 20,824	, 950 , 166 , 268	54 121 93	12, 95 16, 72 14, 26 18, 73	4,389 0,053 4,180	83 71 93	2, 914 3, 758 3, 177 3, 096	3, 507 7, 770 8, 026	340 287 280	2,69 $2,72$ $2,65$	5, 881 0, 076 1, 367 9, 921	38 38 37	55, 68, 75,	699, 772 790, 985 430, 996 028, 794	72 88 96	1, 913, 078 2, 113, 979 2, 052, 110	98 108 105	48, 697, 676 64, 399, 823 80, 057, 876 84, 263, 289	9 9
September4 October4	13, 039, 021 16, 181, 275 15, 403, 825 19, 272, 827	171 168	9,840 20,696 19,064 11,407	, 955 , 508	92 85	30, 72 31, 03 21, 23 15, 28	1, 569 5, 162	154 105	3, 191 5, 571 4, 455 3, 706	, 428 5, 979	503 403	6, 63 5, 79	7,508 0,056 5,028 8,3 62	92 81	110 95,	806, 700 ,111,283 954, 502 287,717	141 123	$egin{array}{c} 1,949,339 \ 1,843,954 \ 2,137,639 \ 2,054,265 \end{array}$	94	98, 578, 726 118,409,076 105,573,878 85,531,896	13 12

¹ 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) .	Barle	y.	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.	Bushels.	Rela- tive.	Bushels.	Rela- tive.
November, 1919 20	0,627,718	134	6, 612, 129	47	15,588,356	103	3, 110, 541	439	2, 827, 956	73	48,766,700	99	5,741,936	170	74, 605, 412	115
1920. January	4, 114, 215 1, 027, 336	95 71	12, 326, 051 11, 977, 640 11, 165, 894 5, 371, 811	87 79	15, 822, 099 13, 073, 089 14, 243, 957 8, 691, 440	89 94	3, 685, 914 2, 113, 595 3, 062, 530 8, 811, 590	309 433	2,007,718 1,306,340 1,574,887 1,651,509	35 40	51, 355, 869 42, 584, 789 41, 074, 694 35, 584, 903	89 83	4, 140, 314 3, 156, 962 2, 960, 175 1, 702, 132	96 87	69, 987, 282 56, 791, 118 54, 395, 392 43, 244, 497	91 84
May	0, 720, 121 0, 242, 046 9, 002, 099 4, 934, 816	134 131 123 162	5, 939, 145 10, 088, 237 9, 100, 527 6, 260, 144	42 71 64 44	20, 444, 288 12, 805, 056 11, 345, 429 12, 814, 067	135 84 75 84	6, 977, 479 5, 428, 886 4, 476, 238 2, 880, 003	986 767 632 407	1, 488, 387 1, 905, 225 2, 092, 672 2, 231, 851	38 49 54 57	55, 569, 420 50, 469, 450 46, 016, 965 49, 120, 881	112 102 93 99	2, 877, 122 3, 725, 330 3, 767, 678 3, 605, 105	85 91 111 106	68, 516, 469 67, 233, 435 62, 971, 516 65, 343, 854	106 104 97 101
September 26 October 26 November 24	6, 258, 795	170	6,284,075 10,336,378 7,890,500	73	12,690,866 10,601,178 10,729,045	70	4,339,057 4,742,380 2,998,524	670	3, 556, 180 4, 529, 091 4, 249, 954	116	55, 570, 771 56, 467, 822 5),818,794	114	3, 187, 454 3, 758, 735 3, 949, 699	111	69, 914, 314 73, 382, 130 68, 592, 440	114

¹ Flour reduced to its equivalent in wheat on basis of 4½ 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, 1911-19131=100.]

	Whea	ıt.	Corn		Oats	i.	Rye	э.	Barle	ey.	Total gr	ain.	Flou	r.	Total gran	
	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.
November, 1919	9, 152, 534	73	438, 147	12	3, 998, 525	84	1,391,024	979	851,651	51	15, 831, 881	70	1, 552, 796	149	22, 819, 463	83
1920. January. February. March. April May. June July. August. September. October. November.	6, 486, 745 5, 441, 434 10, 621, 723 13, 374, 721 18, 710, 633 28, 098, 022 31, 693, 246 29, 028, 202	40 51 43 84 106 149 223 252 230	1,244,393 1,203,649 1,317,555 767,332 1,878,334 3,305,542 1,576,842	36 34 37 22 53 93 44 41 52	3,646,727 1,546,590 2,382,271 3,194,897 3,499,101 2,671,365	51 77 33 50 67 74 56 65 38	3, 211, 668 4, 119, 986 3, 440, 350 5, 117, 806 6, 506, 053 5, 048, 019 3, 407, 799 4, 133, 465 5, 436, 354	2,338 2,900 2,421 3,602 4,579 3,553 2,398 2,909 3,826		82 78 41 34 72 126 138 109 154	13,807,492 13,001,288 16,757,978 12,430,963 19,445,896 26,145,772 38,601,378 38,043,819 42,168,596 40,696,100 34,736,838	59 74 55 86 115 144 168 186 179	1,561,693 1,102,606 1,752,860 843,916 1,301,211 1,486,365 1,660,849 1,390,077 1,422,872 1,463,830 3,683,380	109 168 81 125 142 159 133 136 140	20, 835, 111 17, 963, 015 24, 645, 848 16, 228, 605 25, 301, 346 32, 834, 415 44, 299, 166 44, 571, 520 47, 283, 335 51, 312, 048	68 90 59 92 120 146 162 177 173

¹ Flour reduced to its equivalent in wheat on basis of 4½ 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.
November, 1919	18,728,730	155, 490	2, 504, 833	1, 264, 494	2,351,012	25,004,55
January 1920. February March April May June July August September October	8, 485, 491 6, 634, 682 6, 280, 682 7, 704, 155 10, 781, 927 8, 492, 819 11, 923, 745 13, 915, 892 15, 517, 070 17, 277, 003	711, 501 948, 239 851, 287 967, 475 437, 521 459, 568 744, 167 1, 097, 945 1, 146, 514 1, 292, 818	2, 398, 639 1, 571, 209 1, 351, 457 389, 958 819, 790 901, 756 1, 323, 940 1, 532, 272 2, 398, 157 2, 521, 049 2, 327, 249	2, 397, 156 2, 671, 743 2, 389, 321 1, 944, 350 1, 889, 965 2, 035, 334 1, 275, 554 777, 445 2, 414, 910 1, 742, 178	2,587,543 2,340,787 1,891,862 2,034,983 1,071,920 1,193,082 3,187,611 4,052,189 4,110,158 3,577,450	16, 580, 330 14, 166, 666 12, 764, 600 13, 040, 92 15, 001, 12: 13, 082, 58 18, 455, 01' 21, 375, 74: 25, 586, 800 26, 410, 49: 26, 497, 31'

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	eipts.	Port rece	eipts.	Overland ment		American s taking		Stocks at p interior t close of n	owns at
	Bales.	Rela- tive.	Bales.	Rela- tive.	Bales.	Rela- tive.	Bales.	Rela- tive.	Bales.	Rela- tive.
August	632,902 1,835,273 2,445,698 2,218,773 1,583,473 1,050,964 796,632 552,943	26 50 146 195 177 126 87 64 44 29	238, 271 260, 698 1, 029, 331 1, 178, 443 1, 069, 693 982, 030 725, 515 621, 808 499, 187 289, 809	26 28 112 128 116 107 82 68 54 32	49,630 26,138 110,202 245,237 242,940 205,233 138,084 108,573 48,565 57,661	47 25 105 233 231 195 136 103 46 55	302, 238 300, 001 621, 784 1, 155, 324 1, 214, 337 793, 453 374, 093 270, 269 276, 805 214, 678	67 66 137 254 267 175 85 59 61 47	1, 412, 048 1, 501, 805 2, 340, 881 2, 616, 383 2, 765, 040 2, 470, 496 2, 510, 482 2, 276, 737 2, 148, 038 1, 913, 407	120 127 199 222 235 210 213 193 182 162
Season total	12,432,856	83	7, 299, 667	66	1,674,828	133	6,365,990	117	1,461,000	124
August 1920–21. September October November	771,590 1,470,426	25 62 117 143	159, 586 443, 149 971, 334 1, 075, 803	17 48 106 117	25,322 17,324 87,215 87,510	24 16 83 83	251, 841 254, 460 395, 165 144, 571	55 56 87 32	1, 365, 397 1, 607, 602 2, 101, 839 2, 597, 820	116 136 178 220

California shipments of citrus and deciduous fruits.

[October, 1920 on, California Fruit News and Bureau of Markets.]

[1911-1913=100.]

	Orai	nges.	Len	ions.	Totalcit	rus fruits.	- Total deciduous fruits.
	Carloads.	Relative.	Carloads.	Relative.	Carloads.	Relative.	Carloads.
November, 1919.	3,257	133	442	109	3,699	130	2,141
January. 1920. February. March. April. May. June July. August. September October. November	2,683 4,715 3,720 5,048 3,294 2,822	100 114 193 152 206 135 115 70 58 31 66	630 852 651 508 1,353 1,576 664 751 464 925 377	156 218 161 125 334 389 164 185 115 228 93	3,087 3,535 5,366 4,228 6,401 4,870 3,486 2,458 1,873 1,677 1,979	108 128 188 148 225 171 122 86 66 59 69	123 139 155 22 24 1, 263 3, 179 7, 239 9, 021 11, 880 2, 792

Sugar.

$[{\tt Data} \ {\tt for} \ {\tt ports} \ {\tt of} \ {\tt New} \ {\tt York}, \ {\tt Boston}, \ {\tt Philadelphia}.]$

[Weekly Statistical Sugar Trade Journal.]

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

	Recei	pts. Meltings.		Raw sto			Recei	pts.	Melti	ngs.	Raw sto		
	Tons.	Rela- tive.	Tons.	Rela- tive.	Tons.	Rela- tive.		Tons.	Rela- tive.	Tons.	Rela- tive.	Tons.	Rela- tive.
November, 1919 1920. January February. March April	208,554	84 113 178 182 169	177,000 181,000 269,000 333,000 307,000	96 99 152 182 167	40,855 37,986 85,653 88,185 91,765	24 22 50 51 53	1920, May June July August September October November	254,616 301,318 386,328 308,313 109,302 109,335 186,274	138 164 210 168 59 59 101	286,000 319,000 325,000 287,000 164,000 118,000 179,000	156 174 177 156 89 64 98	60,381 42,699 104,027 125,340 70,642 61,977 69,251	35 25 60 73 41 36 40

Naval stores.

[Data for Savannah, Jacksonville, and Pensacola.]

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

[In barrels.]

	Spirits of turpentine.		Rosin.			Spirits of t	urpentine.	Rosin.	
	Receipts.	Stocks at close of month.	Receipts.	Stocks at close of month.		Receipts.	Stocks at close of month.	Receipts.	Stocks at close of month.
November, 1919 1920. January February March April May	1,876	28,741 24,910 17,900 4,819 3,996 6,174	77, 125 47, 874 29, 303 14, 660 27, 029 68, 163	204, 281 165, 927 140, 559 103, 443 98, 517 78, 113	June. July. August. September October November	$33,997 \\ 32,162$	19,654 30,906 27,963 44,396 49,885 49,209	94,904 117,088 111,497 97,797 88,766 83,177	108,656 135,979 144,109 176,612 195,837 247,253

Lumber.

[From reports of manufacturers' associations.]

[M feet.]

	s	Southern pine.		1	Western p	ine.		Douglas	fir.	Eas	tern whit	e pine.	Nor	th Carolir	ıa pine.
	Num- ber of mills.	riouuc-	Ship- ments.	Num- ber of mills.	Produc- tion.	Ship- ments.	Num- ber of mills.	Frouuc-	Ship- ments.	Num- ber of mills.	Produc- tion.	Ship- ments.	Num- ber of mills.	Produc- tion.	Ship- ments.
November, 1919	202	391,347	344,717	51	110,525	117,472	126	324,511	241,301	11	2,786	21,596	31	24,925	26,926
1920. January. February. March. April. May June July August. September October. November	203	386, 481 383, 239 436, 944 438, 056 430, 271 385, 293 385, 842 383, 540 376, 566 344, 427 315, 343	404,706 369,047 424,775 359,461 347,404 287,487 331,273 337,677 378,195 329,751 320,756	53 51 50 51 51 52 49 50 49 49 52	69, 895 85, 583 130, 425 167, 165 183, 621 197, 461 177, 262 171, 143 164, 312 146, 424 107, 846	144,180 147,180 156,211 133,114 132,181 125,770 103,500 123,344 98,806 69,936 60,259	128 124 123 126 124 127 127 123 127 120 123	327, 568 332, 511 342, 948 359, 651 424, 687 343, 801 242, 612 366, 433 299, 277 355, 614 263, 452	344,568 295,934 329,012 274,597 383,346 271,815 225,666 322,908 238,965 299,704 212,226	21 21 21 21 20 20 20 20 20 19 19	38,007 32,551 43,771 46,222 12,731 25,771 37,459 46,149 48,962 40,124 20,295	63,614 59,687 61,620 61,757 26,323 41,557 49,668 55,991 45,445 30,928 19,751	25 15 24 13 14 12 20 19 20 24 24	24,678 15,534 29,633 13,659 15,992 14,259 20,756 19,511 21,887 19,487 14,617	26, 283 15, 202 29, 896 10, 613 18, 657 10, 481 15, 217 14, 130 16, 043 14, 877 12, 929

Receipts and shipments of lumber at Chicago and St. Louis.

[Chicago Board of Trade and Merchants' Exchange of St. Louis.]

[Monthly average, 1911-1913=100.]

	Receipts.		Shipments.			Receipts.		Shipments.	
	M feet.	Relative.	M feet.	Relative.		M feet.	Relative.	M feet.	Relative.
December, 1919	445, 226	96	245, 477	97	June	393,738 399,615	85 86	212,339 184,767	84 73
January February March	421,692 $500,230$	87 94 108	219,783 224,286 296,047	87 91 117		370, 352 375, 456 398, 333	80 81 86	220,368 242,857 220,116	87 96 87
April May	236, 975 313, 447	51 67	131,933 195,965	52 77	November	342,971 351,695	74 76	190, 282 192, 072	75 76

Coal and coke.

[U.S. Geological Survey.]

[Monthly average, 1911-1913=100.]

	Bituminous c mated mont duction.	oal, esti- hly pro-	Anthracite co mated mont duction. ¹	oal, esti- thly pro-	Beehive coke, monthly proc	estimated luction.
	Short tons.	Relative.	Short tons.	Relative.	Short tons.	Relative.
November, 1919.	18,688,000	50	7,870,000	106	1,647,000	63
1920.						Į
January	48,689,000 40,127,000 46,792,000 37,939,000 39,753,000	131	7,495,000	101	1,982,000 1,783,000 2,025,000	76
February	40,127,000	112	6,447,000 7,973,000	90	1,783,000	68
March	46,792,000	126	7,973,000	108 85	2,025,000	77 61
April	37,939,000	102 107	6,316,000 8,077,000	109	1,602,167 1,689,500	65
May June	42 710 000	118	8,292,000	112	1,710,333	65
July		123	8,382,000	113	1,693,000	65
August	48, 389, 000	131	8,145,000	110	1,776,000	68
September	51,093,000	138	4,714,000	64	1,820,000	70
October	50,744,000	137	8, 188, 000	111	2,065,000	79
November.	51,012,000	138	7,519,000	102	1,622,000	62
	, , .		, ,	ļ	, ,	ļ

¹ Revised figures.

 ${\it Crude\ petroleum.}$

[U.S. Geological Survey.]

[Barrels of 42 gallons each.]

	Produc	ced.	Stocks at end		Produc	ed.	Stocks at end of month
	Barrels.	Relative.	(harrola)		Barrels.	Relative.	(hannola)
November, 1919	33,980,000	168 177 179 190 189 193	131,601,000 127,164,000 126,339,000 125,597,000 124,991,000 124,689,000	1920. June. July. August. September October. November	37, 295, 000 38, 548, 000 39, 397, 000 37, 889, 000 39, 924, 000 39, 090, 000	195 201 206 198 208 204	126, 763, 000 128, 168, 000 129, 043, 000 128, 788, 000 129, 451, 000 131, 694, 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).
Oct. 31, 1919	33,682,968	363, 456, 747	227, 104, 346	680, 158, 446	78,658,410
January. February. March. April. May. June. July August. September. October.	29, 208, 723 33, 592, 004 32, 852, 010 34, 578, 282 34, 906, 078 37, 024, 052 39, 757, 770	336, 719, 157 322, 588, 697 367, 137, 678 355, 597, 451 381, 079, 291 415, 158, 911 423, 419, 770 444, 141, 422 453, 881, 096 465, 787, 745	195, 956, 392 194, 523, 334 191, 110, 175 184, 469, 017 180, 877, 089 173, 581, 000 172, 213, 511 189, 010, 459 199, 140, 024 213, 742, 156	589, 684, 857 686, 945, 963 643, 088, 785 707, 198, 355 689, 878, 061 751, 193, 898 834, 322, 503 836, 700, 086	75, 878, 635 74, 213, 073 81, 818, 973 85, 558, 064 89, 252, 410 94, 964, 222 92, 369, 504 91, 078, 569 86, 230, 371 93, 229, 723

STOCKS AT CLOSE OF MONTH.

Oct. 31. 1919.	14,091,945	354, 160, 071	329, 160, 795	828, 574, 452	152,536,736
Jan. 31 1920. Feb. 29 1920. Mar. 31 1920. Apr. 30 1920. May 31 1920. June 30 1920. July 31 1920. Aug. 31 1920. Sept. 30 1920.	14,346,458 15,145,691 15,331,375	515, 934, 364 562, 996, 489 626, 393, 046 643, 552, 644 577, 671, 795 504, 055, 601 413, 279, 319 323, 239, 91 288, 195, 394 301, 283, 731	327, 548, 646 330, 120, 942 334, 617, 117 376, 358, 123 419, 077, 605 421, 343, 353 410, 853, 047 378, 548, 791 379, 300, 705 383, 828, 239	652,080,901 590,322,125 580,182,858 590,687,009 618,939,135 641,968,363 655,152,293 708,608,472 771,126,965 799,024,084	141, 690, 177 132, 759, 244 130, 630, 597 140, 355, 972 135, 882, 485 133, 212, 551 131, 866, 455 130, 797, 810

Iron and steel.

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

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

	Iron-ore shipments from the upper Lakes.		from the upper		Pig-iron production.		Steel-ingo tio		Unfilled orders U. S. Steel Corporation at close of month.	
	Gross tons.	Relative.	Gross tons.	Relative.	Gross tons.	Relative.	Gross tons.	Relative.		
November, 1919. December, 1919.	3, 152, 319	52	2,392,350 2,633,268	103 114			7, 128, 330 8, 265, 366	135 157		
January. February. March. April. May. June. July. August. September. October. November. December.	230, 854 6, 976, 085 9, 233, 566 9, 638, 606 9, 270, 763 8, 923, 482 8, 848, 986 5, 305, 738		2,978,879 3,375,907	130 133 146 118 129 131 132 136 135 142 127	2, 968, 102 2, 865, 124 3, 299, 049 2, 638, 305 2, 883, 164 2, 980, 690 2, 802, 818 3, 000, 432 2, 999, 551 3, 015, 982 2, 638, 670 2, 340, 365	127 127 141 113 123 127 120 128 128 128 129 113	9,285,441 9,502,081 9,892,075 10,359,747 10,940,466 10,978,817 11,118,468 10,805,038 10,374,804 9,836,852 9,021,481 8,148,122	176 180 188 197 208 208 211 205 197 187 171 155		

Imports of pig tin.

[Department of Commerce.]

[Monthly average, 1911-1913=100.]

	Pounds.	Relative.		Pounds.	Relative.
November, 1919	15, 233, 671 8, 772, 953 13, 925, 843 11, 980, 019 10, 345, 130 9, 102, 341	97	1920. June 1919. August September October November	11, 232, 325 17, 584, 167 11, 195, 937 9, 596, 819 6, 741, 331 9,550, 535	124 193 123 106 74 105

Raw stocks of hides and skins.

[Bureau of Markets; July, 1920, on, Bureau of the Census.]

[In pieces.]

	Cattle hides.	Calfskins.	Kipskins.	Goat.	Kid.	Cabretta.	Sheep and lamb.
Oct. 31, 1919	6, 436, 765	2,007,208	1,097,039	15, 302, 942	2, 239, 604	2, 574, 499	10, 122, 930
Jan. 31. Feb. 29. Mar. 31. Apr. 30. May 31. June 30. Sept. 30. Oct. 31.	6, 773, 360 6, 559, 337 6, 558, 300 6, 072, 895 5, 849, 375 6, 212, 946 5, 926, 708 6, 770, 509	1, 920, 184 1, 859, 697 1, 930, 218 2, 281, 370 2, 724, 056 3, 107, 393 3, 542, 388 3, 850, 183	1,036,372 1,141,620 966,850 834,711 924,042 915,499 1,083,193 1,377,998	13,474,529 16,481,328 15,968,660 14,666,590 14,131,330 14,562,713 113,408,277 112,147,070	927, 436 665, 524 468, 188 156, 871 791, 150 60, 999	1,893,614 2,197,683 2,047,519 1,947,499 2,253,785 2,070,471 2,197,149 2,104,133	8,902,067 9,460,914 9,227,252 8,911,681 9,004,621 10,993,228 11,235,417 13,626,4 06

¹ Kid skins included.

Textiles.

[Silk, Department of Commerce; cotton and idle wool machinery, Bureau of the Census; wool consumption, Bureau of Markets.]

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

ļ		onsump-			Percenta	ge of idle		machine reported	of month	Imports of raw silk.		
	£10	on.	Cotton spindles active	Wool con- sumption	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.
November, 1919.	491,250	109	34,499,755	52,428,854	14.8	18.2	7.6	5.3	6.7	6.7	4,841,407	237
January. February. March. April. May. June. July. August. September. October. November. December.	591, 725 516, 594 575, 704 567, 839 541, 080 555, 521 525, 405 483, 193 457, 647 399, 837 332, 057	132 119 128 126 120 124 117 107 102 89 74	34,739,071 34,668,643 34,667,747 34,346,737 34,066,236 34,503,754 34,666,842 34,471,515 34,040,806 33,669,804 31,654,126	63,059,862 55,247,652 58,344,602 57,887,832 50,649,381 40,679,920 32,372,064 32,849,956 30,928,337 33,703,523 24,150,141	14.5 12.2 14.9 13.1 15.2 26.8 42.5 49.5 51.8 49.0 46.9 51.2	18.5 17.6 19.8 16.9 18.2 22.4 32.3 29.9 34.8 34.9 37.7 44.8	8.8 7.6 9.8 9.6 10.6 21.1 38.0 39.6 39.6 38.3 39.5 50.3	7. 2 6. 9 7. 0 7. 1 6. 7 15. 9 35. 0 33. 4 37. 3 26. 3 32. 8 41. 4	9.1 7.1 10.3 9.5 11.5 23.1 42.0 45.5 44.6 43.2 42.8 51.7	10. 2 7. 9 11. 7 7. 0 7. 0 14. 2 32. 7 37. 6 38. 0 26. 0 34. 8 42. 7	4,855,989 3,996,121 2,491,651 2,227,857 2,505,798 3,221,177 2,581,920 2,690,690 1,668,801 1,531,850 1,319,995	237 187 122 109 122 157 126 132 96 75

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.
February March	302, 541 266, 191 327, 143	129,663 114,235 127,847	96,419	211, 934 176, 855 207, 863	70, 109 61, 574 68, 403 75, 347	32,886 29,202 33,671	June. July. August. September. October.	337,115 312,334 305,965 293,913 319,877	128,818 121,005	94,957 95,526 94,424 94,142 93,849	215, 131 218, 771	70,511 72,987 73,487 75,226 70,917 73,100 65,920	31,575 34,121 34,078 33,122 34,207 34,526 31,208

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

	Cig	ars.	Cigarettes.	Manu-		Cig	ars.	Cigarettes.	Manu-
	Large,	Small.	Small.	factured tobacco.		Large.	Small.	Small.	factured tobacco.
November, 1919	Number, 655, 421, 893	Number. 56, 080, 813	Number. 4,768,598,203	Pounds. 32,965,088	June	Number. 676, 227, 828 708, 112, 284 678, 751, 956	Number. 59, 943, 280 52, 735, 587 51, 766, 100	Number. 3, 953, 345, 380 4, 088, 834, 583 3, 053, 336, 563	Pounds. 34,875,839 34,231,058 30,988,646
	753, 239, 958	43, 358, 500	4,528,760,833 3,536,117,847 4,373,778,917 3,756,989,397	38, 422, 481	August September	672,020,289 678,640,116 704,799,089	48,171,240 50,175,580 60,882,760	3, 569, 397, 443 3, 557, 482, 503 3, 840, 334, 806 3, 529, 200, 006	32, 138, 941 32, 094, 569 27, 123, 774 18, 513, 654

Output of locomotives and cars.

[Locomotives, United States Railroad Administration; February on, reports from individual producers; cars, Railway Car Manufacturers Association.]

-	Locom	otives.	Ot	itput of ca	rs.		Locom	otives.	Output of cars.			
	Domes- tic shipped.	Foreign com- pleted.	Domes- tic.	Foreign.	Total.		Domes- tic shipped.	Foreign com- pleted.	Domes- tic.	Foreign.	Total.	
November, 1919 1920. January February March April	Number. 39 48 43 45 36	Number. 23 22 85 59 96	Number. 8,967 4,650 3,960 3,053 2,313	Number. 2,622 1,914 1,066 2,040 1,934	Number. 11,589 6,564 5,026 5,093 4,247	1920. May Jume. July August. September. October. November.	99	Number. 112 72 54 125 69 106 73	Number. 2, 792 2, 780 2, 731 3, 409 3, 955 6, 309 6, 243	Number. 1,402 731 434 1,210 1,203 684 985	Number. 4, 194 3, 511 3, 165 4, 619 5, 058 6, 993 7, 228	

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.
November, 1919	115 140 170	347,051 253,680 267,231 279,709 251,442 185,145	1,436 1,050 1,144 1,157 1,040 776	1920. June. July. August. September. October. November	1/8	267,076 217,239 259,210 261,962 227,162 213,966	1,105 899 1,073 1,084 940 885

Tonnage of vessels cleared in the foreign trade.

[Department of Commerce.]

[Monthly average, 1911-1913=100.]

	Net tonnage.		·.		Per- cent-				Net tonnage		Per- cent-		
	American.	Foreign.	Total.	Rela- tive.	Ameri- can to total.	Rela- tive.		American.	Foreign.	Total.	Rela- tive.	age Ameri- can to total.	Rela- tive.
November, 1919.	2,251,871	1,910,489	4,162,360	107	54.1	214	1920. June July	3, 199, 274 3, 302, 538	3,141,913 3,616,052	6,341,187 6,918,590	163 178	50. 5 47. 7	20 0 189
January February March April May	1,702,407 2,040,031 2,504,038	1,949,798 1,628,212 2,040,538 1,960,634 2,436,247	3,883,183 3,330,619 4,080,569 4,464,672 5,166,037	100 89 105 115 133	49. 8 51. 1 50. 0 56. 1 52. 8	197 202 198 222 209	August	3,616,267 3,421,531	3,929,602 3,513,599 3,756,512 2,868,294	7,545,869 6,935,130 7,256,824 6,170,661	194 178 187 159	47.9 49.3 48.2 53.5	190 195 191 212

Net ton-miles, revenue and nonrevenue.

[United States Railroad Administration; March, 1920, on, Interstate Commerce Commission.]

October, 1919.	40,343,750,000	May	37 884 967 000
February. March	34,769,722,000 32,758,789,000 37,990,993,000	June July. August. September. October.	40,435,508,000 42,706,835,000 40,999,843,000

Commerce of canals at Sault Ste. Marie.

$[Monthly\ average,\ May-November,\ 1911-1913{=\!\!\!=}100.]$

EASTBOUND.

·	Grain other than wheat.		Wheat.		Flour.		Iron ore.		Total.	
	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Barrels.	Rela- tive.	Short tons.	Rela- tive.	Short tons.	Rela- tive.
November, 1919	8, 654, 903 4, 183, 727	97	17,388,391 7,807,045	90	1,402,260 430,090	121	3, 299, 532 40, 880	56	4,201,881 409,576	60
April May June July August September October November December	6,008,000 11,904,942 3,076,986 3,133,419 2,315,909 3,102,770 7,198,311 9,921,968 4,967,830	134 35 35 26 35 81 111	4, 274, 611 13, 497, 995 5, 976, 125 7, 838, 470 7, 512, 510 11, 624, 488 28, 470, 696 37, 236, 311 27, 025, 281	70 31 41 39 60 148 193	658, 910 1, 082, 521 1, 171, 250 1, 038, 221 621, 010 1, 142, 991 1, 317, 800 444, 830	57 93 101 89 53 98 114	162,630 6,683,820 8,707,350 9,235,086 8,784,821 8,721,412 8,656,823 5,553,173 137,564	113 146 156 148 147 146 94	454,726 7,483,836 9,153,884 9,749,701 9,278,071 9,990,129 9,876,641 7,065,488 1,111,527	107 131 139 132 133 141 101

WESTBOUND.

	Hard co	al.	Soft coa	ıl.	Total	,	Totalfreight.	
	Short tons.	Rela- tive.	Short tons.	Rela- tive.	Short tons.	Rela- tive.	Short tons.	Rela- tive.
November, 1919	466, 135 69, 143	150	307, 241	16	932, 615 89, 616	37	5, 134, 496 499, 192	54
April. 1920. May June. July August September. October November December	202,000 271,020 300,150 341,690 177,123 376,388	65 87 97 110 57 121 106	50,831 531,375 966,382 1,294,162 2,533,614 2,040,774 2,493,907 1,869,723 316,225	28 50 67 132 106 130 97	82, 483 937, 374 1, 493, 935 1, 827, 978 3, 147, 219 2, 458, 002 3, 123, 658 2, 354, 092 393, 752	38 60 73 127 99 126 95	537, 209 8, 421, 210 10, 647, 819 11, 577, 679 12, 425, 290 11, 748, 131 13, 000, 299 9, 419, 580 1, 505, 279	89 112 122 131 124 137 99

BANK DEBITS DURING NOVEMBER-DECEMBER.

Aggregate debits to individual account, as reported by banks in 151 important clearing house centers, fluctuated between 8,112 millions for the week ending December 1 and 9,821 millions for the week ending December 22, which saw the collection of a large amount of checks in payment of the December 15 installment of income and excess profits taxes. The comparatively low total for the week ending December 29 is due to the fact that it includes Christmas Day, a legal holiday throughout the country. On the basis of daily averages, the most recent week, with its large volume of checks used in shopping and found in the lower level of prices prevailing for holiday bonuses, shows even larger figures than the preceding week, the respective aver- closing weeks of the preceding year. ages being 1,700 and 1,637 millions.

A comparison with average figures for the corresponding five weeks in 1919 shows a reduction for New York City banks from 5,376 to 4,684 millions, or of about 692 millions, or 13 per cent, while for the other reporting centers the reduction was from 4,495 to 4,170 millions, amounting to 325 millions, or 7 per cent. The lower figures for New York City are due to a number of causes, including the new arrangements which reduce the volume of checks in payment for stock exchange transactions, while outside of New York the dominant factor in causing the smaller volume of debits is to be during the review period as compared with the

Debits to individual accounts at clearing-house banks. SUMMARY BY FEDERAL RESERVE DISTRICTS.

Federal Reserve	Num- ber of centers		w	1920 eek ending-	_		1919 Week ending				
district. in- cluded.		Dec. 1.	Dec. 8.	Dec. 15.	Dec. 22.	Dec. 29.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.
Boston New York. Philadelphia Cleveland Richmond Atlanta Chicago St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	7 11 13 7 15 22 5 11	424, 841 4, 258, 091 400, 860 348, 007 166, 108 216, 630 1, 016, 353 206, 312 162, 473 274, 860 141, 043 496, 382	410, 923 4, 525, 760 404, 435 355, 804 189, 027 217, 908 1, 014, 228 201, 897 180, 564 285, 067 158, 953 532, 273	464, 772 5, 132, 517 446, 929 389, 401 189, 900 209, 082 1, 108, 322 218, 492 177, 863 285, 013 156, 047 581, 755	501,014 5,399,147 481,723 417,921 187,682 228,450 1,172,768 231,154 163,227 284,820 164,146 589,336	391, 415 4, 850, 958 418, 498 363, 449 157, 142 190, 365 945, 248 184, 953 132, 211 241, 251 139, 439 484, 528	506, 278 5, 188, 330 389, 563 374, 279 190, 949 272, 349 1, 041, 919 242, 906 172, 184 304, 887 164, 145 525, 822	480, 698 5, 203, 366 399, 703 346, 967 196, 189 273, 537 1, 014, 661 232, 753 176, 347 304, 442 164, 665 523, 945	603,841 5,944,982 496,030 450,475 215,175 293,870 1,223,778 274,129 183,277 336,126 173,393 616,165	541, 096 5, 740, 489 432, 089 382, 574 196, 557 277, 098 1, 189, 581 253, 535 181, 741 329, 404 169, 831 548, 043	509, 013 5, 530, 184 409, 245 398, 007 180, 825 236, 855 1,005, 826 229, 282 161, 807 286, 538 169, 136 492, 678
Total	151	8, 111, 960	8, 476, 839	9, 360, 093	9, 821, 388	8, 499, 457	9, 373, 611	9, 317, 273	10, 811, 241	10, 242, 038	9, 609, 44

Note.—Figures for the following centers while shown in the body of the statement, are not included in the summary, complete data for these centers not being available for each week under review: Manchester, N. H.; Sioux Falls, S. Dak.; Huntington, W. Va.; Moline, Ill.; Washington, D. C.; Pittsburgh, Pa.; Reading, Pa.; Harrisburg, Pa.; Springfield, Ill.; Atchison, Kans.; Shreveport, La.

$Debits\ to\ individual\ accounts\ at\ clearing\mbox{-}house\ banks\mbox{--}Continued.$

DATA FOR EACH REPORTING CENTER.

		v	1920 Veek ending				w	1919 eek ending-	_	
Federal Reserve district.	Dec. 1.	Dec. 8.	Dec. 15.	Dec. 22.	Dec. 29.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.
District No. 1—Boston: Bangor. Boston. Fall River. Hartford. Holyoke. Lowell.	3, 242 275, 931 5, 788 24, 443 3, 622 5, 142 4, 462	4, 918 261, 079 6, 287 23, 908 3, 588 5, 170	3,678 306,849 7,550 24,889 3,592 5,089 6,258	4,279 318,997 8,375 27,189 3,951 6,154	3,748 256,944 6,493 21,167 3,062 4,509	2, 926 348, 011 10, 166 24, 058 2, 945 5, 969	3,299 321,572 9,916 21,503 3,745 5,498	3,359 407,148 12,493 27,527 4,097 7,826	3,072 363,354 11,987 21,053 3,917 8,705	2,903 342,182 9,864 21,281 3,869 6,822
Manchester New Bedford New Haven Portland Providence Springfield Waterbury Worcester District No. 2—New York:	5, 122 17, 845 8, 594 36, 303 15, 027 6, 909 16, 873	6,699 5,897 18,551 10,198 33,563 14,419 6,961 16,384	6,258 6,932 18,927 9,248 37,973 14,361 7,289 18,395	4,900 6,859 21,313 9,731 44,771 17,818 10,889 20,688	4,143 4,719 15,434 7,176 32,434 14,056 6,952 14,721	9,787 16,503 8,889 36,918 17,213 6,740 16,153	9, 445 17, 558 7, 736 38, 201 17, 006 8, 949 16, 270	12,359 19,489 8,857 51,310 18,029 9,143 22,204	9,041 18,444 6,013 46,916 19,149 8,159 21,286	7,603 16,130 7,206 49,463 17,077 6,903 17,710
Albany. Binghamton Buffalo. New York Passalc. Rochester Syracuse. District No. 3—Philadelphia: Altoona	28, 871	22,787 3,975 66,263 4,377,423 4,630 34,644 16,038	17,749 4,147 74,086 4,979,311 5,382 34,270 17,572	25,134 5,036 79,088 5,226,247 5,843 38,112 19,687	20, 208 3, 638 62, 361 4, 713, 837 3, 967 33, 959 12, 988	19,324 3,698 66,619 5,046,831 5,169 31,657 15,032	19, 267 3, 882 60, 403 5, 068, 752 5, 435 30, 742 14, 885	26, 105 4, 385 73, 321 5, 784, 012 6, 729 33, 796 16, 634	23,555 4,007 67,011 5,590,623 6,622 31,124 17,547	19,860 3,582 67,075 5,388,508 5,356 29,046 16,762
Chester Harrisburg Johnstown Laneaster Philadelphia Reading Scranton Trenton Wilkes-Barre Williamsport Wilmington York	4,585 2,000 4,998 5,396 330,573 3,148 14,288 11,472 8,359 3,672 10,086 4,083	3,317 4,778 4,944 4,974 334,332 11,500 7,900 4,868 8,608 4,342	3,939 5,355 5,966 5,573 367,788 15,586 11,843 9,631 6,190 10,556 4,502	3,762 5,949 6,229 5,587 392,833 17,167 18,032 8,944 5,824 12,172 5,224	3,681 4,355 5,994 4,005 344,958 6,575 15,016 11,117 9,154 4,384 12,621 3,610	3,155 4,989 3,900 3,089 4,872 323,616 4,223 13,295 11,191 7,510 3,366 10,730 3,750	3,151 4,878 3,935 5,046 332,631 4,410 14,225 12,118 7,671 3,484 9,867 3,617	3,319 5,213 4,871 2,999 5,479 420,652 5,697 12,130 13,446 8,993 4,068 14,728 5,003	3,106 5,137 3,347 3,189 5,301 360,100 4,355 15,356 12,572 7,124 4,065 11,809 4,330	2, 812 3, 976 3, 500 2, 694 4, 786 345, 200 4, 433 12, 426 12, 440 8, 473 3, 504 9, 257 3, 680
District No. 4—Cleveland: Akron Cincinnati. Cleveland. Columbus. Dayton. Erie. Greensburg. Lexington. Oil City. Pittsburgh. Springfield. Toledo. Wheeling. Youngstown. District No. 5—Richmond: Baltimore.	16,055 57,977 151,807 29,082 11,874 7,317 7,243 4,103 3,318 204,255 2,853 27,950 10,550 17,878	16,790 57,306 160,169 31,302 11,136 7,948 5,088 4,167 4,111 201,018 3,581 30,442 9,536 14,228	17,648 71,323 174,879 34,323 7,572 8,138 6,128 4,575 4,891 234,825 3,909 28,532 11,710 15,773	18,020 70,907 192,633 36,234 11,783 8,664 4,516 3,933 3,974 33,895 10,665 15,757	13, 898 69, 720 165, 053 32, 350 10, 817 7, 056 5, 819 4, 049 2, 754 220, 437 3, 196 25, 907 9, 052 13, 778	24, 323 56, 151 177, 779 29, 292 12, 842 6, 571 5, 878 4, 806 1, 722 169, 551 2, 914 30, 534 10, 445 11, 022	21, 817 56, 127 154, 746 28, 659 11, 631 6, 534 4, 250 8, 238 2, 837 173, 742 3, 663 28, 191 8, 748 11, 526	27, 320 83, 193 203, 261 32, 736 12, 756 8, 187 5, 893 11, 876 3, 992 189, 718 3, 4795 8, 848 8, 848 13, 671	28,074 61,295 175,453 27,562 10,948 8,015 4,672 10,967 2,898 211,964 3,574 29,893 6,275 12,948	22, 364 77, 276 186, 198 31, 240 11, 674 5, 864 1, 675 7, 093 2, 464 195, 539 4, 212 27, 327 7, 751 12, 869
District No. 5—Richmond: Baltimore Charleston Charleston Charlotte Columbia Huntington Norfolk Raleigh Richmond Washington District No. 6—Atlanta:	7,800	110, 435 5, 203 6, 886 5, 696 6, 282 23, 017 4, 900 32, 890 37, 615	112, 972 6, 409 6, 753 5, 448 6, 156 19, 959 5, 000 33, 359 41, 490	115, 380 6, 459 6, 866 5, 354 7, 462 16 922 5, 050 31, 651 40, 137	97,068 5,593 5,660 4,436 5,182 14,464 5,030 24,891 31,582	100, 162 12, 486 8, 625 9, 140 22, 103 6, 100 32, 333	99, 921 11, 137 9, 088 9, 958 22, 582 5, 800 37, 703	120, 953 10, 489 8, 237 8, 162 23, 421 5, 800 38, 113	106, 626 10, 701 9, 423 8, 385 22, 745 4, 800 33, 877	103,898 10,701 7,929 7,246 16,943 5,800 28,308
District No. 6—Atlanta; Atlanta Augusta. Birmingham Chattanooga. Jacksonville Knoxville Macon Mobile Montgomery Nashville New Orleans Pensacola Sayannah Tampa Vicksburg District No. 7—Chicago: Bay City Bloomington	6,279 17,391 9,458 11,044 8,795	24,961 6,749 17,112 11,276 14,131 7,110 4,697 7,787 4,152 21,799 75,594 1,867 12,454 6,593 1,716	28, 649 6, 933 17, 048 10, 944 12, 610 6, 427 5, 254 4, 440 21, 547 66, 162 1, 948 14, 315 6, 079 1, 583	28, 908 7, 202 20, 039 11, 911 13, 844 7, 271 5, 758 8, 024 4, 526 21, 203 76, 606 1, 952 13, 511 6, 143 1, 552	22, 349 5,079 14, 258 8, 602 10, 393 5, 417 3, 898 6, 439 2, 972 19, 248 74, 078 1, 377 10, 646 4, 266 1, 343	34,980 11,883 15,297 12,436 12,867 7,141 7,977 9,134 6,018 23,116 96,611 2,166 23,874 6,442 2,407	34,882 12,149 14,918 12,864 13,615 5,877 9,849 8,644 5,622 96,327 2,448 22,233 6,375 1,934	39,949 12,184 16,186 13,373 12,373 7,371 8,790 8,570 5,672 26,718 106,115 2,494 26,117 5,900 2,058	36,090 11,616 18,328 13,176 12,618 6,627 9,742 7,819 5,665 27,034 90,463 2,003 27,452 6,552 1,913	32, 309 8, 895 14, 452 10, 485 12, 581 6, 313 6, 315 7, 363 5, 330 21, 905 81, 042 1, 939 21, 275 4, 935 1, 716
Bay City Bloomington Cedar Rajids Chicago Davenjort Decatur Des Moines Detroit Dubuque	3,770 2,593 9,736 669,598 8,303 2,941 14,516 126,428 3,312	3, 153 2, 534 10, 896 672, 181 8, 204 3, 285 17, 034 119, 008 3, 471	3, 643 2,531 10,670 745,514 7,007 8,393 17,306 131,656 3,098	3,884 2,539 12,219 767,708 7,238 3,556 16,820 166,277 3,412	2, 765 1, 902 8, 940 642, 934 6, 289 2, 495 15, 066 102, 300 2, 629	3, 315 2, 922 7, 789 682, 468 8, 868 4, 231 18, 115 138, 855 2, 715	3, 427 2, 858 9, 467 666, 999 7, 770 3, 608 19, 336 125, 214 2, 620	4,550 2,695 7,857 797,632 7,560 4,196 19,552 197,770 2,575	4,052 2,385 9,177 843,992 6,726 3,089 21,768 117,194 3,069	2,945 2,302 7,967 683,870 6,594 3,584 18,038 113,822 2,519

$Debits\ to\ individual\ accounts\ at\ clearing\mbox{-}house\ banks\mbox{--}Continued.$

DATA FOR EACH REPORTING CENTER-Continued.

		W	1920 Teek ending	_	·	Week ending—					
Federal Reserve district.	Dec. 1.	Dec. 8.	Dec. 15.	Dec. 22.	Dec. 29.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.	Dec. 31.	
District No. 7—Continued. Flint. Fort Wayne. Grand Rapids. Indianapolis. Jackson. Kalamazoo.	4, 281 6, 571 22, 623 29, 497 3, 148 4, 942	5,540 7,092 21,050 32,326 3,636 5,376 5,027	4, 429 8, 070 19, 976 40, 807 3, 484 6, 012	5,810 8,506 19,826 38,054 4,118 5,682	4,050 7,057 20,729 31,414 3,160 4,636	10, 789 6, 984 18, 934 30, 999 4, 295 4, 151 5, 296	8,859 7,259 18,599 33,234 4,052 4,241 6,357	6,851 8,480 18,874 37,806 4,414 4,820 6,385	9, 997 7, 977 18, 347 35, 008 4, 439 4, 592 6, 353	8,876 6,940 17,717 31,292 3,721 4,652	
Lansing Milwaukee Moline Peoria. Rockford Sioux City South Bend Springfield	4,610 66,910 1,912 8,845 5,769 11,853 3,147 2,374 2,960	59, 825 3, 055 9, 096 5, 785 12, 731 3, 429 4, 859	4,877 63,200 2,248 9,076 5,313 11,403 3,711	5,147 68,505 3,376 9,172 6,308 11,538 3,384	3,113 59,221 2,346 7,341 5,187 7,791 3,752 3,202	10, 842 5, 165 12, 255 3, 194 3, 501	55,502 10,062 4,951 13,193 3,818 4,868	55, 502 11, 634 5, 608 12, 141 3, 228 4, 687	58,560 9,140 5,985 10,383 3,829 4,322	6,018 50,970 8,650 5,237 12,658 4,068 5,211	
District No. 8—St. Louis: Evansville Little Rock Louisville Memphis	2,960 4,355 10,098 27,712 27,293 136,854	3,549 5,097 11,168 24,776 28,209 132,647	3, 146 5, 476 12, 606 28, 067 28, 908 143, 435	3,065 5,267 13,525 30,919 29,075 152,368	2,477 4,617 10,704 19,379 22,734 127,519	2,868 4,415 11,381 40,477 40,709 145,924	3, 235 5, 311 10, 961 33, 191 43, 275 140, 015	3, 648 5, 104 11, 663 41, 348 43, 699 172, 315	3,519 6,231 9,802 30,971 47,694 158,837	3, 390 5, 387 8, 127 34, 460 39, 180 142, 134	
St. Louis District No. 9—Minneapolis: Aberdeen. Billings. Duluth Fargo. Grand Forks. Great Falls. Helena Minneapolis. St. Paul. Sioux Falls. Superior.	1,642 2,834 28,794 3,363 1,524 3,255 2,874 80,991 33,797	1,801 3,276 33,265 3,183 2,003 3,136 2,977 94,444 32,416	1,504 1,990 31,654 2,871 1,746 2,519 2,626 90,972 38,005 5,000	1,585 2,021 26,778 2,634 1,456 2,738 2,972 83,822 35,414	2,781 2,170 24,384 2,000 1,030 2,352 2,271 66,527 25,925	1,809 2,931 15,229 2,855 2,152 3,290 2,572 96,357 41,943	1,904 2,160 18,727 3,014 2,371 2,887 2,839 97,358 41,927	1,925 2,210 19,632 3,421 1,913 2,983 2,701 100,939 44,044	1,537 2,361 19,035 3,077 1,889 2,392 2,749 102,334 43,000	1,409 2,280 14,246 2,766 1,669 2,097 2,437 93,798 38,058	
Sioux Falls	5,500 2,285 1,114	5,400 2,524 1,539	5,000 2,545 1,431	4,500 2,427 1,380	4, 100 1, 942 829	1,918 1,128	1,844 1,316	2,079 1,430	2,040 1,327	1,765 1,287	
Winona. District No. 10—Kansas City: Atchison. Bartlesville. Cheyenne. Colorado Springs. Denver Joplin. Kansas City, Kans. Kansas City, Kans. Kansas City, Mo. Muskogee. Oklahoma City. Omaha. Pueblo. St. Joseph. Topeka. Tulsa. Wiehita. District No. 11—Dallas: Albuquerque	1, 807 3, 881 36, 719 2, 650 4, 386 78, 035 6, 522 26, 383 46, 523 3, 925 14, 449 3, 562 31, 127 11, 323	405 3,038 2,268 2,775 46,966 2,863 4,329 81,368 5,747 26,018 48,183 4,943 14,342 3,686 27,626 10,915	3, 627 2, 413 3, 351 44, 187 3, 211 4, 528 78, 536 6, 388 22, 596 46, 510 5, 072 18, 110 3, 774 32, 835 9, 875	3, 142 2,001 2,806 45,846 2,848 4,484 85,602 22,858 46,301 17,531 17,531 2,526 27,083 9,565	3, 429 1, 440 2, 220 39, 543 2, 279 4, 656 72, 145 5, 353 20, 565 33, 691 4, 384 12, 983 12, 768 27, 345 8, 450	390 3,889 1,477 2,818 50,274 3,512 3,483 92,434 5,523 17,221 62,173 5,738 15,925 5,888 21,639 12,583	459 2,884 2,083 3,186 43,034 3,364 3,558 100,012 5,840 17,585 57,107 5,217 21,954 5,551 20,837 12,230	640 2,948 2,682 3,174 52,063 4,050 3,234 110,395 5,458 18,008 62,534 7,016 20,336 4,593 28,025 11,560	686 4, 213 1, 928 2, 977 42, 945 3, 395 3, 938 109, 616 7, 143 17, 758 65, 217 6, 396 22, 019 5, 084 23, 560 13, 215	514 3, 466 2, 333 3, 206 39, 099 2, 996 3, 733 90, 756 6, 099 16, 586 50, 635 5, 035 13, 28, 6, 142 2, 333 10, 861	
Austin Beaumont Dallas El Paso Fort Worth Galveston Houston San Antonio Shreveport Texarkana Tucson Waco	3,350 3,382 39,553 9,347 26,951 10,300 32,392 6,405 8,032 1,711 1,590 4,172	2, 129 3, 960 4, 622 43, 444 11, 531 24, 718 13, 271 38, 584 8, 554 8, 955 1, 884 1, 560 4, 696	1,713 3,894 4,413 39,764 10,645 24,980 23,347 30,872 7,948 	1,978 3,663 4,625 42,095 10,990 24,877 24,824 35,479 8,096 8,687 1,800 1,394 4,325	1,574 2,650 3,101 34,123 8,670 24,187 23,011 29,130 6,085 7,838 1,650 1,684 3,574	1,741 4,253 12,359 46,655 9,303 26,922 4,030 41,492 8,427 8,040 1,561 1,615 5,787	1,959 4,581 5,024 49,191 9,250 26,443 11,457 39,944 9,042 8,540 1,517 1,751 4,506	1,936 3,280 4,894 52,192 9,804 31,018 9,836 43,749 9,121 7,275 1,608 1,560 4,395	1,656 4,637 5,350 51,024 9,731 26,355 10,595 43,536 8,826 7,952 2,399 1,346 4,376	1,581 3,993 4,133 54,133 8,230 33,841 10,722 37,596 8,032 7,066 1,816 1,344 3,700	
District No. 12—San Francisco: Berkeley Boise Fresno Long Beach Los Angeles Oakland Ogden Pasadena Portland Reno Sacramento Salt Lake City San Diego San Francisco San Jose Seattle Spokane Stockton Tacoma Yakima	2,534 2,672 14,857 6,213 95,932 19,456 4,894 4,876 36,201 2,730 12,052 7,349 198,196 5,344 35,415 11,340 6,048 8,413 3,027	3, 408 2, 987 19, 140 6, 167 103, 085 23, 311 5, 964 6, 065 3, 156 8, 133 20, 498 8, 597 207, 208 5, 338 36, 455 13, 011 6, 165 9, 745 3, 335	2, 985 2, 949 13, 852 16, 332 21, 946 5, 437 6, 258 46, 154 3, 013 22, 187 18, 566 9, 966 226, 194 5, 975 41, 024 12, 747 6, 304 11, 324 2, 920	2, 994 3, 539 10, 988 5, 637 120, 913 24, 429 8, 185 6, 254 41, 513 3, 026 15, 133 26, 992 7, 422 238, 85 4, 677 36, 870 12, 991 5, 585 10, 463 2, 840	2, 279 2, 503 11, 564 4, 299 104, 672 22, 900 4, 738 4, 552 2, 528 14, 720 16, 643 6, 038 190, 658 3, 587 29, 420 11, 607 4, 484 7, 533 1, 961	2, 946 3, 474 13, 175 4, 541 91, 606 19, 792 4, 609 5, 385 30, 343 3, 032 23, 497 20, 031 6, 340 193, 668 6, 126 53, 117 15, 681 7, 013 9, 361 3, 085	2, 983 3, 783 9, 431 5, 043 88, 750 21, 347 4, 692 4, 950 39, 139 2, 554 20, 208 7, 475 202, 088 5, 743 48, 109 10, 454 3, 888	3,001 3,713 11,440 5,016 103,592 22,654 6,759 4,900 31,409 20,199 27,849 7,346 242,184 7,110 60,117 13,610 7,150 11,865 3,237	2,538 3,471 9,977 4,734 95,241 19,455 5,657 4,669 48,241 2,765 13,717 7,062 219,373 6,624 49,828 13,273 5,546 10,033 3,811	2, 222 3, 966 9, 839 4, 700 16, 355 5, 077 4, 057 45, 300 2, 800 15, 92- 19, 365 11, 86 5, 455 45, 200 11, 86 5, 45, 93 9, 466 9, 94, 94 9, 94, 94 9, 94, 94	

DISCOUNT AND OPEN-MARKET OPERATIONS OF THE FEDERAL RESERVE BANKS **DURING NOVEMBER, 1920.**

Discount and open-market operations of the Federal Reserve Banks during November and October, 1920 and 1919, are shown in summary form for the entire system in the table below. Detailed figures for each Federal Reserve Bank for the most recent month are given on pages 109 to 111.

Total discount and open-market operations of Federal Reserve Banks in November and October, 1920 and 1919.

[In thousands of dollars.]

	19)20	19	19
	Novem- ber.	October.	Novem- ber.	Octo- ber.
Total discount and open-mar- ket purchases. Discounts, total. Secured by Government war obligations. Otherwise secured and un-	8, 713, 909 7, 882, 933 4, 349, 752	8,013,263 7,548,456 4,305,307	7, 812, 081 7, 414, 498 6, 761, 542	8, 468, 032 8, 060, 318 7, 348, 942
secured, total Commercial n. e. s., agricultural and live-	3,533,181	3, 243, 149	652,956	711,376
stock paper Trade acceptances Bankers' acceptances . I verage maturity (in days)	3,504,703 15,200 13,278 12,17	3,213,743 19,150 10,256 13.26	628,979 21,924 2,053 11.36	694,040 16,064 1,272 9.54
A verage rate (365-day basis), per cent	6.45	6.40	4.53	4. 19
Bills purchased, total Bankers' acceptances,	231,840	281,832	340,696	335, 262
totalIn the domestic	221,670	269, 284	335, 545	329,864
trade In the foreign trade Trade acceptances, to-	52,619 169,051	66, 244 203, 040	82,850 252,695	81, 819 248, 045
In the domestic	1,008	1,670	3, 687	4,989
trade In the foreign trade Dollar exchange	250 758 9, 162	735 935 10,878	790 2,897 1,464	1,938 3,051 409
Average maturity (in days) Average rate (365-day basis),	35.11	35.51	55.55	48.36
per cent	6.05	6.05	4.47	4.26
Bonds Certificates of indebted-	500 120	182 007		70.450
ness	599, 136	182,927	56,887	72,452

Discount operations in November aggregated 7,883 millions, or 335 millions more than the month before and 469 millions more than in November of the past year. The figures in the table are exclusive of bills discounted for other Federal Reserve Banks, which totaled 293 millions in November and 393 millions in October of this year, and 58 millions in November and 127 millions in October, 1919. While discount operations for the system were larger in November than in October for the system as a whole, two of the twelve Federal Reserve Banks, those of Philadelphia and of Kansas City, report materially smaller figures than the month before, and two other banks, those of Minneapolis and of San Francisco, report substantially unchanged totals for the two months. shown in the table following.

Increased volume is shown for discounts of both paper secured by Government war obligations and of paper not so secured, the former increasing from 4,305 to 4,350 millions, and the latter from 3,243 to 3,533 millions. Discounts of trade acceptances declined from 19 to 15 millions; while those of bankers' acceptances increased from 10 to 13 millions. All other discounts, composed of commercial paper not otherwise specified and of agricultural and livestock paper, show by far the largest increase, aggregating 3,505 millions, compared with 3,214 millions in October and 629 millions in November of last year.

Average maturity of paper discounted in November was 12.17 days, compared with 13.26 days the month before, while the average rate of discount shows a slight increase, from 6.4 per cent in October to 6.45 per cent in November, as compared with 4.53 per cent in November

of the year before.

Total bills purchased in November were 50 millions less than in October and 109 millions less than in November, 1919, this decrease being due largely to the development of a demand for acceptances by outside investors. Of the total of 232 millions of bills purchased in November, 222 millions were bankers' acceptances, 1 million was trade acceptances, and 9 millions were dollar exchange. Of the bankers' acceptances purchased, about 53 millions were bills drawn in the domestic trade and 169 millions bills drawn in the foreign trade, while of the trade acceptances about 75 per cent were bills in the foreign trade. The average maturity of purchased bills was 35.11 days, marking a slight decline from the 35.51 days shown for the month before and a decided reduction from the 55.55 days shown for November, 1919. The average rate charged on purchased acceptances was 6.05 per cent in November as in October, which may be compared with 4.47 per cent, the average for November of the preceding year.

During the month under review 33 banks were added to the membership of the system, the total number of member banks increasing from 9,558 at the end of October to 9,591 at the end of November, while the number of banks accommodated through discount of paper increased from 4,952 in October to 5,275 in November, constituting 55 per cent of the total membership, as against 51.8 per cent the month before. The number of member banks in each district at the end of October and of November and the number and percentage accomodated during each of the two months are

Federal Reserve	Member in dis		Member accomm	r banks odated.	Percentage ac- commodated.		
Bank.	Nov. 30.	Oct. 31.	Nov.	Oct.	Nov.	Oct.	
Boston. New York. Philadelphia Cleveland. Richmond. Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	700 871 612 453 1,409 571 999	434 780 697 869 610 449 1,404 569 997 1,084 844 821	219 316 325 239 343 335 1,026 299 587 658 404	217 306 310 248 340 323 848 310 508 614 542 386	50. 5 40. 5 46. 4 27. 0 74. 0 72. 8 52. 5 58. 8 60. 6 61. 9	50. 0 39. 2 44. 5 28. 5 55. 7 71. 9 60. 4 54. 5 56. 6 64. 2 47. 0	
Total	9, 591	9,558	5,275	4,952	55.0	51.8	

Federal Reserve Bank holdings of discounted and purchased paper, by classes, at the end of November and of October, 1920 and 1919, are shown in detail on page 112 and are summarized for the system as a whole in the table

following.

Among the principal changes between the end of October and November in holdings of discounted paper the following are to be noted: A further decrease of 12 millions in paper secured by Government war obligations, as well as a decrease of 54 millions in other discounts held. Of the different classes of the latter, all except bankers' acceptances and agricultural paper show smaller totals for the most recent month. The total for commercial paper not otherwise specified declined by 55 millions; that for agricultural paper increased by 5 millions; that for live-stock paper declined a little more than 3 millions; that of discounted trade acceptances, by 2 millions; while the holdings of discounted bankers' acceptances increased by more than a million.

Holdings of bills purchased in open market totaled 241 millions at the end of November, compared with 299 millions at the end of October of this year and 502 millions at the end of November, 1919. Bankers' acceptances

on hand totaled 239 millions, compared with 296 millions the month before. Of the most recent total 64.3 per cent were acceptances of member banks, 14 per cent of nonmember State banks and trust companies, 10.9 per cent of private banks, and 10.8 per cent of foreign bank branches and agencies. Of the total of 2 millions of trade acceptances held at the end of November, comparable with 3 millions held the month before, about three-fourths were acceptances in the foreign trade and one-fourth acceptances in the domestic trade.

Summary of discounted and purchased paper held by the Federal Reserve Banks at the end of November and of October, 1920 and 1919.

	1920, eı	nd of —	1919, er	nd of—
	November.	October.	November.	October.
Discounted paper, total Secured by Government war obliga-	2,735,400	2, 801, 297	2, 214, 139	2, 128, 547
tions	1, 192, 425	1,203,905	1,736,145	1,681,082
Otherwise, secured and unsecured, total Commercial paper,	1,542,975	1,597,392	477,994	447, 465
n. e. s	1, 267, 625	1,322,049	395, 701	374, 758
Agricultural paper Live-stock paper Trade acceptances.	136, 315 105, 246 20, 961	131, 528 109, 121 23, 155	27,023 25,527 27,694	28, 447 27, 028 16, 261
Bankers' accept- ances Purchased paper, total Bankers' acceptances,	12,828 240,622	11,539 299,487	2,049 501 ,910	971 394, 355
total Member banks Nonmember trust	238, 516 153, 302	296, 070 194, 908	495, 330 347, 852	387, 617 271, 701
companies	1,167	1,869	6,446	8,021
Nonmember State banks Private bankers Foreign bank	32, 335 26, 010	37, 767 33, 662	48,798 55,876	36, 707 42, 677
branches and agencies Trade acceptances,	25, 702	27, 864	36,358	28, 511
total Domestic Foreign	2, 106 515 1, 591	3,417 644 2,773	6,580 1,646 4,934	6,738 1,740 4,998
l	1		1	

¹ For discounted paper the figures are for the last Friday of each month; or purchased paper for the last day of each month.

Total discount and open-market operations of each Federal Reserve Bank during November, 1920.

	Bills dis-	Bills bought		ates securities chased.	То	tal.
Federal Reserve Bank.	counted for member banks.	in open market.	Bonds and Victory notes.	Certificates of indebtedness.	November, 1920.	November, 1919.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	5,088,376,344 354,670,887 232,352,576 241,258,989 239,295,849 517,863,068 178,178,627 82,688,430	142, 999, 511 2, 742, 493 13, 625, 149 3, 387, 676 1, 710, 730 14, 136, 438 572, 563 537, 923		153,006,500 145,051,500 90,000,000 8,000,000 60,147,500 1,165,000 105,500	\$553, 669, 989 5, 384, 382, 355 502, 464, 880 335, 977, 725 252, 646, 665 241, 006, 579 592, 147, 006 179, 916, 190 83, 331, 853 141, 650, 010 124, 346, 664 322, 369, 090	\$492,416,062 4,654,764,138 689,812,281 314,402,869 288,086,174 179,499,782 484,729,360 186,711,100 99,631,532 147,934,891 77,093,833 216,999,208
Total, November, 1920. Total, November, 1919. Total, 11 months ending Nov. 30, 1920. Total, 11 months ending Nov. 30, 1919.	75,859,213,779	231,840,396 340,695,505 2,964,536,202 2,424,468,909	\$350 288,600 1,752,375	599, 136, 000 56, 887, 000 7, 038, 579, 000 3, 977, 801, 500		7,812,081,230

¹ Includes \$1,000 of municipal warrants.

Average daily amount of earning assets held by each Federal Reserve Bank during November, 1920, earnings from each class of earning assets, and annual rates of earnings on basis of November, 1920, returns.

		Average daily	holdings of—	
Federal Reserve Bank.	Discounted bills.	Purchased bills.	United States securities.	Total.
Boston . New York . Philadelphia . Cleveland . Richmond . Atlanta . Chicago . St. Louis . Minneapolis . Kansas City . Dallas . San Francisco . Total, November, 1920 . Total, November, 1919 .	938, 687, 471 171, 018, 186 209, 429, 088 114, 444, 206 138, 533, 713 466, 218, 818 118, 932, 832 84, 373, 000 114, 200, 227 77, 466, 071 164, 148, 995	\$27, 604, 681 88, 756, 828 20, 889, 652 36, 992, 045 5, 542, 336 2, 203, 723 35, 540, 301 1, 596, 326 1, 431, 000 2, 179, 038 556, 833 551, 155, 140 278, 447, 903 455, 056, 830	\$25, \$52, 702 73, \$38, 433 38, 450, 166 27, 642, 650 13, 761, 467 15, 782, 942 46, 385, 550 18, 518, 667 8, 604, 900 21, 692, 517 12, 312, 583 17, 049, 567	\$227, 823, 383 1, 101, 282, 732 230, 358, 004 274, 063, 783 133, 748, 006 156, 540, 378 548, 144, 666 139, 047, 822 94, 400, 001 138, 071, 782 90, 335, 487 236, 353, 702 3, 370, 177, 754 2, 907, 802, 607

		Earning	s from—		Ann	ual rates o	of earnings	on—
Federal Reserve Bank.	Dis- counted bills.	Pur- chased bills.	United States securities.	Total.	Dis- counted bills.	Pur- chased bills.	United States securities.	Total.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Mimeapolis Kansas City Dallas San Francisco Total, November, 1920 Total, November, 1919	4,953,787 812,009 1,119,903 553,469 722,229 2,548,916 662,466 457,370 591,104 388,190 804,971	\$138, 658 438, 657 104, 677 176, 826 27, 573 11, 855 175, 414 8, 023 7, 137 11, 083 2, 971 274, 006 1, 377, 088 1, 621, 165	\$45, 837 146, 850 66, 950 46, 490 22, 679 26, 915 79, 654 32, 015 14, 230 37, 656 21, 199 29, 415 569, 892 561, 215	\$1,130,726 5,539,504 983,636 1,343,219 603,721 760,999 2,803,984 702,504 478,737 639,843 412,360 1,108,392 16,507,625 9,938,322	Per cent. 6.62 6.44 5.79 6.51 5.90 6.15 6.67 6.79 6.60 6.31 6.11 5.98	Per cent. 6.13 6.03 6.11 5.82 6.07 6.35 6.02 6.12 6.07 6.21 6.40 6.06	Per cent. 2.16 2.43 2.12 2.05 2.01 2.01 2.10 2.11 2.01 2.12 2.09 2.11 2.17 2.22	Per cent. 6.06 6.14 5.20 5.93 5.51 5.74 6.24 6.15 6.17 5.65 5.57 5.72

Bills discounted during the month of November, 1920, distributed by classes; also average rates and maturities of bills discounted by each Federal Reserve Bank.

	Customers'	Member bank note		m	Bankers'	Commercial,		Average	Average	
Federal Reserve Bank.	Government war obligations.	Secured by Government war obligations.	Otherwise secured.	Trade acceptances.	accept- ances.	agricultural and live-stock paper.	Total.	maturity in days.	rate (365-day basis).	
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas. San Francisco	\$16, 611, 300 82, 697, 393 14, 144, 714 5, 306, 560 3, 370, 756 6, 927, 471 14, 307, 168 5, 927, 286 1, 980, 592 4, 671, 365 1, 945, 436 4, 033, 274	\$334, 372, 760 2, 371, 229, 964 227, 857, 782 173, 526, 760 198, 828, 845 270, 520, 893 103, 818, 408 22, 482, 790 84, 869, 300 90, 271, 826 150, 957, 239	\$261, 540 1, 448, 600 1, 410, 147 1, 444, 913 715, 500 8, 474, 864 436, 000 1, 991, 557 1, 740, 179	\$173, 987 1 2, 792, 486 88, 114 1, 671, 354 1, 075, 587 3, 474, 989 913, 120 211, 089 1, 049, 863 7, 58, 335 1, 939, 261	2 \$6,018,828 200,000 4,186,655 261,737 932,284 346,011 10,507 3 1,322,020	\$105,001,620 2,625,637,673 112,380,277 47,399,707 36,539,484 80,549,042 227,182,821 66,458,302 39,535,733 29,084,510 67,471,768	\$456, 159, 667 5,088, 376, 344 354, 670, 887 232, 352, 576 241, 258, 989 517, 863, 068 178, 178, 627 82, 688, 430 140, 572, 768 124, 051, 664 227, 463, 741	12. 18 6. 30 12. 92 14. 57 15. 25 22. 97 36. 78 25. 29 36. 47 37. 67 28. 94 25. 26	Per cent. 6.52 6.41 5.61 5.87 5.98 6.65 6.71 6.60 6.78 7.41 5.98 5.98	
Total, November, 1920 Total, November, 1919	161, 923, 318 327, 559, 642	4, 187, 828, 432 6, 433, 982, 115	17, 923, 300 15, 674, 637	15, 199, 486 21, 923, 920	13, 278, ₀ 42 2, 052, 898	3, 486, 780, 032 613, 305, 163	7, 882, 932, 610 7, 414, 498, 375	12. 17 11. 36	6. 45 4. 53	

 $^{^{\}scriptscriptstyle 1}$ Includes \$12,647 in the foreign trade.

Bankers' and trade acceptances in the foreign and domestic trade and dollar exchange bills purchased during November, 1920 also average rates and maturities of total bills purchased by each Federal Reserve Bank.

Tala di Bassa Bash	Ваз	ikers' accepta	nces.	Tr	ade accepts	inces.	Dollar	Total bills	Average matur-	Average rate
Federal Reserve Bank.	Domestic.	Foreign.	Total.	Domestic.	Foreign.	Total.	exchange bills.	purchased.	ity in days.	(365-day basis).
Boston. New York. Philadelphia Cleveland. Richmond. Altanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco. Total, November, 1920. Total, November, 1919.	30, 983, 988 288, 997 2, 860, 845 470, 953 1, 170, 401 2, 977, 666 333, 198 287, 923 295, 000 4, 415, 674	\$17, 937, 021 103, 679, 533 2, 053, 496 10, 233, 738 2, 916, 723 540, 329 11, 131, 692 239, 365 250, 000 969, 742 18, 790, 485 168, 742, 124 252, 695, 143	\$26, 780, 886 134, 663, 521 2, 342, 493 13, 094, 583 3, 387, 676 1, 710, 730 14, 109, 358 537, 923 969, 742 295, 000 23, 206, 159 221, 670, 634 335, 544, 925				400,000 530,566	1,710,730 14,136,438 572,563 537,923 969,742	31. 15 27. 67 65. 25 49. 47 41. 82 57. 76 67. 18 48. 02 48. 15 51. 85 44. 81 49. 03 35. 11	Per cent. 6.11 5.41 6.09 6.02 6.08 7.10 6.23 6.16 6.08 6.09 6.08 6.09 6.08 4.47

Bills discounted during three months ending Nov. 30, 1920, distributed by rates; also average rates and maturities of bills discounted by each Federal Reserve Bank.

	5 per c	cent.	5¼ per	cent.	5½ per c	ent.	53 per	cent.	6 per c	ent.
Federal Reserve Bank.	Amount.	Dis- count.	Amount.	Dis. count.	Amount.	Dis- count.	Amount.	Dis- count.	Amount.	Dis- count.
Boston	\$82,016,700 36,324,103 37,410,500 21,849,500 30,491,511	\$147, 255 73, 557 59, 466	\$2,341,500		655, 719, 453	1,698,237 1,516,353 99,693		1	\$621, 549, 675 3, 663, 659, 309 394, 012, 932 134, 186, 688 712, 081, 938 167, 036, 492 606, 879, 293 243, 564, 045 68, 371, 412 346, 004, 567 100, 546, 460 598, 570, 970	\$723, 74; 6, 261, 52; 618, 34; 792, 99; 1, 833, 98; 1, 166, 53; 1, 774, 33; 1, 821, 04; 205, 10; 2, 522, 56; 1, 044, 59; 2, 691, 20;
Total	208, 092, 314	385,063	4,553,011	8,827	6, 276, 249, 945	6,536,395	510, 399, 786	889,098	7, 356, 463, 781	21, 455, 98

² Includes \$80,000 in dollar exchange bills.

³ Includes \$7,954 in dollar exchange bills.

Bills discounted during three months ending Nov. 30, 1920, distributed by rates; also average rates and maturities of bills discounted by each Federal Reserve Bank—Continued.

	6½ per cent.		7 per c	ent.	Super-	Tota	1.	Average	Average
Federal Reserve Bank.	Amount.	Dis- count.	Amount.	Dis- count.	rate, discount.	Amount.	Discount.	maturity in days.	rate (365-day basis).
Boston. New York Philadelphia Cleveland. Richmond Atlanta Chicago St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	\$925,576	\$6,304	90, 510, 517 752, 523, 107 137, 491, 851	649,448 9,092,233 1,578,357	\$137, 198 168, 495 546, 638 39, 142	14,415,055,593	\$2,607,135 17,644,086 2,310,798 1,496,180 1,914,774 2,876,579 11,484,581 2,683,307 1,861,109 3,340,246 1,681,851 2,853,156	12. 44 6. 93 13. 14 16. 42 15. 32 24. 72 38. 27 26. 48 41. 71 37. 10 28. 68 24. 91	Per cent. 6.49 6.45 5.59 5.86 5.98 6.30 6.73 6.23 6.80 7.10 5.93 5.97
Total	925, 576	6,304	8,373,274,663	22,580,656	891,473	22,729,959,076	52,753,802	13. 21	6, 41

Acceptances purchased by each Federal Reserve Bank during the three months ending Nov. 30, 1920, distributed by rates of discount; also average rates and maturities of acceptances purchased by each Federal Reserve Bank.

	5	per cent.		5§ per	cent.		5	per c	ent.		5^{13}_{16} p	er cent	.		57 per ce	ent.
Federal Reserve Bank.	Amou	int. Disco	unt.	Amount.	Discoun	ıt.	Amou	ınt.	Disco	ınt. A	mount	Disco	ount.	Am	ount.	Discount.
Boston New York Philadelphia Cleveland Chicago St. Louis San Francisco	\$54,	365	362				\$7, 270, 604 283, 011, 442 505, 951 4, 123, 414 7, 948, 165 43, 906 14, 798, 251		16, 32,	770 716 \$ 551 780	200,000		904	57, 9 27, 9 38, 9	308, 872 921, 760 877, 685 494, 587 770, 127 339, 000 960, 785	\$105, 317 446, 353 4, 031 231, 015 364, 573 2, 836 299, 645
Total	. 54,	365	362	2,413,503	9,09	7	317,70	1,733	856,	829	200,000		904	177,	672,816	1,453,770
Federal Reserve Bank.	5] §]	per cent.		6 per	ent.			6⅓ per	cent.		6,5	per ce	ent.		61 per ce	ent.
1 Sucremental Property of Parish	Amoun	t. Discour	nt. A	mount.	Discou	nt.	Am	ount.	Disc	count.	Amou	nt. Dis	count.	A	mount.	Discount.
Boston New York Philadelphia Cleveland Richmond	\$220,00	\$1,02	38 28 2	4,621,239 9,656,230 9,689,733 1,840,482 1,020,930		342 840 853 156	11,	610, 57 026, 10 267, 24 059, 74	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2,360 4,182 7,245 4,167					1,779,860 3,035,282 149,855 1,193,620	\$78,065 32,554 2,263 3,515
Atlanta. Chicago St. Louis. Minneapolis. Kansas City. Dallas. San Francisco				4,999,188 9,426,405 1,090,000 1,573,236 2,687,439 2,222,500 9,598,378	111, 14, 19, 23,	513 850 272 031		032,75 138,19 727,78			\$10,0				1,767,400 1,509,337	16,819
Total	220,00	00 1,02	8 15	8, 425, 760	1,522,	721	34,	862, 41	1 36	7, 695	10,0	00	81	19	9,435,354	151,360
		6,5 pe	r cent.		63 per c	ent.		,	3½ per o	cent.		6 <u>5</u> pe	r cent.		63 pe	r cent.
Federal Reserve Bar	ık.	Amount.	Discou	unt. An	nount.	Dis	scount.	Amo	unt.	Disco	unt. Ar	nount.	Disco	unt.	Amount.	Discount.
Boston New York Philadelphia.		<i>.</i>			222, 075 897, 542 100, 000		68,631 9,805 1,487	\$2,23 67	3,931 7,878			65, 752 00, 000	\$3, 1,	230 601	\$232,158	\$1,790
Cleveland. Chicago. St. Louis Kansas City		\$50,000	\$7	740 2,	478, 869 462, 330 458, 906	17	6,836 77,088 1,219	2,33 1,19	2,689 7,225 5,000 9,112	36,	769	20,000 50,126		55 691	93,321 450,000	260 1,266
San Francisco					287,316		3,822	3	4,875		502					
Total		50,000	740 42		42,907,038		268,888 9,930,710		0,710	88,	428 9	35, 878	5,	577	775, 479	3,316

Acceptances purchased by each Federal Reserve Bank during the three months ending Nov. 30, 1920, distributed by rates of discount; also average rates and maturities of acceptances purchased by each Federal Reserve Bank—Continued.

Federal Reserve Bank.	7 per e	cent.	7∦ per	r cent.	Tota	al.	Average maturity	Average rate
rederal Reserve Dank.	Amount.	Discount.	Amount.	Discount.	Amount.	Discount.	in days.	(365-day basis).
Boston					\$88,258,565	\$453, 2 66	30. 43	Per cent.
New York	\$3,663,802	(\$33,930	\$22,500	\$ 305	400,012,543	1,788,886	27.30	5.98
PhiladelphiaCleveland					13,010,472 62,206,731	142,514 519,724	65. 55 50. 53	6.10 6.03
Richmond					11,020,930	85, 156	46.36	6.08
Atlanta	1,710,730	19, 213			6,709,918	55,769	47.41	6.40
Chicago					73,804,403	755,054	60.97	6.12
St. Louis.					4,019,501	26, 183	38.39	6.19
Minneapolis Kansas City	668 789	6 173			1,573,236 5,905,333	19,850 57,211	75.70 55.06	6.08 6.42
Dallas	000, 102	0,110			2, 222, 500	14,031	37.88	6.08
San Francisco					102, 916, 729	872,773	51. 20	6.05
Total	6,043,314	59,316	22,500	305	771,660,861	4,790,417	37. 13	6.05

Discounted bills, including member banks' collateral notes, held by each Federal Reserve Bank on the last Friday in November, 1920, distributed by classes.

[In thousands of dollars.]

	A omious?	Live-	Custom- ers' paper secured	Member ba		Trade	Bankers'	All other	
Federal Reserve Bank.	Agricul- tural paper.	stock paper.	by Gov- ernment war ob- ligations.	Secured by Govern- ment war obligations.	wise	accept- ances.	accept- ances.	(commer- cial paper n. e. s.).	Total.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco Total, 1920 Total, 1919	103 292 621 8,369 17,844 41,430 3,250 18,657 13,364 13,931 18,454	119 5 156 112 1,126 2,615 45,137 30,593 14,715 10,668 105,246 25,527	21, 264 133, 651 38, 423 9, 216 6, 158 14, 163 21, 265 10, 102 5, 657 10, 180 2, 958 5, 909 278, 946 356, 519	57, 024 331, 376 83, 190 86, 351 44, 884 55, 332 128, 216 39, 723 6, 055 16, 089 18, 028 46, 911	131 645 191 555 145 4,132 67 739 694 7,299 5,717	190 2,840 271 1,544 1,890 1,953 4,896 1,215 203 1,771 604 3,584 20,961 27,694	23 7,831 150 • 648 373 895 991 29 59 1,829 12,828 2,049	93, 545 425, 986 49, 290 109, 205 53, 441 46, 044 281, 200 62, 128 721 41, 271 26, 106 71, 389 1, 260, 326 389, 984	172,165 901,787 171,621 207,572 217,549 137,026 478,457 120,169 80,562 113,664 77,140 159,438 2,735,400 2,214,139

Acceptances purchased by each Federal Reserve Bank and held on Nov. 30, 1920, distributed by classes of accepting institutions.

[In thousands of dollars.]

			Bankers' a	cceptances			Tra	de accepta:	nces.	
Federal Reserve Bank.	Member banks.		Nonmember State banks.	Private banks.	Foreign bank branches and agencies.	Total.	Domestic.	Foreign.	Total.	Grand total.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago. St. Louis Minneapolis Kansas City Dallas San Francisco	44,336 8,211 16,457 5,651 2,467 21,204	150 575 200 88	3,323	11,330 2,252 3,925 1,616 62	1,032 9,986 1,487 4,233 293	22,870 77,450 15,038 29,378 5,651 2,467 26,436 1,417 1,483 1,732 215 54,379	510	1,123		22, 870 79, 083 15, 038 29, 378 5, 651 2, 467 26, 436 1, 417 1, 483 1, 732 215 54, 852
Total: Nov. 30, 1920. Oct. 31, 1920. Nov. 30, 1919. Nov. 30, 1918.	347,852	1,167 1,869 6,446 2,028	1 32,335 2 37,767 48,798 10,703	26,010 33,662 55,876 27,871	25,702 27,864 36,358 19,818	238,516 296,070 495,330 370,489	515 644 1,646 4,016	1,591 2,773 4,934 5,019	2,106 3,417 6,580 9,035	240,622 299,487 501,910 379,524

¹ Includes \$2,134,000 acceptances of corporations organized under Edge Act. ² Includes \$2,174,000 acceptances of corporations organized under Edge Act.

OPERATIONS OF THE FEDERAL RESERVE CLEARING SYSTEM FROM NOV. 16 TO DEC. 15, 1920.

[Amounts in thousands of dollars.]

	,											
	Items dr	awn on ba	nksin owi	a district.					Itoms	forwarded	to Items	for warded
Federal Reserve Bank or branch.	eral R Banl	in Fed- eserve k and icities.	Located Federal Bank branch	Reserve and	Treas	rawn on urer of States.	,	Total.	other serve	Federal R. Banks and ranches.	- to par l or to l	ent bank Franch in district.
	Num- ber.	1	Number.	Amount.	Num- ber.	Amount	. Numbe	er. Amour	t. Numb	er. Amour	Num- ber.	Amount.
Boston. New York. Buffalo. Philadelphia Cleveland. Cincinnati. Pittsburgh Richmond. Baltimore. Atlanta. Birmingham Jacksonville. Nashville. New Orleans. Chicago. Detroit. St. Louis. Little Rock. Louisville. Memphis. Minneapolis. Kansas City. Denver. Oklahoma City. Omaha. Dallas. El Paso. Houston. San Francisco. Los Angeles. Portland. Sait Lake City. Seattle. Spokane. Total:	628, 133 1,066,367 171,745 1,509,086 303,077 155,270 315,512 98,330 201,782 89,785 41,587 27,070 41,508 56,671 751,025 220,341,439 84,691 245,575 41,439 84,691 283,855 228,228 78,750 87,511 93,559 30,337 68,091 129,704 211,435 55,600 59,686 31,266	597, 400 1, 955, 307 1106, 492 837, 542 251, 793 146, 427 345, 331 168, 557 179, 404 68, 889 1 22, 006 34, 517 56, 913 672, 059 169, 270 39, 098 159, 776 297, 360 71, 364 63, 296 59, 993 80, 998 11, 990 144, 867 123, 138 108, 203 39, 825 39, 645 39, 825 39, 645	2, 938, 675 4, 194, 247 374, 268 1, 1936, 025 1, 108, 393 767, 666 814, 617 2, 120, 248 130, 411 130, 965 210, 684 103, 212 3, 331, 477 282, 461 359, 085 161, 457 1, 718, 951 514, 070 1, 641, 642 1,	1, 2-2, 381 54, 287 262, 880 181, 282 89, 641 127, 480 346, 803 89, 679 11, 676 14, 839 15, 844 45, 312 99, 855 22, 014 26, 205 14, 909 96, 242 40, 181 269, 422 13, 343 47, 954 35, 804 125, 141 130, 173 140, 909 96, 242 40, 181 269, 422 13, 343 47, 954 35, 801 14, 969 15, 141 169, 962 17, 956 17, 956 17, 956 17, 956 17, 956 17, 956 17, 956 17, 956 17, 956 17, 956 18, 235 17, 956 18, 245 17, 956 18, 255 18, 245 18, 255 18, 255	1,137,110 10,903 176,626 58,719 49,851 34,087 43,866 55,350 25,742 11,962 297,421 35,750 90,217 23,966 57,763 38,4868 26,989 13,7868 56,288 56,288 56,288 26,812 14,552 27,484 10,562	103, 344 5, 97, 244 7, 244 4, 71; 5, 400 9, 6, 199 9, 67, 99, 97, 97, 97, 97, 97, 97, 97, 97, 9	9 6, 397, 330, 3481, 422, 8 1 4472, 44 472, 8 1 4472, 8 1 4472, 8 1 5 7 7 8 1 6 9 8 1 7 8 8 9 8 1 8 8 8 8 8 1 8 8 8 8 8 1 8 8 8 8 8 1 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1, 132, 8 1, 132, 8 1, 132, 8 1, 132, 8 1, 132, 16 1, 132, 16 1, 132, 1,	371 1, 037, 511 1, 137, 644 828, 146, 146, 187, 188 63, 556 137, 199 25, 551 30, 002 41, 131 14, 157 140, 199 25, 199 5 310, 224 80, 388 48, 181 838, 22 86, 225 76, 559 3, 442 12, 74 16, 8, 199 103 8, 199 103 89, 199 103 8	190 582, 931 29, 870 214, 171 33, 883 17, 799 43, 074 78, 605 101, 161 19, 082 13, 176 10, 875 7, 429 10, 193 39, 194 2, 941 2, 941 2, 941 2, 941 2, 941 2, 941 2, 941 37, 1669 17, 494 37, 1669 17, 494 37, 183 2, 25, 183 2, 2188 24, 188 24, 3, 5894 3, 5875 7, 188 24, 3, 5894 3,	\$60	4 23,696 0 12,676 4 5,468 7,774 1 15,225 17,43 3 8,784 9 43,664 1,756 6 3,994 1,756 6 3,994 1,756 6 3,994 1,756 1,946 1,756 1,946 1,756 1,946 1,756 1,946 1,756 1,947 1,756 1,947 1,756 1,947 1,756 1,947 1,756 1,947 1,756 1,947 1,756 1,947 1,756 1,947 1,756 1,947 1,756 1
Nov. 16 to Dec. 15, 1920 Oct. 16 to Nov. 15, 1920 Nov. 16 to Dec. 15, 1919	7,590,783 7,614,184 5,973,224	7,174,087 7,923,690 7,305,298	31,491,522 30,788,266 21,913,951	4,430,849 4,750,101 4,753,645	2,675,292 2,989,658 2,113,845	486,043 414,296 876,169	3 41,757,8 6 41,392,1 9 30,001,0	597 12,090,9 108 13,088,0 020 12,935,1	79 ¹³ , 987, 87 ²³ , 806, 12 ³³ , 062,	632 11,538,9 923 21,666, 589 31,605,8	09 858,33 552 764,27 91 656,50	3 278,625 8 297,128 7 288,462
	Federal 1	Reserve d	istrict.			ı		of mem- ks in dis- ec. 15.	membe	of non- r banks list Dec.	porated other tual s	of incor- banks than mu- avings not on par
							1920	1919	1920	1919	1920	1919
Boston							436 780 698 871 611 460 1,417 1,000 1,088 848 832	431 751 677 842 584 426 1,374 535 920 1,037 756 713	258 328 439 1,080 1,267 414 4,270 2,526 2,895 3,402 1,265 1,028	245 319 414 1,079 466 348 3,700 2,222 1,874 3,138 1,105 941	334 1,212 186	8 1,014 1,227 489 443 1,030 186 98
Total					• • • • • • • • •		9,612	9,046	19,172	15,851	1,732	4,609

Includes 7,344 items, amounting to \$2,100,000, forwarded direct to member banks in other Federal Reserve districts.
 Includes 7,100 items, amounting to \$2,206,000, forwarded direct to member banks in other Federal Reserve districts.
 Includes 5,493 items, amounting to \$4,145,000, forwarded direct to member banks in other Federal Reserve districts.

Note.—The number of business days in period was 25 in all Federal Reserve Bank and branch cities except New Orleans, where the number was 24.

CHANGES IN CONDITION OF FEDERAL RESERVE BANKS.

Loan operations of the Federal Reserve Banks during the last five weeks of the year, as measured by the amounts of discounted bills held at the close of each week, show a slight reduction, the December 30 total of 2,719.1 millions being 16.3 millions below the November 26 total. The large reduction in the holdings of discounted bills shown in the December 17 statement reflects largely the week's heavy fiscal operations, including redemption of the principal and semiannual interest coupons of about 700 millions of tax certificates issued at the beginning of the year, payment of semiannual interest on first Liberty bonds and Victory notes, issuance of two new series of tax certificates aggregating about 590 millions and the handling of the last quarterly installment of income and excess profits taxes due on the 15th of the month.

Redemption of large amounts of tax certificates enabled member banks to reduce temporarily their indebtedness to the Federal Reserve Banks, with the consequence that Federal Reserve Bank holdings of bills secured by Government war obligations show a decrease for the week of 10.3 millions and those of other discounted bills a decrease of 109.8 millions. Payment by the banks for newly issued certificates was made chiefly in the customary manner, i. e., by crediting the Government account. Borrowings on a large scale were resumed, however, soon afterwards, as the members' deposit accounts came to be debited with large amounts of checks and drafts issued in payment of taxes and as the Government began to call for funds placed to its credit by member banks to which allotments of the last certificate issues had been made. As a consequence, the amount of discounted bills held by Federal Reserve Banks shows an increase of about 135 millions for the week ending December 23, followed by a reduction of 12.6 millions in these holdings during the last week of the year. As against a reduction for the five weeks of 16.3 millions in total discounts held, the amount of paper secured by Government war obligations shows a reduction for the period of 51.4 millions, with the result that the proportion of war paper to total discounts shows a further decline for the period from nearly 44 to 42 per cent.

In the following exhibit is given a summary of the weekly changes of the principal asset and liability items of the Federal Reserve Banks for the five weeks under review:

Principal asset and liability items of the 12 Federal Reserve Banks combined on Fridays, Nov. 26 to Dec. 17, and on Thursdays, Dec. 23 and 30, 1920.

[In millions of dollars.]

	Nov. 26.	Dec.	Dec.	Dec.	Dec. 23.	Dec. 30.
	20.	٥,	10.	11.	20.	ου.
Reserves:						
Total	2, 195	2,198	2,212	2,222	2,237	2,249
Gold	2,024	2,023	2,035	2,042	2,056	2,059
Bills discounted:	,			,	'	_,,
Total	2,735	2,777	2,717	2,597	2,732	2,719
Secured by Govern-	•	i .				, , , , , , , , , , , , , , , , , , ,
ment war obliga-						
tions	1,192	1,161	1,169	1,159	1,177	1,141
All other	1,543	1,616	1,548	1,438	1,555	1,578
Bills bought in open market.	248	243	245	235	241	256
Certi cates of indebted-				000	•	
ness	294	287	328	366	281	261
Total earning assets	3,304	3,334	3,317	3,224	3,281	3,263
Government deposits	16	61	28	53	26	28
Members' reserve deposits		1,764	1,759	1,739	1,721	1,749
Net deposits	1,624	1,667	1,662	1,543	1,549	1,604
Federal Reserve notes in circulation.	2 200	2 210	2 210	3.344	9 405	2 245
Federal Reserve Bank notes	3,326	3,312	3,312	0,044	3,405	3,345
in circulation	215	215	215	217	219	217
Reserve percentages	44.4	44.1	44.5	45.5	45.1	45.4
200001 vo porconvageo	11. 1	11.1	11.0	10.0	10.1	10.1

Of the total holdings of paper secured by Government war obligations an increasing share, viz, 56.8 per cent on December 30 as against 52.8 per cent on November 26, was composed of paper secured by Liberty bonds, the end-of-year holdings of this class of paper, 648.3 millions, being about 18 millions in excess of the total reported five weeks earlier. Paper secured by Victory notes constituted between 25.5 and 26.7 per cent of the total of war paper held, the December 30 holdings, 304.7 millions, being 13.5 millions below the November 26 total. Holdings of paper secured by Treasury certificates show continuous reduction during the five weeks from 243.9 to 188 millions, or from 20.5 to 16.5 per cent of the entire amount of war paper held

of war paper held.

Notwithstanding the considerable fluctuations in the holdings of 15-day paper—between a high of 1,694.5 millions on December 3 and a low of 1,504.2 millions two weeks later—the proportion of the shortest term paper to discounts of all maturities remained fairly constant at about 60 per cent. Holdings of 30-day and 60-day paper show a moderate decline, nearly offset by an increase of 90-day paper, while holdings of six-month agricultural and live stock paper increased from 51 to 63.5 millions.

Holdings of acceptances purchased in open market fluctuated between 234.6 millions on December 17 and 255.7 millions at the close

of the year. Changes in the amounts of Treasury certificates held are due to purchases early in December of about 40 millions of tax certificates from New York member banks in anticipation of their maturity on December 15, also to variations in the amounts of special certificates held by the Federal Reserve Banks to cover advances to the Government pending collection of funds from depository institutions. On December 17 the banks held 93 millions of such certificates, while on the following Thursday the amount had been reduced to 18 millions, all held by the New York Reserve Bank.

Continued reduction in the volume of rediscounting is noted, the December 30 holdings of paper under discount for other Federal Reserve Banks by the Boston, Philadelphia, and Cleveland banks, 115.3 millions, being 38.8 millions below the total shown five weeks before. The latter bank reports on December 30 a total of 81.6 millions of paper held under discount for other Federal Reserve Banks, as against 117.8 millions held for its own members, compared with 112.1 and 95.8 millions, respectively, five weeks earlier. Discounts held by the Boston bank for other Federal Reserve Banks declined during the same period from 27.2 to 16.6 millions, while discounts for its own members increased in the meantime from 144.9 to about 162 millions. The list of accommodated banks included at the close of the year besides the three southern banks also the Federal Reserve Banks of Minneapolis and Kansas City, the New York and St. Louis banks no longer figuring in this list. Holdings of acceptances purchased from other Federal Reserve Banks declined from 14.4 to 6.9 millions, this total being composed of bank acceptances purchased by the San Francisco bank from the New York bank. The contingent liability of the Federal Reserve Banks on account of bank acceptances held for account of foreign correspondents remained un- point shown two weeks previous. changed at 16.2 millions.

Changes in the several classes of deposits were within moderate limits, while the "float" carried by the Federal Reserve Banks shows much larger fluctuations between about 127 millions on November 26 and 287.9 millions on December 17, the Friday following the date of the last income-tax installment. Net deposits, in consequence, show wider variations from week to week than reserve deposits, the low figure of 1,542.6 millions of net deposits on December 17 being 124.7 millions below the high figure of two weeks before. Federal Reserve note circulation declined by about 13.7 millions during the first two weeks but shows the usual upward course during the two weeks preceding Christmas, though the increase during these two weeks, 93.1 millions, falls far below the corresponding increase of 150.2 millions in 1919. Federal Reserve Bank note circulation shows an increase for the period of 2.4 millions.

All of the earmarked gold formerly held by the Bank of England for account of the Federal Reserve Banks has been received in this country and the account "Gold with foreign agencies" includes at present only 3.3 millions, the amount of gold held earmarked for Federal Reserve account by the Bank of France. Total gold reserves, in consequence of further net gold imports, chiefly from Great Britain, show a gain from 2,023.9 to 2,059.3 millions, while total cash reserves show an even larger increase from 2,195.3 to 2,249.2 millions.

The banks' reserve ratio after some slight variation during the first two weeks rose from 44.5 per cent on December 10 to 45.5 per cent on the following Friday, this being the highest percentage for the year. On December 23, mainly because of the large increase in note circulation, the ratio declined to 45.1 per cent, while on the Thursday following, because of the reduction in note liabilities, the ratio went up to 45.4 per cent, or only slightly below the high

Resources and tiabilities of each Federal Reserve Bank at close of business on Fridays, Dec. 3 to 17, and on Thursdays, Dec. 23 and 30, 1920.

RESOURCES.

	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago.		Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
Gold and gold certificates:						4 400	01 000	0.055					
Gold and gold certificates: Dec, 3. Dec, 10. Dec, 17. Dec, 23. Dec, 30. Gold settlement Fund—Federal Reserve Board:	7,630 7,677	109, 556 118, 419	1,222 1,042	19,632 5,434	2,445 2,447 2,493	6,630 6,587	21 818	2,875 2,875 2,879 5,873	7,292 7,299	806 881	6,398 6,444	14,652 13,946	201,131 194,869
Dec. 17	7,445 11,849	111,078 144,304	971 6,040	5,510 10,869		6.781	L 21.700	2,879 5,873	7, 344	904 4,007	7,831 9,648	25,558 28,474	200,494
Dec. 30	11,780	125 046	6,082	10,907	5,701	8,686 8,729	29,035	5,120	9,095 9,125	4,016	9,903	28,508	273,749 263,952
Gold settlement Fund—Federal Reserve Board: Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 30. Gold with foreign agencies: Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 10. Dec. 17. Dec. 23. Dec. 30. Gold with Federal Reserve agents: Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 10. Dec. 17. Dec. 23. Dec. 30. Gold redemption fund: Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 30. Total gold reserves: Dec. 3. Dec. 30. Consultation of the serve agents of the serves of the													
Dec. 3	24, 275 30, 399	30, 128 42, 792	63,012 62,862	85, 135, 89, 953	24,579 27,035	6,725 6,027	51,857 51,847	15,424 15,921	13,937 13,085	26,303 24,492	3,657 3,880	43,711 $42,624$	388,743 410,917
Dec. 17	32,735	42,792 24,557	47,916	79,715	28,502	6,012	40,785	20,590	11,378	26.522	3,149	32,005 21,079	410, 917 353, 866 363, 723
Dec. 30	41,206	53, 976 36, 435	62,862 47,916 51,124 53,119	79,715 96,540 81,726	19,810 21,767	5,953 4,195	26,110 33,155	18,686 21,853	11, 234 10, 249	18,527 21,686	3,149 3,733 2,361	21,079 28,492	356, 244
Hold with foreign agencies:	4.980	24,677	5, 458	5, 595	3,343	2,456	8,119	3,207	1,842			3, 138	
Dec. 10	4,945	24,862	5, 420	5,555	3,320	2,439	8,062	3,184	1,829 1,829	3,275 3,252 3,252	1,761	3,116	67, 864 67, 745 67, 745
Dec. 23	241	24,862 1,211 1,211	5,420 264	5,555 270	162	119	1 393	155	89	158	86	3,116 152	3,300
Dec. 30	241	1,211	1	270		119	i	155	89	158	86	152	3,300
Dec. 3	128, 243	248, 236 237, 200 245, 765	132, 797 130, 494	151,715 162,174 178,176 177,730	44,866	60,482 62,507	183,027 191,484 211,576 208,129 198,554	48,400	25,377 25,428 25,629 25,980 25,905	38,678 39,643	27, 215 25, 795	105, 168	1, 194, 204 1, 210, 563 1, 269, 725 1, 253, 492 1, 276, 214
Dec. 17	141,216	245,765	132,063 129,944	178,176	51,938 49,273 47,758	61,00	211,576	47,883 47,270	25,629	39,637	23,675	114,440	1,269,725
Dec. 23 Dec. 30	. 138,416 . 135,357	235, 127 254, 575	129,944	177,730 177,694	53,917	62,579	198,554	49,647 49,668	25,980 25,905	40,399 41,248	22,662 26,484	115,121 119,060	1,253,492 $1,276,214$
old redemption fund:	22 000	38,000	1		1	1			l .	l .	f ' !		1
Dec. 10	17,846	38,000	11,543	12,472 11,583	6,117	9,128 7,104	34,315 25,186 22,517 5 24,815 33,252	6,103 5,548	4,071 3,807	5,194 4,738	5,875 6,961 7,730	11,031 $12,744$	151,177
Dec. 17 Dec. 23	13,333	38,000 39,000	14.059	13,700	8,419	8,93	22,517 $24,815$	6,142 6,014	3,617 3,026	5,201 6,027	7,730 8,498	12,089 13,307	150,538 161,538
Dec. 30	- 18, 252	39,000	8,851	14,603		10, 213	33, 252	6,087	3,026 3,079	4,853	4,447	10,369	159,623
Dec. 3	. 189,037	450,59	213, 283	274, 549 274, 699	85,074	85,42	299,311 298,397	76,009	52,519	74,256		177,700	2,022,675 2,035,271
Dec. 17	194,252	461, 273 444, 265	2 199, 451	1 283 467	90,857 91,253	84,66	4 298,397 9 304,640	75,411 80,065	51,448	73,006 75,516		175,062 187,208	$\begin{bmatrix} 2,035,271 \\ 2.042.368 \end{bmatrix}$
Dec. 23	203, 195	473,618 466,26	3 201,431	281, 467 299, 109 285, 200	81,828	86,27	304,640 2 288,672 2 294,389	80,375	49,424	69,118	44,627	178, 133	2,042,368 2,055,802 2,059,333
Legal-tender notes, silver. etc.:	200,000	400,20			1	1	1	.1	1	1	1	}	}
Dec. 3	9,84	135, 29 136, 76 138, 26 139, 32 143, 97	1 655 3 777	2,11' 2,170 2,04'	7) 893 786		$ \begin{bmatrix} 11,594 \\ 11,995 \end{bmatrix} $	6, 219 5, 542	196 116		$\begin{bmatrix} 3,972 \\ 3,940 \end{bmatrix}$	442 436	
Dec. 17	10,88	138, 26	1 696 2 786	2,043 1,96	904	2,34	8 12,07	5, 450	127	2,309	4,255 4,088	i 750	180,100
Dec. 30	12,32	143,97	1,02	2,12		1,99	7 12,63° 9 13,94	7 5, 169 4 6, 021	248 257	2,37	4,088	947 1,136	180,952 189,830
Total reserves: Dec. 3	. 198,88	585,88	8 213,93	276,66	85,96	87.49	4 310,90	82,228	52.71	76,48	48,891	178,142	2, 198, 195
Dec. 10	204, 52	0 598,03 2 582,52	61 212 13	3 276.87	5 91.643	86,73	2 310,38	80.953	51,56	76,48 75,27 77,82	48, 781	175, 498	2, 212, 407
Dec. 23	214,35	612, 94	0 202.21	301,07 287,32	92,15 7 82,23 6 88,52	87,49 86,73 87,23 7 88,11	7 316,71 9 301.30	5 85,518 9 85,544	49,672	71,49	6 48,715	179,080	2,198,195 2,212,407 2,222,468 2,236,754 2,249,163
Total reserves: Dec. 3.	219,15	610,24	2 202, 25	287,32	88,52	86,09	1 308, 33	88,904	48,70	74, 27	47,632	187,717	2, 249, 163
obligations.			1	1				1				1	
Dec. 3	78,09	7 441,62	3 122,62	91,22	1 47,92 2 47,90	68,60	9 147,50	50,76	13, 45	26, 25	8 17,248	55, 360	1, 160, 688
Dec. 17	78, 62 77, 24	41 464, 24	8 132, 62 9 125, 19 1 124, 91	90,24 7 73,18 1 93,38	2 47,90 0 46,15	3 68,71 2 66,33	3 134 87	RI 48 40	17,13° 22,64°	7 26,15 3 30,74 0 27,70	7 19,940 9 16,253	53, 693	1, 169, 244 31, 158, 974
Dec. 23 Dec. 30	83, 46 78, 74	$9 461,01 \\ 1 445,92$	1 124, 91 6 115, 67	1 93,38 7 95,42	0 46,15 1 45,85 4 43,28	3 60,83 8 61,9 7	7 140, 64 2 142, 62	6 48,400 5 49,300 3 41,70	5 22,643 8 15,576 7 18,00	0 27,70 30,01	7 19,318 2 15,037	55, 25	1, 158, 974 3 1, 177, 263 1, 141, 036
All other—	04 10	1	1	1			1			1 .) '	i	1
Dec. 10	94,19	9 522,47 6 495,04	$ \begin{array}{c c} 3 & 41,16 \\ 3 & 32,92 \end{array} $	9 100,00	5 65,08 3 62,07 7 65,66 4 69,42 9 69,59	4 66,71 5 68,50	7 307 78	9 70 40	9 63,55	9 87.66	2 55,849 1 55,509	1117 413	1,616,116 1,547,59
Dec. 23	81, 27 98, 45 99, 80	0 388,99 9 446,19	6 40 15	7 101,72 $7 98,36$	7 65,66 4 69,42	5 68,50 2 68,32 9 74,09	26 311,27 08 337,23 '7 333,24	9 68,80 2 66,64	6 60,58 5 62,59	4 84,78 3 86.72	6 53, 988 7 54, 945	110,47	3 1, 437, 773 3 1, 554, 423 3 1, 578, 098
Dec. 30 Bills bought in open market. 2	99,80	2 458,31	3 57,88	6 103,90	9 69,59	8 72,17	7 333, 24	6 69, 51	63,66	81,08	2 53,848	115,06	1,578,098
Dec. 30. All other— Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 30. Bills bought in open market. 2 Dec. 16. Dec. 17. Dec. 23. Dec. 10. Dec. 17. Dec. 23. Dec. 30.	21,39	89,92	4 13,79 9 14,30	$\begin{bmatrix} 27, 51 \\ 27, 07 \end{bmatrix}$	1 5,37	6 2,56	5 24,98 4 23,43	6 1,61	1,48	3 1,65	1 215		243,055
Dec. 17.	20, 89	2 = 89,35	9 14,30 7 13,62	$\begin{bmatrix} 27,07 \\ 0 & 26,07 \end{bmatrix}$	1 5,37 0 5,60 4 5,73	6 2,56 9 2,63 7 2,63 7 3,11	34 23,43 37 24,50	5 973 5 1,90	3 1,53 8 1,30	5 1,93 3 1,74	5 215 1 215		5 244,690 234,609
Dec. 23	19, 22 19, 53	9 96,82	9[13,89]	2[26, 22	9 5,19	7 3,11	24,39	5 1,76	9 1,2 0	3 1,90	4 198	47, 21	3 241,16
United States Government bond	S.	1	1		1			1	1	-	1	· 1	
Dec. 3 Dec. 10	53	9 1,46	7 1.434	4 83 83		3 11 3 11		$0 1,15 \\ 0 1,15$	3 11 3 11		$\begin{bmatrix} 7 & 3,979 \\ 7 & 3,979 \end{bmatrix}$	2,63	26,85° 26,85°
Dec. 17 Dec. 23	53 53		8 1.43	4 83	4 1,23	3 11	4,49	0 1.15	3 11	6 8,86	7 3,979	2,63 2,63	2 26,859 2 26,859 2 26,859
Dec. 30	53	9 1,46	8 1,43	4 83	1,23	3 11 3 11		0 1,15 0 1,15	3 11 3 11	6 8,86	7 3,979 7 3,979 7 3,979 7 3,979 7 3,979	2,635 2,635	26,85
United States Victory notes:		5 8	50	. 1	o		3				1		. 6
Dec. 10 Dec. 17	1	<i>0</i>) (6	0	.(1	0	-				-	1		
Dec. 23		5 8	01	. 1	0		3				į i		. 6
United States certificates of in		5 8		1 1	0	1	3		-	1	1	·	. 6
debtedness: Dec. 3	44, 62	61,65	31,28	8 23,29	9 12,26	2 15,66	39,61	2 17,69	8 8 10	1 10 00	1 0 00	11 90	1 997 01
Dec. 10	45,13	1 72, 12	21 31 44	7 43,79	9 12,26	2 16,16 2 16,16 2 16,17	38 49.61	2 16,85	6 8,48 1 8,48	1 12,82 1 12,82 0 12,88 0 12,88 0 12,82 0 12,82	1 8,300 1 8,300 1 8,300 0 8,300	11,30 11,30 10,88 11,36	1 287,01 1 328,29
Dec. 17	21,57	4 78,66	6 31,31	7 43,79 1 55,79 1 23,79 7 23,79	9 12,26 9 12,26 9 12,26 9 12,26	2 16,17 2 16,67	72 39.89	5 16,54 6 16,10	1 8,48 2 8,48 8 8,48	$0 12,88 \ 0 12.82$	1 8,300 0 8.300	10,88	1 365,555 5 281,25 2 261,26
Dec. 30	21,70	59,69	2 30,74	7 23,79	9 12,26	2 16,67	39,61	2 16,08	2 8,48	o î 2 ,82	0 8,30	11,09	2 261, 26

Resources and liabilities of each Federal Reserve Bank at close of business on Fridays, Dec. 3 to 17, and on Thursdays, Dec. 23 and 30, 1920—Continued.

RESOURCES-Continued.

	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
Total earning assets: Dec. 3	238, 856	1, 117, 194 1, 086, 238	210, 304	255,000	131,875 129,082	153,677	535, 666	141,944	89, 984	135,938	85, 591	237, 763	3,333,792
Dec. 10	210,911 $223,275$	1,086,238 1,064,602 1,084,220 1,075,351	213,629 $220,705$	257,624 242,617	131, 046 133, 974 131, 633	153.585	514,835 546,658	136, 814 134, 983	90, 828 93, 126 87, 962 91, 678	139,025 138,026	82,735	225, 909 227, 046 225, 676	3,316,749 3,223,841 3,281,039 3,263,027
		4,211 4,211	680 681	1,583 1,586	1,334 1,421	625 625	· '	891 891	631 646	915 916	1,554 1,554	231 231	17, 456 17, 658
Bank premises: Dec. 3 Dec. 10 Dec. 17. Dec. 23 Dec. 30 Uncollected items and other deductions from gross deposits: Dec. 30.	2,595 2,652 2,697	4,216 4,345 4,377	681 681 681	1,624 1,642 1,649	1,421 1,421 1,447	629 629 629	2,379	891 891 891	646 648 658		1,621 1,628 1,639	231 231 362	17, 952 18, 168 18, 450
ductions from gross deposits: Dec. 3	52,892 48,635	152,651 126,827	61,167 56,372 74,076	72, 492 63, 433	64, 767 58, 196	27 749	93, 469 83, 354	39, 816 38, 859	23, 943 22, 663	56,600 53,408	43 513	43,496	
Dec. 3 Dec. 10 Dec. 17 Dec. 23 Dec. 23 Dec. 30. Sper centredemption fund against Federal Reserve Bank notes:	52, 892 48, 635 78, 285 58, 362 57, 596	188,520 159,126 139,020	63,271	63, 433 88, 857 72, 772 73, 367	76,522 62,198 58,487	31,691	121,196 102,840 90,431	38, 859 43, 854 42, 442 40, 000	23, 943 22, 663 24, 533 22, 507 20, 359	58, 425 58, 085 53, 618	47,008 42,169 40,355	45,542	902, 042 761, 005 717, 227
Federal Reserve Bank notes: Dec. 3 Dec. 10 Dec. 17	1,072	2,649 2,665	1 300	1,139 1,140		527 476	1,782 949	623 623	487 544	916 916	586	665 665	12, 197 11, 387
Dec. 17. Dec. 23. Dec. 30. All other resources:	1,072 1,072 1,072	2,684 2,727 2,766	1,300 1,300 1,300	1,139 1,239 1,239	601	616 588 614	2,092 1,897 1,820	623 623 623	386 438 550	916 916 916	586	665 665 665	12,530 12,652 12,752
Dec. 3	998 936 448	942 1,546 1,341	938 982	344 787 327	678 377 759	207 202	756 1,023 1,051	489 498 824	177 231 171	297 306 387	916 1,294	644	7,716 8,332 8,430
Dec. 23	436 521 495, 154	1,620 1,584 1,863,535	1,055 488,307	310 318 607, 224	1,177	238 304 270,889	944, 923	661 623 265, 991	225 298 167, 937	393 374 271,147	1,061	623 644 460, 285	8,417 8,898 6,303,879
Dec. 3	503,873 $500,152$	1,819,523 1,843,886 1,864,978 1,833,340	484,162 490,809 489,210	605 778	281 170	271 933	937,177 958,268 955,929	261,296 268,521 265,144	166, 476 168, 786 161, 452	268, 267 277, 596 269, 936	183, 293 181, 645 181, 037 172, 684	464,447 479,495 453,187	6,233,038 6,387,263 6,318,035 6,269,517
Dec. 30 Includes bills discounted for other Federal Reserve Banks: Dec. 3	,							i					152, 690
Dec. 10	17,796 15,298 19,926		18,666 19,796 21,779	88,920 75,860 78,489									125,382 110,954 120,194 115,257
² Includes bankers' acceptances bought from other Federal Re- serve Banks without their in-													110,201
Dec. 3 Dec. 10			2,421 1,006									6,917 6,917	9,338 7,923
dorsement: Dec. 3 Dec. 10. Dec. 17. Dec. 23. Dec. 30.												6,917 6,917 6,917	
				LIA	BILITI	ES.	•			<u></u>	· · · · · · · · · · · · · · · · · · ·		
Capital paid in: Dec. 3	7,669 7,718	26, 245 26, 185	8, 493 8, 493	10,352 10,352	5,277 5,285	4,015 4,023	13,894 13,901	4,360 4,364	3,398 3,398	4,457 4,460	4,085 4,091	6,895 6,904	99, 140 99, 174
Capital paid in: Dec. 3. Dec. 10. Dec. 27. Dec. 23. Dec. 30	7,669 7,718 7,718 7,718 7,718	26, 261 26, 376 26, 376	8,485 8,485	10,352 10,354	5, 285 5, 283	4,033 4,049	13,907 13,911	4,364 4,364	3,400 3,437	4,456 4,456	4,091 4,098	6,923 6,927	99, 275 99, 458 99, 770
Surplus fund: Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 30.		51,308	13,069 13,069 13,069	13.712	8,067 8,067 8,067	7,050	23,917	5,884 5,884 5,884	9.170	8,395	4, 152 4, 152 4, 152	11.662	164,745
Government deposits:		51,308	13,069	13,712 13,712	8,067	7,050 7,050	20,911	3,004	5, 178 5, 178	8,395	4, 152 4, 152	11,662 11,662	164,745 164,745
Dec. 3	3,228 1,137 608 1,898 2,453	8,981 723 941	1,482 3,053 836	1,709 169 1,899	2, 150 18, 234 2, 365	902 1,312 4,644 1,731 795	1,702 773	1,716	4,472 865	9,810 2,116	1,599 1,709 2,510	3, 263 2, 759 6, 398 4, 676 4, 389	53,173 26,049
count: Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 30.		696,393 683,805 683,866	109,089	147, 258 147, 637 152, 346	59,428 58,828	47, 674	240, 163 239, 815 230, 634 236, 104 240, 241	64,075	44,72	77, 901 76, 067	49,176 48,285	120,316 114,926	1, 763, 823 1, 758, 963 1, 738, 820 1, 721, 393

Resources and liabilities of each Federal Reserve Bank at close of business on Fridays, Dec. 3 to 17, and on Thursdays, Dec. 23 and 30, 1920—Continued.

LIABILITIES—Continued.

	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
Deferred availability items: Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 30. Other deposits, including foreign	41,796 37,443 45,358 44,959 42,720	96, 546 86, 177 110, 830 106, 947 94, 273	46,298 53,931 49,499	61, 159 52, 484 76, 821 60, 399 58, 313	49, 699 *43, 598 46, 266 41, 897 40, 948	22; 307 21, 427 25, 832 20, 145 21, 446	80, 934 57, 098	36, 138 36, 347 41, 512 34, 521 35, 003	16,812	48, 597 46, 707 48, 134 43, 964 45, 056	32,823	35, 406 34, 831	516, 934
Dec. 3 Dec. 10 Dec. 17 Dec. 23 Dec. 30	800	13, 036 15, 001 13, 068 12, 256 11, 284	1.279	445 409 998 565 413	244 240 323 250 270	234 226 262 224 251	2,870	638 669 781 699 542	283 722	965 659		5, 685 3, 476 15, 435 3, 971 4, 288	38, 471 23, 652
Total gross deposits: Dec. 3 Dec. 10 Dec. 17 Dec. 23 Dec. 30. Federal Reserve notes in circula-	159, 697 154, 429 163, 914 157, 377 162, 489	828, 118 793, 964 808, 487 816, 268 801, 291	166, 794 158, 148 161, 892 155, 208 159, 339	211, 497 202, 239 230, 334 199, 217 208, 648	110,700 105,416 123,651 99,431 98,293	69, 192 70, 639 76, 373 68, 930 70, 837	308, 919 301, 778 315, 211 299, 947 305, 613	105, 740 102, 971 108, 166 101, 628 103, 359	66, 684 65, 874 67, 967 60, 423 62, 563	131, 243 127, 551 134, 976 124, 392 121, 201	81, 439 83, 840 82, 075 80, 667 74, 967	161, 758 161, 957 171, 590 146, 865 152, 817	2,401,781 2,328,806 2,444,636 2,310,353 2,321,417
tion: Dec. 3 Dec. 10 Dec. 17 Dec. 23 Dec. 30. Federal Reserve Bank notes in circulation—net liability: Dec. 3 Dec. 10 Dec. 17 Dec. 23 Dec. 30. All other liabilities: Dec. 3	290, 251 289, 134 293, 067 295, 140 291, 196	871, 522 880, 870	272, 128 276, 146 278, 821 283, 740 280, 960	341, 873 349, 311 348, 232 365, 707 350, 725	146, 184 147, 500 150, 399 153, 552 155, 162	172,230 171,693 172,551 176,931 175,166	543,176 541,967 547,950 559,683 548,191	136, 081 134, 279 136, 374 139, 721 136, 610	82,036 81,404 81,501 81,493 80,067	110,768 113,553	81,181 81,296 81,993	262, 938 266, 811 271, 851 272, 548 270, 745	3,312,039 3,311,842 3,344,332 3,404,931 3,344,686
circulation—net liability: Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 30. All other liabilities:	18, 893 19, 430 20, 232 20, 588 20, 441	36, 990 36, 040 36, 754 39, 807 38, 741	22,506 22,527	22, 553 22, 675 22, 802 22, 900 22, 715	11,574 11,562 11,426	14,580 14,929	37,967 38,911 39,359	10,328 10,106 9,918 9,741 9,524	7,628 7,648 7,713	14,400 14,357 14,364	7,325 7,327 7,314 7,321 7,124	10, 439 10, 290 10, 480 8, 010 8, 136	214,523 217,434 218,832
Dec. 10. Dec. 17. Dec. 23.	6,454 6,591 6,978 7,173	47,514 48,466 49,554 50,349 51,108	6,015 6,117 6,285	7, 649 7, 767 8, 002	3,392 3,493 3,590	4,129 4,288	17, 647 18, 372 19, 112 19, 216	3,899	3,092 3,208 3,269	4,605 4,644 4,776 4,855	2,702 2,717 2,806 2,869	7,175 7,385	113,948
Dec. 10	495, 154 489, 516 503, 873 500, 152 501, 368	1,863,535 1,819,523 1,843,886 1,864,978 1,833,340	488,307 484,162 490,809 489,210 490,719	607, 224 605, 778 633, 081 619, 657 614, 456	285, 072 281, 170 302, 356 281, 252 281, 870	270, 889 271, 933 278, 947 276, 101 276, 665	944, 923 937, 177 958, 268 955, 929 949, 834	265, 991 261, 296 268, 521 265, 144 263, 640	167, 937 166, 476 168, 786 161, 452 162, 247	271, 147 268, 267 277, 596 269, 936 265, 022	183, 415 183, 293 181, 645 181, 037 172, 684	460, 285 464, 447 479, 495 453, 187 457, 672	6, 303, 879 6, 233, 038 6, 387, 263 6, 318, 035 6, 269, 517
MEMORANDA. Ratio of total reserves to net deposit and Federal Reserve note liabilities combined—per cent. Dec. 3. Dec. 10. Dec. 17. Dec. 23. Dec. 30.	50. 1 51. 8 55. 6 54. 4	37. 8 39. 1 39. 1 39. 9	56. 1 54. 6 53. 8	57. 5 56. 7 57. 9 61. 2	44. 7 47. 1 46. 1 43. 1	41. 1 40. 4 41. 1 41. 1	42. 7 39. 8	40. 7 40. 8 42. 6 43. 0	40. 4 41. 6	39. 8	40. 8 40. 1 41. 6 40. 4	46. 7 45. 6 49. 5 47. 9	44.1 44.5 45.5 45.1
Contingent liability as indorser on discounted paper rediscounted with other Federal Reserve		40.0 6.700		59.1	10,000	40.7	40. 4	7 937	39.8 24,041		41. 8 30. 563	49.3	45.4
Dec. 3 Dec. 10 Dec. 17 Dec. 23 Dec. 30. Bankers' acceptances sold to other Federal Reserve Banks with-		6, 400			9,831 9,873 10,000 10,000	35, 912 35, 018 36, 757 33, 659			15, 166 11, 684 19, 299 14, 801	28, 265 27, 764	29,808 26,615 23,138 27,711		152, 690 125, 382 110, 954 120, 194 115, 257
out indorsement: Dec, 3. Dec. 10. Dec. 17. Dec. 23. Dec. 30. Contingent liability on bills pur-		7,923 6,917 6,917	1										9,338 7,923 6,917 6,917 6,917
chased for foreign correspondents: Dec. 3 Dec. 10 Dec. 17. Dec. 23 Dec. 23 Dec. 30	1,168 1,168 1,168 1,168 1,168	6,075 6,073 6,077 6,077 6,076	1, 280 1, 280 1, 280 1, 280 1, 280	1,312 1,312 1,312 1,312 1,312	784 784 784 784 784	576 576 576 576 576	1,904 1,904 1,904 1,904 1,904	752 752 752 752 752 752	432 432 432 432 432	768 768 768 768 768	416 416 416 416 416	736 736 736 736 736	16, 203 16, 201 16, 205 16, 205 16, 204

Maturities of bills discounted and bought, also of Treasury certificates of indebtedness held by the 12 Federal Reserve Banks combined.

[In thousands of dollars.]

	Within 15 days.	16 to 30 days.	31 to 60 days.	61 to 90 days.	Over 90 days.	Total.
Bills discounted: Dec. 3. Dec. 10 Dec. 17. Dec. 23.	1,504,172 1,608,042	262,847 264,308 291,146 320,421	498, 665 483, 727 461, 966 405, 606	269, 328 268, 111 278, 583 328, 397	51, 438 55, 947 60, 882 69, 225	2,776,80 2,716,83 2,596,74 2,731,69
Dec. 30. Bills bought: Dec. 3. Dec. 10. Dec. 17.	70,370	280, 406 57, 390 60, 706 61, 770	430, 676 89, 841 86, 765 85, 226	15, 147 17, 243	63,548	2,719,13 243,05 244,69 234,60
Dec. 23. Dec. 30. United States certificates of indebtedness: Dec. 3. Dec. 10.	41,417 60,382	63, 995 64, 745 8, 859 10, 216	75, 119 76, 805 7, 166 14, 398	27, 122 4, 999 11, 499	224, 569 231, 799	241, 16 255, 70 287, 01 328, 29
Dec. 17 Dec. 23 Dec. 30	117, 908 30, 910 10, 924	3, 133 3, 120 3, 446	4,500 41,950 4,499	8,886 8,953 9,492	231,128 196,320 232,902	365, 5 281, 2 261, 2

FEDERAL RESERVE NOTES.

Federal Reserve agents' accounts at close of business on Fridays, Dec. 3 to Dec. 17, and on Thursdays, Dec. 23 and 30, 1920
[In thousands of dollars.]

	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.	Total.
RESOURCES.													
Federal Reserve notes on hand:													
Dec. 3	101,500	162,500	35,680	32,200	24, 429	63,070		17,620	10,650		$14,690 \ 15,280$		596,989
Dec 17	113,640 113,440	163,500 157,200	37,680	31,900 29,960	26, 149 24, 469	62,735 62,595	121,320 128,360	17,620 25,980	10,290 9,840	6,130 5,530	15,280	6,000	606,244 610,554
Dec. 23	113,640	145, 500	32,180 27,180	20,420	22,069	59,055	119,840	23,980		2,820	12,871	33,880	589,905
Dec. 23	118,840	168,000	23,380	31,080	22,069 25,579	60,390	123,360			3,820		36,540	638, 379
Federal Reserve notes outstand-	.		_ ´		<i>'</i>	ĺ)
ing:	207 000	1 000 040	000 004	005 050	151 BB1	100 000	200 000	154 004	02.000	119 504	88, 124	200 510	3,664,949
Dec. 3 Dec. 10	307,829	1,000,046 1,002,794	286, 204 287, 902	367, 953	151,771	177,092 176,532	640 820	154,834 155,898	83,598	113,584 114,770	86,115	303, 776	[3,604,949]
Dec. 17		1,005,464	288, 970	370, 134	157,478	176,410	635, 931	154,484	83, 160	117, 364	85,274	303, 923	3,682,755
Dec 23	307,163	1,031,177	291,852	383, 788	160,842	181.164	641,004	157,502	83,701	119,756	86, 392	310,905	3,755,246
Dec. 30	305,503	1,030,354	293,624	379,751	161,252	179,946	634,429	155,722	81,836	118,605	84,714	313,144	3, 738, 880
Dec. 30				}					j				
Gold and gold certificates—	ł												
Dec. 3.	5,900	209,608		22,775		3,500		7,560	13,052		5,331		267,726
Dec. 3	5,600	209,608		22,775		3,500		7,560 7,560	13,052		5,331		267,426
Dec. 17 Dec. 23	5,600	209,608		22,775		3,500		7,560	13,052		4,331		266,426 266,426
Dec. 23	5,600 5,600	209, 608		22,775		3,500		7,560 6,060	13,052		4,331		264,926
Dec. 30	3,000	200,000		22,110		3,300		0,000	15,002		'		1
Dec 3	27, 343	13,628	18,408	18,940	2,366 2,938	$2,482 \\ 3,207$	8,882	4,209	1,125	2,318 3,283	4,650	19,533	123,884 116,821
Dec. 10	22,785	12,592		19,399	2,938	3,207	8,340	4,292	1,176	3,283	5,230	17,474	116,821
Dec. 17	25,616 $22,816$	11,157 10,519	16,674 14,555	20, 401 19, 955	$3,273 \\ 1,758$	3,705	8,432 8,985	3,679 4,056		2,277 3,039	6,110 5,097		
Dec. 30	19,757	9,967		19, 955	2,917	2,979 3,336	10,410	4,030	1,653	3,888	5,919		118,596
Dec. 30	10,.0.	0,000	11,021	10,010	2,011	0,000	10,110	1,011	1,000	, 5,555	(0,000		
eral Reserve Board-	1					. .							
Dec. 3	95,000		114,389		42,500			36,631	11,200	36,360	17,234 15,234	85,635 85,158	802,594 826,316
Dec. 10	105,000 110,000	25,000	114,389 115,389	$120,000 \\ 135,000$	49,000 46,000	55,800 53,800		36,031 36,031	11,200 11,200	36,360	13,234	99,066	
Dec. 23	110,000	15,000	115,389	135,000	46,000				11,200	37,360 37,360	13,234	101,252	877,710
Dec. 17 Dec. 23 Dec. 30	110,000	35, 000	115,389	135,000	51,000			39,531		37,360	16,234	99,834	892,692
Eligible paper		•		, í	,	,	,	,					
Amount required— Dec. 3.	170 500	771 010	150 407	014 000	100 005	110 010	450 075	100 404	58, 321	34 00g	60,909	105 244	2,470,745
Dec. 10	179,586 172,247	785 594	157 408	210,238	100,905	116,610 114,025	440,275	100,434	58,081	74,906 75,127	69.320	201, 144	2,466,999
Dec. 17	162, 947	759, 699	153,407 157,408 156,907	191, 958	108, 205	115,405	424,355	107, 214	57,531	77,727	61.599	189,483	2.413.030
Dec. 23	162,947 168,747	796,050	161,908	206,058	113,084	118,585	432,875	106, 434 108, 015 107, 214 107, 855	57,721	79,357	63,730	195.784	2,501,754 2,462,666
Dec. 30 Excess amount held—	170, 146	775,779	160,708	202,057	107,335	119, 110	435,875	106,054	55,931	77,357	58,230	194,084	2,462,666
Excess amount held-	14 101	000 110	- 005	***	0 11100	01.005	10.00	10.050	8,255	39,175	12,403	14,593	459,097
Dec. 3 Dec. 10	14, 101 13, 880	266,113 214,299	5,085 13,428		6,723 11,994	21,237 25,820	40,997 35,653			40,526	15,344	19,470	
Dec 17	14, 849	149, 278	6,095	8,150	4,565	21,847	45,785	11,830	13,314	39,443	8,857	9,623	333, 636
Dec. 23	32,410 27,929	176, 671	7,708	10,759	4,966	17,180	68,970	9,784	8,225	36,816	10,728	6,037	390,254
Dec. 30	27, 929	207,707	7,661	22, 493	9,840		65,544	9,152	13,302	35,574	10,902	3,972	430,339
Total resources:	791 050	0.400.70*	010 150	E01 0E1	004 004	400 401	1 425 001	040 000	100 901	272 622	203,341	615 617	8,385,984
Dec. 3. Dec. 10. Dec. 17.	738 784	2,428,705 2,383,387	613,173 626,912	775 610	246 200	438 491	1, 435, 961 1, 438, 651 1, 446, 007	345,938 349 8 50	186,301 192,761	272,633 276,196	202,854	627.022	8,392,973
Dec. 17	736, 615	2,317,406	616, 215	778.378	343, 990	437, 262	1, 446, 007	346,778	189, 474	279.701	194,405	623,469	8,309,700
		.,	1 2227 220				17, 727, 700		1		100,000	سخست سمما	0 400 651
Dec. 23	760.376	2,384,525	618,592	798 755	348 719	1 43X. h63	1 470 XIX	348.768	184.277	279,148	196,383	661,727	8,490,651 8,546,478

Federal Reserve agents' accounts at close of business on Fridays, Dec. 3 to 17, and on Thursdays, Dec. 23 and 30, 1920— Continued.

(In thousands of dollars.)

	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis,	Kansas City.	Dallas.	San Fran- cisco.	Total.
LIABILITIES.													
Federal Reserve notes received from Comptroller of the Cur-									,			*	
rency—gross:											1		
Dec.3	728,400	2,365,100	674.580	703,520	391,600	411,960	1,252,860 1,259,900	389,820	187,720	262,520	196,160	543,640	8,107,880
Dec. 10	742,900	2,371,640	680,580	703, 520	398,060	412,840	1,259,900	392,800	188, 120	264,580	196,160	549,440	8, 160, 540
Dec. 17	748,400	12,378,640	1680,580	711,000	402,440	414,880	1,271,940 1,271,940	402,360	188, 120	267,589	196,160	558, 780	8,220,880
Dec. 23	754,400	2,396,480		717, 560	404,920	416,820	1,271,940	405,000	188,120	268,590	196,161	595,460	8, 295, 941
Dec. 30 Less amounts returned for de-	761,000	2,420,080	680,580	728, 220	410,680	418,680	1,278,460	405,000	188,120	269,500	196,960	602,920	8,360,200
Less amounts returned for de-		i · ·	'	,	,		, ,					,	
struction:													
Dec. 3	319,071	1,202,554	352,696	303,367	215,400	171,798	491, 198	217,366	93,372	142,646	93,346	243,128	3,845,942
Dec. 10	323,628	1, 205, 346	354,998	305,908	217,828	173, 573	497,741	219, 282	94,321	143,689	94,765	245,664	3,876,734
Dec. 17	330,797	1,215,976	359,430	310,906	220,493	175,875	507,649	221,896	95, 120	144,686	95, 886	248,857	3,927,571
Dec. 23	333,597	1,219,803	361,548	313,352	222,009	176,601	511,096		95,769	145, 924	96,898	250,675	3,950,790
Dec. 30 Net amount of Federal Reserve	330,007	1, 221, 726	363,576	317,389	223, 849	148,344	520,671	225, 498	96,844	147,075	98,076	253,236	[3, 982, 941]
notes received from Comp-													
troller of the Currency:						İ							
Dec. 3	400 390	1 169 546	221 224	400 152	176 200	240 162	761 669	172,454	04 348	110 874	102,814	200 512	4,261,938
Dec. 10	410 272	1 166 204	321,004	207 619	180,200	240,162 239,267	762 150	173,518	03 700	120,000	101,395	303, 776	4, 283, 806
Dec. 17	417 603	1 162 664	321 150	400 004	181 947	239,005	764 291	180,464	93,000	122 894	100,274	300,110	4,293,309
Dec. 23	420, 803	1,176,677		404 208	182 911	240, 219	760, 844	181,482	92, 351	122,576	99 263		4,345,151
Dec. 30	424, 343	1, 198, 354	317,004	410, 831	186, 831	240, 336	757, 789	179,502	91,276	122, 425	98,884	349, 684	4,377,259
Collateral received from Federal	1	, ,	,	,	,	,	,	,	,	,	1,	,	_,,
Reserve Bank:	1		i i								ŀ		
Gold—	1	ŀ]								Į.		
Dec. 3	128, 243	248, 236	132,797	151,715	44,866	60,482	183,027	48,400	25,377	38,678	27,215	105,168	1,194,204
Dec. 10 Dec. 17	133,385	237, 200		162,174	51,938		191,484	47,883	25,428	39,643			1,210,563
Dec. 17	141,216	245,765		178,176	49,273				25,629	39,637		114,440	1,269,725
Dec. 23	138,416	235,127	129,944	177,730	47,758	62,579			25,980	40,399	22,662	115,121	1,253,492
Dec. 30	135,357	254,575	132, 916	177,694	53,917	60,836	198,554	49,668	25,905	41,248	26,484	119,060	1,276,214
Eligible paper—	100 005	1 017 000	3.50 400	000 000	110 000	107 047	401 070	100 004	00 550	111.001			
Dec. 3 Dec. 10	193,687	1,017,923	158,492	230,003	113,628	137,847	491,272	123,084	66,576	114,081	73,312	209,937	2,929,842
Dec. 10	186,127	979,893	170,836	215,833	114,139	139,845	485,008	121,458	73,534	115,653	75,664	220,614	2, 898, 604
Dec. 17 Dec. 23	201, 157	908, 977	169,616	200,108	112,770	137,252	501 945	119,044 117,639	65 046	117,170 116,173			2,746,666 2,892,008
Dec. 30	198,075		168, 369	210, 517	117,000	195 272	501,640	115,206	60, 940	112,931	74,458 69,132	100 050	2, 892, 008 2, 893, 005
Total liabilities:	190,010	500,400	700,00%	22±, 000	111,110	100,010	501,419	110,200	00,400	112,931	00,102	190,000	೭, ೧೪೨, ೧೧೩
Dec. 3	731 259	2 428 705	613 173	781 871	334 604	438 401	1 435 961	343 038	186 301	272,633	203,341	615 617	8, 385, 984
Dec. 10	738 784	2 383 387	626 912	775 619	346 309	441 619	1,435,961 1,438,651	342 859	192 761	276 196	202, 854	627 022	8,392,973
Dec. 17	736, 615	2,317,406	616.215	778, 378	343, 990	437, 262	1,446,007	346, 778	189, 474	279, 701	194, 405	623, 469	8,309,700
Dec. 23	760, 376	2,384,525	618, 592	798,755	348,719	438, 563	1,470,818	348, 768	184, 277	279,148	196,383	661, 727	8, 490, 651
Dec. 30	757,775	2, 436, 415	618, 289	813,075	357,923	436, 545	1,457,762	344,376	186, 414	276,604	194, 500	666,800	8,546,478
	, , , , ,	* * * * * * * * * * * * * * * * * * *	/ "	,	, , ,	, , ,	1 ,	, ,	,	, , , , ,	, , , , ,	,	., .,=

CONDITION OF MEMBER BANKS IN LEADING CITIES.

Changes in condition of reporting member | profits tax fell due and when the Treasury banks for the five-week period from November 19 to December 24 were so much influenced by fiscal operations of the Treasury on December 15 that the developments of the first three weeks must be considered separately from those of the last two weeks. For the three weeks ending December 10 the banks show liquidation of 91 millions of Treasury certificates and of 147 millions of "all other loans and investments," composed largely of commercial loans and discounts, accompanied by a decline of 126 millions in net demand deposits. December 15 was the day when the last installment of the income and excess from Federal Reserve Banks on a large scale.

redeemed about 700 millions and issued about 590 millions of tax certificates. These occurrences are reflected in the next bank statement in aggregate increases of 125 millions in United States security holdings and of 96 millions in the other classes of loans and investments, accompanied by a decline of 52 millions in net demand deposits and of 112 millions in borrowings from Federal Reserve Banks. The last week of the period saw considerable liquidation of United States security holdings and of loans, together with a reduction in demand deposits and the resumption of borrowings

Principal resources and liabilities of the reporting banks on each Friday from November 19 to December 24 are shown in the following

Resources and liabilities of member banks in leading cities on Fridays from Nov. 19 to Dec. 24, 1920.

[In millions of dollars.]

•	Nov. 19.	Nov. 26.	Dec. 3.	Dec. 10.	Dec. 17.	Dec. 24.
Number of banks	824	824	823	823	824	824
United States bonds United States Victory notes United States certificates of in-	885 195					903 202
debtedness	345	313	276	254	373	311
- Total United States se- curities owned Loans secured by Government war obligations, including re-	1,425	1,391	1,355	1,338	1,463	1,416
discounts with Federal Re- serve Bank Loans secured by corporate	894	906	901	897	901	889
stocks and bondsAll other loans investments, including rediscounts with	3,044	3,055	3,050	3,064	3, 104	3,127
Federal Reserve Bank	11,430	11,380	11,324	11, 283	11,335	11,260
Total loans and invest- ments, including redis- counts with Federal Re- serve Bank	16, 793	16, 732	16, 630	16,582	16,803	16, 692
Reserve balance with Federal Reserve Bank. Cash in vault. Net demand deposits. Time deposits. Government deposits.	$\begin{vmatrix} 378 \\ 10,992 \end{vmatrix}$	$ \begin{array}{r} 388 \\ 10,892 \\ 2,811 \end{array} $	$10,837 \\ 2,822$	376 10,866 2,809	381 10,814	356 10, 654 2, 789
Bills discounted and rediscounted with Federal Reserve Bank, total		2,174	2,210	2,144	2,032	2,174
Secured by Government war obligationsAll other	884 1,235				888 1,144	
	·	4	·		·	

For the entire five-week period ending December 24 reporting member banks show increases of 19 millions in holdings of United States bonds, including circulation and Liberty bonds, and of 7 millions in holdings of Victory notes. Treasury certificates held showed a continuous decline for three weeks, followed by an increase for the week ending December 17 and a reduction for the following week, at the end of which they stood at 311 millions, as against 345 millions five weeks earlier. Loans secured by Covernment war obligations show moderate fluctuations from week to week, the total on the latest Friday, 889 millions, being 5 millions below the November 19 amount. Loans secured by corporate stocks and bonds, on the other hand, show an almost uninterrupted expansion amounting to 83 millions for cash in vault on December 24 was 356 millions, the five weeks, the expansion for the New York | compared with 378 millions five weeks earlier.

City members alone being even larger than this total. All other loans and investments, including commercial loans and discounts, followed a course described in the opening paragraph and stood on December 24 at 11,261 millions, or 169 millions below the figure shown five weeks earlier. As a consequence of these changes, total loans and investments of reporting banks show a reduction of 102 millions for the period under review.

Government deposits dropped from 173 millions on November 19 to but 17 millions on December 10, but rose to 400 millions on the following Friday, declining again to 344 millions on December 24. Other demand deposits (net) show a continuous decline, except for the week of December 10, and stood at the end of the five weeks at 10,654 millions, 338 millions below the amount at the beginning of the period. Time deposits grew from 2,786 millions on November 19 to 2,822 millions on December 3; then, largely as the result of withdrawals of Christmas savings accounts, they declined to 2,789 millions on December 24.

Member-bank borrowings from the Federal Reserve Banks show a rise from 2,119 millions on November 19 to 2,210 millions on December 3, followed by a decline of 178 millions for the following two weeks, the aggregate on December 17, the Friday after the income tax payments by the public and the issue and redemption of large volumes of Treasury certificates, being 2,032 millions. The last week of the review period saw a resumption of borrowings from the Federal Reserve Banks, the amount on December 24, 2,174 millions, being 55 millions larger than the figure shown five weeks This increase in borrowings, together earlier. with the reduction of 102 millions in total loans and investments, accounts for the rise in the ratio of accommodation to total loans and

investments from 12.6 to 13 per cent.

Reserve balances of reporting members with the Federal Reserve Banks show considerable variations from week to week, but stood at the end of the five-week period only about 10 millions below the figure at its beginning. Cash in vault, after minor fluctuations for the first three weeks of the period, shows the effect of the Christmas demand by a drop of 25 millions for the week ending December 24, a week for which the Federal Reserve Banks show an increase of 60 millions in Federal Reserve note circulation. The amount of

1. ALL REPORTING MEMBER BANKS.

	Boston.	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. 26	48 48 48 48 48	115 114 114 114 114	59 59 59 59 59	93 93 93 93	80 80 80 80 80	46 46	108	35 35 35 35 35	38 38 38 38 38	83 83 83 83	51 51 51 51 51 51	68 68 63 69	824 823 823 824 824
secure circulation: Nov. 26	12,610 12,610 12,711 12,711 12,711	47, 459 46, 729 46, 791 46, 966 46, 791	11,347 11,347 11,347 11,347 11,347	42, 440 42, 464 42, 464 42, 513 42, 515	28,958 29,008 29,008 29,008 29,118	14,630 14,630 14,670	21,548 21,548	16,221 16,121	7,571 7,571 7,571 7,571 7,571	14,751 14,751 14,751 14,751 14,751	19,573 19,573 19,573 19,581 19,581	32,648 32,648 32,649 32,648 32,648	269,707 269,101 269,264 269,434 269,132
Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. United States Victory notes:	19,677 20,375 20,235 20,603 20,922	253,730		61,813 61,873 62,152 61,786 62,665	33,916 33,623 33,595 33,644	27,986 27,909 27,921 27,975		13,670 13,810 14,030 14,576 14,168	9,942 10,005 9,971 9,887	23,523 23,078 24,808	22,490 22,650 22,761 22,156 21,812	66, 479 63, 145 65, 482 65, 891 67, 213	614, 453 613, 933 617, 205 622, 071 634, 342
Dec. 24. Other United States bonds, including Liberty bonds: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. United States Victory notes: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. United States victory notes: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. United States certificates of indebtedness:	5,750 5,866 5,843 5,861 5,850	87,498 89,316 90,614	12,140	19,488 20,158 20,165 20,310 20,363	6,884	4,174 4,161	33,009		1,021	5,204 5,388 5,203 5,326 5,538	2,785 2,725	14,906 15,136 15,204 15,096 18,162	194, 081 196, 279 197, 569 197, 853 202, 093
Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Total United States securi-	18,369 14,975 14,718 27,020 19,931	152,744 127,310 105,030 197,449 160,799	16,250 15,452 14,252 20,224 15,101	15,523 13,882 13,256 27,918 24,138	7,896 7,175 7,277 8,496 7,699	6,733 6,771 6,727 3,173 3,333	50,331 47,176 49,034 39,229 35,863	4,439 3,652 3,631 6,214 4,452	3,207	6,937 6,828 6,862 8,378 7,472	4.058	28.120	313, 179 276, 145 253, 577 373, 486 310, 821
ties owned: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Loans secured by Government war obligations, in-	56, 406 53, 826 53, 507 66, 195 59, 414	512,917 490,065 583,266	75,419	138,377 138,037 152,527	77,030 76,874 76,636 78,004 77,345	53,336 53,391 49,938	158,869 163,234 154,133	39,727	20,279	50,338 50,173 50,339 51,533 52,569	50, 664 50, 828 50, 742 48, 580 47, 866	140,868 136,739 139,191 141,755 144,286	1,391,420 1,355,458 1,337,615 1,462,844 1,416,388
cluding rediscounts with Federal Reserve Bank: Nov. 26 Dec. 3. Dec. 10. Dec. 17. Dec. 24. Loans secured by stocks and bonds other than United	47,090 47,037 48,179 47,756 50,105	425, 081 427, 243 428, 733 427, 797 420, 514	75, 184 74, 205 75, 203 75, 649 77, 368	70, 859 69, 051 69, 335 70, 395 69, 593	28,994 28,589 28,695	30, 989 30, 886 30, 548 29, 722 30, 708	100, 359	32,034	16,504 16,461 15,761 15,664 15,628	30, 199 29, 832 30, 127	10,318	33, 963 34, 091 34, 401 35, 333 34, 684	905, 677 900, 878 896, 565 901, 217 888, 648
States securities: Nov. 26 Dec. 3 Dec. 10 Dec. 17 Dec. 24 All other loans and investments, including rediscounts with Federal Re-	194,219 193,980 193,890 196,029 200,216	1,275,116 1,283,742 1,286,104 1,313,960 1,330,510	202,294 201,499 205,268	324, 489 328, 906 332, 317 332, 954 330, 905	112, 434 111, 460 115, 690 113, 310 113, 479	63, 245 61, 943 60, 820 61, 419 59, 801	439, 652 446, 461	127,530 $125,558$	32,560 34,514 35,135 36,456 36,388	79,000 78,226 79,633	37, 985 38, 510 38, 598 38, 712 38, 505	148,827 148,036 147,996 152,138 150,018	3,050,082 3,064,266 3,103,600
serve Bank: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Total loans and investments, including rediscounts with	799, 918 798, 563 806, 027	4,018,781 3,991,070 3,996,104 4,001,031 3,968,055	581,186 572,847 566,711 569,156 565,042	977,810 977,886 966,070 981,122 985,150	388, 023 387, 776 384, 932 388, 592 391, 445	410,536 411,284 399,974 413,347 404,777	1,757,693 1,740,578 1,737,925 1,751,164 1,755,137	386, 120 384, 362 381, 993 386, 136 383, 284	292,733 287,986 282,341	506,752 501,355 499,756	256,244 253,902 254,744	1,002,317 1,007,584 1,002,149	11,380,126 11,323,767 11,283,099 11,335,565 11,260,544
Federal Reserve Bank: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Reserve balances with Fed-	1,102,265 1,094,761 1,094,139 1,116,007 1,112,693	6, 255, 065 6, 214, 972 6, 201, 006 6, 326, 054 6, 271, 013	934, 891 916, 242 909, 019 925, 492 920, 468	1,512,422 1,514,220 1,505,759 1,536,998 1,535,329	608,152 605,104 605,847 608,601 610,693	557, 992 557, 449 544, 733 554, 426 545, 385	2, 467, 897 2, 439, 458 2, 440, 974 2, 450, 398 2, 454, 312	584,738 580,848 578,510 584,129 576,754	363,924 359,161 356,228	666,124 659,752	355,900 353,473 352,469	1,321,183 1,329,172 1,331,375	16,732,012 16,630,185 16,581,545 16,803,226 16,692,152
eral Reserve Bank: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Cash in vault:	77, 686 78, 398 79, 633 79, 750 76, 866	636,233	07,317		1		1	40,923 37,918 42,911		45,629 43,760 42,366 49,554	23,443 23,999 22,880 23,600	81,020 77,495 78,129	1,286,946 1,332,081 1,330,267 1,297,231 1,333,808
Nov. 26	26, 170 27, 011 26, 280 27, 840 26, 278	132, 913 125, 817 126, 150 123, 000 122, 296	21,390 22,442	39,177	18,313 18,145	16,335 14,529	62,914 64,069	9,459 $11,328$	9,763 8,243 8,910 8,218 8,245	15,153 13,963 14,844 14,798 13,728	12,250 11,066 12,205 11,088 11,301	27,759 25,811 25,586 26,557 24,169	388, 105 375, 887 376, 196 381, 191 356, 110

1. ALL REPORTING MEMBER BANKS-Continued.

	Boston.	New York,	Phila- del-	Cleve-	Rich- mond.	At- lanta.	Chicago.	St. Louis.	Minne-	Kansas City.	Dallas.	San Fran-	Total.
			phia.									eisco.	
Net demand deposits on which reserve is computed: Nov. 26	782, 234 775, 521	4,883,600 4,836,695 4,859,728	679, 899 675, 626 674, 531	921,620 939,869 927,626	332,729	240,582 240,275	1,309,283 1,301,712 1,309,830 1,287,119	303, 632 303, 560	194,807 192,796 198,106	394, 911 394, 868 395, 757	215,975	633,150 627,852	10, 892, 122 10, 837, 478 10, 865, 582
Dec. 3	780, 564 748, 775	4,887,166 4,824,946	654,250	914, 296	328, 667 323, 293	232, 442 234, 538	1,287,119 1,267,642	306, 216 306, 595	188,954	387, 976 393, 146	215,277	631,527 621,639	10, 814, 454 10, 653, 558
Time deposits: Nov. 28 Dec. 3. Dec. 10. Dec. 17. Dec. 24. Government deposits: Nov. 28 Dec. 3. Dec. 10. Dec. 17. Dec. 24. Bills payable with Federal	159, 661 158, 630 158, 535 158, 474 156, 284	444, 210 431, 152 420, 200	38, 728	381, 544 389, 371 387, 469 385, 399 383, 291	107,963 108,317 108,193 106,710 109,377	150, 133 150, 539 152, 088 149, 140 148, 197	640,078 643,865 644,536 644,790 643,114	131, 165	70.364	99,066 99,645 100,037 99,475 99,597	58, 108	526, 433 528, 665 529, 487 529, 158 531, 076	2,811,123 2,822,240 2,809,474 2,790,197 2,788,649
Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24.	6,763 1,346 1,346 33,108 28,050	202, 671	5,769 1,151 1,151 32,000 27,195	12,630 2,479 2,479	1,564 394 412 9,551	871 229 104 3,534	9,516 1,832 1,832 33,993	649	$\frac{267}{5,379}$	1,084 218 218 6,427 5,184	155 2 112	13,273	17,503 17,298 399,968
Reserve Bank: Secured by United States war obliga-		,		, • •	0,201	·		-,**-	-,	,	-	,,	·
Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. All other—	30, 360 29, 568 30, 882 31, 130 32, 716	283, 427 269, 483 309, 971 302, 349	46,977 47,609 44,756 46,682	32,611 24,090 36,341 31,100 39,760	30,348 29,560	32,662 $33,383$	79, 243 84, 135 66, 110	21.950	5,513 5,911 6,186 7,984 5,319	19,450 20,171 19,595 19,925 21,161	17,741 17,582 13,177	28,850 29,640 32,909 28,511 30,053	659,770 623,018 630,403 635,485 645,450
Nov. 26				36 36 36 36 36	400	999 1,105 937 42 57	850 3,165		674 774 767 847 1,243	185 25		85 315 744 174 130	2,069 2,455 3,919 4,289 6,696
eral Reserve Bank: Secured by United States war obliga- tions—				9 900	5, 225	10 704	17 407	9 700	0.447	0.100	9 146	4 695	954 140
Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. All other—	16, 373 18, 018 18, 120 17, 377 18, 820	131, 154	37,370 37,890 35,999	8, 298 7, 925 10, 254 11, 252 11, 572	3, 421 3, 622 3, 489	10,784 10,662 9,998 10,399 10,365	17,004 18,287 20,117	8,700 8,795 9,119 8,427 7,635	2,447 2,685 2,127 2,469 2,230	9, 108 8, 394 8, 140 8, 141 7, 725	2, 146 2, 162 2, 180 2, 323 2, 075	4,635 5,657 5,493 6,600 6,454	252, 284
Nov. 26 Dec. 3 Dec. 10 Dec. 17 Dec. 24	74,173 77,137 74,977 69,748 88,181	437,640 519,855 491,728 379,278 450,506	32, 112	40,331 42,280 38,500 41,725 53,161	39,524 39,817 36,028 40,004 43,589	67,739	255,651 241,127 241,780	62,672 60,158 53,044 50,212 47,291	48,497 45,250	71, 376 72, 055 70, 065 71, 244 71, 119	25,756	75,073	1,258,047 1,330,455 1,257,431 1,139,921 1,268,623
	2.	мемве	R BAN	KS IN	FEDER	AL RE	SERVE	BANK	CITIES	•	·		·
Number of reporting banks: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24.	24 24 24 24 24	72 72 72 72 72	44 44 44 44	13 13 13 13	9 9 9	8 8 8 8	51 51 51	13 13 13 13	11 11	19 19 19 19	8 8 8	15 15 15 15	287 287 287 287 287
United States bonds to se-		72 37,862	7 227	13	9	8		9, 592		19	8	16 650	287
Nov. 26	2, 281 2, 281 2, 382 2, 382 2, 382 2, 382	37,862 37,924 38,099	7,337 7,337 7,337 7,337 7,337	3,671 3,671 3,671 3,671 3,671	2,776 2,776 2,776 2,776 2,776 2,776	3, 100 3, 100	1,439 1,438 1,438	9,592 9,592 9,592 9,492 9,292	2,791 2,791 2,791	4,276 4,276 4,276 4,276 4,276	4,560 4,560 4,560 4,560 4,560	16,650	96, 335 96, 335 96, 497 96, 572 96, 372
including Liberty bonds: Nov. 26 Dec. 3. Dec. 10 Dec. 17 Dec. 24.	6,640 6,716 6,713 6,749 6,772	217,871 $216,256$	23, 159 23, 377 23, 454 25, 596 24, 870	7,468	4,457	1,506 1,503	17, 687	5, 403 5, 494 5, 678 6, 373 5, 824	1,866 1,930 1,907	8,095 8,095 8,260 8,123 9,858	6, 438 6, 643 6, 647 6, 702 6, 722	40, 951 37, 371 39, 736 39, 579 41, 319	342,696 340,752 341,200 343,004 349,478
United States Victory notes: Nov. 26 Dec. 3 Dec. 10. Dec. 17 Dec. 24.	372 392 370 387 366	74,806 76,401 77,871 79,587	6,772 6,995 6,825 7,843	2,338 2,337 2,320 2,334	153 153 153 153	165 162 162 162	12,039 12,110 12,127 12,910	532 523 536 645	221 216 216 216	2,578 2,676 2,598 2,760 3,068	859 869 869 869 869	6, 159 6, 111 6, 223 6, 116	106, 994 108, 945 110, 270 113, 982

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

				(In th	ousands	of dollar	rs.]						
	Boston.	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 certificates of				i									
des de la la des agras	8,834	137, 221	14,548	1,701	466	502	18,059	3,228	312	1,677	1,587	16,360	204, 495
Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Total United States securities owned:	6,822	112,368	13, 798	1,726 1,747	462 442	502 502	16, 165	2,628	325	1,628	1,579 1,413	15,363	173,366 153,794
Dec. 17	6, 944 14, 953	184,554	12, 611 18, 341 13, 697	4,597	497	415	11,721	2,609 5,473	1,966	3,764	2,259	17,325	265,865
Dec. 24 Total United States securi-	8,456	148,900	13,697	2,649	381	415	11, 095	3,864	780	2,920	2,045	15,988	211, 190
ties owned:	18, 127	468, 247	51,816	15, 487	8,080	5, 273	49, 244	18,755	5,301	16,626	13, 444	80, 120	750, 520
Dec. 3	16,211	446, 284	51,507	15,392	8,077	5,270	47, 401	18,237	5.198	16,675	13,651	75, 495	719,398
Dec. 10	16,409 24,471	518, 496	50, 227 59, 117	15, 171 18, 070	7, 928 7, 883	5,270 5,270 5,180	47, 033 44, 360 45, 746	18,415 21,983	6,880	18,923	14,390	79,670	819,423
Dec. 24 Loans secured by Govern-	17,976	488,004	54,927	14, 352	7,666	5, 181	45,746	19,660	5,720	20, 122	14, 196	82,843	776, 393
ment war obligations, in-				i								Ì	
Federal Reserve Bank:	20.200	207 670	70 175	10.000	7,806	6 170	60.044	10.202	0.000	10 400	1 001	10 100	671 080
Nov. 26 Dec. 3	39,368 39,263	399,572	71, 162	18, 926 18, 757	7, 463 7, 427	6,170 $6,059$	69, 927	18, 526	9,836 10,025	11,762	1,991 1,937	16, 130 16, 400	670,853
Dec. 17	40,371 40,086	400,782 400,334	72, 175 71, 162 72, 211 72, 735 74, 550	19, 092 19, 658	7,427 $7,287$	6, 167 6, 015	62, 954 65, 595 61, 814	18,988 17,728	9,756 9,677	11,207 11,420	$2,076 \\ 2,122$	16,046 17,909	667,077 670,566
Dec. 24	40,086 42,247	393, 187	74,550	19,658 18,887	7,287 7,312	5,624	61,814	16,807	9,851	11, 183	2,235	17, 909 17, 788	661, 485
Total United States securities owned: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Loans secured by Government war obligations, including rediscounts with Federal Reserve Bank: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Loans secured by stocks and bonds other than United States securities: Nov. 26.													
States securities: Nov. 26 Dec. 3 Dec. 10 Dec. 17 Dec. 24 All other loans and investments, including redisdiscounts with Federal Reserve Bank: Nov. 26	149,783	1, 123, 224 1, 134, 291	191,338	114,845	14,996	8,831	334,531	88,422	17,559	32,928	9,620	69,675	2, 155, 752
Dec. 3 Dec. 10	149,484 149,399	[1, 134, 291]	182,617 182,081	114,936 117,665	14,928 15,066	$7,184 \\ 7,223$	327, 911 334, 673	88, 252 87, 833	18,695	32,632 32,000	9,609 9,611	68,635 68,212	2,148,899 2,157,060
Dec. 17	151,493	1, 134, 291 1, 134, 602 1, 160, 352 1, 177, 291	186,026 187,748	117, 665 118, 596 118, 754	15,014 15,057	7,311	327, 911 334, 673 336, 284 338, 987	88,885 88,744	19,542 20,120	33,315	9,856 9,364	69,996 60 157	2,155,752 2,148,899 2,157,060 2,196,670 2,222,150
All other loans and invest-	100,000	1,111,231	101,140	110,101	10,007	,,110	000,001	00,111	20,120	01,120	0,004	00,101	2,222,100
ments, including reals- discounts with Federal													
Reserve Bank: Nov. 26 Dec. 3. Dec. 10. Dec. 17. Dec. 24. Total loans and investments, including rediscounts with Federal Reserve Bank: Nov. 26 Dec. 3. Dec. 10. Dec. 17. Dec. 24 Reserve balances with Federal Reserve Bank: Nov. 26 Dec. 3. Dec. 10. Dec. 17 Dec. 24 Cast in vault: Nov. 26 Cast in vault: Nov. 26 Nov. 26 Cast in vault: Nov. 26	581, 115	3, 539, 739	510,627	309,002	73,605	71,698	1,037,274	255,028	143, 513	177.847	66,939	484.937	7,251,324
Dec. 3	577,563	3,539,739 3,515,362 3,522,374 3,528,957	502, 389 496, 213	310, 104 309, 517 313, 029 315, 460	74, 255 73, 273 72, 840 74, 996	72,659	1,037,274 1,021,271 1,021,229 1,032,208 1,043,887	255,744	143,513 140,113 137,064 134,710 132,950	177, 219	66,061 66,085	493,532	7,251,324 7,206,272 7,200,603 7,232,702 7,189,218
Dec. 17	584,600	3, 528, 957	500, 607	313,029	72,840	71,366	1,032,208	257,089	134,710	173,397	66,940	496,950	7,232,702
Total loans and investments,	582,958	3, 499, 478	494,870	315,460	74,996	70,883	1,043,887	254,847	132,950	169,640	66,557	482,692	7,189,218
including rediscounts with		}											
Nov. 26	788,393	5,528,888 5,495,509 5,485,497 5,608,139 5,557,960	825,956	458,260	104,487 104,723 103,694 103,024 105,031	91,972	1,490,293 1,466,510 1,465,889 1,478,447 1,490,434	381,528	176, 209 173, 756 170, 796 170, 809	239,830 238,288	91,994 91,258 91,261 93,308	650,862	10,828,672
Dec. 10	783,057	5, 485, 497	825,956 807,675 800,732	461,445	104,723	90,679	1,465,889	378,835	170, 796	235, 633 237, 055	91,258	658,983	10,828,672 10,745,422 10,726,501
Dec. 17 Dec. 24	800,659 798,264	5,608,139 5,557,960	818,485 812,095	469,353 467,453	103,024 105,031	89,872 88,807	1,478,447 1,490,434	385,685	170,809 168,641	237,055 235,671	93,308	664,525 652,480	10, 919, 361 10, 849, 246
Reserve balances with Fed- eral Reserve Bank:	,	ŀ	•				Į.				·		
Nov. 26	61,666 61,940 64,087 64,013	561,804 591,941	59,729 60,884 61,988	27,438 27,610 26,784 27,378 24,944	4,739 5,771 5,574 6,812 6,383	5,610	127, 106 128, 464 126, 533 119, 309 125, 750	29,034 30,419	9,218 7,338 9,550	12,458 17,018	5,441	36,827	941,070
Dec. 10.	64,087	586,096	61,988	26,784	5,574	4,555 4,703 3,983	126,533	29,637	9,550	15,634	6,881	35,943 37,262 35,488	941,070 978,015 974,729 950,616
Dec. 17 Dec. 24	61,430	581,400 596,035	55, 193 59, 939	27,378 24,944	6,383	3,983 4,663	119,309 125,750	29,637 27,733 31,946	9,568 10,815	15,634 13,349 17,907	6,132 6,881 6,390 6,350	35,488	980, 962
Cash in vault: Nov. 26	16,290	116,409	16,658		2.007							10 874	226,985
Dec. 3	16,290 16,850	110,402 111,549	16,715 17,831	9, 252 8, 733 9, 240	1,620 1,787 1,745	2,158	37,716 36,466	4,779 4,735	2,814 2,642 2,892	3,791 3,590 3,913	2,035 1,845 2,135	9,919	217,488 218,635
Dec. 17	16,475 17,756 16,348	110,402 111,549 108,767 108,869	16,658 16,715 17,831 18,342 15,886	9,240 8,298	1,745	2,379 2,158 2,238 2,817 2,038	39,109 37,716 36,466 37,231 36,753	6,479 4,590	2,629	1.3,920	2,135 2,041 1,836	9,919 9,881 10,749 9,354	226,985 217,488 218,635 221,716 211,826
Net demand deposits on	10,340	100,000	10,000	0,200	1,846	2,030	30,733	4,550	2,332	0,410	1,000	9,004	211,020
Nov. 26	600, 297	4,399,615	593, 214	229,442	52,480	37,709	909,917	214,508	83,408	134,764	61,757	304,030	7,621,141
Dec. 3	594,320 596,960	4,399,615 4,356,109 4,383,062 4,404,852	593,214 588,252 587,960 568,410	229,442 233,337 233,030	1 55 UKO	37,709 37,334 37,549	905, 160 912, 125	214,200 217,150	82,910 87,667	139,463 140,528	61,384 60,699	298,820 293,999	7,565,313
Dec. 17	604,072	4, 404, 852 4, 352, 152	568,410 566,742	225,472 218,606	53,538 51,049	37, 121 35, 793	895, 199	214,508 214,200 217,150 215,733 218,212	87,801	139, 463 140, 528 136, 651 138, 952	61,531 59,175	299,668	7,590,048
Time deposits:	577,010	i	i	1	1		1	L			l		i
Dec. 3	57,717 56,936	305,116	28,962 28,551	184,718 188,101	22,546	21,687 21,864	300,899	78,946	28,503	11, 291	6,451 6,540	243,505 245,080	1,290,408 1,294,373
Dec. 10 Dec. 17	56,777 56,666	291,785	27,878	187,575 188,442	22,591 21,584	21,966	302,603	78,950 78,750	28,483 28,573	11,291 11,394 11,301	6,677 6,650	246,082 246,775	1,282,701 1,271,266
Dec. 24.	55,115	282,652	25,738	187,422	21,731	21,688	304,036	78,441	28,531	11,068	6,523	247,608	1, 270, 553
Nov. 26	5,348 1,070	36,526	5, 294 1, 056	3,342		37	5,382	2,793	639				66,483
Dec. 3 Dec. 10	1,070 1,070	7,270 7,270 197,641	1,056 1,056	627 627	36 36	8		608 559	122	164	149	1,028	13, 154 13, 105
Dec. 17 Dec. 24	1,070 22,733 19,298	197, 641 167, 575	30,795 26,172	13,756 12,287	1,286 1,146	75 70		8,978 7,625	4,177 3,551			11,111 10,188	314,965 267,535
Dec. 24. Cash in vault: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Net demand deposits on which reserve is computed: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Time deposits: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Covernment deposits: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Covernment deposits: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Covernment deposits: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Bills payable with Federal Reserve Bank: Secured by United		25.,570	,	-2,207	-,110	'	21,001	1 .,	3,001	, 5,576		1 -0,100	201,000
Secured by United States war obliga-		İ						1		1			
tions-							1	1	i	}		1	
Nov. 26. Dec. 3.	25, 184 23, 953	265, 205 248, 621	45, 852 43, 995	2,530 1,530	l 6.655	1,460 1,250	99 697	13, 119 13, 335	383 455	10,008 10,871	3, 877	18,518 19,014	418,494 396 242
Dec. 10	44. ADD	238, 136 279, 473	43,950	2,730 3,080	6,693 7,112	1.250	11 23.064	12,640 13,164	545	8,846	4, 127	23, 551 20, 476	390,398
Dec. 17 Dec. 24	27,674	270, 837	42, 166	930	7, 101		16, 546	14,686	856	11,307	3,658	21,542	418, 524

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

[In thousands of dollars.]

Adaptation and Allinois Million and Conference of Conference on the Conference of Conf	Boston.	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—Contd. All other— Nov. 26													
Dec. 10 Dec. 17 Dec. 17 Dec. 24. Bills rediscounted with Federal Reserve Bank: Secured by United States war obliga-						• • • • • • • • •	500 2,815 4,210						500 2,815
tions— Nov. 26. Pec. 3. Dec. 10. Dec. 17. Pec. 24.	17,526 17,628 16,954	129, 322 128, 253 124, 410 122, 873 120, 551	36,689 37,227 37,747 25,881 38,460	2,430 1,973 2,271 1,8°8 1,270		1,468 1,619 1,505	9,694 9,257 10,094 11,043 12,612	4,266 4,348 4,605 4,075 3,345	1,5°6 1,883 1,711 1,811 1,837	4,528 4,287 4,044 4,147 3,812	181 163 305 289 261	2,733 3,952 3,500 4,712 4,586	208, 649 210, 537 207, 934 205, 128 206, 265
Nov. 26 Dec. 3. Dec. 10. Dec. 17. Dec. 24.	75,428 73,242 67,824	408, 739 487, 805 460, 366 350, 571 419, 277	33,086 26,674 23,257 29,779 29,373	31, 420 32, 414 30, 540 34, 816 44, 202	6, 134 6, 754 4, 894 6, 488 8, 451	14,541 14,245 12,282 11,855 11,814	183, 195 170, 670 160, 210 165, 097 186, 254	40,849 39,726 33,978 32,955 30,276	45,644 41,216 34,932 30,225 32,912	34,258 35,221 33,827 32,882 33,629	8,820 8,770 9,243 10,188 9,311	39, 193 47, 477 51, 006 43, 762 42, 691	918, 156 986, 400 927, 877 816, 442 934, 270

3. MEMBER BANKS IN FEDERAL RESERVE BRANCH CITIES.

[In thousands of dollars.]

	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.
Number of reporting banks: Nov. 26 Dec. 3. Dec. 10. Dec. 17. Dec. 24.	11 11	40 40 40 40 40	18 18 18 18 18	23 23 23 23 23 23	12 12 12 12 12 12	18 18 18 18 18	29 29 29 29 29	13 13 13 13 13 13	44 44 44 45 45	208 208 208 209 209
Dec. 24 United States bonds to secure circulation: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24 Other United States bonds, including Liberty bonds:	1,599 1,599	25, 249 25, 273 25, 273 25, 273 25, 275	5,608 5,608 5,608 5,608 5,608	7,030 7,030 7,020 7,070 7,030	1,905 1,905 1,905 1,905 1,905	5,280 5,280 5,279 5,279 5,279	5,398 5,398 5,398 5,398 5,398	7,108 7,108 7,108 7,116 7,116	13, 185 13, 185 13, 185 13, 185 13, 185	72,362 72,386 72,385 72,433 72,395
Nov. 26 Dec. 3	12, 103	42,619 42,595 43,146 43,209 44,390	9,088 9,214 9,105 9,172 9,369	22, 333 22, 364 22, 266 22, 290 22, 292	18,812 18,993 21,062 24,075 27,070	7,766 7,777 7,852 7,724 7,844	9,062 8,885 8,962 8,676 8,921	7,251 7,263 7,278 6,701 6,138	22,081 22,361 22,328 22,834 22,485	151,050 151,555 154,056 156,899 161,369
Dec. 17 Dec. 24 United States Victory notes: Nov. 26 Dec. 3 Dec. 10 Dec. 17 Dec. 24 United States certificates of indebtedness:	2,262 2,265 2,282 2,351 1,882	14,001 14,458 14,287 14,694 15,364	2,680 2,688 2,689 2,685 2,668	2,595 2,588 2,775 2,816 2,807	18,606 18,604 18,605 14,462 13,015	2,110 2,101 2,071 2,063 2,048	1,201 1,289 1,215 1,204 1,102	1,176 1,176 1,177 826 773	8,299 8,577 8,518 8,516 8,771	52,930 53,746 53,719 49,617 48,430
Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24 Total United States securities owned: Nov. 26.	6, 165 6, 875 6, 858	10, 291 8, 833 8, 228 19, 089 16, 593	1,083 777 777 2,795 2,700	5,909 5,947 5,903 2,285 2,416	24, 102 23, 053 24, 653 19, 796 17, 755	1,043 867 867 578 427	3,387 3,396 3,406 2,551 2,557	2,064 2,049 2,021 1,370 1,311	9,106 9,060 9,070 9,459 9,207	66,011 62,927 61,110 64,898 59,824
Dec. 3. Dec. 10 Dec. 17 Dec. 24 Loans secured by Government war obli-	22,093	92,160 91,159 91,044 102,265 101,622	18,459 18,287 18 179 20,260 20,345	37, 867 37, 929 37, 974 34, 561 34, 545	63,425 62,555 66,225 60,238 59,745	16, 199 16, 025 16, 069 15, 644 15, 598	19,048 18,968 18,981 17,829 17,978	17, 599 17, 596 17, 594 16, 013 15, 338	52,671 53,183 53,111 53,994 53,648	342,353 340,614 341,270 343,847 342,018
gations, including rediscounts with Federal Reserve Bank: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24.	11,052 11,200	38, 805 38, 956 38, 656 38, 938 38, 853	9,400 8,193 8,004 8,137 8,277	18,533 18,709 18,265 17,689 18,364	15,758 14,505 14,643 15,382 14,759	11,886 12,056 12,066 13,631 11,225	12,057 11,602 11,587 11,754 11,478	3,039 3,168 3,060 3,041 3,057	16,854 16,427 17,093 16,213 15,719	137,248 134,668 134,574 135,897 132,699

[For footnotes see page 126.]

3. MEMBER BANKS IN FEDERAL RESERVE BRANCH CITIES—Continued.

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		ſŦ	n	t.h	2015	ands	of	đol	lar	s

		[[Tubusana	o, dona,	3.1					
	New York district.1	C leve- land district.2	Rich- mond district.3	Atlanta district.4	Chicago district.	St. Louis district.	Kansas City district.	Dallas district.8	San Fran- cisco district.9	Total.
Loans secured by stocks and bonds, other than United States securities: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. All other loans and investments, including rediscounts wirh Federal Reserve Bank:										
than United States securities:	55 961	151 230	21 022	41,192	56,787	37 555	28 027	15,808	71,172	489,664
Dec. 3.	55,961 55,584	151,230 154,333 154,842 154,422	31,932 32,517 32,759 32,885	41,349	56 560	37,555 36,866 36,787 33,781	28,027 27,759	15,837	71,382	492, 187
Dec. 10	55,621	154,842	32,759	41,349 40,286	56,690 56,941 57,776	36,787	27,553 27,749 27,233	15,996	71.680	492, 187 492, 214 491, 657
Dec. 17 Dec. 24	54,941 55,720	154,422 153,555	32,885	41,036 40,363	55,941	33, 781 35, 136	27,749	16,042 16,051	73,860 72,515	491,657 491,220
All other loans and investments, includ-	00,120	100,000	02,011	40,303	01,110	00,100	21,200	10,001	12,010	451,220
ing rediscounts with Federal Reserve			İ	1				1		
Mars 00	100 500	405 00B	116 040	252,606	345,504	115 501	195,833	70 149	470 017	9 969 950
Dec. 3. Dec. 10. Dec. 17. Dec. 24. Total loans and investments, including rediscounts with Federal Reserve	190,374	495,006 491,547	116,949 116,149	252,843	346,825	115,521 113,077	196,635	79,142 78,150	470,917 472,899	2,262,258 2,258,499 2,234,121 2,259,802
Dec. 10	189,689 190,082	481,302 494,497	116,149 116,343	245,005	344,409	112,712 113,480	192,696	77,044	472,899 474,921	2, 234, 121
Dec. 17	190,082	494, 497	118, 134	254,664	347,925	113,480	194,916	76,937	1 469, 167	2,259,802
Total loans and investments, including	187,852	493, 160	116,924	247,010	342, 220	112,498	191,808	76,700	461,214	2, 229, 386
rediscounts with Federal Reserve	! 	í	İ	į	1				1	
				i	i			1	1	
Nov. 26	282,582 281,922	777, 201 775, 995 765, 844	176,740	350, 198 350, 839	481,474	181, 161 178, 024	254,965 254,964	115,588 114,751	611,614	3,231,523 3,225,968
Dec. 10.	278, 603	765, 844	175, 146 175, 285	341,530	480,445 481,967	177,634	250.817	113,694	616,805	3, 202, 179
Dec. 17	279, 178	790, 122	179,416	347, 950	489,486	176,536	250,817 252,248	112,033	613, 234	3,202,179 3,231,203 3,195,323
Doc. 3. Dec. 10. Dec. 17. Dec. 24. Reserve balances with Federal Reserve	277, 738	787, 190	178, 417	340, 282	474,500	174,457	248, 497	111,146	603,096	3, 195, 323
Banks:			1		i	1	į			
Reserve balances with Federal Reserve Banks: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Cash in vault: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 27. Then 24 Net demand deposits on which reserve is computed: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Time deposits: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Time deposits: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Government deposits: Nov. 26. Dec. 17. Dec. 21. Government deposits: Nov. 26. Dec. 17. Dec. 21. Government deposits: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Government deposits: Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24. Bills payable with Federal Reserve Bank:	14,983	52,658	12,006	18,052	24,406	8,744	15,375	7,483	39,230	192,937
Dec 3	15,878	53, 998	12,085	17,786	24 789	10, 144 10, 501 9, 317	16,519	7,994	40, 213	199 406
Dec. 17	15,987 15,006	55,501 56,707	12,320 11,701	18,997 18,028	26, 647 23, 158	10,501	16, 115 16, 698	7,846 7,954	40,377 38,603	204,291
Dec. 24	17, 223	54,932	11,907	18,508	23, 158 25, 924	9,898	18,732	8,077	39,749	204, 291 197, 172 204, 950
Cash in vault:	0.000		Į.		ĺ			i		
Nov. 20 Dec. 3	3,829 3,381	15, 178 17, 020	6,183 5,965	7,455	12,446 12,190	3,788 3,639	6,600 6,084	3,539 3,151	14,944 13,839	73,962 72,479
Dec. 10	3, 447	15, 194	5,614	7,210 7,562	11,057	3, 909	6.358	3, 545	13,831	70,517
Dec. 17	3,952	18,510	5,985	8,011	11,475	3,909 3,878	6,358 6,747	3.058	13,831 14,046	75,662
Dec. 24	3,517	14, 249	5,380	7,158	10, 185	3, 121	6,288	2,715	13, 240	65,853
computed:			}			j			1	1
Nov. 26	163,082	514,520	107,114	155,548	178,093	78,096	148, 289	65,366	297,057	1,707,165
Dec. 3	163,323	527, 126	109,141	155,835 155,309	178,392 178,301	78, 859	146.293	63, 935	296,630	1,719,534 1,716,710
Dec. 10 Dec. 17	163,625 158,870	527, 126 518, 256 510, 936	110,000 106,921	155,309 154,805	178,301 175,400	81,676 79,650	144,843 143,856	64,792	299, 908 298, 800	1,716,710
Dec. 24	160,970	492,912	107,176	154,985	169,576	78,363	143, 536	61,488 65,523	296,594	1,693,726 1,670,625
Time deposits:			1	1			1	i		
Nov. 20	69,819 69,256	115,851	18,934	89,535	221,449	42,546	60,436	23,419	268,527	910,516
Dec. 10	69,365	120, 265 119, 358	18,990 18,502	89,683 89,987	221, 610 220, 412	42,649 42,304	61,074 61,459	23,561 23,459	268, 989 268, 790	916,077 913,636
Dec. 17	69,522	117, 253	18,414	87,674	1 219.138	42, 425	61,531	23 367	267 693	907,017
Dec. 24	69,480	116, 282	18,328	87,938	217,782	42,398	61,869	23, 412	269, 255	996,744
Nov. 26	1, 205	8, 191	917	680	3,230	454	254	50	169	15,120
Dec. 3	$1,205 \\ 242$	1,638	278	195	640	90	51	. 5	18	3,157 3,010
Dec. 10	197	1,638	278	83	640	90	51	5	28	3,010
Dec. 24	1,571 1,394	30, 124 28, 190	3,810 3,252	2,959 2,725	9,900 8,415	1,340 1,138	93 80	138 117	2,060 1,836	51,995 47,147
Bills payable with Federal Reserve Bank:	-,001	20,100	0,202	2,120	1 0,410	1,100		111	1,000	1,111
Bank: Secured by United States war obli-		1]	i		1	1
gations—		-			İ		,		1	[
Nov. 26	21,350	27,877	8,531	26,989	35,979	8,907	5,317	7,253	9,387	151,590
Dec. 3	18,898	19,739	8,153	26,874	35,547	8,985	6,275	6,423	9,641	140,535
Dec. 17	10,092	26 113	0,487	27,490 25,609	39,299 31,344	8,833 8,372	6,823 5,723	5,918	8,390 7,067	151,574 135,646
Dec. 24.	17,068	36,544	9,548	21,883	31,544	8,349	6,318	4,481 3,652	7,168	148, 138
All other—	1	1	1	1 1	'	1	1	, ,,,,,,	1	
Secured by United States war obligations— Nov. 26. Dec. 3 Dec. 10 Dec. 17 Dec. 24. All other— Nov. 26. Dec. 3 Dec. 17 Dec. 21 Dec. 21 Dec. 21 Dec. 21 Dec. 21 Dec. 21 Dec. 21 Bills rediscounted with Federal Reserve				999			25 25		. 85	1,109
Dec 10				1,105 937					315 685	1,445 1,807
Dec. 17.				42			25		. 115	182
Dec. 21. Bills rediscounted with Federal Reserve				57			670		***	857
Bank:						!			1	-
Secured by United States war obli-	!		1		1	1	:	1	1	i
gations—	1 000								1	
Dec. 3	1,877 1,751	5,245 5,228	3,399 2,350	7,502 7,259	4,818 4,421	4,434	2,309	663	1,733 1,572	31,980
Dec. 10	1,776	7,162	2,035	6,625	5,173	4,447 4,514	1,732 1,767	734 715	1,572	29,494 31,567
9attoris- Nov. 26. Dec. 3. Dec. 10. Dec. 17. Dec. 24.	1,622	8,542	2, 174 2, 334	7,146	6,146	4,352	1,856	676	1,810	34,324
Dec. 24 All other—	1,617	9,477	2,334	7,122	6,181	4,352 4,290	1,810	700	1,810 1,796	35,330
Nov. 26	13,416	5,106	13,731	44,735	21,893	21,256	21 .424	7,376	28, 421	177 269
Dec. 3	14,949	5,924	13,310	44,735	23,539	19,974	21,434 20,994	8.078	28, 421 27, 237	177,368 178,940
Dec. 10	13,747	3,899	12, 203 14, 339	42.554	18, 463	18,667	21,096	7,983 7,051	28, 243	165, 855
Dec. 3 Dec. 10 Dec. 17 Dec. 21	15,050 14,462	3,134 3,624	14,339 11,057	42,804 42,455	18,889 19,797	16,853 16,286	22,960	7,051	27,278	168,358 169,218
	1 21,702	0,021	1 11,007	12, 100	19, (9)	10,200	22,217	7,377	28,943	109, 218
1 Duffolo										

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

<sup>Louisville, Memphis, and Little Rock.
Omaha, Denver, and Oklahoma City.
El Paso and Houston.
Spokane, Portland, Seattle, Salt Lake City, and Los Angeles.</sup>

GOLD AND SILVER IMPORTS AND EXPORTS.

Gold imports into and exports from the United States, distributed by countries.

			Im	ports.					E	xports.		
Countries.	During 10 days ending Nov. 20, 1920.	During 10 days ending Nov. 30, 1920.	During month of Novem- ber, 1920.	ending Dec. 10, 1920.	From Jan. 1 to Dec. 10, 1920.	From Jan. 1 to Dec. 10, 1919.	During 10 days ending Nov. 20, 1920.	10 days ending Nov. 30, 1920.	month of Novem- ber, 1920.	ending Dec. 10, 1920.	From Jan. 1 to Dec. 10, 1920.	From Jan. 1 to Dec. 10, 1919.
Belgium Denmark France Germany. Greece. Iceland Italy Netherlands Norway. Portugal Russia in Europe. Spain. Sweden. Switzerland United Kingdom:			\$1,900		\$352,861	\$831,002						\$31,900 2,002,666 4,152,533 312,1'1 15,000 29,270,000 661 67,570
Denmark	***************************************	8001.014	2 100 00	P2 070 411	199,551							2,002.666
Germany	\$300	3091,914	3,186, 20	\$3,976,411	26,830,773		• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	\$10,000	4, 102, 003
Greece.		125,000	125,000		253, 700	95,000						·
Iceland				• • • • • • • • • • • • • • • • • • • •	76.163				• • • • • • • • • • • • • • • • • • • •		912	219 111
Netherlands	182.000	162, 203	314.203	161.735	1.669.0 5						211,200	15,000
Norway					3,321							•••••
Russia in Europa		•	• • • • • • • • • • • • • • • • • • • •		25,361	•••••	• • • • • • • • • • • • • • • • • • • •		•••••	• • • • • • • • • • • • • • • • • • • •		
Spain	55, 168		97, 753	**********	293, 490							29, 270, 000
Sweden	•••••		358,627		714,610			• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	9 601	661
United Kingdom:	•	• • • • • • • • • • • • • • • • • • • •	j		4,937				•••••	•••••	2,001	01,510
England Scotland	16, 474, 179	17, 130, 623	46,681,350	6,945,359	258, 932, 403	3,555,739				• • • • • • • • • • • • • • • • • • • •	13,235	2,088,974
Scotland					4.5	·		• • • • • • • • • • • • • • • • • • • •	•••••			' <u></u>
Total, Europe.	16,711,7.3	18, 112, 776	50, 797, 859	11,034,692	290, 596, 269	4,481,741					268,014	37,911,445
British Honduras												12,000
Canada Costa Rica	581,250	77, 108	1,006,222	21,018	31,031,307	36,565.908	\$238,786	\$79,458	\$476,831	\$114,012	5,477,472	5, 456, 866
Guatemala	1,419		37,326	31,651	608,091	616,593	• • • • • • • • • • • • • • • • • • • •		•••••	••••••		• • • • • • • • • • • • • • • • • • • •
Honduras	18.04	8, 473	26, 517		255,014	258, 255					19,000	21,300
Nicaragua Panama Salvador	36, 289 13, 389	38,596	76, 230	2,185	1,157, 05	1,373,276						5, 456, 866 21, 300 16, 500 1, 390, 000 3, 098, 020 9, 054, 305
Panama Salvador	13,389	1,417 3 12	32,676 257,721	137 590	1 301 280	3,301 686,285		ì -	•••••		20,000	3 098 020
Mexico Newfoundland	105, 180 166, 963	135,984	481,109	137,520 101,828	4,561,050	4, 290, 181	188,691	103,053	449,075	87,595	17, 985, 137	9,051,305
Newfoundland	1					61			100.000	FO. 000	450 000	
Cuba British West Indies		214 928	35,366	4,931	15,331 266,203	18,838	50,000	50,000	100,000	30,000	650,000	7, 940
			,	1,00	200,200	1	3	1			l	i
United States Dominican Re-		• • • • • • • • • • • • • • • • • • • •	j .			525				•••••	10,000	¦
public					4,800		3.000		3,000		47,000	25,000
public. Dutch West Indies Haiti	180,870	70,238	276,603	93,647	884, 40	5,200					47,000	
Haiti			<u></u>		23			<u></u>		•••••	•	•••••
Total, North	1, 106, 701	333, 330	2 230 017	398, 813	43, 617, 151	13,835,876	510, 477	232, 511	1,028,906	251.607	21, 208, 609	19.081.931
America		=====			, , , , , ,							
Argentina Bolivia Brazil	• • • • • • • • • • • • • • • • • • • •	•••••	44,578	•••••	1,707,682	102,158	• - • • • • • •		•••••	• • • • • • • • • • • • • • • • • • • •	30, 250 400, 000 700, 000 236, 000 3, 653, 376 12, 850, 000	51,010,000
Brazil			10,959	422	7,371 43,765	26, 200				24,250	301, 250	2,500,000 525,000
Chile	1, 127	35,805	38,872	422	418,018	226,575			• • • • • • • • • • • • • • • • • • • •		400,000	100,000 5,028,620
Colombia Ecuador. British Guiana Dutch Guiana Peru. Uruguay	1,240,274	769,821	2, 793, 121	249,857	8,811,206 523,893	379, 911			30,000	•••••••••	236,000	3,028,620
British Guiana	1,970		25,612	41,336	1 189.483	120,551		• • • • • • • • • • • • • • • • • • • •				5,005
Dutch Guiana	91 509	2 677	15, 151 41, 503	1,329 28,417	21,728 1,098,905	20,114 717 983			•••••		6,300 3 653 376	19,795 3,3%3,369
Uruguay	21,002	2,011	41,505								12,850,000	7,605,000
Venezuela	43,317	550	52, 421	36, 486	575, 185	381,486					184,000	11, 252, 220
Total, South	1 017 100	000 050	0 000 550	057.047	10 400 000	0 500 000			20,000	04.050	100 200 000	84 400 000
Total, South America China Chosen (Korea) British India. Straits Settlements Dutch East Indies. French East Indies. Hongkong Japan. Russia in Asia.	1,317,190	808,856	3,022,556	357,847	13,400,239	2, 532, 200			30,000	21,250	108, 328, 926	81, 429, 009
China					1,260						28, 286, 750	34,643,361
Chosen (Korea)	•••••	• • • • • • • • • • • • • • • • • • • •			•	1,714	• • • • • • • • • •	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	6 512 371	31 583 913
Straits Settlements										• • • • • • • • • • • • • • • • • • • •	6,683,451	2, 439, 667
Dutch East Indies.		105,946	105,946		2,955,513	3,416,333	• • • • • • • • •	20,000	20,000	• • • • • • • • • • • • • • • • • • • •	12,085,105	7, 136, 000
Hongkong					30, 191, 970	10, 017, 550	67, 950	1,200	278,000	316, 200	29, 629, 212	36,067,461
Japan							5 , 000, 0 00	2,000,000	18, 512, 851	11,005,385	98, 299, 476	92,614,189
Total, Asia	•••••	105, 946	105,916		33,148,683	13, 435, 597	5,067,950	,021,200	18,810,851	11,322,585	183,786,368	201,507,591
Australia			486,650		486,65							
New Zealand	85,660		149,008			1,351,578				•••••	•••••	100 500
Philippine Islands. British East Africa	38, 471	12,321	96, 578		869, 177	551,921					•••••	102,500 240
British South												
Africa British West Africa			423	· · · · · · · · · · · · · · · · · · ·	423	8,150		•••••		••••	30 1/8	
Canary Islands			• • • • • • • • • • • • • • • • • • • •	7,000	7,000						50, 110	
Portuguese Africa.					280,358							
Total, all coun-						20 500 :55	F F50 ::=	2 250 5	10 000 ===	** ***	0010 001 010	D40 000 510
tries Excess of imports	19, 259, 738	19,373,229	56,889,037	11,848,352	1384,256,137	! !		Į.)			310,052,716
or exports	13,681.311	17, 119, 518	37,019,280	249,910	67,621,774							279, 333, 266
	.,	,,	, ,									

Excess of gold imports over exports since Aug. 1, 1914, \$847,380,000. Excess of gold exports over imports since June 10. 1919, \$253,639,000.

1 Includes: Ore and base bullion, \$16,058,000; U. S. Mint or Assay Office bars, \$3,846,000; other refined bullion, \$294,513,000; U. S. coin. \$17,270,000; foreign coin, \$52,569,000.

2 Includes: Domestic exports—Ore and base bullion, \$11,000; U. S. Mint or Assay Office bars, \$37,177,000; other refined bullion, \$1,066,000; coin, \$277,262,000. Foreign exports—Roined bullion, \$193,000; coin, \$617,000.

Silver imports into and exports from the United States, distributed by countries.

			Imp	orts.					E	ports.		-
Countries.	During 10 days ending Nov. 20, 1920.	During 10 days ending Nov. 30, 1920.	During month of Novem- ber, 1920.	During 10 days ending Dec. 10, 1920.	From Jan. 1 to Dec. 10, 1920.	From Jan. 1 to Dec. 10, 1919.	During 10 days ending Nov. 20, 1920.	During 10 days ending Nov. 30, 1920.	During month of Novem- ber, 1920.	During 10 days ending Dec. 10, 1920.	From Jan. 1 to Dec. 10, 1920.	From Jan. 1 to Dec. 10, 1919.
Belgium					\$32,428	\$1,797					\$32,920 54,960	
Denmark Finland								-				\$684,713 17,438
FranceGibraltar	\$1,271	\$500	\$5,274	\$ 3,286	117,210	63,396					\$32,920	6,588,197
GibraltarGermany				116	116	2,400						
Greece					42,240							
GermanyGreeceItalyNetherlandsNorway					54,861					••••••		2,014,084
Norway					14,453 7,978							1,219,430 1,950
Portugal Spain Sweden	24,845		24,845		94,527						F4 000	228
Switzerland					31,395			 			54,960	194,526 172,203
United Kingdom— England	1,928	18,000	21,653	1,132	838,010	61 746		•	\$2.500		4,821,678	15, 592, 627
Total, Europe.	28,044	18,500	51,772	4,534	1,257,244				<u>-</u>		4,909,558	<u> </u>
British Honduras					69,097	269, 276						
Canada Costa Rica	51, 599 20	22, 430	113,970 2,034	51,485 2,164	3,480,932 64,986	6,757,232	\$421,785	\$46, 151	1		I 	
Guatemala Honduras	186,746	86,825	273, 571		24,534 2,554,181	2,589,709	58, 200		58, 205		4,500 449,710	5,900 181,550
Nicaragua Panama	35,030	1,309	36,364 6,939	2,473	668,785 148,199 3,726,781	764, 119 89, 273					3,000 542,000	
Salvador		1,016	10, 916		3,726,781	901, 183						1,500
British West In-		1,051,723	2,888,404	1,316,428		58,869,274 11		48,810		•••••		
dies		3,846	3,846	5	7,022 75,484	6,225 69,709		952 1,695		17,900	46, 208 1, 252, 599	12,628 161
United States Dominican Repub-				• • • • • • • • • • • • • • • • • • •	·	1,105	į			l	25,000	
lic. Dutch West Indies French West Indies	 150		150	70		300	·	1				150,000
Haiti					20 77							
Total, North America	1,302,189	1,167,149	3,336,193	1,372,625	62,567,875	70, 471, 858	512,875	97,608	691, 177	108,744		
Argentina	1,832		9,261		37,324	61,446					12,723	3,005
Bolivia Brazil	'	1	31,400 388	l	1.621	108,487					2,333	1,638
Chile	34, 292	389, 391 14, 193	428,005 47,083		3,634,433	1,837,044						2,000
Ecuador					65,753	13,670					2,333	2,000
British Gulana Dutch Gulana Peru					6,390	265						0,100
Peru Venezuela	247,988 105	60,893	851,733 105	450,500 65	11,605,433 355	7,733,546					10,000	850,000
Total, South America									i			
America	334,881	464, 477				9,960,075					26, 458	864,899
Chosen (Korea)			5,343		1,295,317	3,328	858, 222		858, 222	457,002	60, 556, 237	66,622,230
British India		000 00-				1				419, 197	642,408	109, 180, 718
Chosen (Korea) British India. Dutch East Indies French East Indies		262, 665	262,665	1	2,671,555		1	1	1	í	4,058,373	
Hongkong Japan			• • • • • • • • • • • • • • • • • • •		1,650	20,000	1,011,232		1,175,972 416,005	1,918,049 321,420	23, 539, 640 4, 169, 671	3, 946, 453
Russia in Asia Turkey in Asia					38, 511	1					970	52,759
Total, Asia		262,665	268,008		4,007,033		1.869,454		2, 450, 199	3, 115, 668	92,967,299	189,725,715
New Zealand Pailippine Islands. British South	41 501	183	269 1,203		12,033 18,461	12,327						
Africa British West Africa					6,097	76,822					11,880	17,777
Portuguese Africa					93,321	52,252						
Total, all coun- tries	1,665,656	1,912,974	5,025,420	1,990,348	185,424,747	82, 270, 683	2,382,329	97,608	3,143,876	3, 224, 412	2110,759,716	227, 113, 415
Excess of imports					i	1						

Excess of silver exports over imports since August 1, 1914, \$454,707,000.

¹ Includes: Ore and base bullion, \$67,875,000; U. S. Mint or Assay Office bars, \$3,000; other refined bullion, \$7,529,000; U. S. coin, \$2,000,000; foreign coin, \$8,017,000.

² Includes: Domestic exports—Ore and base bullion, \$16,000; U. S. Mint or Assay Office bars, \$4,351,000; other refined bullion, \$63,986,000; coin, \$14,704,000. Foreign exports—Ore and base bullion, \$1,000; refined bullion, \$23,256,000; coin, \$1,445,000.

General stock of money in the United States, money held by the Treasury and the Federal Reserve System, and all other money in the United States Dec. 1, 1920.

	General stock.	Held in the United States Treasury as assets of the Government.	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-
Gold coin (including bullion in Treasury)	#0 761 990 E10		2 \$1 , 363, 952, 528		serve System.
Gold certificates	\$2,761,338,519	\$430,286,732	315, 429, 770		
Standard silver dollars	269, 857, 494	15, 857, 417	\$ 26,990,623		
Silver certificates	200,001,104	10,001,411	78, 995, 522	76 293 888	
Standard silver dollars Silver certif cates Sub-sidiary silver Treasury notes of 1890.	266, 609, 065	3, 691, 931	11,000,022		
Treacury notes of 1890.	200,000,000	0,002,002			
United States notes	346,681,016	6,962,414	4 67, 241, 420	272, 477, 172	
Federal Reserve notes	3, 662, 522, 795	18, 203, 857	325, 421, 868	3,319,887,110	
Federal Reserve Pank notes	239, 569, 800	4,094,172	24, 842, 950		
National-rank notes	734,010,797	13, 130, 555	2,363,475	718, 516, 767	
Total:					
Γec 1, 1920	8, 281, 589, 486	492,327,078	2,205,258,146	5,584,004,262	
Nov 1, 1920	8,254,949,120	503,605,555	2, 133, 993, 646	5,617,349,919	
Oct. 1, 1920	8, 126, 322, 855	472, 464, 953	2, 110, 500, 713	5, 553, 367, 189	
Sept. 1, 1920. Aug. 1, 1920.	7,997,080,820	485, 884, 277	2,031,514,938	5, 479, 681, 605	51.06
Aug. 1, 1920	7,927,844,377	482,824,265	2,059,010,192	5, 285, 009, 920	50. 22
July 1, 1920	7, 887, 181, 586	485,057,472	2,021,271,614	5,380,852,500	
Jan. 1, 1920.	7, 961, 320, 139	604, 888, 833	2,044,422,203	5,312,009,003	
July 1, 1919	7, 588, 473, 771	578, 848, 043		4,842,345,415	47.83
Jan. 1, 1919. July 1, 1918.	7,780,793,606	454, 948, 160	2,018,561,825	5, 105, 139, 679 4, 267, 739, 209	41.31
Jan. 1, 1918.	6,742,225,784	356, 124, 750 277, 043, 258		4, 255, 584, 692	40.53
July 1, 1917.		253, 671, 614	1,280,880,714	3,945,457,556	
omy 1, 1011	0,400,009,004	200,071,014	1,200,000,114	0,010,101,000	31,00

¹ Includes reserve funds held against issues of United States notes and Treasury notes of 1890 and redemption funds held against issues of national-rank notes, Federal Reserve notes, and Federal Reserve Bank notes, but excludes gold and silver coin and bullion held in trust for the redemption of outstanding gold and silver certificates and Treasury notes of 1890.

² Exclusive of amounts held with United States Treasurer in gold redemption fund against Federal Reserve notes, and of gold held with foreign agencies but inclusive of balances in gold settlement fund standing to the credit of the Federal Reserve Banks and agents.

³ Includes Treasury notes of 1890.

FEDERAL RESERVE BANK DISCOUNT RATES.

Rates on paper discounted for member banks approved by the Federal Reserve Board up to Jan. 1, 1921.

		Paper maturing	within 90 days.			A
Federal Reserve Bank.	Secure	d by			Bankers' acceptances maturing	Agricultural and live-stock paper maturing after 90 days.
	Treasury certificates of indebtedness.	Liberty bonds and Victory notes.	Trade acceptances.	Commercial paper n. e. s.	within 3 months.	but within 6 months.
Boston. New York Philadelphia Cleveland Richmond. Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	6 51 51 6 51 6 51 6 51 6	7 7 6 53 6 7 7 6 61 6 6	7 7 6 6 7 7 6 7 6 6	6 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	7 7 6 6 6 7 7 6 7 6 6

Discount rate corresponds to interest rate borne by certificates pledged as collateral, with minimum of 5 per cent in the case of Philadelphia, Atlanta, Kansas City, and Dallas, and 5½ per cent in the case of Cleveland, Richmond, Chicago, and San Francisco.
 5½ per cent on paper secured by 5½ per cent certificates and 5 per cent on paper secured by 4½ and 5 per cent certificates.

Note.—Rates shown for St. Louis, Kansas City, and Dallas are normal rates, applying to discounts not in excess of a basic line fixed for each member bank by the Federal Reserve Bank. Rates on discounts in excess of the basic line are subject to a ½ per cent progressive increase for each 25 per cent by which the amount of accommodation extended exceeds the basic line.

FOREIGN EXCHANGE RATES.

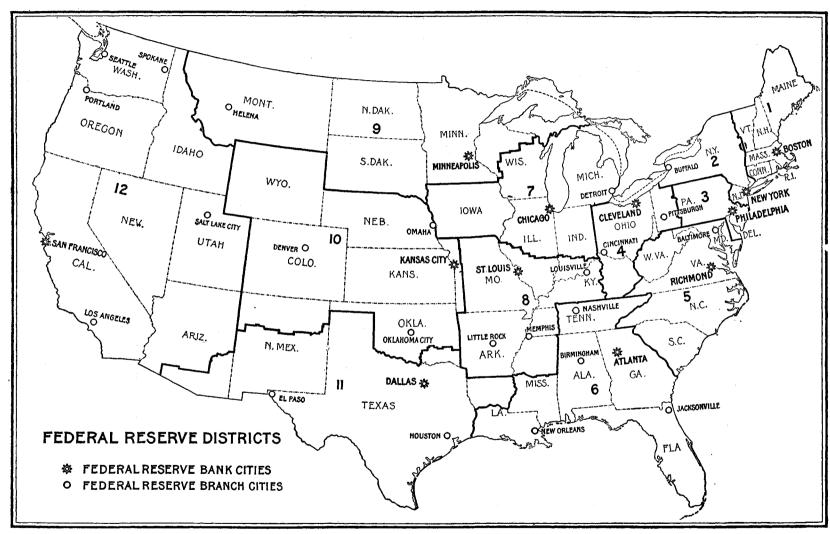
Monthly ranges of exchange rates on leading foreign centers, quoted in New York during the three months ending December, 1920.

	Dollars for—	Exchange at par.	October.		November.		December.		
· · · · · · · · · · · · · · · · · · ·			Low.	High.	Low.	High.	Low.	High.	
London:									
Pemand bills		4.8665	3,4225	3.5075	3.3325	3.5275	3.43875	3, 5275	
Cable transfers	do	4.8665	3.43	3.515	3.34	3, 535	3.44625	3, 535	
Paris:]				[(
Demand bills	100 francs	19.30	6.31	6.75	5.705	6.32	5.81	6.065	
Cable transfers	do	19.30	6.32	6.76	5, 715	6. 33	5.82	6.075	
Berlin	100 marks	23, 82	1.29	1.65	1.10	1.54	1.26	1.445	
Milan:				1			1		
Demand bills	100 lire	19.30	3,70	4.18	3.38	3.88	3.34	3.68	
Cable transfers	do	19.30	3.71	4.19	3, 39	3.89	3,35	3.69	
Prague		20.26	1.13	1.36	1.00	1.33	1.13	1.25	
Vienna	do	20.26	. 32	.45	.29	,36	, 22	.32	
Jugo-Slavia	do	20. 26	.77	. 85	.70	.85	.67	.79	
Warsaw	100 marka 1	23, 82	. 34	.40	.12	.39	.15	.16	
Brussels			6.725	7.09	6.065	6.70	6. 12	6.425	
			13.71		11.80		12.71		
Madrid				14.66	$\frac{11.50}{2.00}$	13.85		13.81	
Helsingfors	100 Barkka	19.30	2.15	2.75		2, 35	2.10	3, 20	
Athens			9.60	10.30	8.45	9.45	7.10	8.45	
Sofia			1.20	1.46	1.02	1.40	1.13	1.30	
Bucharest			1.69	1.96	1.38	1.69	1.07	1.48	
Belgrade			3.00	3.40	2.75	3.49	2.70	3.20	
Amsterdam			30.38	31.9375	29.25	30.65	₹30.375	31.40	
Stockholm			19.30	19.90	18.55	19.45	19. 20	19.90	
Copenhagen	100 kroner	26.80	13,52	14.05	13.05	13.75	13, 70	15.75	
Christiania	do	26.80	13.37	14.05	13,05	13.70	13.70	15.75	
Zurich	100 francs	19.30	15.65	16.07	15.03	15, 75	15,07	15, 67	
Canada	100 Canadian dollars 2	100.00	90.25	92,00 i	88.00	90.75	84.125	88, 00	
Mexico City	100 pesos !	49, 85	49. 4375	49, 875	49.375	50.00	49.125	49.75	
Bogota	100 Colombian dollars 1		81, 63	82.98	81.63	84.74	80.64	86, 95	
Montevideo			118.00	133.82	124.00	133.00	124.00	135.00	
Buenos Aires			78, 973	82, 954	74.725	79.50	74.15	80. 97	
Rio de Janeiro.			16.75	18.375	15, 375	17.50	13.875	16, 25	
Valparaiso			15, 125	16.00	13.50	14.50	13.50	14.50	
Yokohama			50.875	51.25	50, 25	50, 875	49.50	50.375	
Hongkong	100 Hongleong dollars		68, 50	75.00	64.00	71.00	53.50	62.00	
Shanghai	100 Hongkong donais		93.00	105.00	85,00	94.00	73.00	85.00	
Shanghai	100 Chamman dellars	56, 78	43.50	43.75	49.50	43.75	40.50	40.50	
Singapore	100 Singapore donars		28.75	32.50	28.50		26.00	28.50	
Calcutta	100 rupees	5 48. 665	28.75	32.50	28.50	30.25	26.00	28.50	
	((laurented et man (0	1	1.16700		1 11670		0.01		
London average price of silver per fine	Converted at par (£=\$4.8665).				1.11878 7.78762			0.91818	
ounce.	Converted at average rate of						8.65490		
	exchange.	1	: .	41.05		140		700	
New York average price of silver per	Dollars	.	. 84187		.7849		. 65503		
fine ounce (actual).		İ	00000		.77734		4,500		
Do (official)	ao		. 83	3089	.77	734	.64	788	
	i .		1		1		J		

¹ Cable rates.
2 Checks (demand).
3 Rate for a gold milreis.
4 Rate for a gold peso.
5 Equivalent to 10 gold sovereigns, the official rate since Oct. 1, 1920, established by the India Council in lieu of \$32.44, the rate in force before that date.
6 Average rate of exchange for October, \$3.46915.
7 Average rate of exchange for November, \$3.42833.
8 Average rate of exchange for December, \$3.48455.

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The branch at Helena, Mont., has been authorized by the Federal Reserve Board but is not yet open for business.