# FEDERAL RESERVE BULLETIN

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FEDERAL RESERVE BOARD
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The FEDERAL RESERVE BULLETIN is the Board's medium of communication with member banks of the Federal Reserve System and is the only official organ or periodical publication of the Board. It is printed in two editions, of which the first contains the regular official announcements, the national review of business conditions, and other general matter, and is distributed without charge to the member banks of the Federal Reserve System. Additional copies may be had at a subscription price of \$1.50 per annum.

annum.

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, 1917, or 1918 are available.

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#### REVIEW OF THE MONTH.

During recent months the reserves of the Federal reserve banks, in consequence of continued gold imports, Gold and credit. reached the highest figure since the establishment of the system. Memberbank reserves at the Federal reserve banks are also the highest on record. Reserve banks and member banks, however, have utilized these reserves during the past year in altogether different degrees. Measured by total loans and investments the volume of reserve-bank credit is smaller than a year ago, while member-bank credit has increased more than \$2,000,000,000. In fact, the aggregate amount of member-bank credit now in use is approximately as large as at the peak of credit expansion in 1920. Member banks have extended this credit without obtaining from the reserve banks an amount of accommodation even approaching the volume of their borrowings in 1920. This large volume of member-bank credit is the result of increased credit demands which began early in 1922 and became more marked during the second half of that year. This expansion in member-bank credit without a corresponding growth in Federal reserve bank accommodation has been made possible by a continued flow of gold from abroad. This gold was deposited by member banks with the reserve banks and was thus the basis of additional credit extended to borrowers. The inflow of gold of over \$200,000,000 during 1922 corresponds roughly to the increase in the reserves of the reserve banks and also in the reserve balances of member banks. During this period the total of demand and time deposits of members increased \$2,800,000,000. It is impossible to determine the extent to which the influx of gold has stimulated the extension of credit by

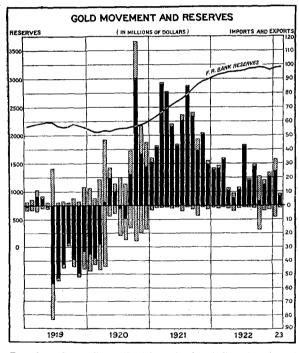
member banks. From the point of view of the Federal reserve banks, however, it is not so important to know whether bank credit would have expanded to the same extent had there been no gold imports, as it is to realize clearly that, if member banks had not received a steady stream of gold from abroad, they could not have extended the additional credit granted by them during 1922 without applying for a larger amount of accommodation at the Federal reserve banks.

The growth of deposit liabilities of member banks at a rate approximately tenfold the increase in their reserve balances is in accordance with experience which shows that their actual reserves never greatly exceed the legally required minimum. This is in striking contrast to the Federal reserve banks which for more than a year have maintained a reserve ratio of over 75 per cent to deposit and note liabilities combined. Thus the inflow of gold in 1922 has maintained the ratio of reserve bank reserves to their increasing liabilities at a relatively constant and high level, and the utilization of the reserve balances arising out of this gold has enabled member banks to extend their loans and to maintain their reserve requirements without additional borrowing from the reserve banks.

Figures which have recently become available showing the condition of all member banks of the reserve system at the end of December, 1922, show that total loans and investments of these banks at the end of 1922 were \$25,700,000,000, indicating but little reduction from the total of \$26,100,000,000, shown at the peak of expansion in November, 1920. During the same period, total earning assets of the reserve banks, which measure the total volume of reserve-bank credit in use, declined from \$3,400,000,000 to \$1,300,000,000, and constituted at the end of 1922, 5 per cent of

member-bank credit, compared with 13 per This change in the proportion cent in 1920. of reserve-bank credit to the total volume of bank credit reflects the effect of the billion dollars of gold imported since the autumn of 1920.

The use made by member banks of gold Gold imports received from abroad has deand the credit pended upon the character of the business and credit situation in the United States at the time. Thus the effect upon credit of the present gold movement which began in September, 1920, may be marked off into two distinct periods. During the first period, which continued until the close of 1921, gold was chiefly used to liquidate borrowings by member banks at Federal re-



Bars above the zero line at the right of the chart indicate imports and bars below represent exports. The solid black portions of the bars represent net imports or exports. The black line shows changes in the reserves of the twelve Federal reserve banks combined.

serve banks, while in the second period, with the revival of business activity and the increased demand for credit, gold was used as a basis of additional lending by member banks. The bars on the chart show imports and exports

indicates changes in the reserves of Federal reserve banks. During the 15 months preceding the present gold inflow the United States lost over \$400,000,000 in gold to South American and oriental countries which had accumulated balances during the war and withdrew them after the removal of the embargo. outflow is reflected in the decline of the reserves. The chart clearly brings out the fact that the heavy gold imports, which began in the last quarter of 1920 and continued through 1921, raised the reserves of the reserve banks to a high level. The gold reaching this country from abroad was taken to the reserve banks and there liquidated a corresponding amount of memberbank indebtedness. During 1922, however, when member banks were receiving little accommodation from the reserve banks, gold imports, which continued, though in reduced volume, were used largely as a basis for the extension of new credit.

During the first period of the present gold movement, when the gold inflow amounted to \$845,000,000, liquidation of credit in the United States was under way, the demand for credit was relatively small, prices were declining, business activity was at low ebb, and the member banks utilized the gold obtained from abroad to reduce their indebtedness at the reserve banks and thus to strengthen their own position. This use of the foreign gold representing the liquidation of debts owed to America by foreigners accelerated the reduction of bank loans which was proceeding independently as the result of domestic conditions. The reduction in Federal reserve bank assets from their peak in October, 1920, to their lowest point in the summer of 1922, was due approximately to the same extent to the liquidation of domestic and of foreign loans. The former is roughly measured by the reduction in Federal reserve note circulation and the latter by the net imports of gold.

The second period in the gold movement, during which net imports totaled \$269,000,000, began about the opening of 1922, but particularly after the first quarter of that year. A of gold since the beginning of 1919 and the line large number of member banks, especially in

the financial East, had paid off their entire indebtedness to the reserve banks and the gold imported during this period, when deposited with the reserve banks, constituted a basis for extension of credit by the member Thus, gold imports during the first banks. period facilitated liquidation of credit while during the second period they were used as reserves against new credit. Furthermore, during liquidation the imported gold canceled a corresponding amount of indebtedness, dollar for dollar, while during the more recent inflow it supported an approximately tenfold increase in the deposit liabilities of member This increase was in response to the domestic credit demand, but in the absence of gold imports member banks would necessarily have borrowed from the reserve banks to meet their larger reserve requirements.

The consequences of any addition to reserve balances, whether they arise from gold imports

Reserve balances and growth of credit. or from reserve-bank accommodation, are important because of the relation they bear to the lending power of member

banks and the growth of credit. The volume of member-bank reserve deposits at Federal reserve banks remains fairly steady, but small changes in these reserves are significant because of their relation to member-bank deposit liabilities. Indeed, over longer periods of time the level of reserve deposits at reserve banks changes less than that of any other big item in the statement. Federal reserve notes, for instance, dropped from a peak of \$3,400,000,000 at the end of 1920 to a low point of \$2,100,000,000 in the middle of 1922. During the same period the deposits of Federal reserve banks rose from \$1,800,000,000 to \$1,900,000,000. The difference in the range of fluctuations between the reserve deposits of member banks and Federal reserve note circulation is a reflection of the difference between member-bank and Federal reserve bank credit. Member-bank credit represents a large part of the Nation's volume of credit, and a relatively small percentage of change in that volume may reflect

the difference between a period of industrial inactivity and of industrial revival. bank credit, on the other hand, is resorted to at times when the ordinary credit facilities are inadequate. When increased credit demands can be met only by recourse to the Federal reserve banks, the volume of reserve-bank lending is a sensitive indicator of credit conditions. But when, as has been the case during the last year, the growing demand for credit has been supported by gold imports, the volume of reserve-bank credit is not an adequate indicator of credit trends. This is evident from the fact that at the present time the volume of reserve-bank credit is at about the same level as a year ago, while the loans and investments of member banks have expanded over \$2,000,000,000.

The increase in the volume of member-bank loans and investments has fur-

Federal reserve nished the business community with the credit needed to finance the recent increase in

production and trade. Increases in the volume of credit, however, are invariably followed by a larger demand for currency. During the past 12 months a part of this added demand was met by the direct use of gold, as indicated by the fact that the volume of gold in circulation increased by \$130,000,000. But this growth of gold circulation was not sufficient to meet enlarged currency requirements and additional supplies of currency could be secured by member banks only through borrowing at Federal reserve banks. It is in this way that the increased demand for credit has led to a demand for additional accommodation at reserve banks, even though the reserves against additional credit have been supplied by the receipt of gold from abroad. It is noteworthy that the increase in the earning assets of the Federal reserve banks since the end of July, 1922, when the demand for bank credit became more pronounced, is closely paralleled by the increase in Federal reserve note circulation. The increased demand for hand-to-hand currency which goes with increased employment, production, and credit caused the banks to borrow from the reserve banks in order to secure Federal reserve notes. Furthermore, when the borrowing is for the purpose of meeting reserve requirements the volume of accommodation needed is on the average only one-tenth as large as the increased deposit liabilities of member banks, but when the borrowing is for the purpose of obtaining currency it equals the amount of currency needed, dollar for dollar. At the present time the relation between the growth of credit and the demand for currency is such that even if gold imports continue at a considerable rate the need for additional currency will keep the reserve banks closely in touch with the credit situation.

Business and credit developments in the United States at a time when other leading

Absence of international gold standard.

commercial countries are not on a gold basis are not subject to the regulating influences that would be operative under an

effective international gold standard. Under existing world conditions of depreciated currencies and gold embargoes, differences in the levels of money rates and prices prevail in various countries without giving rise to corrective gold movements. In pre-war times an unusual degree of loan activity, accompanied by a rise in prices more rapid in this country than abroad, resulted in unfavorable exchange rates and a consequent outflow of gold. Such an outflow tended to check the increase in the volume of bank credit and to bring international price levels and money rates into line. While the United States now has larger gold holdings than ever in its history and its currency is freely convertible into gold for export, this does not constitute an effective gold standard in a regulatory sense. Such a standard presupposes not merely that domestic currency is on a parity with gold but that gold can and does move freely into and out of the country in response to business and credit conditions here and abroad. But present world financial conditions act as an effective check upon our gold 'received from abroad in liquidation of foreign

The volume of our international balance of payments, Government control of gold movements in most foreign countries, and the depreciation of foreign currencies prevent the outflow of gold. Since the beginning of 1921 there have been almost no gold exports from the United States. The largest exports for any month during the period occurred during October, 1922, when the Canadian dollar was at a slight premium and Canadian banks withdrew balances from New York. A relatively small gold movement corrected the exchange rate and the outflow ceased. More recently gold exports on a small scale have been made to British India, which has had favorable trade conditions during the past year and has also purchased gold in the London market. While moderate outward movements of gold, possibly on a somewhat larger scale, may occur during the present year, net imports will probably con-Under such conditions there is little tinue. immediate prospect of international gold movements exercising a corrective influence on our domestic credit developments.

Large gold reserves, the result of an unprecedented inflow of gold due chiefly to conditions abroad, have increased ratio Reserve the lending power of Federal as credit indireserve banks far beyond the cator. present domestic credit needs. Consequently the relation of these reserves to the deposit and note liabilities of the reserve banks as expressed in the reserve ratio is not now a satisfactory indicator of changes in credit conditions. In fact, since the beginning of 1922 the reserve ratio has remained relatively constant around 75 per cent, largely as the result of offsetting changes in gold reserves and in reserve balances of member banks. Gold reserves are now approximately \$200,000,000 above what they were 15 months ago, and during this same period the deposits of reserve banks have increased also by about \$200,000,000. Consequently since the opening of 1922 the effect on the reserve ratio of the growth in liabilities has been largely offset by the increase in gold holdings. Thus the gold

indebtedness has balanced in the reserve ratio the enlarged volume of deposits which have increased in response to the domestic business situation. Under these circumstances, changes in the reserve ratio, since they are the result of diverse and unrelated influences, do not reflect the developments in the domestic credit and business situation.

#### TREASURY FINANCE.

Fiscal operations during March centered as usual about the 15th of the month, when the first installment of income and profits taxes became payable. On the same date semiannual interest on the third Liberty loan fell due, which, with other interest payments, involved the disbursement of about \$135,000,000. There also became payable on the same date about \$366,000,000 of Treasury tax certificates, issued on March 15 and on December 15 of last year.

To meet these disbursements and to cover its other current requirements the Treasury expected to raise about \$400,000,000, the estimated proceeds of the income and profits taxes collectible on March 15, and another \$400,000,000 or thereabouts from the issue on March 15 of two series of Treasury tax certificates, one bearing 4½ per cent interest and maturing in six months and the other bearing 4½ per cent interest and maturing in one year. In announcing these two issues on March 8 the Secretary of the Treasury discussed the situation as follows:

The present offering of certificates is intended, with the balances already on hand, to provide for the payments coming due in March over and above tax receipts, and at the same time to cover the Treasury's further cash requirements between now and the middle of May, when the uncalled Victory notes mature. There will have to be further financing at that time, of course, to refund maturing notes, but the amount involved has already been reduced to manageable proportions, and it will be still further reduced between now and then by exchanges and advance redemptions out of the proceeds of the current offering. This offering of certificates, therefore, will contribute materially to the successful refinancing of the Victory Liberty loan, and when the March operations are completed will still leave outstanding but little more than \$1,000,-000,000 of Treasury certificates—a remarkably low total for this stage of the Government's postwar financing.

Reports received from Federal reserve banks give the total amount of subscriptions received on the two new issues as \$538,859,000. total amount of subscriptions allotted was \$475,451,000, of which \$36,272,650 represent allotments on subscriptions for which Victory notes, Treasury certificates maturing March 15, or 1918 war savings certificates were tendered in payment. These exchange subscriptions were allotted in full. Allotments on other subscriptions, aggregating \$439,178,350, were made on a graduated scale as follows: All subscriptions up to amounts not exceeding \$100,000 for any one subscriber were allotted in full; subscriptions over \$100,000 but not exceeding \$500,000 were allotted 80 per cent, but not less than \$100,000 on any one subscription; subscriptions over \$500,000 but not exceeding \$1,000,000 were allotted 75 per cent, but not less than \$400,-000 on any one subscription; subscriptions over \$1,000,000 were allotted 60 per cent but not less than \$750,000 on any one subscription.

The distribution of amounts subscribed and allotted, by Federal reserve districts, is shown in the following table:

SUBSCRIPTIONS RECEIVED.

Federal reserve district.	Treasury certificates, series TS2- 1923.	Treasury certificates, series TM- 1924.	Total.
Boston	\$11,951,500	\$20, 119, 000	\$32,070,500
New York	80, 992, 500	123, 319, 500	204, 312, 000
Philadelphia	9, 548, 500	35, 160, 500	44, 709, 000
Cleveland	14, 807, 500	30, 927, 000	45, 734, 500
Richmond	4,745,500	11,639,500	16, 385, 000
Atlanta	7, 240, 500	12,500,500	19,741,000
Chicago		37, 632, 500	52, 494, 500
St. Louis	4, 794, 000	16, 502, 500	21, 296, 500
Minneapolis		8, 496, 500	13, 389, 500
Kansas City	6,608,500	14, 104, 500	20, 713, 000
Dallas	9, 337, 500	17, 148, 000	26, 485, 500
San Francisco	18, 162, 000	23, 366, 000	41, 528, 000
Total	187, 943, 000	350, 916, 000	538, 859, 000

#### SUBSCRIPTIONS ALLOTTED.

Federal reserve district.	Treasury certificates, series TS2- 1923.	Treasury certificates, series TM- 1924.	Total.	Exchanges (both series included in total allot- ments).
Boston	\$10,366,000	\$18,042,000	\$28, 408, 000	\$1,584,500
New York	62, 789, 000	118, 685, 500	181, 474, 500	15, 265, 000
Philadelphia	8,001,000	30, 284, 500	38, 285, 500	788, 550
Cleveland	10, 817, 500	26, 687, 000	37, 504, 500	2,622,500
Richmond	4, 495, 500	11, 269, 500	15, 765, 000	715,000
Atlanta	6, 390, 500	11, 395, 500	17, 786, 000	265,000
Chicago	14,005,000	34, 777, 500	48, 782, 500	5, 486, 250
St. Louis	4,049,000	14, 999, 500	19,048,500	1,465,200
Minneapolis	4, 893, 000	8, 496, 500	13, 389, 500	1,419,500
Kansas City	5, 683, 500	12, 497, 500	18, 181, 000	2,742,000
Dallas	8, 187, 000	14, 353, 500	22, 540, 500	1,357,150
San Francisco	14, 575, 000	19,710,500	34, 285, 500	2,562,000
Total	154, 252, 000	321, 199, 000	475, 451, 000	36, 272, 650

#### NOTES.

#### Death of Mr. Campbell.

Mr. Milo D. Campbell, of Michigan, member of the Federal Reserve Board since March 13, 1923, died suddenly on March 22.

#### Governors' conference.

On March 26-29 was held the semiannual conference of the governors of the 12 Federal reserve banks. In addition to meetings of the governors among themselves, conferences were held with members of the Federal Reserve Board and with members of the Farm Loan During this conference the Federal Reserve Board discussed with the governors many matters of operation, including the amendments to the Federal reserve act contained in the agricultural credits act, changes in the board's regulations made necessary by these amendments, the open-market operations of the system, and many matters of a routine nature. The board also discussed with the governors general economic and financial conditions, the conditions of the reserves, openmarket rates for various classes of paper, the demand for credit and the volume of credit in use, and gold movements, present and prospective.

#### Commission to investigate gold and silver situation.

The Senate prior to adjournment adopted a resolution creating a commission of five Senators to study the causes for the continued decrease in the production of gold and silver and of the depressed condition of the gold and silver industry in the United States. This commission is to report to the Senate on January 1, 1924. Following are the members appointed to serve on the commission: Senators Nicholson of Colorado, Oddie of Nevada, Gooding of Idaho, Walsh of Montana, and Pittman of Nevada. The recent death of Senator Nicholson, who had been designated as chairman, leaves a vacancy on the commission.

#### State bank membership in reserve system.

The agricultural credits act provides for the creation of a joint congressional committee to investigate the reasons why eligible State banks and trust companies fail to join the reserve system and the effect of this failure upon financial conditions in the agricultural sections of the United States. The membership of the committee is as follows: Senators Glass, Weller, and McLean; Representatives McFadden, Dale, Strong, Wingo, and Steagall.

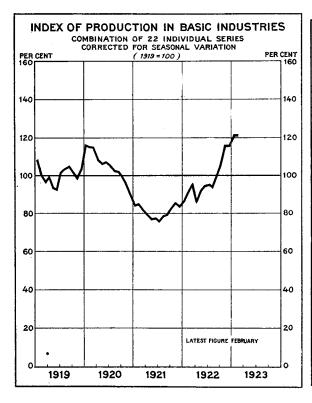
## BUSINESS CONDITIONS IN THE UNITED STATES.

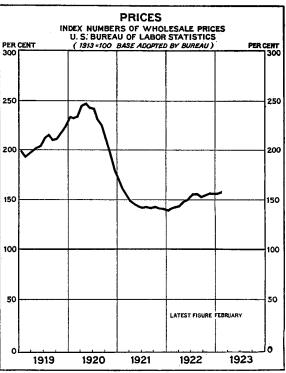
Continued active business is indicated by the maintenance of a high rate of industrial production, increases in freight traffic and employment, and a large volume of retail and wholesale trade.

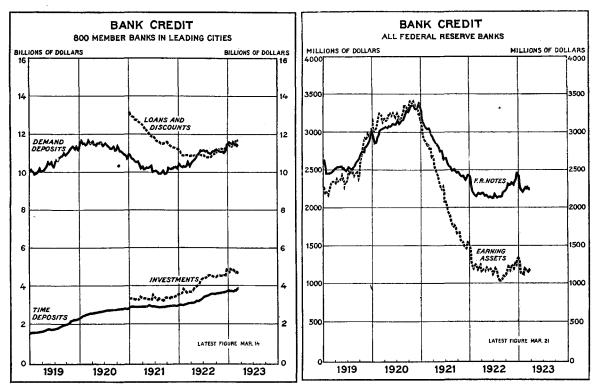
Production.—The Federal Reserve Board's index of production in basic industries for February was at the same high level as in January. The index number for these industries is now approximately equal to the highest point reached in the past. Since the low point in July, 1921, there has been an increase of 63 per cent. The volume of new building projected in February was exceptionally large for the season, particularly in western districts. Railroad freight shipments have been increasing, and the shortage of box cars, which was somewhat relieved in December and January, became more marked in recent weeks.

A continued increase in industrial employment has been accompanied by further advances in wage rates in a number of industries. Many New England wooler mills announced a wage increase of 12½ per cent, effective April 30. A shortage of women workers has been reported in the textile, rubber, and garment industries, and there is a shortage of unskilled labor in many industrial centers.

Trade.—Wholesale and retail distribution of goods continued at a high level during February. Sales of both wholesale and retail concerns reporting to the Federal reserve banks were well above those of a year ago, but the increase was relatively more pronounced in wholesale trade. Mail-order and chain-store business was almost as large in February as in January, despite the shorter month, and sales of 5-and-10-cent stores were actually larger than in January.







Wholesale prices.—The Bureau of Labor Statistics index of wholesale prices advanced slightly during February. Prices of metals, building materials, and clothing increased, while prices of fuels and farm products declined. Building materials and metals during the past year have advanced more than any other groups of commodities and are now about 25 per cent higher than in March, 1922.

Bank credit.—Recent increases in industrial and commercial activity have been reflected in a larger volume of loans by member banks for commercial purposes, especially in the New York, Chicago, and San Francisco districts. Loans of this character by reporting member banks are now approximately \$500,000,000 larger than at the end of December. This increase has been accompanied by a reduction in holdings of investments; so that there has been only a moderate net increase in total loans and investments.

The larger demand for funds has not led to any increase during the past month in the total volume of credit extended by the reserve banks. Total earning assets and loans to member banks on March 21 were approximately the same as four weeks earlier. Borrowings by member banks in the interior increased, particularly in the Chicago district, but borrowings by member banks in the New York district decreased. Since the end of February there has been a small decline in the volume of Federal reserve note circulation, which is now at approximately the same level as six months ago. Other forms of currency in circulation, however, have recently increased.

The market rates on commercial paper advanced further to a range of 5 to 5¼ per cent, and the rate on bankers' acceptances remained steady at about 4 per cent. There has been a slight increase in the yield of short-term Treasury certificates as well as of Government and other high-grade bonds.

#### AGRICULTURE.

Although the mild weather which persisted generally in the agricultural regions during the early winter months was broken by cold waves in February, the early weeks of March were accompanied by higher temperatures and general precipitation, both of which were favorable to the agricultural and live-stock sections of the country. Throughout all districts the crop outlook has greatly improved, and rapid progress is being made in the preparation for spring planting. In the Chicago, St. Louis, Kansas City, Dallas, and San Francisco districts the condition of the fall and winter sown grains showed continued improvement, and is reported to have come through the winter in much better condition than was anticipated. The growth of winter grains was retarded by freezes in Indiana and by cold weather and continued droughts in California. In the districts of Richmond, Atlanta, Dallas, and St. Louis the agricultural conditions are generally good. Tobacco lands are in good shape; beds have been prepared and many planted. Preparation of the fields for corn planting is making rapid progress, and planting has made considerable advancement in Louisiana, Florida, southern Georgia, Mississippi, and Alabama. The cold weather near the middle of March was a retarding factor to farm work in these States, as well as doing some damage to the fruit and truck crops of Georgia and Texas.

With the recent upward movement in the price of sugar, coupled with the unsatisfactory experiences of potato growers during the past season, an increase in the sugar-beet acreage is indicated for the Kansas City and San Francisco districts, although contracts for this year's acreage have not been signed.

#### Grain.

within the United States, as indicated by receipts at 17 interior centers, was considerably less than in January and in February, 1922. Receipts of all grains were 77,002,000 bushels in February, compared with 111,081,000 in January and 105,278,000 in February, 1922. Declines were noted in all grains, but the greatest decreases in receipts were noted for wheat. The export situation continues unfavorable for wheat, as the Southern Hemisphere, particularly Argentina and Australia, is supplying the European markets at prices somewhat lower than American. The American, Canadian, and British visible supply of

wheat was 205,159,000 bushels on March 3, 1923, compared with 203,590,000 bushels the previous month and 177,096,000 bushels a year

ago.

The estimates of grain reserves on farms on March 1 show increases in stocks of wheat, oats, and barley, but decreases in stocks of corn as compared with stocks on March 1, 1922. Prices on March 1, as compared with prices on the same date for the two previous years, were higher for corn, oats, and barley, but lower for wheat. Detail figures for the three years, 1921, 1922, and 1923, are shown in the following table:

STOCKS AND PRICES OF GRAIN ON FARMS MARCH 1, 1921, 1922, AND 1923.

	Stoc	ks (000 omitt	Price per bushel.			
	1921	1922	1923	1921	1922	1923
Corn Wheat Oats Barley	1, 564, 832 217, 037 683, 759 65, 229	1, 305, 559 134, 253 411, 934 42, 294	1,087,412 153,134 421,511 43,592	64. 5 147. 2 41. 9 56. 8	54. 8 116. 9 36. 6 49. 6	74.3 105.1 43.1 57.4

#### Cotton.

The final figures of 1922 indicate a cotton crop of 9,761,817 bales—a reduction of 202,183 bales from the estimate of 9,964,000 bales made in December. As compared with the two preceding crops, the 1922 crop was greater than that of 1921, but considerably smaller than the crop of 13,439,603 bales in 1920. compared with the 10-year (1911-1920) average production, the 1922 crop was smaller by approximately 2,500,000 bales. Stocks at mills and warehouses on February 28 amounted to 6,006,000 bales, compared with 5,469,000 on January 31, an increase of 537,000 bales. An increase in stocks of 196,000 bales as compared with February one year ago is also indicated, the increase being in mill stocks, as there was a slight decrease in stocks in warehouses. Although exports during February were slightly larger than in the same month in 1922, the total exports for the seven months ending February 28 were 3,739,000 bales, as compared with 3,923,000 bales for the corresponding period of last year. The decline in total exports is due largely to decreased shipments to Japan, caused by higher prices as well as the Japanese economic situation and lower prices at which Indian cotton has been obtainable. Since the beginning of the year the price of upland cotton at New York has continued the upward

reaching 31.20 cents, its highest point, on March 14. Weather conditions, with few exceptions, have been generally favorable in all districts for the planting of the new crop. In the Atlanta district planting is reported to be active in southern Georgia and Florida, while in the Dallas district some planting has been done in southern Texas. The cold weather in late February and in the middle of March, although it was unfavorable to early planting and killed some early cotton, has further reduced the potential damage by the boll weevil.

#### Tobacco.

The marketing season for tobacco is almost completed, and on the whole the season has been a successful one for the growers. The quality and yields have been good and prices have been higher than in the preceding season. Although during February many markets were closing, the producers' sales in Virginia markets were 3,633,000 pounds of bright tobacco, compared with 5,029,000 pounds sold in January and 10,644,000 pounds in February, 1922; and 5,541,000 pounds of dark tobacco, compared with 6,294,000 pounds sold in January and 6,217,000 pounds sold in February, The decrease in bright tobacco sales 1922. from February, 1922, is due in part to the exclusion of sales of cooperative warehouses, which were not in operation a year ago. Average prices for bright tobacco in the Virginia markets were \$26.17, compared with \$29.02 in January and \$13.98 in February, 1922. The lower prices in February, as compared with January, were due to the fact that in the closing periods the grades of tobacco handled were generally inferior, as the good grades continued to demand higher prices. The season's sales in North Carolina were 200,403,000 pounds at an average price of \$22.87, as compared with an average price of \$14.83 in the previous season. In the St. Louis district sales were on an enormous scale and prices were in the main satisfactory.

Production of cigarettes, manufactured tobacco, and cigars, was smaller in February than in January. The production of small cigars and manufactured tobacco was slightly smaller than in February, 1922, but cigarettes and large cigars increased. In the Philadelphia district the dull season of the year in the cigar industry is drawing to a close, and orders are reported larger than they were a year ago. The demand is excellent, and sales are greater than during March, 1922. Production in the large factories is near capacity, while in the

small factories it varies from 50 to 100 per cent of capacity. Prices of most cigars and cigarettes are unchanged, although in some lines some concessions were noted in order to induce sales.

#### Fruit.

As the apple season is drawing to a close in most sections of the country, the movement of apples to market during February was smaller than in January, but was greater than in February one year ago. The movement during February was 6,257 cars, compared with 8,171 in the preceding month and 4,683 in February, 1922. The prices paid to the growers have not been satisfactory, and as a result the holdings of apples in storage in the San Francisco district on March 1 were 167 per cent greater than on that date last year. The total movement of oranges and grapefruit in Florida to March 1 was greater than during the preceding season, amounting to 28,329 cars, or an increase of 4,451 cars over the same period one year ago. Increases were noted for both oranges and grapefruit shipments, but the increase in orange shipments was considerably greater that for grapefruit. It is estimated that about 30 or 32 per cent of the crop is yet to be moved. Further improvement of the orange crop in California was noted during February and the estimate of the crop has been increased approximately 4½ per cent, indicating a yield of 9,260,000 The lemon crop, on the other hand, has deteriorated and as the early season estimates have been reduced the total probable yield is now placed at 4,166,000 boxes. Advancing prices for oranges have stimulated the marketing of that fruit, whereas lower prices, coupled with unfavorable weather for picking, have reduced lemon shipments. The shipments for the season from the San Francisco district amounted to 14,405 cars of oranges, compared with 11,506 during the preceding season; and 2,113 cars of lemons, compared with 2,324 cars for the same period one year ago.

#### Live stock.

The marketing of live stock, as indicated by receipts of 57 markets during February, decreased as compared with January, but continued greater than in the corresponding period of last year. The marketing of live stock has been heavy during the fall and winter months, the monthly receipts averaging more than 8,000,000 head, but the February receipts were smaller than any month since August,

The decline was due in part to fewer days in February, but it was also seasonal. Decreases were indicated for all animals, as compared with the preceding month, but increases were noted as compared with the same month one year ago. Detail figures for February, 1923, January, 1923, and February, 1922, are given in the table on page 506.

Pasture and range conditions showed considerable improvement in the Dallas and Kansas City districts. Heavy rains and snows relieved the drought that was prevalent throughout the Southwest during the greater part of the winter months. All stock is reported to have wintered better than usual on account of the mild weather and abundance of feed, and with the progress of the ranges the outlook is promising for the 1923 season. Conditions were not so favorable in the San Francisco district. Severe storms in the intermountain States and a protracted drought in California were the retarding factors during February and early March. Prior to this time the weather was generally favorable and, unless the cold and drought continue, but little permanent injury will be done. Lambing is in progress in all districts under favorable conditions, and some spring lambs have already reached the California markets.

#### MINING.

#### Coal.

Production of coal and coke continue to be maintained at a high level, although prices of bituminous coal have shown a steady downward trend since the first week of January. An average of the prices of 14 important grades of bituminous coal (prepared by the Coal Age) in the week ending March 19 was 9 per cent less than in the week ending February 17 and 30 per cent less than in the week ending January 6. Production of bituminous coal totaled 42,130,-000 tons in February, which was 16 per cent less than in January, but 3 per cent more than in February, 1922. Export demand for gas coal has shown considerable improvement, as a result of the curtailment of production in the Ruhr and the consequent shortage throughout central and northern Europe. Domestic business has been inactive in the Middle West and Northwest, but New England industrial concerns have made heavy purchases. Commercial stocks of coal have shown a steady accumulation since September 1, 1922, and aggregated 38,000,000 tons on February 1.

Operations at anthracite coal mines are still

February totaled 7,773,000 tons, which was about 1,000,000 tons less than in January, but over 1,000,000 tons more than in February of last year. Despite the decline in bituminous prices, steam sizes of anthracite have been moving well and there has been no slackening in demand for domestic sizes. Prices have remained unchanged since early in the winter, although a few operators have recently shaded their quotations on certain steam sizes.

The price of foundry coke advanced slightly during March, as a result of the heavy demands of the iron industry and an increase in exports. Coke sales to householders have now practically Production of by-product coke decreased 11 per cent in February, while beehive

output showed a slight increase.

#### Petroleum,

Advances in crude petroleum prices, which began late last fall, were checked during the latter part of February, and during March the only increase was one of 25 cents upon Gulf coast oil. Prices of refined products have recently been fairly firm, and scattered advances upon gasoline have been announced, but large stocks have held back any substantial increases, despite the higher quotations upon crude oil.

Average daily production of crude petroleum continues to increase, and each week sets a new high record. Although February output totaled less than in January, the rate of production was greater, and stocks on hand at the end of February were larger than they were a month previous. The number of new wells completed during February fell off and was the smallest

since November, 1921.

The greatest increase in production during recent months has taken place in the California fields, and California oil is now being shipped east as a substitute for oil from Mexico, where the output is declining. The rate of production in Oklahoma and Kansas was also greater during February than in the preceding month, but output in Texas and Louisiana fell off during the later month. Weather conditions also retarded drilling operations in Texas, resulting in a decrease in new completions.

#### Metals.

Production of all nonferrous metals decreased moderately during February, but the reduction was largely due to the decrease in number of working days as compared with January. Prices, which rose sharply in February, made more moderate advances during the first three weeks of March. The price of refined elecat nearly a maximum rate, and production in trolytic copper delivered at New York was

17.375 cents per pound on March 21, as compared with 16.75 cents on February 28 and 15 cents on January 31. Decrease in domestic demand in the first two weeks of March was offset by an increase in foreign orders. The Copper Export Association has reduced the stock of copper which it is holding and financing from 400,000,000 pounds to about 50,000,000 pounds during the last two years, as well as marketing a substantial percentage of the current production in that period. It is estimated that the association handles about 80 per cent of the copper exports of the United States. Mine production of copper amounted to 102,515,000 pounds in February, which was 9 per cent less than in January, but was almost

three times as large as a year ago.

Zinc shipments totaled 48,153 tons in February, which was slightly larger than in January and twice as large as in February, 1922. As production only amounted to 42,443 tons stocks were reduced 5,710 tops, or about 34 per cent. Stocks of slab zinc on March 1 were only about one-sixth as large as a year previous and are equivalent to less than one week's supply at the present rate of consumption. The large demand for zinc has resulted in an increase in the price at St. Louis from 7.30 cents per pound on February 21 to 8 cents on March 21. Lead prices at New York increased between these same dates from 8 cents a pound to 8.25 cents. February production of lead was 10 per cent less than in January, but 9 per cent more than in February, 1922. ments of zinc and lead ores from the Joplin district increased during February, as a result of a further increase in ore prices.

Silver production declined 9 per cent during February, but was 22 per cent larger than a year ago. Deliveries of tin to factories were about twice as large as in February, 1922.

#### MANUFACTURES.

#### Food products.

The production of wheat flour during February was somewhat smaller than in January, due mainly to two less working days in the month, as the mills operated at slightly more than one-half of capacity, approximately the same operating ratio as in January. Although the production amounted to only 9,425,000 barrels in February as compared to 10,137,000 barrels in January, there was an increase of 193,000 barrels over February, 1922. Activity in the milling industry varied from 49.6 per cent of capacity in the Chicago district to 55.3 per cent in the Kansas City district, com-

pared with 52.2 per cent and 62.8 per cent in the respective districts in February, 1922.

The domestic flour business continued dull throughout the latter part of February, but some signs of improvement were noted in the first weeks of March through the bookings of new orders. Shipments continued slow. Export demand, although quiet in the latter part of February, seemed to improve early in March, but was mainly from countries outside of Europe.

Owing to the shortness of the month the number of animals slaughtered decreased during February, as compared with the preceding month, but considerable increase was shown over the corresponding month one year ago. The number of animals slaughtered under Federal inspection was 5,997,000, compared with 7,252,000 in January and 5,104,260 in February, 1922. Decreases in slaughter of all kinds of animals were noted in February, as compared with January, but those for cattle were slightly greater than for other animals.

Thirty-eight meat packing companies in the United States reported to the Chicago reserve bank an increase of 6 per cent in dollar sales over February, 1922, but a decrease of 4.5 per cent from the preceding month. The production of butter during February increased slightly as compared with January, and was greater than in February one year ago.

Consumption of meats per capita in the United States in 1922 was somewhat larger than in 1921 and in 1920, but exports of meat products have been seriously affected by adverse condition of foreign exchange and reduced purchasing power of European countries. Lard exports, due largely to the reentry of Germany into the market since the war, continued in large volume in 1922, falling short of the record established in 1921 by little more than 100,000,000 pounds. Storage holdings of meats on February 28 amounted to 805,523,000 pounds, an increase over both the previous month and February a year ago. Prices for pork products remained steady, while beef and lamb prices showed a tendency to decline, due to an oversupply resulting from heavy marketing of live stock.

#### Textiles.

barrels in February as compared to 10,137,000 barrels in January, there was an increase of 193,000 barrels over February, 1922. Activity in the milling industry varied from 49.6 per cent of capacity in the Chicago district to 55.3 per cent in the Kansas City district, com-

order to fill orders previously received. Price advances for finished goods were numerous, following the trend of raw materials. Demands for wage increases have been made by workers in most textile industries and advances have

been announced in many lines.

Mill consumption of cotton during February exceeded all previous records for that month, and the number of cotton spindles active was the largest ever reported. Operations are at close to capacity in practically all producing centers, and the volume of unfilled orders is large. The cotton goods market in the Philadelphia Federal reserve district was reported to be generally more active in March than in February, although staple cloths were somewhat duller. Many mills in the Richmond district found night operations necessary in order to keep up with orders, and business was still being booked for several months in ad-Production and shipments of cloth and yarns by certain manufacturers in the Atlanta district during February were about 20 per cent greater than a year ago, and unfilled orders on hand had increased 70 per cent. Finishers of cotton fabrics reported seasonal declines in business during February as compared with the preceding month. Raw cotton has continued to advance in price, but most of the mills are now fairly well supplied. A number of advances occurred in yarn quotations during March, although the market for yarns has not been particularly active. According to the Textile World index numbers, February cloth prices were 3 per cent higher than in January and over 20 per cent above those of a year previous, and yarn prices had advanced 5 per cent since January and nearly 50 per cent within the past year.

Fall orders for woolen and worsted goods have been practically all placed, and buying during March and late February was upon a limited scale. Manufacturers had, however, during previous weeks booked sufficient orders to enable them to continue operations at close to capacity for some months, and some have withdrawn certain lines from the market. Production consequently continued during February at about the same rate prevailing in the previous month. Activity among woolen spindles increased slightly during February, whereas active worsted spindle hours fell off some, and the per cent of loom hours active was also smaller. Consumption of wool by mills during February totaled about 7 per cent less than in January, which decline may be attributed to the shortness of the later month. Both the yarn and the raw-wool markets were

relatively quiet during March, as manufacturers are fairly well supplied for present needs. Reports from western growing centers indicate that prices demanded for the new clip are higher than those prevailing in the eastern markets. The Textile World index numbers for February indicated continued advances in the prices of raw wool and of yarn and cloths to levels respectively 33, 25, and 17 per cent above those prevailing a year ago.

Activity among silk manufacturers continued at a high rate during February, and deliveries of raw silk to mills, despite the shortness of the month, reached a total exceeded in the past three years only by that of last October. Loom activity at Paterson also attained the highest percentage reached within the past two years. The rate of production, however, declined in the North Hudson section late in January, and also fell off slightly in Paterson during the first week in March, but later recovered. Mills in the Philadelphia Federal reserve district report that the recent improvement in business continued into March, and that looms, with the exception of ribbon looms, were running at 75

per cent of capacity.

Men's clothing sales by wholesalers in the New York Federal reserve district during February exceeded those of January by 84 per cent and were 73 per cent greater than during last Sales of women's clothing in-February. creased 10 per cent. Reports from the Chicago district also indicate increased activity in men's clothing, and returns from certain tailors to the trade showed increases of 65 per cent in orders, production, and shipments, as compared with last year. In the St. Louis district a vigorous demand was noted for medium-priced spring garments, particularly from the cotton sections. An important event in the clothing industry was the opening early in March of fall lines by one of the largest manufacturers of ready-made men's clothing, with no change in prices on some lines and small advances on others.

Production and shipments of knit underwear were less in February than in January, and orders booked fell off over 50 per cent, leaving a lessened volume of unfilled orders on hand at the end of the month. These developments were largely seasonal. Shipments continued to exceed production by a substantial margin, but new orders received were smaller than production. Summer underwear production exceeded that of winter garments. Total output during February was somewhat less than during February, 1922. March sales of underwear by producers in the Philadelphia Federal reserve district were rather small, as the bulk of

the spring business had been previously placed. Prices of raw materials continued upward, and some advances were made on finished products.

According to reports from the Philadelphia district, the hosiery trade has not experienced the same improvement in demand noted by other textile industries. Although some mills were working at capacity, others were only operating at from 30 to 50 per cent. Statistics of production showed a decline since last February, but shipments, orders booked, and unfilled orders on hand were substantially larger. Manufacturers of cotton hosiery, however, in the Atlanta district reported that business was considerably better than last year, although seasonal declines were noted as compared with January.

#### Iron and steel.

Average daily production of pig iron increased considerably during February, while there was a slight reduction in the output of steel ingots. Prices of pig iron and of various kinds of finished steel registered further advances during the first three weeks of March, and a composite of the prices of 14 products (prepared by the Iron Trade Review) was 6 per cent higher on March 21 than on February 21. Demand has been very heavy in every branch of the steel industry, and reports from the Philadelphia district state that some companies which manufacture bars, plates, and shapes have already filled their order books for the second quarter of 1923. Moreover, the recent increase in building contracts awarded has resulted in a large increase of orders for structural steel. The unfilled orders of the United States Steel Corporation increased about 5 per cent in February and are now higher than at any time in the last two years. As a result of the recent curtailment of iron and steel production in Germany, there have been some foreign inquiries for American iron, whereas iron was being imported from Great Britain in the fall of 1922.

This improvement in domestic and foreign demand has resulted in a further increase in blast-furnace capacity. Sixteen additional furnaces were blown in during February, and preparations are being made to start other furnaces which have been idle for over two years.

#### Automobiles.

Production of passenger automobiles totaled | Philadelphia, and Chicago, were larger than in 259,383 during February, which was 16 per | January, but orders fell off. Production, shipcent more than in January and exceeded all ments, and orders all exceeded the correspond-

previous months except June, 1922. This rate of production appears particularly high when the facts that February has fewer working days than any other month and that the automobile industry in past years has always shown a low rate of output throughout the winter months are considered. Truck production was increased 13 per cent during February, but is still at a considerably lower level than that which prevailed during 1920.

level than that which prevailed during 1920. Reports from the Chicago district indicate that orders to manufacturers for cars are at a high level and that deliveries to consumers are substantially larger than at this season last year. In order to stimulate the demand for used cars, many dealers are having the cars which they buy or receive in trade thoroughly overhauled and are giving a guarantee against mechanical defects when they sell them.

Tire factories in the Cleveland district are now working three shifts, and many plants report new production records. A shortage of labor has developed at Akron and wages have been advanced. Most of the larger companies have also announced another 10 per cent increase in tire prices.

#### Leather and shoes.

About the middle of March the packer hide market in Chicago became suddenly active, and sales of 300,000 hides were effected. Earlier in March and during February markets had been relatively inactive. Prices during February remained practically unchanged, but in March quotations on native hides fell off slightly. Prices on various grades of hides are now from 25 to 100 per cent above those prevailing a year ago.

In the Philadelphia district heavy leathers have been active and prices have advanced. The demand for the upper leathers during March was centered upon specialties. Tanners in the Chicago district reported that average daily output remained practically unchanged during January and February. Sole-leather production for the country as a whole, although totaling less in February, because of the shorter month, was at the same rate as in January, but less than that prevailing a year ago.

The decline in the production of shoes between January and February was so slight as to be negligible, and, in fact, increases were noted in some centers. Shipments, according to reports to the Federal Reserve Banks of Boston, Philadelphia, and Chicago, were larger than in January, but orders fell off. Production, shipments, and orders all exceeded the correspond-

ing items for February, 1922, but stocks on hand were smaller except in the Boston district. Manufacturers in the Philadelphia district reported a decline in demand during March, as Easter orders had been practically all filled, and operating schedules were also reduced. Sales of shoes by wholesalers during February were less than during January in the New York, St. Louis, and Minneapolis districts, but increased in the other reporting districts. Retail shoe sales, as reflected by reports of retailers in the Philadelphia district, and of chain stores, well distributed throughout the country, were smaller during February than in January, and the chain-store sales were below those of last February.

#### Paper.

Demand for paper is good and production is well maintained at high levels. Newsprint output during February, although less than in January because of the shortness of the month, exceeded that of any other February within the last six years. The production of book and wrapping papers during January was the largest on record. Paper wholesalers reporting to the Federal Reserve Bank of Philadelphia indicate that the demand was particularly good for fine, book, and wrapping papers during March, and sales exceeded those of earlier months. Printers and publishers in the Philadelphia district reported great activity growing out of an improved demand for advertising matter. Stocks of newsprint increased only slightly during February, although a fairly large increase is customary at that time of the year. Stocks of practically all grades of paper increased during January, in accordance with the usual seasonal trend. Both production and consumption of wood pulp increased during January, and stocks held by producers were enlarged slightly, although they are still very small in comparison with figures for previous months.

#### Lumber.

Lumber manufacturers since the middle of February have reported gradually increasing production, with declines in the volume of orders received and with shipments continuing at a steady rate. Mills have an enormous volume of unfilled orders on their books, which accumulated during the winter when production was curtailed. An unusually large cut will still be required to fill these orders, although the output of mills throughout the winter was well above that of the preceding year. Transportation conditions were reported to be hindering prompt shipments of

lumber from producing to consuming points. Prices on practically all grades of lumber have been steadily advancing for several weeks. Composite indexes show that about March 15 lumber prices were 2 per cent higher than they were a month previous to that date and 30 per cent above those of March, 1922. Lumber cut during February by 569 mills reporting to the National Lumber Manufacturers' Association totaled 977,669,000 feet, which was a decline of 5 per cent from the January cut, but an increase of 26 per cent above that for last February. Shipments were also less than in January, totaling 1,132,320,000 feet. Decreases in orders, shipments, and cut as compared with January were reported by the Southern Pine Reports from the St. Louis Association. Federal reserve district indicate a slackening in wholesale buying about the middle of February, with quietness prevailing in the market a month later. Production of lumber in the Minneapolis district increased during February, but manufacturers' stocks declined considerably. Output of mills in the San Francisco district was the maximum permitted by log supply and weather conditions. Production and shipments exceeded those of January and of last February. Orders booked were slightly less than in January, but unfilled orders increased. Shipments, many of which go by water, have exceeded production for three months and stocks of all grades were reported to be at low levels.

#### BUILDING.

Actual construction has been retarded somewhat in the northern parts of the country during the past three months on account of winter conditions. Plans for new construction, as shown by contracts awarded and permits issued, are very large at the present time. The value of contracts let in 10 Federal reserve districts (compiled from statistics collected by the F. W. Dodge Co.) totaled \$277,380,000 in February, which was 14 per cent more than in January. In seven districts for which comparable figures are available February contracts were 29 per cent larger than a year ago. The value of awards increased during February in all reporting districts except Boston and New York. The largest increase occurred in the Minneapolis district and amounted to 135 per Statistics published on page 509 show that there was also a considerable increase in both number and value of building permits at 168 cities in February, as compared with

A large proportion of the new building planned is for business or governmental pur-poses, as is shown by the fact that contracts awarded for residential buildings decreased 26 per cent during February, while all other contracts increased 55 per cent. The Secretary of Commerce, who has been making a study of this problem, issued a report during March in which he recommended that the National, State, and municipal governments initiate no new building projects until the present large private demand for construction has slackened. The report pointed out that Government agencies, by postponing construction, might prevent wasteful competition at present and might later alleviate unemployment.

Prices of building materials continued to advance during February and were on the average 24 per cent higher than in March, 1922. Production of brick and flooring decreased as compared with January, while cement production showed a moderate increase. Stocks of cement and brick showed some further accumulation.

#### TRANSPORTATION.

Increasing traffic and difficulty on the part of the railroads to keep pace with the demands of shippers are features of the present railroad situation. Car loadings have shown a definite upward trend since the beginning of January, and reached the highest figures for the current year in the week ending March 3. Loadings for the first two months of 1923 were higher than in the corresponding period of any pre-vious year. Shipments of forest products, coke, and general merchandise have been exceptionally heavy, and an unusually large proportion of the traffic in February originated in the industrial sections of the East and Central West.

Freight-car shortage increased steadily during the last three weeks of February, but decreased in the first two weeks of March. The average shortage of all types of cars increased from 70,522 in the week ending February 8 to 80,633 in the week ending February 28, followed by a reduction to 74,442 in the week ending March 14. During this five-week period the shortage of box cars, which are chiefly used in shipping manufactured goods, increased 40 per cent, while the shortage of coal cars decreased 19 per cent. The number of bad-order cars on March 1 was 215,552, which was 3 per cent more than on February 1, but 35 per cent less than on March 1, 1922. The increase in bad-order cars during February may be ascribed partly to the damage to equipment from snow and ice and partly to the continuance of labor disputes at | clement weather in many districts, retarded

certain railroad shops. Railroad equipment factories are maintaining close to a maximum rate of output, yet unfilled orders for locomotives increased from 1,788 to 2,220 during February; a total of 25,866 new freight cars were put in service during the first two months of 1923; and there were outstanding orders for 102,912 additional cars on March 1.

#### Wholesale trade.

Owing to the fact that February contained fewer business days, wholesale distribution was smaller than in the preceding month. ever, pronounced increases were noted in all lines as compared with February, 1922. Although decreases during February were noted in all lines and in almost all Federal reserve districts, the extent of the decreases showed variations in Grocery sales decreased in 6 of the all districts. 11 reporting districts, the decreases ranging from 1.8 per cent in the Philadelphia district to 12 per cent in New York. The greatest increase was noted in the Kansas City district, being 26.6 per cent, and the smallest 0.4 per cent in the Dallas district. With the exception of the New York and Cleveland districts, dry goods sales decreased in all districts, the decreases ranging from 1.8 per cent in Kansas City to 12.8 per cent in St. Louis. Sales of shoes decreased in the New York, St. Louis, and Minneapolis districts, but increased in all others. Compared with February, 1922, sales of dry goods and hardware showed the greatest increases. The increases in hardware varied from 18 per cent in the Minneapolis district to 51.1 per cent in the Cleveland district, while increases in dry goods sales varied from 16.5 per cent in the Kansas City district to 53.1 per cent in the Richmond district. The increases in hardware sales reflect the influence of the large amount of building in the process of construction and increased farm activity, while increased dry goods sales reflect the influence of rising costs of raw materials. Collections were "fair to good" in all districts. The table on page 511 gives detailed figures of wholesale trade.

#### Retail trade.

Retail distribution during February was generally smaller than in the preceding month in all reporting lines except 5 and 10 cent chains, but continued greater than during the corresponding month one year ago. Sales by 5 and 10 cent chains increased approximately 2 per cent over January. Although the shortness of the month, combined with in-

department-store trade during February as compared with January, increases over February, 1922, were noted in all districts. The increases ranged from 2.4 per cent in the Dallas district to 20.9 per cent in the San Francisco district. In addition to the San Francisco district the largest increases were in the industrial districts of Clareland Phila in the industrial districts of Cleveland, Philadelphia, and Chicago, reflecting improved employment conditions and continued industrial

expansion.

Stocks of department stores at the close of February were greater than at the close of January, due to the receipts of spring goods placed in stock during the month. Stocks on hand were, moreover, slightly larger than at the close of February, 1922, in all districts except Kansas City, where a decrease of 2.5 per cent was indicated. The increases varied from 0.4 per cent in the Dallas district to 14.2 per cent in the St. Louis district, the average increase for all sections being 6 per cent. Outstanding orders of department stores decreased in all districts except Cleveland, Chicago, and San Francisco. The table on page 511 gives detailed figures of retail trade.

#### PRICES.

Wholesale prices in the United States increased during the month of February, the index numbers of the Federal Reserve Board and Bureau of Labor Statistics each advancing 1 point. When the commodities in the board's index are grouped according to stages of manufacture, the level of raw materials remained unchanged, producers' goods rose 6 points, and consumers' goods declined 2 points.

Among raw materials, prices of metals continued the increases of January, while coal prices declined rapidly. Prices of grain increased, as they have for the past three months, and prices of live stock continued their opposite downward trend. Such producers' goods as steel, brick, mineral oils, cotton and woolen yarns show increases, causing the group as a whole to advance more rapidly than during any month of the past year. Among foods in the consumers' goods group, butter and eggs showed their usual large February declines. The increase in sugar prices brought the level of that commodity back to that of the early part of 1921. The cost is now 7.3 cents a pound, in contrast to 4.9 cents one year ago and 7.1 cents two years

The groupings of the Bureau of Labor Sta-

smaller groups of commodities, moved as follows: Farm products declined 1 point, foods remained unchanged, cloths and clothing increased 3 points, fuel and lighting decreased 6 points, metal products increased 6 points, building materials 4 points, chemicals and drugs 1 point, while house furnishings remained unchanged. remained unchanged.

#### COMMERCIAL FAILURES.

Commercial failures during February showed a decline below the January figures by more than the usual seasonal amount and were fewer in number than during any month since September, 1921. Furthermore, during the first three weeks of March failures totaled 1,111, a decline of 34 per cent below the number reported for the corresponding period in March, 1922. Total liabilities involved in February failures were 44 per cent less than during last February and 54 per cent below the record figure reached in December, 1921. Both number and liabilities, however, were still relatively great when compared with corresponding data during the years prior to 1921. The number of insolvencies involving over \$100,000 in liabilities totaled 67 during February, as compared with 82 in January and 87 in February, 1922. The declines in both number and liabilities of February failures below the January figures were greater in the case of manufacturing establishments than with trading firms.

The number of defaults was less than during last February in all Federal reserve districts and exceeded those of January only in the Kansas City district. Liabilities were above the corresponding figures for last February in the Cleveland and San Francisco districts, and were larger than during January in the Boston, Atlanta, Dallas, and San Francisco districts, but were smaller in

all other districts.

#### EMPLOYMENT.

Employment increased 2 per cent during February, according to reports received by the United States Bureau of Labor Statistics from 4,848 industrial establishments in all parts of the United States. Plants manufacturing fertilizer, agricultural implements, and automobiles reported the largest increases in number of workers, while meat-packing plants, car shops, and flour mills were the only industries showing any considerable reductions in tistics index number, showing the trends of | forces. A substantial shortage of female

workers has developed at textile mills and garment factories in the Eastern States. Unskilled male labor also is in great demand in industrial sections, but is still in excess of the supply in States west of the Mississippi River. Almost all wage adjustments continue to be upward. Many plants manufacturing steel, lumber, railroad cars, furniture, brick, leather, and woolen goods announced wage advances in the 30-day period ending February 15. Shortages of both male and female workers

are reported from New England. The textile, shoe, metal, and machine industries report shortages of skilled male workers, while the textile, rubber, and electrical industries desire additional female workers. Cotton and woolen mills, brass foundries, and woodworking plants are working overtime, while lumber and paper mills are now on part-time schedules. The New York State Department of Labor reports that there was an increase of about 1.2 per cent in industrial employment during February, while average weekly earnings decreased 1.3 per cent. Scarcity of female factory workers and domestic workers has developed in many parts of the New York district and common labor is in great demand. Employment at sugar refineries and automobile plants was substantially increased during February, while iron and steel mills and metal plants generally report a shortage of workers. Reports from about 480 industrial establishments in the Philadelphia district show an increase of 2 per cent in number of employees in February as compared with January, while the average weekly earnings increased 4 per cent. Unemployment in four important cities of eastern Pennsylvania on March 15 was 12 per cent less than on February 15 and 21 per cent less than on January 1. Shortages of female workers in the garment industry and of skilled male workers in the metal industries and the meat-packing industry are reported, while there is a scarcity of common labor in many sections of the Phila-delphia district. Iron furnaces and steel mills in the Cleveland district report shortages of common labor and of many types of skilled labor. Rubber factories in Akron are working three shifts, while other plants in the vicinity are working two shifts. Shortages of skilled cutters, loaders, and helpers have developed at mines in western Pennsylvania.

Employment in the food, steel, and lumber industries continues to increase in all parts of the Richmond district, while tobacco factories and coal mines have slightly reduced their

the number of their employees in the southern part of the district, but mills in Maryland have part of the district, but mills in Maryland have slightly reduced operations. There is still a surplus of general clerical workers in Washington, but the demand for male stenographers exceeds the supply. The textile, lumber, paper, and printing industries have added workers to their pay rolls in the Atlanta district. Common labor is still very scarce in Florida and Mississippi and there is a growing shortege of farm workers.

shortage of farm workers.

In the Chicago district the number employed by 218 firms increased about 1 per cent in February, although there was some decrease in the number of man-hours and average earnings on account of the decrease in number of working days as compared with January. The largest gains in employment occurred at plants manufacturing agricultural machinery, electrical goods, and wearing apparel, while decreases were registered by manufacturers of heavy machinery, by railway repair shops, and by tanneries. A shortage of building craftsmen is reported from the St. Louis district, and there is a large demand for farm help and female garment workers. A surplus of both male and female office help exists in the city of St. Louis. Steel mills, shoe factories, and lumber mills in the Minneapolis district increased their forces during February but there is still a surplus of agricultural workers. Demand for office help is improving in the Kansas City district, and calls for farm labor are more numerous. Coal mines, soap factories, brick yards, and flour mills are operating on part-time schedules.

The number of employed in the Dallas district continued practically unchanged during February. Some surplus of machinists and of common labor is reported. Oil companies are increasing the size of their forces. In the San Francisco district the commencement of spring farm work has reduced the surplus supply of common labor. Iron and steel mills and shipyards are employing additional workers. A surplus of common labor and commercial workers is reported from the

northern part of the district.

### FOREIGN TRADE.

The preliminary import figures now available for December, 1922, indicate the continuance of our import trade at a relatively high level, even if allowance is made for recent increases in commodity valuations. With the single exception of September, 1922, when forces. Textile mills have further increased large quantities of goods were rushed to this country just before the new tariff rates went into effect, the December total of \$297,000,000 is the largest in any month since November, 1920. For the entire calendar year 1922 imports were valued at \$3,116,000,000, compared with \$2,509,000,000 in 1921.

Exports from the United States declined in value from \$336,000,000 in January to \$310,000,000 in February, the most recent month for which total figures have been compiled. Allowing for the fewer days in February, the returns for that month average slightly higher per day than do those for January. While there has been some falling off in our export trade as compared with the high levels of October and November, 1922, the reduction so far has not been sufficient to cause serious concern.

#### GOLD AND SILVER MOVEMENTS.

Net gold imports for the month of February totaled \$6,984,000, compared with \$24,348,000 for January. Both imports and exports were on a substantially lower scale than during the preceding months, imports from Europe and Canada showing the largest declines. Gross gold imports for the month under review were \$8,383,000. Of this total about 55 per cent, most of it in United States coin, came from Canada, about 12.5 per cent from the United Kingdom, and slightly less than 12 per cent from France. Over one-half of the total of \$1,399,000 of gold exported during the month was consigned to Hongkong, Mexico took \$546,000, or about 40 per cent of the gold exported during the month, while smaller shipments were made to Canada, Switzerland, and England.

Net imports of gold since August 1, 1914, totalled \$1,811,716,000, as shown in the follow-

ing table:

[In thousands of dollars.]

	Imports.	Exports.	Excess of imports.
Aug. 1, 1914 to Dec. 31, 1918	1,776,616 76,534 417,068 691,248 275,170 41,203	705, 210 368, 185 322, 091 23, 891 36, 875 9, 871	1,071,406 1 291,651 94,977 667,357 238,295 31,332
Total	3, 277, 839	1,466,123	1,811,716

<sup>&</sup>lt;sup>1</sup> Excess of exports.

Silver imports during February, \$3,792,000, cents in the middle of February to 76 cents in were lower than any monthly imports since the middle of March. This advance is parallel June, 1921. About 60 per cent of the total to a corresponding rise in the price of silver.

imported during the month came from Mexico, over 15 per cent from Peru, and about 14 per cent from Canada. Silver exports for the month, \$2,191,000, were largely directed toward China, British India, and England, these three countries together taking about 90 per cent of the total silver exports for the month.

Net silver exports since August 1, 1914, totaled \$434,756,000, as may be seen from the following table:

[In thousands of dollars.]

	Imports.	Exports.	Excess of exports.
Aug. 1, 1914, to Dec. 31, 1918	203, 592 89, 410 88, 060 63, 242 70, 807 9, 617	483, 353 239, 021 113, 616 51, 575 62, 807 9, 112	279, 761 149, 611 25, 556 111, 667 18, 000 1505
Total	524, 728	959, 484	434,756

<sup>1</sup> Excess of imports.

#### FOREIGN EXCHANGE.

French francs, which had been declining since April, 1922, except for a brief rally in December, continued downward in January, February, and the early part of March of this year. On March 12 the franc stood at 6.03 cents, compared with 9.35 cents on April 24, 1922, the peak figure since 1919. During the latter part of March French exchange was very active, with a general upward trend, the quotation for March 30 being 6.62 cents. The course of the Belgian franc has been parallel to that of the French franc, while the Italian lira has remained fairly steady.

Sterling exchange has moved but little in March, with a general downward trend, the quotation on March 30 being \$4.68, compared with a peak of \$4.72 recorded on February 21. German marks, after being apparently pegged during the last week of February at 0.0044 cent, rose on March 7 to 0.0048 cent, where they were again stabilized for the remainder of the

month.

Of the South American exchanges, Argentine pesos and Brazilian milreis declined somewhat, while Chilean pesos advanced considerably. In the Orient the Japanese yen and the Indian rupee remained fairly steady, while the Shanghai tael advanced from 71 cents in the middle of February to 76 cents in the middle of March. This advance is parallel to a corresponding rise in the price of silver.

## RULINGS OF THE FEDERAL RESERVE BOARD.

Nonmember bank balances.

There is published herewith the substance of a ruling made by the Federal Reserve Board upon the question whether certain items should be considered as a sum on deposit with a nonmember bank within the meaning of that portion of section 19 of the Federal reserve act which provides: "No member bank shall keep on deposit with any State bank or trust company which is not a member bank a sum in excess of 10 per centum of its own paid-up capital and surplus."

The facts upon which the ruling was predi-

cated were stated to be as follows:

A State member bank has been sending to a nonmember bank all its foreign items for collection and credit, these items consisting either of checks received as cash items from the member bank's customers, or the member bank's own drafts on its other correspondent banks. These items are indorsed in blank by the member bank's customers and by the member bank with the usual indorsement, "Pay to the order of any bank, banker, or trust company, all previous indorsements guaranteed." They are handled by the nonmember bank as cash items. At times, when large remittances are made, the member bank's books show balances in excess of 10 per cent of its capital and surplus with the nonmember bank, but its collected or available balance with the nonmember bank is at all times within this 10 per cent limitation. By collected or available balance is meant such portion of the items sent the nonmember bank as has been actually collected by the nonmember bank and which, under an agreement between the member and nonmember bank, may be checked against by the former. It is the practice of the member bank to charge all items to the nonmember bank immediately, and of the nonmember bank to give immediate credit for the same, subject to final payment, but by virtue of the understanding noted above, the credit thus created on the books of the nonmember bank may not be checked against until final payment of the items creating the credit has been received.

As a matter primarily of bookkeeping, the board is of the opinion that a member bank should not be permitted to show on its books that it has a balance due from a nonmember bank. In view of the uncertainty as to how the courts would deal with such bank in excess of the 10 per cent limit allowed by law, for this constitutes prima facie a

violation of the law, irrespective of whether or not part of such balance may consist of items which properly do not represent sums "on deposit with" the nonmember bank within the

meaning of section 19.

The further question is raised, however, as to whether items sent the nonmember bank under the circumstances stated and still in process of collection must be included in the balance due from the nonmember bank, or, in other words, whether the uncollected items properly should be deemed to constitute "a sum on deposit with" the nonmember bank, within the meaning of the above quoted provision of section 19 of the Federal reserve act.

It appears that there is an irreconcilable conflict of legal authority upon the question whether, under general principles of law, items forwarded under the circumstances described and still uncollected would be held to constitute a deposit, although the better view seems to be that the member bank would become a general creditor of and depositor in the nonmember bank with respect to all such items. Inasmuch, however, as the question under consideration is whether certain items constitute a sum on deposit with a nonmember bank within the meaning of section 19 of the Federal reserve act, the board is not concluded by general rules of law, but may properly look to the spirit and purpose of this provision of section 19 and so construe and administer it as best to carry out the intention of Congress in enacting this legislation.

One purpose of the provision limiting the amount which a member bank may keep on deposit with a nonmember bank, and perhaps the primary purpose, is to minimize the risk incurred by a member bank in maintaining a balance with a bank which is not a member bank and which consequently does not have the security and protection afforded by membership in the Federal reserve system. With this purpose in view, the board believes that, in determining whether certain items should be held to constitute sums on deposit with a nonmember bank within the proper meaning of section 19, it should be governed largely by a consideration of the risk incurred by member banks in handling items through a nonmember bank. In view of the uncertainty as to how the courts would deal with such items in the event of failure of the nonmember count as part of the permitted balance due from a nonmember bank all items which might reasonably be held to constitute sums on deposit with such nonmember bank. In this way member banks would be protected against undue loss in case of the nonmember bank's insolvency, as was contemplated by Congress. As seen above, the items under consideration, although not conclusively established in all jurisdictions to constitute deposits under general principles of law, are properly susceptible of such a characterization, and, in the board's opinion, they should be held to represent sums on deposit with a nonmember bank within the meaning of section 19 of the Federal reserve act.

This ruling is in accord with previous rulings made by the board in connection with the provision of section 19 that "In estimating the balances required by this act, the net difference of amounts due to and from other banks shall be taken as the basis for ascertaining the deposits against which required balances on nonmember bank balances contained therein.

with Federal reserve banks shall be determined." In construing this provision the board has ruled that in deducting "due from" bank balances from "due to" bank balances in ascertaining the amount against which reserves must be carried, out-of-town checks placed in the mail and charged to the account of a bank's correspondent may be included as part of the balances "due from" such correspondent. Thus the board has held in another connection that items sent to a correspondent bank and charged to its account constitute balances "due from" such correspondent, or, in other words, "a sum on deposit" therewith.

The board is of the opinion, therefore, that all items forwarded to a nonmember bank under the circumstances described must be considered as sums on deposit with the nonmember bank within the meaning of section 19, and are accordingly subject to the 10 per cent limitation

## LAW DEPARTMENT.

Textual Changes in Federal Reserve Act by Agricultural a paid-up, unimpaired capital of at least 60 per centum of the Credit Act and Act of February 6, 1923.

There is published below a compilation of the textual changes made in the Federal reserve act by the recent amendments contained in the act of February 6, 1923, and in the act of March 4, 1923, which is known as the agricultural credits act of 1923. Italics indicate matter inserted by the new amendments and canceled words show old matter stricken out.

The last paragraph of section 10 of the act of December 23, 1913, as amended, was further amended by the act of February 6, 1923, to read as follows:

No Federal reserve bank shall have authority hereafter to enter into any contract or contracts for the erection of any branch bank building of any kind or character, or to authorize the erection of any such building, if the cost of the building proper, exclusive of the cost of the vaults, permanent equipment, furnishings, and fixtures is in excess of \$250,000, without the consent of Congress having previously been given therefor in express terms: Provided, That nothing herein shall apply to any building new under construction prior to June 3, 1922.

The ninth paragraph of section 9 of the act of December 23, 1913, as amended, was further amended by the act of March 4, 1923, to read as follows:

No applying bank shall be admitted to membership in a Federal reserve bank unless (a) it possesses a paid-up, unimpaired capital sufficient to entitle it to become a national banking association in the place where it is situated under the provisions of the National Bank Act, or (b) it possesses

amount sufficient to entitle it to become a national banking association in the place where it is situated under the provisions of the National Bank Act and under penalty of loss of membership complies with rules and regulations which the Federal Reserve Board shall prescribe fixing the time within which and the method by which the unimpaired capital of such bank shall be increased out of net income to equal the capital which would have been required if such bank had been admitted to membership under the provisions of clause (a) of this paragraph: Provided, That every such rule or regulation shall require the applying bank to set aside annually not less than 20 per centum of its net income of the preceding year as a fund exclusively applicable to such capital increase.

The second paragraph of section 13 of the act of December 23, 1913, as amended, was further amended and divided into two paragraphs by the act of March 4, 1923, to read as follows:

Upon the indorsement of any of its member banks, which shall be deemed a waiver of demand, notice and protest by such bank as to its own indorsement exclusively, any Federal reserve bank may discount notes, drafts, and bills of exchange arising out of actual commercial transactions; that is, notes, drafts, and bills of exchange issued or drawn for agricultural, industrial, or commercial purposes, or the proceeds of which have been used, or are to be used, for such purposes, the Federal Reserve Board to have the right to determine or define the character of the paper thus eligible for discount, within the meaning of this Act. Nothing in this Act contained shall be construed to prohibit such notes, drafts, and bills of exchange, secured by staple agricultural products, or other goods, wares, or merchandise from being eligible for such discount, and the notes, drafts, and bills of exchange of factors issued as such making advances exclusively to producers of staple agricultural products in their raw state shall be eligible for such discount; but such definition shall not include notes, drafts, or bills covering merely investments or issued or drawn for the purpose of carrying or trading in stocks, bonds, or other investment securities, except bonds and notes of the Government of the United States. Notes, drafts, and bills admitted to discount under the terms of this paragraph must have a maturity at the time of discount of not more than 90 days, exclusive of days of grace. Provided, That notes, drafts, and bills drawn or issued for agricultural purposes or based on live stock and having a maturity not exceeding six months, exclusive of days of grace, may be discounted in an amount to be limited to a percentage of the assets of the Federal reserve bank, to be ascertained and fixed by the Federal Reserve Board.

Upon the indorsement of any of its member banks, which shall be deemed a waiver of demand, notice, and protest by such bank as to its own indorsement exclusively, and subject to regulations and limitations to be prescribed by the Federal Reserve Board, any Federal reserve bank may discount or purchase bills-of exchange payable at sight or on demand which are drawn to finance the domestic shipment of non-perishable, readily marketable staple agricultural products and are secured by bills of lading or other shipping documents conveying or securing title to such staples: Provided, That all such bills of exchange shall be forwarded promptly for collection, and demand for payment shall be made with reasonable promptness after the arrival of such staples at their destination: Provided further, That no such bill shall in any event be held by or for the account of a Federal reserve bank for a period in excess of 90 days. In discounting such bills Federal reserve banks may compute the interest to be deducted on the basis of the estimated life of each bill and adjust the discount after payment of such bills to conform to the actual life thereof.

The fourth paragraph of section 13 of the act of December 23, 1913, as amended, was further amended by the act of March 4, 1923, to read as follows:

Any Federal reserve bank may discount acceptances of the kinds hereinafter described, which have a maturity at the time of discount of not more than 90 days' three months' sight, exclusive of days of grace, and which are indorsed by at least one member bank: Provided, That such acceptances if drawn for an agricultural purpose and secured at the time of acceptance by warehouse receipts or other such documents conveying or securing title covering readily marketable staples may be discounted with a maturity at the time of discount of not more than six months' sight exclusive of days of grace.

Section 13 of the act of December 23, 1913, as amended, was further amended by the act of March 4, 1923, by adding at the end of the section a new section to read as follows:

SEC. 13a. Upon the indorsement of any of its member banks, which shall be deemed a waiver of demand, notice, and protest by such bank as to its own indorsement exclusively, any Federal reserve bank may, subject to regulations and limitations to be prescribed by the Federal Reserve Board, discount notes, drafts, and bills of exchange issued or drawn for an agricultural purpose, or based upon live stock, and having a maturity, at the time of discount, exclusive of days of grace, not exceeding nine months, and such notes, drafts, and bills of exchange may be offered as collateral security for the issuance of Federal reserve notes under the provisions of section 16 of this Act: Provided, That notes, drafts and bills of exchange with maturities in

excess of six months shall not be eligible as a basis for the issuance of Federal reserve notes unless secured by warehouse receipts or other such negotiable documents conveying or securing title to readily marketable staple agricultural products or by chattel mortgage upon live stock which is being fattened for market.

That any Federal reserve bank may, subject to regulations and limitations to be prescribed by the Federal Reserve Board, rediscount such notes, drafts, and bills for any Federal Intermediate Credit Bank, except that no Federal reserve bank shall rediscount for a Federal Intermediate Credit Bank any such note or obligation which bears the indorsement of a nonmember State bank or trust company which is eligible for membership in the Federal reserve system, in accordance with section 9 of this Act

Any Federal reserve bank may also buy and sell debentures and other such obligations issued by a Federal Intermediate Credit Bank or by a National Agricultural Credit Corporation, but only to the same extent as and subject to the same limitations as those upon which it may buy and sell bonds issued under Title I of the Federal Farm Loan Act.

Notes, drafts, bills of exchange or acceptances issued or drawn by cooperative marketing associations composed of producers of agricultural products shall be deemed to have been issued or drawn for an agricultural purpose, within the meaning of this section, if the proceeds thereof have been or are to be advanced by such association to any members thereof for an agricultural purpose, or have been or are to be used by such association in making payments to any members thereof on account of agricultural products delivered by such members to the association, or if such proceeds have been or are to be used by such association to meet expenditures incurred or to be incurred by the association in connection with the grading, processing, packing, preparation for market, or marketing of any agricultural product handled by such association for any of its members: Provided, That the express enumeration in this paragraph of certain classes of paper of cooperative marketing associations as eligible for rediscount shall not be construed as rendering ineligible any other class of paper of such associations which is now eligible for rediscount.

be construed as rendering ineligible any other class of paper of such associations which is now eligible for rediscount.

The Federal Reserve Board may, by regulation, limit to a percentage of the assets of a Federal reserve bank the amount of notes, drafts, acceptances, or bills having a maturity in excess of three months, but not exceeding six months, exclusive of days of grace, which may be discounted by such bank, and the amount of notes, drafts, bills, or acceptances having a maturity in excess of six months, but not exceeding nine months, which may be rediscounted by such bank.

Paragraph (d) of section 14 of the act of December 23, 1913, as amended, was further amended by the repeal of the act entitled "An act to amend an act approved December 23, 1913, known as the Federal reserve act," approved April 13, 1920. The effect of this amendment is to make paragraph (d) of section 14 read as follows:

(d) To establish from time to time, subject to review and determination of the Federal Reserve Board, rates of discount to be charged by the Federal reserve bank for each class of paper, which shall be fixed with a view of accommodating commerce and business and which, subject to the approval, review, and determination of the Federal Reserve Board, may be graduated or progressed on the basis of the amount of the advances and discount accommodations extended by the Federal reserve bank to the harmwing boult.

Section 14 of the act of December 23, 1913, as amended, was further amended by the act of March 4, 1923, by adding at the end of the section a new paragraph to read as follows:

(f) To purchase and sell in the open market, either from or to domestic banks, firms, corporations, or individuals, acceptances of Federal Intermediate Credit Banks and of National Agricultural Credit Corporations, whenever the Federal Reserve Board shall declare that the public interest so

Section 15 of the act of December 23, 1913 as amended, was further amended by the act of March 4, 1923, by adding at the end of the section a new paragraph to read as follows:

The Federal reserve banks are hereby authorized to act as depositories for and fiscal agents of any National Agricultural Credit Corporation or Federal Intermediate Credit Bank.

#### Other Provisions of Agricultural Credits Act, Affecting Federal Reserve System.

In addition to those portions of the agricultural credits act which make textual changes in the Federal reserve act itself, the following sections of the act also indirectly amend the Federal reserve act or otherwise affect the Federal reserve system:

#### DISCOUNTS AND LOANS.

"Sec. 202. (a) That Federal Intermediate Credit Banks, when chartered and established, shall have power, subject solely to such restrictions, limitations, and conditions as may be imposed by the Federal Farm Loan Board not

inconsistent with the provisions of this Act,-

- (1) To discount for, or purchase from, any national bank and/or any State bank, trust company, agricultural credit corporation, incorporated live-stock loan company, savings institution, cooperative bank, cooperative credit or marketing association of agricultural producers, organized under the laws of any State, and/or any other Federal Intermediate Credit Bank, with its indorsement, any note, draft, bill of exchange, debenture, or other such obligation the proceeds of which have been advanced or used in the first instance for any agricultural purpose or for the raising, breeding, fattening, or marketing of live
- stock;
  (2) To buy or sell, with or without recourse, debentures issued by any other Federal Intermediate Credit Bank; and
- (3) To make loans or advances direct to any cooperative association organized under the laws of any State and composed of persons engaged in producing, or producing and marketing, staple agricultural products, or live stock, if the notes or other such obligations representing such loans are secured by warehouse receipts, and/or shipping documents covering such products, and/or mortgages on live stock: Provided, That no such loan or advance shall exceed 75 per centum of the market value of the products covered by said warehouse receipts and/or shipping documents, or of the live stock covered by said mortgages.

"(b) No paper shall be purchased from or discounted for any national bank, State bank, trust company, or savings institution under this section, if the amount of such paper added to the aggregate liabilities of such national bank, State bank, trust company or savings

institution, whether direct or contingent (other than bona fide deposit liabilities), exceeds the amount of such liability permitted under the laws of the jurisdiction creating the same; or exceeds twice the paid in and unimpaired capital and surplus of such national bank, State bank, trust company, or savings institution. No paper shall under this section be purchased from or discounted for any other corporation engaged in making loans for agricultural purposes or for the raising, breeding, fattening, or marketing of live stock, if the amount of such paper added to the aggregate liabilities of such corporation exceeds the amount of such liabilities permitted under the laws of the jurisdiction creating the same; or exceeds ten times the paid in and unimpaired capital and surplus of such corporation. It shall be unlawful. for any national bank which is indebted to any Federal Intermediate Credit Bank upon paper discounted or purchased under this section, to incur any additional indebtedness, if by virtue of such additional indebtedness its aggregate liabilities, direct or contingent, will exceed the limitations herein contained."

(c) Loans, advances, or discounts made under this section shall have a maturity at the time they are made or discounted by the Federal Intermediate Credit Bank of not less than six months nor more than three years. Any Federal Intermediate Credit Bank may in its discretion sell loans or discounts made under this section,

with or without its indorsement.

(d) Rates of interest or discount charged by the Federal Intermediate Credit banks upon such loans and discounts shall be subject to the approval of the Federal Farm Loan Board. On the majority vote of the members of the Federal Farm Loan Board any Federal Intermediate Credit Bank shall be required to rediscount the discounted paper of any other Federal Intermediate Credit Bank at rates of interest to be fixed by the Federal Farm Loan Board.

#### TITLE II.—NATIONAL AGRICULTURAL CREDIT CORPORATIONS.

Sec. 203. (a) That each National Agricultural Credit Corporation shall have power, under such rules and regulation as the Comptroller of the Currency may prescribe—

(1) To make advances upon, to discount, rediscount, or purchase, and to sell or negotiate, with or without its indorsement or guaranty, notes, drafts, or bills of exchange, and to accept drafts or bills of exchange, which—

(A) Are issued or drawn for an agricultural purpose, or

the proceeds of which have been or are to be used for an

agricultural purpose;

(B) Have a maturity, at the time of discount, purchase,

or acceptance, not exceeding nine months; and

(C) Are secured at the time of discount, purchase, or acceptance by warehouse receipts or other like documents conveying or securing title to nonperishable and readily marketable agricultural products, or by chattel mortgages or other like instruments conferring a first and paramount lien upon live stock which is being fattened for market.

- (2) To make advances upon or to discount, rediscount, or purchase, and to sell or negotiate with or without its indorsement or guaranty, notes secured by chattel mort-gages conferring a first and paramount lien upon maturing or breeding live stock or dairy herds, and having a maturity at the time of discount, rediscount, or purchase not exceeding three years.
- (8) To issue, subject to such regulations as the Comptroller of the Currency may prescribe, collateral trust notes or debentures, with a maturity not exceeding three years, and to pledge as security for such notes or debentures

any notes, drafts, bills of exchange, or other securities held by the corporation under the terms of this title. The regulations of the Comptroller of the Currency may prescribe the form of notes or debentures, and of notes, drafts, bills of exchange, warehouse receipts, chattel mortgages, or other instruments which may be pledged as security therefor, the provisions which may be made with regard to release, substitution, or exchange of such securities, and with regard to protection, supervision, inspection, and reinspection of the agricultural commodities or live stock pledged or mortgaged as security therefor.

(b) The United States Government shall assume no liability, direct or indirect, for any debentures or other obligations issued under this title, and all such debentures and other obligations shall contain conspicuous and appropriate language, to be prescribed in form and substance by the Comptroller of the Currency and approved by the Secretary of the Treasury, clearly indicating that no

such liability is assumed.

(c) Any obligation referred to in paragraphs (1) or (2) of subdivision (a) of this section, which is secured by chattel mortgage upon live stock of an estimated market value at least equal to the face amount of such obligation, may be additionally secured by mortgage or deed of trust upon real estate or by other securities, under such regulations as may be made by the Comptroller of the Currency.

#### REDISCOUNT CORPORATIONS.

Sec. 207. (a) That National Agricultural Credit Corporations having an authorized capital stock of \$1,000,000 or over may be organized under the provisions of this title, to exercise all the powers enumerated in section 203, except that in lieu of the powers conferred in paragraphs (1) and (2) of subdivision (a) of such section, such corpora-

tions shall have powers,-

(1) Upon the indorsement of any National Agricultural Credit Corporation, or of any bank or trust company which is a member of the Federal Reserve System, to rediscount for such corporation, bank, or trust company, notes, drafts, bills of exchange, and acceptances, which conform to the requirements of paragraphs (1) and (2) of subdivision (a) of section 203. Such indorsement shall be deemed to be a waiver of demand notice and protest by such corporation as to its own indorsement exclusively.

(2) To discount or purchase notes, drafts, or bills of ex-

(2) To discount or purchase notes, drafts, or bills of exchange issued or drawn by cooperative associations of producers of agricultural products, provided such notes, drafts, or bills of exchange are secured at the time of discount or purchase by warehouse receipts or other like documents conveying or securing title to nonperishable and readily marketable agricultural products, and have a maturity at the time of discount or purchase not exceed-

ing nine months.

(3) To sell or negotiate with or without recourse any note, draft, or bill of exchange discounted or purchased

hereunder.

(b) National Agricultural Credit Corporations organized under the provisions of this section, shall not be subject to the limitations contained in section 204, but the Comptroller of the Currency may, by general regulations, from time to time prescribe the amount of indebtedness, direct or contingent, which such corporations may incur, and the aggregate amount of paper of different types which such corporations may rediscount for any one corporation.

(c) Corporations with powers limited, as provided in this section, shall not be subject to the requirements as to deposit of bonds or other obligations of the United States, as provided in section 208 of this title.

#### PERMIT TO BEGIN BUSINESS.

Sec. 208. (a) That no National Agricultural Credit Corporation, except corporations with powers limited as provided in section 207, shall commence business until it has deposited with the Federal reserve bank of the district wherein it has its place of business, bonds or other obligations of the United States in an aggregate face amount at least 25 per centum of its paidin capital stock. Each such corporation shall at all times keep on deposit with such Federal reserve bank an amount of such bonds or other obligations of the United States at least equal in face value to 7½ per centum of the aggregate indebtedness of such corporation, direct or contingent, said amount to include the 25 per centum deposited as hereinbefore by this section provided. Except as hereinafter provided, such bonds or other obligations shall be held by such Federal reserve bank, subject to the direction and control of the Comptroller of the Currency, in trust for the equal and pro rata protection and benefit of all holders of notes, debentures, drafts, bills of exchange, or acceptances upon which such corporation may be directly or contingently Upon receipt of proper evidence that the amount of such bonds or other obligations of the United States so deposited exceeds 7½ per centum of such aggregate indebt-edness, the Comptroller of the Currency may release such excess, provided that the amount remaining on deposit shall in no event be reduced below 25 per centum of the paid-in capital stock of such corporation. Under such regulations as the Comptroller of the Currency may prescribe, a Federal reserve bank may, upon request of the corporation which deposited the same, sell any such bonds or obligations for account of such corporation, and permit such corporation to use the proceeds thereof for the protection or preservation of any property pledged or mort-gaged as security for obligations owned or indorsed by the corporation. If by reason of such sale the face amount of such bonds or other obligations of the United States remaining on deposit with such Federal reserve bank shall be less than  $7\frac{1}{2}$  per centum of such aggregate indebtedness of the corporation, no further advances shall be made, or notes, drafts, or bills of exchange discounted, redis-counted, accepted, or purchased, by such corporation until sufficient additional bonds or other obligations of the United States have been deposited to make good the deficiency.

BANKS MEMBERS OF THE FEDERAL RESERVE SYSTEM MAY BECOME STOCKHOLDERS.

Sec. 210. That any member bank of the Federal reserve system may file application with the Comptroller of the Currency for permission to invest an amount not exceeding in the aggregate 10 per centum of its paid in capital stock and surplus in the stock of one or more of the National Agricultural Credit Corporations, and upon approval of such application may purchase such stock. The Comptroller of the Currency shall have discretion to approve or reject such application in whole or in part.

#### DEPOSITS.

Sec. 212. That the moneys of National Agricultural Credit Corporations may be kept on deposit subject to check in any member bank of the Federal reserve system.

#### THE GOLD SITUATION.

Continued gold imports to the United States, though in reduced volume, and the unprecedented total of the gold reserves of the Federal reserve banks make it opportune to review once more the general gold situation.<sup>1</sup>

The table below shows the gold reserves of total on each date are the principal countries at the end of 1913, just columns of the table.

before the outbreak of the war; at the end of 1918, after the signing of the armistice; at the end of August, 1920, the close of the period when the United States lost gold to other countries after the lifting of the gold embargo, and at the end of 1922. The percentages that reserves of each country constituted of the total on each date are shown in the last four columns of the table.

#### GOLD RESERVES OF THE PRINCIPAL COUNTRIES.

	Gold holdings (in thousands of dollars).					Percentage distribution.				
	Dec. 31, 1913.	Dec. 31, 1918.	Aug. 31, 1920.	Latest available date 1922.	Dec. 31, 1913.	Dec. 31, 1918.	Aug. 31, 1920.	Latest available date 1922.		
United States	691, 514	2, 245, 720	2, 129, 941	3, 200, 372	20. 4	35, 5	32. 1	40.3		
Great Britain	170, 245	523,632	737, 416	751,841	5.0	8.3	11.1	9, 5		
France	678,856	664,017	697, 108	708, 403	20.0	10.5		8,9		
Japan	64,963	225, 821	411, 263	608, 170	1.9	3.6	6, 2	7.7		
Spain	92, 490	430,072	473, 309	487, 278	2.7	6.8	7.1	6.1		
Argentina		269, 628	450, 057	450, 057	6.6	4.3	6.8	5. 7		
Netherlands	60,898	277, 155	255, 808	233, 880	1.8	4.4	3.9	2.9		
Germany	278,687	538, 861	260,035	227, 437	8.2	8.5	3.9	2. 9		
Italy		243, 566	203,834	215, 822	8.5	3.9	3. 1	2.7		
Canada	142, 517	190,688	172,002	180,907	4.2	3.0	2.6	2.3		
India	72,780	63,842	126,905	118,341	2.2	1.0	1.9	1.5		
Australia	21,899	104, 143	112,966	112,048	.6	1.6	1.7	1, 4		
Switzerland	32, 801	80,041	104,213	103, 136	1.0	1.3	1.6	1.3		
Sweden	27,372	76,532	70,041	73, 422	. 8	1, 2	1.1	.9 .8 .8 .9 .6 .5		
Denmark	19,666	52, 159	60, 991	61, 185	. 6	.8	.9	.8		
Java	10,027	51,600	60,500	61,819	.3	.8	.9	. 8		
South Africa	39,905	33, 579	54, 991	74,088	1.2	.5	.8	.9		
Belgium	59, 131	51,145	51,433	51,901	1.7	.8	.8			
Norway	12,846	32,691	39, 488	39, 474	.4	.5	.6	• • • •		
New Zealand	25,306	39,419	37,472	38, 127	.7	.6	.6	.5		
Brazil		15,571	19, 454	45, 119	1.6	.3	.3	.6		
Egypt	10,381	16,312	16,614	16,604	.3	.3	.3	. 2		
Yugoslavia				12,352			· · · · · · · · · · · ·	.1		
			569	12,738 6,061				i :1		
Greece.	5,211	10,422	11,001 9,266	9, 267	.2			:1		
Portugal	8,760	9, 263 8, 299			$\frac{.3}{.2}$	.2	.1	: 1		
Finland			8, 299	8,371 7,401	.3	$\frac{1}{2}$	: 1	:1		
Bulgaria	10,615	12,352	7,141	8, 240			. 1	i		
Poland	90 949	2	1,657 $329$	8, 240 7, 585				::		
Austria.	29, 242	! .		9,989				ir ii		
Hungary	251,421	53,074	45, 113	]	7.4	.8	. 6	\		
Total.	3, 390, 775	6, 319, 606	6,629,226	7,941,435	100, 0	100.0	100, 0	100.0		

The increase in the total gold reserves from \$3,391,000,000 in 1913 to \$6,320,000,000 at the end of 1918 was due in large part to the concentration of gold previously in circulation, while the increase of gold reserves of the United States during that period was due largely to payments to this country for war supplies. next period, ending August 31, 1920, shows a further increase to \$6,629,000,000, part of which was due to further withdrawals from circulation and hoards and part to new gold produced. During this period the United States lost gold, owing to the fact that several countries of South America and of the Orient had gold balances here which could not be withdrawn until the lifting of the embargo, but which were released at that time.

Between August 31, 1920, and the end of 1922 total central gold reserves increased by over \$1,300,000,000. This period is characterized chiefly by the heavy movement of gold to the United States. It was the repayment in October, 1920, of the \$500,000,000 Anglo-French loan that started this current of gold from Europe to America. The major part of the gold came from England, France, Sweden, and the Netherlands. This movement of gold consisted for the most part of the new gold mined in the British possessions, but included also gold from the German central reserve, paid for food supplied by the United States Grain Corporation. In addition a large part of the Russian gold reserve was shipped to various European countries, whence equivalent amounts found their way to the United States. The fundamental cause for this gold movement to the

<sup>&</sup>lt;sup>1</sup> For previous reviews of the gold situation see Federal Reserve Bulletin, June, 1921, and June, 1922.

United States was that the countries of Europe were exhausted by war; their productive plant was badly disorganized; their production and ability to export goods were, therefore, greatly reduced, and yet they were in need of food and raw materials from America. Prior to 1921 they were able to obtain much of what they required in America on credit, first, using the the credits authorized by the United States Treasury, and later using large amounts borrowed privately either on open account, or by the flotation of securities.

The movement of gold to the United States was thus not the ordinary movement of funds to the most profitable channels of investment; it was the effect of the efforts of war-stricken countries to obtain goods for reconstruction. The loss of this gold by the countries of Europe, coupled with the growth of note circulation, resulted in the fall of the exchange value of most of their currencies, together with a rapid advance in prices. These factors in turn inadvance in prices. creased the difficulty of financing reconstruction, of balancing budgets, and of inaugurating and enforcing equitable plans of taxation. The distinctive thing about this gold movement is that the gold was not attracted to this I tion of gold.

country by economic opportunities here, but rather was expelled by conditions prevailing in the older countries.

#### GOLD PRODUCTION.

Gold production from 1910 to 1923 is shown in the table below.

It will be noted that the decline in total production has been constant since the record year 1915. The decrease was due partly to the loss of Russian production and partly to the increased cost of operation with a fixed price of the product. The Transvaal output for 1922 was considerably reduced by the Rand strike of January-March, although Transvaal returns for the last six months of 1922 amounted to £19,400,000, as compared with £17,700,000 for the last six months of 1921. If this rate of production in the Transvaal will continue throughout 1923, it will bring the amount produced practically up to its previous maximum. In view of this and other improvements, British experts believe that the year 1922 saw the end of the decline and that 1923 will show a marked increase in world produc-

#### GOLD PRODUCTION OF THE WORLD.

[In thousands of dollars.]

	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922.1
United States	96, 269 10, 206 35, 580	96, 890 9, 762 32, 152	93, 451 12, 649 22, 199	88,884 16,599 26,508	94,532 15,983 28,586	101,036 18,978 26,323	92,590 19,235 22,500	83,751 15,273 18,000	68,647 14,464 12,000	60,333 15,850 11,000	51, 187 15, 853 1, 183	50,067 19,109 930	49,09 25,80
Transvaal	}175, 190	191,539	{188, 293 14, 227	181,885 14,275	173,560 17,664	188,033 18,915	192, 183 19, 232	186, 427 17, 245	174,023 13,051	172, 230 12, 268	172, 231 11, 433	168,036 12,132	145,00 13,60
Western Australia. Other Australia British India. All other	65, 471 10, 718 61, 805	60, 184 11, 054 60, 359	26,515 27,994 11,056 69,752	27, 166 25, 947 12, 178 66, 499	25, 488 22, 081 11, 378 49, 806	25,015 23,973 11,523 54,929	21,941 18,535 11,209 56,752	20,058 14,340 10,813 53,515	18, 119 12, 693 10, 031 60, 578	15, 175 11, 737 10, 486 56, 710	12,772 9,880 10,317 52,163	13,746 6,991 9,716 49,188	} 17,00 8,80 57,00
Total	455, 239	461,940	466, 136	459,941	439,078	468,725	454, 177	419, 422	383,606	365, 789	337,019	329,915	316,30

Preliminary estimates: For the United States, by the Director of the Mint; for other countries, from the Montagu annual bullion letter,

#### GOLD MOVEMENT AND TRADE BALANCES.

During February of this year sterling exchange in the New York market rose as high as \$4.72, or to within 3 per cent of parity. This advance from a low point of \$3.23 in February, 1920, measures the extent of England's recovery from postwar financial disorganization. The rise in sterling, particularly during the past year, has been ascribed in part to the difference in the movement of price levels in England and in the United States. In England the index of wholesale prices during the age and her imports from us have declined, all

early part of 1922 remained fairly steady and during the latter part showed a decline, while in this country there was a steady advance of prices from 142 in January, 1922, to 165 in February, 1923. It is clear that a decline in the buying power of the dollar with an increase in that of the pound must diminish the value of the dollar in terms of the pound. This is what has occurred in recent months. At the same time England has continued to send large amounts of gold to America, her other exports to the United States have been above the averof which has reduced the net balance in favor of the United States. In fact, according to a recent estimate of the London Economist, England had a favorable balance of payments with the rest of the world in 1922, when account is taken both of visible and invisible items. The figures as published in the Economist are as follows:

[In millions of pounds.]

607		
057	882	882
200 94 30 20	100 80 50 20	100 94 40 20
1,041	1,132	1,136
843 5	1,145 50	1,049 25
848 +193	1,195 -63	1,074 +62
	94 30 20 1,041 843 5	200 80 80 80 50 20 20 1,041 1,132 843 1,145 5 50 848 1,195

While England's exports of merchandise and precious metals were on the same level in 1922 as in 1921, her imports were nearly £100,000,000 smaller, and this, together with some improvement in the invisible balance, resulted in a final estimated favorable balance of £62,000,000, compared with an unfavorable one of £63,000,000 in 1921.

This improvement in England's financial position raises the question whether a continuation of the flow of gold into the United States, which has been uninterrupted since the latter part of 1920, may be expected. In 1921 our net gold imports were \$667,000,000; in 1922 they declined to \$238,000,000. It has been stated that if the tendencies manifest during the past year were to continue at the same rate it would not be long before the United States would export gold, for not only was the amount of gold imported during 1922 much smaller than in 1921, but exports of gold shared than in 1921, but exports of gold showed a material increase, especially during the fall months. Most of the gold exports went to Canada, which recently has had a favorable trade balance and a consequent high rate of exchange. Canadian banks with balances in the United States made use of the favorable rate to transfer the balances in gold to Canada, where most of the gold was added to the reserve against Dominion notes, bringing the ratio of these reserves to the highest point since 1917. Recently, however, much of the gold has returned to Canada, following the shift in Canadian exchange. Of the

oriental countries, Japan also has been reducing its foreign gold balances in an effort to help Japanese business to obtain foreign exchange bills. Last fall the Japanese Government issued a statement to the effect that a removal of the gold embargo is desirable but not yet practicable in view of the disturbed financial conditions, and this position has recently been reaffirmed. Trade conditions in British India are now favorable and she is a constant bidder for a share of the new gold offered in the London market. On the continent of Europe, however, although the rates of exchange of all the countries that remained neutral during the war are approaching parity, it is doubtful whether these countries will be active bidders for gold, as their gold reserves are high and their trade balances are not sufficiently large to demand substantial amounts of gold in settlement. The currencies of the other European countries are far below par and show little or no indication of recovery; these countries can not purchase gold except for use in the arts. In Germany the recent flotation of a \$50,000,000 gold loan indicates that the paper mark is rapidly ceasing to be a standard of value and that much of the domestic business and practically all of the foreign trade is done in terms of gold. But Germany, for many years to come, can hardly be expected to become a bidder for gold in the world market. In South America, although business and trade conditions are improved as compared with last year, exchange rates are still relatively low, especially in Brazil and Chile, and no demand for gold can be expected from that quarter. With tropical countries the United States has regularly an unfavorable balance of merchandise trade amounting to as much as \$500,-000,000 a year, resulting from the import of such commodities as sugar, rubber, tobacco, fibers, coffee, fruits, tin, and other products. But this debit balance is much more than offset by the credit balances with other countries, so that the United States can pay for her imports from the Tropics by her exports to other countries.

Under the present circumstances it seems certain that an unfavorable balance of payments for the United States can be caused only through a large volume of investment by Americans in foreign securities, by the direct purchase by American capital of property abroad or of participations in foreign enterprises, or by the granting of large loans either public or private for purposes of financial reconstruction. A large volume of investment in

foreign securities has actually taken place in recent years, foreign securities bought in the American market amounting to \$576,000,000 in 1920, \$626,000,000 in 1921, and \$870,000,000 in 1922. Loans on open account carried for foreign interests by American banks have been estimated from \$1,000,000,000 to \$4,000,-000,000, and while there is no way of ascertaining the extent of direct investment of American capital abroad, it undoubtedly amounts to a great sum in the aggregate. The recent revival of domestic business activity and credit demand in this country, however, which has been accompanied by a rise in our level of prices and interest rates, has tended to decrease the attractiveness of foreign securities to the American investor. Moreover, there is constantly at work as an offsetting factor to

foreign investment the payment of interest and installments of principal upon previously contracted loans.

On the basis of this brief survey it appears probable that, so long as the dollar remains at a premium in most countries of the world, and so long as the rest of the world continues to be heavily in debt to the United States, a large part of the annual increase in the world's gold supply will continue to find its way to America. And, although a diminution of America's share of the new gold may be expected as the result of the recent unfavorable change in her trade balance, there is little likelihood in the immediate future of a sufficient demand for gold abroad to cause large net exports from the United States.

#### GOLD IMPORTS INTO AND EXPORTS FROM THE UNITED STATES.

fT_	thouganda	~ #	dollara	1
1111	thousands	υı	donais.	,

	Total, Nov. 1, 1918-Feb. 28, 1923.			Nov. 1, 1918-Aug. 31, 1920.			Sept. 1, 1920-Feb. 28, 1923.					
	Imports.	Exports.	Excess of im- ports.	Excess of ex- ports.	Imports.	Exports.	Excess of im- ports.	Excess of ex- ports.	Imports.	Exports.	Excess of im- ports.	Exces of ex- ports
France Netherlands Spain Sweden England Canada Nicaragua Salvador Mexico Argentina Colombia Uruguay Venezuela China British India Straits Settlements Dutch East Indies Hongkong Japan New Zealand All other countries	619, 334 150, 093 4, 849 3, 457 22, 384 2, 969 29, 831 7, 089 3, 352 27, 424 32, 010 10, 260 45, 886 2, 208 8, 361 147, 216	11,093 19,945 85,583 195,413 23,222	246,834 32,012 98,556 617,009 113,458 4,832 23,362 23,362	20,100 143,586 14,966 8,998 40,322 21,056 11,093 9,685 39,697 193,205	76, 158 2, 260 1, 495 8, 328 180 3, 623 718 1 6, 440 40, 210 2, 751 10, 167	19,430 67,030 132,856 20,755	2,751	12,900 26,820 132,856	249, 243 30, 884 3, 893 101, 278 534, 704 73, 935 2, 589 1, 962 2, 789 26, 208 7, 083 27, 423 32, 010 3, 820 5, 676 2, 261 137, 049	19 752 2,721 220 27,152 14,357 500 8,350 12,262 200 518,553 62,557 2,467	249, 243 30, 865 3, 141 98, 557 534, 484 466, 783 2, 589 1, 962 2, 789 2, 634 19, 973 19, 973 19, 748 3, 305	30 20 12,87 60,34
Total Excess imports Excess exports			$1,268,731 \ 739,386$	529,345			155,341		1,265,060		1,188,162 1,114,435	73,75

#### **MEMBER BANK ACCEPTANCES IN 1922.**

During the second half of the past year the improvement in the general business situation, and particularly the increase in the value of our foreign trade, was reflected in a considerable growth of the volume of member bank acceptances, as indicated by the condition reports of all member banks received by the Comptroller of the Currency and the Federal Reserve Board. Following a substantial decline in the early part of the year, acceptance liabilities of the member banks on June 30

showed a small increase to \$320,770,000 from \$316,755,000 on March 10, 1922. At the close of the year the total had risen to \$400,191,000, compared with \$367,294,000 at the close of 1921 and \$593,708,000 on December 29, 1920. While most of the increase for the last six months of the past year is shown for the New York City and Boston banks, substantial growth of the acceptance business is also reported from Southern centers, viz, New Orleans, Savannah, Atlanta, Dallas, and Richmond, apparently in connection with the improvement in the cotton trade. More than

average increases are also shown for member banks on the Pacific coast, especially San Francisco, Los Angeles, and Portland.

In the following table are shown acceptance liabilities of all member banks and of national and other member banks in selected cities for call dates between December 31, 1921, and December 29, 1922, in continuation of similar figures published on page 1048 of the September, 1922, BULLETIN:

ACCEPTANCE LIABILITIES OF MEMBER BANKS.

[In thousands of dollars.]

Dec. 31, Mar. 10, June 30, Dec. 29,

		1921.	1922.	1922.	1922.
All member ba	nks.				
Name Vorle	Į	215, 122	104 059	100 079	996 848
New York Buffalo		1,046	194, 953 740	190, 978 373	236, 545 285
Boston		44,734	37,652	41,675	54,383
Providence		871	361	460	2 495
Philadelphia		10.745	10,350	13, 278	2,495 14,270
Pittsburgh		10,745 1,167	899	466	979
Cleveland		4,608	4,979	4,408	3,513
Detroit		678	703	499	36
Cincinnati		153	200	30	32
Memphis		545	580	180	678
Indianapolis		492	478	655	553
Richmond		3,615	1,865	741	1,657
Baltimore		1,812	997	217	263
Atlanta		337	252	917	750
Savannah		964 7 607	764 6 755		3,459
New Orleans Charleston, S. C		7,697 1,009	6,755 890	1,914 1,174	8,626 833
Chicago		35, 279	27,097	38,866	33 005
St. Louis		35, 279 1, 715	823	570	33,005 1,046 2,391
Minneapolis.		2,462	2,670	2,304	2,391
Minneapolis Kansas City, Mo		350	1,092	319	291
Dallas		1,306		325	1,782
San Francisco		9,892	6,520	8,959	12,057
Los Angeles		1,319	847	924	3,313
Portland		1,507	1,123	600	1,288
Seattle		351	228	307	399
All other		17,518	12,937	9,631	15, 262
Total		367, 294	316,755	320,770	400, 191
			! 		
	Dec. 31,	Mar. 10, 1922.	June 30, 1922.	Sept. 15, 1922.	Dec. 29,
	Dec. 31, 1921.			Sept. 15, 1922.	Dec. 29, 1922.
National banks.		1922.		Sept. 15, 1922.	1922.
New York	1921.	1922.	98,180	91,645	1922.
New York Buffalo	1921. 111,724 512	1922. 103,661 341	98,180 70	91,645 87	1922. 110,748 159
New York Buffalo Boston	1921. 111,724 512 35,332	1922. 103,661 341 28,339	98,180 70 33,208	91,645 87 30,931	110,748 159 43,628
New York	1921. 111,724 512 35,332 518	1922. 103,661 341 28,339 110	98,180 70 33,208 306	91,645 87 30,931 102	1922. 110,748 159 43,628 1,126
New York	1921. 111,724 512 35,332 518 10,589	1922. 103,661 341 28,339 110 10,146	98,180 70 33,208 306 13,198	91,645 87 30,931 102 10,059	1922. 110,748 159 43,628 1,126 14,225
New York. Buffalo. Boston Providence. Philadelphia. Pittsburgh	1921. 111,724 512 35,332 518 10,589 1,067	1922. 103,661 341 28,339 110 10,146 699	98,180 70 33,208 306 13,198 216	91,645 87 30,931 102 10,059 369	1922. 110,748 159 43,628 1,126 14,225 677
New York. Buffalo. Boston. Providence. Philadelphia. Pittsburgh. Cleyeland.	111,724 512 35,332 518 10,589 1,067 959	1922. 103,661 341 28,339 110 10,146 699 576	98,180 70 33,208 306 13,198 216 831	91,645 87 30,931 10,059 369 682	110,748 159 43,628 1,126 14,225 1,166
New York. Buffalo. Boston Providence. Philadelphia Pittsburgh Cleveland Detroit	111,724 512 35,332 518 10,589 1,067 959 453	1922. 103,661 341 28,339 110 10,146 699	98,180 70 33,208 306 13,198 216 831 499	91,645 87 30,931 102 10,059 369	110,748 159 43,628 1,126 14,225 677 1,106
New York. Buffalo. Boston Providence. Philadelphia Pittsburgh Cleveland Detroit Cincinnati	111,724 512 35,332 518 10,589 1,067 959	103,661 341 28,339 110 10,146 699 576 703	98,180 70 33,208 306 13,198 216 831	91,645 87 30,931 10,059 369 682	110,748 159 43,628 1,126 14,225 1,166
New York. Buffalo. Boston. Providence. Philadelphia. Pittsburgh. Cleveland. Detroit. Cincinnati. Indianapolis. Richmond.	1921. 111,724 512 35,332 518 10,589 1,067 959 453 150 492 3,615	1922. 103,661 341 28,339 110 10,145 699 576 703 200 478 1,862	98, 180 70 33, 208 3, 198 216 831 499 30 655 738	91,645 87 30,931 10,059 369 682 202	110,748 159 43,628 1,126 677 1,166 36 32
New York. Buffalo. Boston Providence. Philadelphia Pittsburgh Cleveland Detroit Cincinnati	1921. 111,724 512 35,332 518 10,589 1,067 959 453 150	1922. 103,661 341 28,339 110 10,146 699 576 703 200	98,180 70 33,208 306 13,198 216 831 499 30 655	91,645 87 30,931 102 10,059 682 202 223 425 645 314	110,748 1159 43,628 1,126 14,225 677 1,106 36 32 553 971 263
New York. Buffalo. Boston Providence. Philadelphia Pittsburgh Cleveland Detroit Cincinnati Indianapolis Richmond Baltimore Atlanta	1921. 111,724 512 35,332 518 10,589 1,067 959 453 150 492 3,615 1,812	1922. 103,661 341 28,339 110 10,146 699 576 703 200 478 1,862 997	98,180 70 33,208 306 13,193 216 831 499 30 655 738 217	91,645 87 30,931 102 10,059 682 202 425 645 314 36	110,748 159 43,628 1,120 14,225 1,106 32 553 971 263 750
New York. Buffalo. Boston Providence. Philadelphia Pittsburgh Cleveland Detroit Cincinnati Indianapolis Richmond Baltimore Atlanta New Orleans	1921. 111,724 512 35,332 518 10,589 1,067 959 453 150 492 3,615 1,812	103, 661 341 28, 339 110 10, 146 699 576 703 200 478 1, 862 997	98, 180 70 33, 208 306 13, 198 216 831 499 30 655 738 217	91,645 87 30,931 102 10,059 682 202 425 645 314 366 688	110,748 159 43,623 1,126 14,225 677 1,166 36 32 553 971 263 750 956
New York. Buffalo. Boston. Providence. Philadelphia Pittsburgh. Cleveland Detroit. Cincinnati. Indianapolis. Richmond Baltimore. Atlanta. New Orleans. Charleston, S. C.	1921. 111,724 512 35,332 518 10,589 1,067 959 453 150 492 3,615 1,812	1922. 103,661 341 28,339 110 10,146 699 576 703 200 478 1,862 997 921 890	98, 180 70 33, 208 306 13, 198 216 831 499 30 655 738 217	91,645 87 30,931 1002 10,059 369 632 202 425 645 314 36 688 819	110,748 159 43,628 1,126 14,225 1,126 36 32 553 971 263 750 956 833
New York. Buffalo. Boston. Providence. Philadelphia. Pittsburgh. Cleveland. Detroit. Cincinnati. Indianapolis. Richmond. Baltimore. Atlanta. New Orleans. Charleston, S. C. Chicago.	1921. 111,724 512 35,332 518 10,589 1,067 959 453 150 492 3,615 1,812 983 1,009 18,582	1922.  103,661 341 28,339 110 10,146 699 576 703 200 478 1,862 997	98, 180 70 33, 208 306 13, 198 216 831 499 30 655 738 217 375 1, 174 19, 198	91, 645 87 30, 931 10, 059 369 682 202 425 645 314 36 688 819 22, 377	110,748 43,628 1,126 14,225 1,126 36 32 553 971 263 750 956 833 17,585
New York. Buffalo. Boston. Providence. Philadelphia Pittsburgh. Cleveland. Detroit. Cincinnati. Indianapolis. Richmond. Baltimore. Atlanta New Orleans. Charleston, S. C. Chicago. St. Louis.	111,724 512 35,332 5,318 10,589 1,067 959 453 150 492 3,615 1,812 983 1,009 18,582 922	1922.  103,661 28,339 101,146 699 576 703 200 478 1,862 997 921 890 13,063 241	98,180 70 33,208 33,208 13,198 216 8311 499 499 499 555 738 217 375 1,174 19,198	91, 645 87 30, 931 10, 059 369 202 223 425 645 314 36 688 819 22, 377 128	110,748 159 43,628 1,126 11,225 677 1,166 32 553 971 263 750 956 833 17,585 562
New York. Buffalo. Boston. Providence. Philadelphia. Pittsburgh. Cleveland. Detroit. Cincinnati. Indianapolis. Richmond. Baltimore. Atlanta. New Orleans. Charleston, S. C. Chicago. St. Louis. Minneapolis.	111, 724 111, 724 512 35, 332 518 10, 589 1, 967 959 492 3, 615 1, 812 983 1, 009 18, 582 922 2, 462	1922.  103,661 341 28,339 110 10,146 699 576 703 3200 478 1,862 997	98, 180 70 33, 208 306 13, 198 216 831 499 30 655 738 217 375 1, 174 19, 198	91, 645 87 30, 931 10, 059 369 682 202 425 645 314 36 688 819 22, 377	110,748 159 43,628 1,126 11,225 677 1,166 36 32 553 971 263 750 956 833 17,585 562 2,391
New York. Buffalo. Boston. Providence. Philadelphia. Pittsburgh. Cleveland. Detroit. Cincinnati. Indianapolis. Richmond. Baltimore. Atlanta. New Orleans. Charleston, S. C. Chicago. St. Louis. Minneapolis. Kansas City, Mo.	111, 724 512 35,332 5,513 10,589 1,067 453 150 492 3,615 1,812 983 1,009 18,582 922 2,462	1922.  103,661 28,339 101,146 699 576 703 200 478 1,862 997 921 890 13,063 241	98,180 70 33,208 3,008 13,198 216 831 499 30 655 738 217 375 1,174 19,198 156 2,304	91, 645 87 30, 931 10, 059 369 369 202 223 425 645 314 36 688 819 22, 377 128 2, 516	110,743 43,628 1,126 14,225 1,126 36 32 35 32 35 37 263 753 753 753 753 753 753 753 753 753 75
New York. Buffalo. Boston. Providence. Philadelphia Pittsburgh. Cleveland. Detroit. Cincinnati. Indianapolis. Richmond. Baltimore. Atlanta. New Orleans. Charleston, S. C. Chicago. St. Louis. Minneapolis. Kansas City, Mo. Dallas.	111, 724 512 35, 332 10, 589 1, 967 953 150 3, 615 1, 812 2, 462 3, 30 1, 30 1, 30 1, 31 1, 31 1	1922.  103,661 341 28,339 110 10,146 703 200 478 1,862 997 921 890 13,063 2,670 113	98,180 70 33,208 33,216 8311 499 30 655 738 217 1174 19,198 156 2,304	91,645 87 30,931 102 10,059 369 682 202 423 645 314 36 688 819 22,377 128 2,516	110,743 43,628 1,126 14,225 1,126 36 32 35 32 35 37 263 753 753 753 753 753 753 753 753 753 75
New York. Buffalo. Boston. Providence. Philadelphia. Pittsburgh. Cleveland. Detroit. Cincinnati. Indianapolis. Richmond. Baltimore. Atlanta. New Orleans. Charleston, S. C. Chicago. St. Louis. Minneapolis. Kansas City, Mo. Dallas. San Francisco.	111, 724 512 35,332 5,518 10,589 1,967 453 1,500 492 3,615 1,812 983 1,009 18,582 2,462 2,462 1,181 8,393	1922.  103,661 341 28,339 110 10,146 699 576 703 3200 478 1,862 997	98, 180 70 33, 208 306 6 13, 198 216 831 499 30 655 738 217 375 1,174 19, 198 2, 304	91, 645 87 30, 931 10, 059 369 682 202 425 645 314 36 688 819 22, 377 2, 516 642 2, 516	110,748 43,628 1,126 14,225 677 1,106 32 553 971 263 750 986 833 17,585 2,391 80 1,782 9,273
New York. Buffalo. Boston. Providence. Philadelphia. Pittsburgh. Cleveland. Detroit. Cincinnati. Indianapolis. Richmond. Baltimore. Atlanta. New Orleans. Charleston, S. C. Chicago. St. Louis. Minneapolis. Kansas City, Mo. Dallas. San Francisco. Los Angeles. Portland.	111, 724 512 35, 332 10, 589 1, 967 953 150 3, 615 1, 812 2, 462 3, 30 1, 30 1, 30 1, 31 1, 31 1	1922.  103,661 341 28,339 110 10,146 699 576 703 200 478 1,862 997  211 803 241 2,670 113 6,139 775 704	98,180 70 33,208 306 13,198 216 831 499 30 655 738 217 	91, 645 87 30, 931 10,059 369 682 202 425 645 314 36 688 819 22,377 128 2,516 642 10,078 2,860 2,860	110,743 43,628 1,126 14,225 1,126 36 32 35 32 35 37 263 753 753 753 753 753 753 753 753 753 75
New York. Buffalo. Boston. Providence. Philadelphia. Pittsburgh. Cleveland. Detroit. Cincinnati. Indianapolis. Richmond. Baltimore. Atlanta. New Orleans. Charleston, S. C. Chicago. St. Louis. Minneapolis. Kansas City, Mo. Dallas. San Francisco. Los Angeles. Portland.	111, 724 512 35,332 10,589 1,067 492 3,615 1,812 983 1,099 18,582 2,462 3,501 1,181 8,393 1,102 938 1,102 939 1,102	1922.  103, 661 341 28, 339 10, 146 699 576 703 200 478 1, 862 997  921 890 13, 063 241 2, 670 113 6, 139 775 704 228	98,180 70 33,208 3,208 3,308 13,198 216 831 499 30 655 71,174 19,198 156 2,304	91, 645 87 30, 931 10, 059 369 682 202 425 645 314 36 688 819 22, 377 2, 516 642 2, 516	110,748 110,748 43,623 1,126 14,225 677 1,166 36 32 553 971 263 750 956 833 17,585 2,391 1,782 2,391 1,782 2,593 2,593
New York. Buffalo. Boston Providence. Philadelphia. Pittsburgh Cleveland Detroit Cincinnati Indianapolis. Richmond Baltimore Atlanta New Orleans. Charleston, S. C. Chicago. St. Louis. Minneapolis Kansas City, Mo. Dallas. San Francisco. Los Angeles	111, 724 111, 724 35, 332 518 10, 589 1, 067 959 453 150 492 3, 615 1, 812 	1922.  103,661 341 28,339 110 10,146 699 576 703 200 478 1,862 997  211 803 241 2,670 113 6,139 775 704	98,180 70 33,208 306 13,198 216 831 499 30 655 738 217 	91, 645 87 30, 931 10,059 369 682 202 425 645 314 36 688 819 22,377 128 2,516 642 10,078 2,860 2,860	110,743 43,628 1,126 14,225 1,126 32 553 971 263 750 956 833 17,585 562 2,391 2,782 9,273 2,593

#### ACCEPTANCE LIABILITIES OF MEMBER BANKS .- Con.

	Dec. 31, 1921.	Mar. 10, 1922.	June 30, 1922.	Dec. 29, 1922.
State bank and trust company members.				
New York	103,398	91,292	92,798	125,797
Buffalo	534	399	303	126
Boston.	9,402	9,313	8,467	10,755
Providence	353	251	153	1,369
Philadelphia	156	204	80	45
Pittsburgh	100	200	250	302
Cleveland	3,649	4,403	3,577	2,347
Detroit	225			-,
Memphis	545	580	180	678
Richmond		3	3	686
Atlanta		252		
Savannah	964	764	917	3,459
New Orleans	6.714	5,834	1,539	7,670
Chicago	16,697	14,034	19,668	15, 420
St. Louis	793	582	414	484
Kansas City, Mo		979	319	211
Dallas	125			
San Francisco	1,499	381	743	2.784
Los Angeles	217	72	153	2,784 720
Portland	569	419	308	756
All other	2,081	1,592	1,517	3,107
Total	148,358	131,554	131,389	176,716

In Great Britain acceptance liabilities of the principal banks showed a downward trend for the first half of 1922, but a considerable recovery for the second half of the year, as may be seen from the following table giving the average acceptance liabilities of the 10 London clearing banks for selected months between June, 1921, and December, 1922:

## ACCEPTANCE LIABILITIES OF THE LONDON CLEARING BANKS.

#### [In thousands of pounds sterling.]

	1921		1922	
	June.	Decem- ber.	June.	Decem- ber.
Liverpool & Martin's.  Barclay's Coutts & Co.	4,330	5,922	4,060	7,188
	7,023	6,237	5,867	5,235
	410	204	141	56
Glynn, Mills, Currie & Co	1,050	1,122	1,958	1,821
Lloyds	9,471	9,754	7,742	14,997
London, Joint City & Midland	17,369	20,304	17,537	25,723
Westminster	13,472	17,460	13,168	12,207
National Provincial & Union	3,385	2,973	4,032	4,834
National	540	501	348	222
Williams Deacon's	1,100	1,313	655	784
Total	<b>58, 1</b> 50	65,790	55,508	73,067

## FEDERAL RESERVE BANK HOLDINGS OF ACCEPTANCES.

Federal reserve bank holdings of bankers' acceptances during 1922 showed a general upward trend, which became more pronounced during the second part of the year, when openmarket money rates began to advance. By far the larger part (between 70 and 80 per cent) of the acceptances held by the reserve banks are based upon foreign trade transactions, but Federal reserve bank holdings of

acceptances in the domestic trade show about the same rate of growth for the year as those of acceptances in the foreign trade. At the close of the year the reserve banks held under purchase or discount a total of \$271,274,000 of bank acceptances, compared with \$145,383,000 at the close of 1921. Of the larger total \$196,121,000, or over 72 per cent, was made up of acceptances in the foreign trade, \$65,410,000, or 24 per cent, of acceptances in the domestic trade, and the remainder, \$9,743,000, of acceptances to create dollar exchange.

At the close of 1922 the reserve banks held \$189,333,000 of bills accepted by member banks, this amount representing 47 per cent of the total of such acceptances outstanding on December 29. This proportion is comparable with about 40 per cent on June 30, 1922, and about 30 per cent at the close of 1921. In addition the reserve banks held at the close of last year \$81,941,000 of bills accepted by nonmember banks, including private banks, agencies of foreign banks and discount corporations, a total to be compared with \$33,281,000 on June 30 of the same year and \$34,831,000 on December 31, 1921. It will be noted that the rate of increase during the year was much greater in reserve bank holdings of bills accepted by nonmember banks than of bills accepted by member banks. There is no evidence to show whether this relative gain of nonmember acceptances in the reserve bank portfolios has been due to a larger growth of nonmember bank acceptances, as compared with member bank acceptances, or to a preference of investors for member bank acceptances, which would leave a larger amount of bills accepted by nonmembers available for purchase by the reserve banks.

#### OPEN-MARKET RATES.

Open-market rates on prime eligible acceptances, which had declined to below 3 per cent about the middle of last year, remained fairly steady during July, August, and the first half of September. At that time advances in call money rates were followed by gradual increases of acceptance rates to 3\frac{3}{6}-3\frac{1}{4} per cent. The

month of October saw a further increase of these rates, the range at the close of the month and for the rest of the year being between 4 and 4½ per cent. London rates on three-months' bank bills, which had declined below 3 per cent early in April, 1922, continued downward in May and June and in July fell below 2 per cent. But in August the rates began to advance and continued to rise during the following month. In October rates declined slightly, and during the last two months ranged between 2½ and 2½ per cent. During the entire year rates were lower in London than in New York, the difference reaching at times nearly 2 per cent.

Holdings of Bankers' Acceptances by Federal Reserve Banks.

[In thousands of dollars.]

Date.	Т	Pur- chased accept- ances.			
	Total.	Total.			
1921. June 30 Dec. 31	48, 586 145, 383	36, 249 99, 969	9,169 34,250	3,168 11,164	40, 130 145, 045
Feb. 28	93,590 105,287 160,413 179,367 242,917 271,274	67,136 77,015 124,142 143,963 189,688 196,121	22,612 22,841 31,736 29,587 46,415 65,410	3,842 5,431 4,535 5,817 6,814 9,743	93,356 105,110 160,332 179,324 242,884 270,944

	Purchased acceptances—Contd.				Discounted accept ances.			
		Accept	ed by—					
Date.	Member banks.	Non- mem- ber banks and bank- ing cor- pora- tions.	Private banks.	Branches and agencies of foreign banks.	Total.	Mem- ber bank accept- ances.	Accept- ances of other banks.	
1921. June 30 Dec. 31	26,787 110,264	6,960 13,656	3,391 12,319	2,992 8,806	8,456 338	6,033 288	2,423 50	
1922. Feb. 28 Mar. 31 June 30 Aug. 31 Sept. 30 Dec. 30	69,915 75,902 127,051 135,947 183,506 189,176	8,470 12,671 16,960 23,246 27,900 38,036	7,371 9,781 8,191 12,482 19,139 27,012	7,600 6,756 8,130 7,649 12,339 16,720	234 177 81 43 33 330	234 177 81 43 33 157	173	

#### AN INDEX OF WHOLESALE TRADE.

In 1920 the Federal reserve banks, realizing the value to the business community of figures measuring the volume of wholesale trade, offered to compile reports for groups of wholesale dealers in their respective districts. The scope and accuracy of these wholesale reports has been steadily improving, so that they now constitute a fairly representative sample of the wholesale business of the United States, both from the standpoint of localities and of com-modities covered by the figures. The trend of wholesale trade since January, 1919, is shown graphically in chart A below, together with a comparison of price changes in the same period.

The sources of the data used in constructing this index of wholesale trade are the monthly reports of individual wholesale dealers to the Federal reserve banks, which show their total sales in dollar amounts. Reports are received from groups of dealers in the following lines: Groceries, meats, dry goods, shoes, hardware, drugs, furniture, men's clothing, women's cloth-

ing, millinery, automobile accessories, stationery, jewelry, diamonds, farm implements, and machine tools. The number and distribution of reporting firms in the latest month varies from 4 firms in one district in the case of machine tools to 362 firms distributed throughout 11 dis-

tricts in the case of groceries.

The following principles were employed in selecting data for inclusion in the index: (1) Each line of trade must be of importance in all sections of the United States; (2) for each line of business included there must be available reports from firms doing business in at least 6 of the 12 Federal reserve districts; (3) for each firm included annual sales must be available for 1919 and monthly sales must be On this basis it was dereceived regularly. cided to include about 700 firms in the index, representing 6 lines of wholesale businessgroceries, meats, dry goods, hardware, shoes, and drugs. These firms were located in 10 Federal reserve districts.

<sup>1</sup> No reports from districts No. 1 (Boston) and No. 8 (St. Louis) are included, but probably many firms reporting to other banks do some business in those districts.

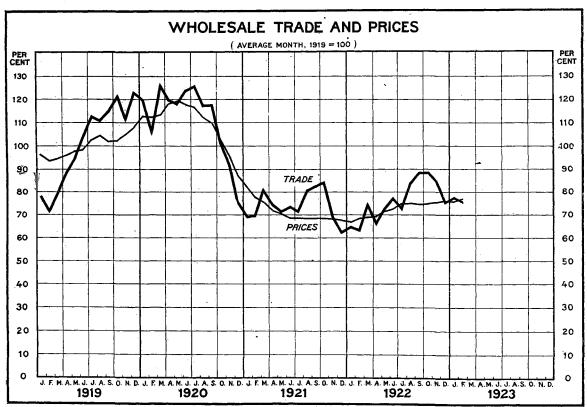
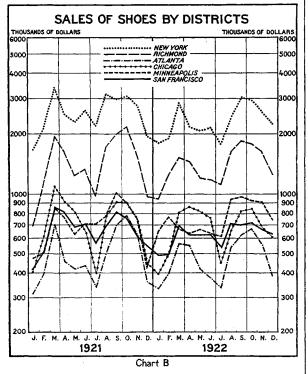


Chart A

Since there are no statistics of total wholesale trade and since the reserve banks have made no effort to secure reports covering a specified percentage of each line of business, there was no basis for determining whether the various groups of firms in different lines in the several districts did a similar proportion of the total trade in their line or district. Consequently the absolute amount of sales in dollars for the group of firms in each line of business in each district had little significance and the figures were, therefore, converted into percentages giving the relationship of the sales for a given month to the sales for the base period. Average sales in the year 1919 were considered 100 for the purpose of calculating the index. The reasons for the selection



of 1919 as the base period were that it was the first year for which figures were reported; that it was a census year for which many other related statistics are available, and that that year was already used as a base in other indexes of production and distribution. It must be emphasized, however, that the base period is not intended to represent the normal value of wholesale trade.

In combining the series of relatives representing monthly changes in the value of trade | fluctuations. However, it was not considered

for each line in each district, the question of the relative importance of each line and of each district presented itself. It was decided first to combine the figures by lines, since there was a remarkable similarity of movement for the same line in different districts, illustrated in the case of shoe sales by chart B. For this purpose the relatives of each district were weighted by the number of persons employed in wholesale trade in that district, according to the United States Census of Occupations for 1919. As these figures were not available by lines, it was necessary to assume that each of the six lines of trade included varied between different districts in the same proportion as all wholesale trade. The district weights applied in calculating index numbers for each line of business are shown in the following table:

District.	Weights.
No. 2—New York No. 3—Philadelphia No. 4—Cleveland No. 5—Richmond No. 6—Atlanta No. 7—Chicago No. 9—Minneapolis No. 10—Kansas City No. 11—Dallas No. 12—San Francisco	5. 2 9. 0 6. 3 6. 4 16. 4 5. 1 6. 5

In combining the relatives for the different lines of business into one wholesale trade index for the entire United States, the goods handled by each type of wholesaler were analyzed and weighted by the total value of production for each class of goods either from the census of 1919, in the case of manufactured goods, or from the estimates of the Department of Agriculture for 1919, in the case of unmanufactured This second system of weights is foodstuffs. shown below:

Lines.				
Groceries Meats Dry goods Shoes Hardware Drugs	24 18 6			

These weights were compared with the relative value of each of these commodities consumed by workingmen's families according to budget studies, and a close check resulted.

A study of the month-to-month changes in sales shows that there are regular seasonal advisable to make any allowance for these seasonal variations in this index, as it is desirable for many purposes to show the importance of these monthly changes in comparing wholesale trade with production, retail trade, and other related data. It is also doubtful whether statistics are yet available for a sufficient number of years to determine accurately the average size of the seasonal movements.

To recapitulate: The original series of data were combined into the final index by the following steps: (1) A base was obtained for each series of data by averaging the monthly wholesale trade in 1919; (2) the original data were divided by their respective bases to obtain a series of relatives for each line of trade in each district; (3) each relative was multiplied by a weight representing the importance of the district; (4) the weighted relatives for each line were totaled and averaged arithmetically; (5) the new series of relatives were each multiplied by a weight determined by the importance of the line represented; and (6) these weighted relatives were averaged by the arithmetic method. The weighted averages obtained by these six steps were the final index numbers. The weighted relatives for the six lines of trade throughout the United States and the index numbers for all trade are shown in the following table:

WHOLESALE TRADE.

[Average monthly sales, 1919=100.]

	Gro- ceries.	Meat.	Dry goods.	Shoes.	Hard- ware.	Drugs.	Index of whole- sale trade.
1919.							
January				52.0	80.5	99.0	78.8
February	71.1		65. 5	60. 2	78.6	95. 1	71.1
March	82.5		64.1	76.9	96. 5	98.3	79.8
April	87.0		78.4	109.4	101.2	95.6	88.4
May	98.8	<b>-</b> -	84.3	89.1	101.5	94.5	94.5
June	105.7			96.1	105.6	93. 7	103.4
July	112.1	ļ <sup>1</sup>	123, 5	106.1	99.8	97. 4	112.4
August	100.3			133, 2	102.5	96.7	110.7
September	108.3			151.5	103.3	110. 1	114.3
October			126.4	145. 2	111.3	122.8	121.4
November				93.1	107.6	99.6	111.0
December	118.8		118.5	86.9	111.7	97. 2	123.0
1920.		!					
January	111.7		150.0	97.0	112.8	115.2	119.9
February			125.3	105. 4	101.2	117.0	105.3
March	118.3		138, 0	136. 4	129.0	133. 1	126. 2
April	121, 2		120.5	106.7	125.5	109.0	119. 4
Мау	128.1		102.5	98.1	125. 2	106.9	118.0
June	135.1		114.2	77, 3	129.3	115.1	123.8
July	130.3		139.9	72.1	117.5	108.5	125, 5
August	107. 4		144.5	96.3	124.7	112.5	117.0
September	117.5		123.3	90.9	124.5	116. 2	117.2
October	106. 4		85. 9	75. 2	112. 4	123. 2	100.6
November			76.9	60.1	100.5	98.1	91.2
December	84.5		58. 4	42.6	84. 2	88.6	75.3

WHOLESALE TRADE-Continued.

				·			
	Gro- ceries.	Meat.	Dry goods.	Shoes.	Hard- ware.	Drugs.	Index of whole- sale trade.
1921.			i				
January	73. 4	65.6	64.1	39.0	71.9	94.0	68.7
February.	72.6	55.9	80.7	52.3	70. 5	89.0	69.5
March		51.7	100.7	88.9	93. 1	105.8	80.6
April	74.5	52.8	88.6	72.0	92.1	98.4	73.9
May	74.1	53.1	79.1	62.8	84.5	93.5	70.9
June	77.6	54.0	80.6	62.3	84.8	94.3	72.8
July		58.6	75.7	47.9	71.5	91.1	71.0
Anguet	72. 0	57.9	105. 2	73.0	76. 5	100. 1	80.4
August	81.1	54.7	115. 2	82.1	80.8	103.5	82.1
September	84.8	61.3	104.9	82.6	86.1	103. 3	83.8
November	76.0	43. 1	74. 2	68.5	78.1	94.0	68.4
December	69.0	45.6	64. 9	45.3	68.8	88.0	62.1
December	09.0	40.0	04.9	40.0	08.8	88.0	02.1
1922.	1						
January	65.6	49.3	81.4	43.5	58.1	94.4	64.2
February		48.9	80. 2	50.0	57.7	94. 2	62.9
March	76.3	51.3	88. 2	70.4	81.9	113.7	74.3
April	66. 2	48.3	74.6	65.1	84.6	93.6	65.8
May	74.1	58.2	79.0	60. 5	92. 7	96.6	72.6
May June	82. 2	62.6	78.9	58.8	91.7	99.6	76.9
July		59. 2	80. 2	45. 2	81.3	93.6	72.1
July	86.4	55. 9	112.7	66.0	89.5	102.9	83.6
August		60.5	116. 1	77.6	95.1	104.6	88.1
September	00.5	67.8		77.2	98.9	111.1	92.4
October	98.7	54.1	108.3	67. 4		102.9	84.0
November	85.0	56.8	94.4	57.3	93. 1 83. 1		75.0
December	65.0	00.8	72.8	07.3	83.1	99.0	75.0
1923.	1		į.				
January	74.9	59.3	105. 4	55. 7	87.8	112.0	78.1
February	74.9	55.8	100.8	56.3	81.5	105. 1	75.8
•				1		1	

The similarity between the course of trade in the same line in different localities has already been noted and was illustrated in

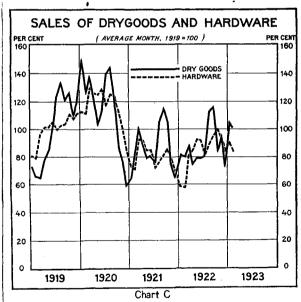


chart B. Comparisons of different lines of trade also show a certain amount of correspondence in movement as well as certain

marked differences. The main points of similarity are the long-time trend in the different lines and the seasonal movements within a year. Each of the reporting groups of wholesalers showed an upward movement of sales in 1919 and the early part of 1920, a down-ward movement in the latter part of 1920 and throughout most of 1921, and a slight upward trend in 1922. Although these general trends correspond for all the lines of trade studied there are marked differences in degree of movement.

All the lines of merchandise studied, except meat, showed a general likeness in seasonal movement of sales; an expansion in the spring, a decline in midsummer, a large expansion in the late summer and early fall, and a prolonged period of low sales during the winter. The differences in time and degree of these four seasonal movements are illustrated in chart C, which compares the sales of dry-goods firms with those of hardware firms. It will be noted that the seasonal changes are much sharper and more irregular in size in case of dry goods than in case of hardware. The fall season of activity is much more important than the spring in the dry-goods business, whereas the two seasons are of about equal importance for hardware dealers. In the case of both hardware and dry goods the winter period of inactivity is more prolonged than that in the summer. Grocery and drug sales are quite similar to hardware sales in the nature of their seasonal variations. Grocery sales, however, are somewhat more level throughout the year than hardware sales, while the peaks and troughs of the drug business are slightly sharper than those of the hardware business. Shoe sales also resemble hardware, grocery, and drug sales in the regularity of their seasonal changes and the equal importance of the spring and fall seasons, but they bear more resemblance to dry-goods sales in the sharpness of the peaks and troughs and the wide difference in volume of sales in differ-

It is interesting, also to compare the course of wholesale trade as indicated by the index with the course of prices, production, and retail trade during the past four years. Wholesale trade is compared with wholesale prices While there is some difference in chart A. in the commodities included in these indexes, as the price index includes a large number of raw materials and producers' goods, yet there is a very close correspondence of trend between the two indexes. This indicates that changes

in prices have a far greater influence in determining the total value of wholesale trade than do changes in the physical volume of business. In fact, if allowance be made in the trade figures for changes in prices, it appears that there has been little variation in the physical volume of wholesale trade since 1918, except for the regular seasonal swings.

A comparison of wholesale trade with production and with retail trade indicates that the sales of wholesale dealers have a much more accentuated seasonal movement than manufacturing output, but have more moderate seasonal fluctuations than sales of retail dealers. For example, sales of department stores, music stores, and cigar stores reach a much sharper peak in December than that attained in any month by wholesale Stocks of department stores, however, show about the same month-to-month changes as wholesale trade. This is due to the fact that retail dealers increase their stocks and their purchases from wholesalers in anticipation of heavy seasonal purchases from consumers. Consequently seasonal changes in wholesale trade usually precede seasonal changes in retail trade and are reflected in the size of retail stocks.

### COTTON FINANCING.

### III. Financing the Marketing of Cotton.<sup>1</sup>

In previous sections of this study the methods of financing the growing of cotton were described. Cotton grown under crop liens or crop mortgages is often marketed through the same channels that credit passed to the growers. As the crop is gathered and passed from the producers into the organized channels of distribution the problem of financing gradually changes from one of agricultural finance to a commercial credit problem that involves the financial institutions of the entire commercial world.

The cotton textile industry has become of great importance to most of the modern

<sup>1</sup> This is the third of a series of articles describing methods of financing the production and distribution of cotton. The preceding articles appeared in the BULLETINS for February and March, 1923, and dealt with the methods of financing the production of cotton. This and the subsequent articles will deal with the methods used in financing the distribution of cotton.

Data upon which this study is based were obtained largely through replies to a number of questionnaires which were sent to merchants, banks, mills, and dealers throughout the South and in the principal textile centers of the East. To all of the contributors acknowledgment is due.

nations and the problem of financing cotton as it passes from the hands of the southern producer to the consumer is international as well as national. It is the purpose of this article, and the one following, to analyze the institutions through which raw cotton passes en route to the manufacturer; to describe the financial arrangement that each of these institutions use in marketing the crop under present conditions; and thus picture the gradual change from a domestic agricultural credit problem of the South to a national as well as an international credit task.

Before attempting to analyze the distributing system, it is desirable to study the cotton markets of the world in order to see the problems that confront those who serve as distributors of this world-wide commodity. Cotton markets can be classified into the domestic and the foreign markets. The Bureau of the Census divided the domestic markets into two divisions, (1) the cotton-growing States, and (2) all other States. The amount of cotton that is consumed in the three markets is shown in the following table:

Consumption of Cotton in the United States and Exports 1910-11 to 1920-21.1

[In bales.]

	United States.	Cotton- growing States.	All other States.	Exports.3
1910-11 1911-12 1912-13 1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22	5, 129, 346 5, 483, 321 5, 577, 408 5, 597, 362 6, 397, 613 6, 786, 505 6, 566, 489 5, 765, 936 6, 419, 734	2, 249, 138 2, 635, 878 2, 861, 743 2, 925, 294 2, 570, 393 3, 527, 528 3, 888, 348 3, 867, 098 3, 199, 027 3, 582, 919 2, 997, 471 3, 729, 777	2, 249, 282 2, 493, 468 2, 621, 578 2, 652, 114 3, 026, 969 2, 870, 085 2, 900, 155 2, 966, 909 2, 866, 909 2, 866, 815 1, 895, 201 2, 810, 043	7, 781, 414 10, 681, 758 8, 800, 966 8, 654, 958 8, 322, 688 5, 895, 672 5, 302, 848 4, 288, 420 5, 592, 386 6, 545, 326 6, 184, 094

Figures from United States Department of Agriculture Year Book,
 Linters are included for the years 1910-11 to 1912-13, inclusive, but are excluded for the years 1913-14 to 1921-22.

The average annual export of cotton for the five years 1910–1914 was 62.8 per cent of the annual production. Since that time the American consumption has increased while, because of the European war, the foreign consumption has decreased, until to-day approximately one-half of the crop is consumed within the United States and the remainder is

exported. The most important cotton consuming sections of the United States are the New England States and the cotton-producing States of the Southeast.

#### A. THE COTTON DISTRIBUTING SYSTEM.

Methods of marketing cotton have gradually changed as the industry has developed and expanded. Before the Civil War cotton was grown principally by large planters and marketed through established agencies known as cotton factors. The factors were located principally at seaports or at interior points on navigable streams where trading connections could be established with commercial and financial interests in other cities or abroad. Cotton that was not pledged to the factors for advances was often consigned to them to be sold on commission. The factors disposed of the cotton directly to northern mills or through an intermediary, the cotton broker. The factor always charged the planter a commission for selling the cotton, and when it was sold through a broker the factor always paid a commission to the broker for his services.

After the war the plantation system was supplanted largely by small farms, while the local supply merchants grew to fill, in part, the place the factor had formerly held as a money lender. Along with the decline of the factorage system and the growing prevalence of small farms, there came an increase in interior buying. Cotton mills sent buyers into the cotton States to buy cotton directly from the farmers and from the supply merchants. The middlemen or cotton merchants also sent their representatives into the field to buy cotton either from the farmers, local buyers, or supply merchants.

The methods by which a grower disposes of his cotton are determined by the financial standing of the grower, the availability of warehouses, the cooperation among the growers, and other factors which vary from year to year in each section. In the Eastern States throughout the old plantation sections it is customary for the small growers and tenants to sell their crop to local buyers or to the landlords. Some of the cotton is grown under crop lien contracts and is sold promptly by the growers to relieve pressing financial burdens.

The various agencies through which raw cotton may be handled as it passes from the pro-

<sup>&</sup>lt;sup>1</sup> Atlas of American Agriculture, sec. A, Cotton.

ducer to the consumer under the present system are as follows:

- 1. Producer supply store merchant merchant—mill.
- Producer—local buyer—mill.
   Producer local buyer merchant merchant—mill.
  - 4. Producer—local buyer—merchant—mill.
  - 5. Producer—factor—merchant—mill.
  - 6. Producer—factor—merchant—exporter.
  - 7. Producer—factor—exporter.
  - 8. Producer—agent—merchant—exporter.
    9. Producer—mill.
- 10. Producer-cooperative marexporter. keting association.

# B. FINANCING IN THE PRIMARY MARKETS.

Financing in the primary markets is the first problem that confronts the banking and financial institutions in the cotton-growing areas. As cotton itself is the basis for credit after it once begins to move, it is necessary at this point to discuss the several documents which are used as security for cotton loans.

Warehouse receipts.—Warehouse receipts are the first documents that arise in the primary markets. Warehouses are owned by many institutions and operated under the laws of the several cotton States. These factors are important in determining the value of the receipts as a basis for a loan. An analysis of the warehouse laws has been made and a digest of the sections affecting the receipts has been published by the Federal Reserve Board (see FED-ERAL RESERVE BULLETIN, September, 1915, p. 260). It is only necessary for our purpose here

to study the types of warehouses and their location.

Warehouses have been built at many local markets, notably in the Eastern States, and at points of concentration as well as at points of exportation. In Arkansas, Oklahoma, and Texas where much of the cotton is customarily marketed as soon as it is ginned and shipped directly to mills or exported, there are few warehouses except at concentration points, where cotton is held by merchants. The same conditions are found in Mississippi, western Tennessee, and Louisiana. In the Eastern States warehouses are usually accessible to the farmers.2

The ownership of warehouses is an important feature in determining the value of the warehouse receipt. In many primary markets, as well as in concentration centers, the warehouses are owned by cotton buyers, merchants, factors, and others engaged in the cotton trade. In the mill centers the mills usually own or control the warehouses in which they store cotton while awaiting consumption. warehouses may be owned by independent warehouse companies and operated under the laws of the State in which they are located; others may be controlled or licensed by the In the State licensed warehouse the receipt is issued according to certain rules and regulations prescribed by the State and has a value that is much more readily known in the banking fraternity than a receipt issued by an independent warehouse whose standing is unknown. The following is a copy of a State bonded warehouse receipt:

## STATE CERTIFICATE OF WEIGHTS AND MEASURES

## Farmers & Merchants Bonded Warehouse

No. 1

, Texas,, 192	
Weighed for of	, Texas
One bale of cotton consigned to	of, Texas
Bonded Gin No , Gin Bale No , Gin Wt. This is to certify that I have weighed the above cotton and the conditions, as set forth, are true and correct.	at the weights and
Ву	
Deputy.	
Owner's risk against fire. Storage, 1c per day.	Certified Public Weigher, Pre. No. 1, Hill Co.

<sup>&</sup>lt;sup>1</sup> Atlas of American Agriculture, sec. A, Cotton.

Realizing the wide diversity of warehousing conditions existing throughout the country, Congress attempted to remedy the situation by passing a warehouse law that would apply to the entire country. This resulted in the United States warehouse act, August, 1916. Since the passage of the act approximately 400 cotton warehouses have become licensed (Jan-

uary 1, 1923), with a storage capacity of 2,100,000 bales. The warehouse act is a regulatory statute. It makes for the issuance of a warehouse receipt or credit instrument possessing the greatest collateral value. The following is a copy of a warehouse receipt issued by a Federal licensed warehouse:

# LICENSE No. 2-578 Exporters & Traders Compress & Warehouse Company's Warehouse TEXAS

Receipt and 109506

EXPIRES JULY 31, 192.

Exporters & Traders Compress & Warehouse Company, Proprietors

Grade and weight determined by a classifier and weigher licensed under the United States Warehouse Act.

INCORPORATED UNDER THE LAWS OF TEXAS. PAID IN CAPITAL \$150,000 AMOUNT BOND \$50,000. LICENSED AND BONDED UNDER THE UNITED STATES WAREHOUSE ACT

# COPY—NOT NEGOTIABLE WAREHOUSE RECEIPT FOR ONE BALE OF COTTON

Received for storage from.

the ONE BALE OF COTTON described herein, stored in the above-named warehouse, for which this receipt is issued subject to the United States warehouse act, the regulations for cotton warehouses thereunder and the terms of this contract. Said cotton is NOT INSURED by the undersigned warehouseman against loss or damage by fire and lightning unless expressly stated otherwise on the face of this receipt. Said cotton is accepted for storage for one year only from the date of this receipt but upon surrender by the holder of this receipt may be extended or a new receipt issued as provided in said regulations. The undersigned warehouseman is not the owner, either solely, jointly, or in common with others of the cotton covered by this receipt, unless expressly stated otherwise here

The undersigned warehouseman claims a lien on said cotton for charges and liabilities as follows:

Weighing, sampling, assorting, checking, delivery to compress and storage first 15 days or fractional part thereof, 25 cents, storage 1 cent per bale per day thereafter.\* Miscellaneous—Grading, etc.:

\*These charges are subject to charge on August 1st, after the date of this receipt, without notice.

Upon the return of this receipt properly endorsed and the payment of all charges and liabilities due the undersigned warehouseman, as stated herein, said ONE BALE OF COTTON will be delivered to the above named depositor or his order.

Exporters & Traders Compress & Warehouse Company, Licensed Warehouseman.

Marks..... Weight

Reweight..... \*Grade.....

Condition....

\*According to the official Cotton Standards of the United States.

Such a lack of uniformity makes the task of loaning on warehouse receipts very difficult. Loans that are made on warehouse receipts representing cotton stored in the warehouse of the owner are more often made on the moral and financial standing of the borrower rather than upon the warehouse receipts. Such conditions confine loaning on stored cotton to the locality in which the cotton dealer is personally known to those making the advances.

The conditions under which warehouse re-ceipts are issued by dealers and buyers in the primary markets are generally understood by the local bankers, and the system works fairly smoothly as long as cotton is stored for only a short period. When the marketing channels become jammed, and local banks as well as local dealers have to call on outside agencies for loans, the local warehouse receipt becomes less important, and some other basis for the loan must be found.

Compress receipts.—Compress receipts are documents used to secure loans on cotton in both primary and central markets. They are used generally for short periods. Cotton in

further compression. In order to secure the bill of lading so that the cotton can be unloaded, compress receipts are substituted at the bank for the bill of lading under which the cotton is moving. After the cotton is compressed, it is reloaded and a bill of lading presented to the bank, against which the compress receipts are released. During the time the cotton is being compressed the compress receipts are accepted by bankers as security for loans. many cases compresses are storage places for large quantities of cotton, serving in the same capacity as warehouses. The conditions which affect the security value of compress receipts are the same as those which govern warehouse receipts.

Bills of lading.—When cotton is shipped from the primary markets a railroad bill of lading becomes the basis for loans. If cotton is sold in the primary market to a foreign consumer, a "through bill of lading" may be used in lieu of a local bill of lading to the port.

The problem of financing the primary market involves the task of financing the grower or planter who desires to warehouse his crop and transit is usually unloaded at the compress for dispose of it when the market is most favorable; the local store that accepts or buys cotton from the growers; the resident buyer; the agent of cotton mills; and the representative buyer of cotton merchants and exporters. Other cotton dealers may operate in the local market, but the method of extending funds to them will not vary from those of financing the local

and representative buyer.

The credit structure used in financing the marketing of cotton brings into use the entire banking system of the South, and when those banks become burdened, loans from banks in the distant cities, such as Boston, New York, Chicago, and Philadelphia, are obtained. large cotton mills and merchants use the banks in these cities, while the local buyers rely largely upon the local banks in the primary markets and concentration centers. The crop can be marketed without violent interruptions only when the banking and credit structure works smoothly.

Financing the grower or planter.—If warehouses are available and the planter does not want to sell his cotton immediately, he stores it. When he is not in a position to finance himself until the cotton is sold, he goes to his local bank and asks for a loan, presenting ware-house receipts as collateral. Loans of this type are usually made upon a straight promissory note given by the planter to the bank and secured by the former's warehouse receipts. Although bankers' acceptances offer an attractive field for country banks in financing stored cotton, they have been used very little.

Loans by the banks on cotton stored by the growers are usually made to mature within 60 or 90 days, although in some instances they run 120 days. In many cases demand loans are made by banks to growers, the bank reserving the right to call the loan if market conditions are such that the bank's margin is reduced. The length of the loan is determined in a large measure by the market conditions and the financial standing of the grower. In order to keep the loans liquid the banks generally extend from 75 to 80 per cent of the market value of the cotton. This, however, varies, as loans are extended in most cases on a flat bale basis without regard to the staple, grade, or condition of the cotton. That is to say, if a planter presents a cotton receipt at his local bank and asks for a loan, the bank will extend usually from 75 to 80 per cent of the market value of the cotton offered, the amount being determined by the quotation for middling cotton in that market on the same

be above or below middling grade, the bank's margin changes accordingly.

Financing the local buyer.—A local buyer may be the local ginner, warehouseman, resident buyer, or the agent of a cotton merchant or mill. The problem of financing is similar for all.

At the opening of the cotton season, generally from August 15 to September 1 in the southernmost sections and from September 1 to 15 in the northernmost areas, the local buyer arranges with his local bank for a line of credit which he expects to use in making cotton purchases. If the buyer has some capital of his own, he uses that to make his initial purchases, and after it has been exhausted he places the receipts, representing the cotton which he has purchased, with the bank and thereby secures a loan to make further purchases. Arrangements made by other buyers who depend upon the bank to finance the original cotton purchases vary with banks in different sections of the Cotton Belt. Several banks in leading buying centers of Texas and Arkansas state that original cotton purchases are made through a demand acceptance agreement. Under this agreement the buyer enters the market and buys cotton from growers at the price agreed upon by the buyer and seller. The former then signs the warehouse or compress receipt and at the same time states on the receipt or on a separate form the amount that is owed the seller. The seller then takes the signed receipt to the buyer's bank which pays the amount stated on the receipt, and at the same time takes the receipt which is held as collateral against the loan. This process is repeated throughout the day, and at the end of the day the buyer may call at the bank and present his demand note for the entire amount that the bank advanced or the bank may carry the advances on a strictly open account or acceptance basis, always holding the warehouse or com-press receipts as collateral. In order to keep an adequate margin against loans of this type the bank usually requires the buyer to pledge stocks and bonds or other collateral that is sufficient to secure about 20 or 25 per cent of the loan. The bank holds the receipts and when the buyer has arranged for a sale he is granted permission to move the cotton to the railway station and receive a bill of lading. The buyer, who then becomes the seller, presents the bill of lading at the bank and at the same time draws a draft on the buyer. day. When the cotton is graded and found to The bank deducts the amount it has advanced

on the cotton, the interest on the loan and the exchange charge, and credits the account of the local buyer with the remainder. Other methods of allowing the local buyer to ship cotton are reported by several banks. A trust receipt is given to the bank against which the warehouse or compress receipts are released to the buyer. The cotton is then moved from the warehouse to the railroad. The shipper or seller receives a bill of lading, presents it at the bank, and liquidates the trust receipt. A draft is drawn in the same manner as before. The economic and legal aspects of the trust receipt have been analyzed and are given in the FEDERAL RESERVE BULLETIN, January, 1922,

Another form of acceptance agreement used in some of the western markets is one which the seller of cotton draws on the buyer and which is accepted by him. The seller then presents it at the local bank specified on the acceptance and receives payment for the cotton. A copy of this document is shown

as follows:

# BILL OF EXCHANGE. Buyer's No. — ——, Texas———192— Pay to the order of ---- National Bank, —, Texas (\$——) —— DOLLARS, account of —— bales Cotton at bales cotton at——, attached hereto, this day sold to ----, which cotton is held for account of ---- National Bank, --Texas, and subject to their order. Value received and charge same to account of Seller.

The bill of exchange may be used by either the grower or the buyer who has accumulated a number of bales and made a sale to a cotton merchant or mill representative. This, however, is used generally in the local markets by the banks that have made loans on the cotton under consideration.

Other banks in the Western States report that local buyers are financed either by demand notes or notes of definite maturity. As cotton is moving rapidly to market the demand note

only for the actual period that he used the funds. If cotton is stored and warehouse receipts are used to secure a loan to finance "orderly" marketing, a note of definite maturity is usually given. In the Eastern States loans are made largely on demand notes, while in Texas and Arkansas loans of definite maturity are much used. The following is a copy of the cotton contract or agreement which is sometimes used by buyers and banks in some of the eastern markets of the cotton States.

#### COTTON CONTRACT.

payment of checks drawn from time to time by the buyer on the bank, the buyer hereby contracts and agrees with

the bank:

1. That all sums so advanced, or any part thereof, will be repaid by the buyer on demand, together with interest on the same at the rate of 8 per cent per annum from the date of such advances, respectively.

2. That no check shall be drawn by the buyer on the bank except in payment for spot cotton to be actually and at the time delivered, and the expenses of handling the same, and that each check shall show upon the face thereof the number of bales of cotton for the payment of which said check is issued.

3. That all cotton purchased by the buyer and paid for by checks on the bank will be held by the buyer in trust for the bank until bills of lading, compress or ware-house receipts, as hereinafter provided, shall be delivered to the bank, with the right in the bank at any time to demand and receive said cotton so purchased or any

part thereof.

4. That the buyer will turn over and deliver to the bank not later than the day upon which the checks, bank not later than the day upon which the checks, respectively, are presented for payment, railway bills of lading, warehouse or compress receipts, for all cotton purchased and paid for by checks of the buyer on the bank, which bills of lading, warehouse or compress receipts, are to be held by the bank as collateral security for advances made, and for any and all other liabilities of the buyer to the bank due or to become due, as well as any indebtedness theretofore or thereafter contracted or existing, whether incurred directly or indirectly, and including notes, bills of exchange, or other evidences of including notes, bills of exchange, or other evidences of indebtedness made, indorsed, or accepted by the buyer, and owned or held by the bank.

5. In case of a decline in the market price of any cotton held by the bank as security for any indebtedness of the buyer, so that the market value of the cotton pledged shall be less than \$10 per bale more than the amount due the bank, the buyer shall forthwith make a sufficient payment on account or pledge additional cotton of sufficient amount, so that the aggregate market value of the cotton so pledged shall be at least \$10 per bale more than the amount due the bank at all times.

6. In case of failure of the buyer to maintain the margin between the market value of the cotton pledged to the bank and the amount of the indebtedness of the buyer is moving rapidly to market the demand note to the bank, as in the last paragraph provided, all advances is generally used, the borrower paying interest made by the bank to the buyer shall immediately become due and payable, anything herein or in any note, bill of exchange, or other obligation contained to the contrary notwithstanding, and the bank is hereby given full right, power, and authority without further demand or any notice of any kind to sell or otherwise dispose of the whole or any part of the cotton pledged by the buyer to the bank, or any cotton held in lieu thereof or in additional to the cotton pledged by the buyer to the bank, or any cotton held in lieu thereof or in additional to the cotton beauty of the cotton. tion thereto at any cotton warehouse, cotton [mill, factor's or broker's office, at public or private sale, at the option of the bank, at any time or times thereafter, without advertisement or other notice, and with the right to the bank to become the purchaser thereof at such sale or sales, free and discharged from any equity of redemption, or of any other claim of the buyer to said cotton or the proceeds thereof. All interest on the amount advanced and the costs, charges, and expenses of holding, storing, protecting, and insuring said cotton, and all expenses of collection, sale, and delivery, including attorney's fees, if incurred, shall be deducted from the proceeds of the sale of said cotton, and the residue applied on the liability or indebtedness of the buyer to the bank. The overplus, if any, shall be paid over to the buyer, except as herein provided. If after such sale, and crediting the proceeds thereof upon the liability of the buyer to the bank, there should be any deficiency, the buyer hereby promises, centracts, and agrees to pay the same to the bank forth-

7. The buyer further authorizes the bank at its option, at any time, to appropriate and apply to the payment of any liability of the buyer to the bank, whether now existing or hereafter contracted, any and all moneys now or hereafter in the possession of the bank, on deposit or otherwise, to the credit of or belonging to the buyer, whether the said liabilities are by their terms then due

8. All receipts for bills of lading, and any and all other collaterals of the buyer, shall be returned by the bank to the buyer upon payment of all indebtedness of the buyer to the bank, unless previously sold or held under the provisions hereof.

9. All the provisions of this contract shall inure to the

benefit of the holders or assigns thereof.

In witness whereof the buyer has hereunto set his hand ad seal this —— day of ——, 19—. and seal this ----, 19---.

In addition to the above agreement entered into by the local buyer and his bank other methods of handling cotton accounts are used by some banks. The method used by a bank in an important primary market in Arkansas is shown in the following comment:

We loan money to either the grower, ginner, merchant, or cotton buyer, secured by compress receipts for cotton or shippers' b/l properly indorsed showing that the cotton is in transit to a press. Some of the loans are secured by notes, some by time acceptances, some by demand acceptances, and occasionally for a very few days possibly an overdraft. We require at least a margin of 15 per cent; the margin, however, would largely depend on whether the borrower has outside property aside from the cotton that secures the loan. It must be insured with a loss clause attached to the policy, making the policy payable to us.

#### Another banker comments as follows:

The cotton-buying firms give us indorsed paper each fall at the beginning of the season to make a substantial margin against their total purchases at their highest point. They buy largely from small farmers on the street, one to

a few bales at a time. They occasionally go out into the country and buy lots of twenty to a hundred bales. They render us a statement several times each week, showing the number of bales on hand on the street or have in their yard, the number of bales in the compress at which they give us the compress receipts. The greater part of their cotton is bought and sold the same day, the only cotton kept and stored being the extremely high grades, which they sometimes accumulate to the extent of 40 or 50 bales in order to sell in a lump at a good profit. The margin that we have is always from 20 per cent to 50 per cent of the buyer's account.

Formerly much cotton was paid for in actual cash in the form of coin and currency given by the buyer to the seller. But with country banks in nearly all of the principal primary markets, checks, drafts, and bank credit in various forms are used almost entirely. With the use of checks the grower builds up his bank balance in the cotton moving season and

withdraws it in the growing period.

In most sections of the Cotton Belt some of the cotton is grown under crop liens and chattel mortgages. Loans secured in this manner are made to mature in the early fall, just as cotton begins to move. As the banks and others are desirous of having their loans liquidated at that period, it is necessary for the producers to sell their crop rapidly in order to meet their maturing obligations. For this reason, banks in the primary markets have not advanced much money on stored cotton. Their advances have been confined largely to cotton that is moving from local markets to interior concentration points or awaiting shipment from local markets. In some cases, however, growers have been able to store their cotton for regular marketing and banks have loaned to them. Also local dealers who have concentrated small lots of cotton have been financed by the local banks on the basis of their warehouse or compress receipts. In cases where banks have made advances on cotton stored in primary markets, the length of such loans average from 60 to 90 days. If it is stored in either State or Federal licensed warehouses or unlicensed warehouses of good standing, the banks loan from 75 to 90 per cent of the market value of the cotton, whereas only 50 to 75 per cent is usually advanced on cotton stored in other places.

The representative buyer and agent of cotton mills who buy from growers and dealers in the primary markets are financed largely through their head office or banks in distant cities. The local banks serve only as a disbursing medium for them. As the problem of extending credit to them is largely one of financing their head office, it is necessary to discuss their financial arrangement in connection with financing the merchant in the concentration center.

#### C. FINANCING IN THE CENTRAL COTTON MARKETS.

Funds for financing the marketing of cotton are raised largely in the central or concentration markets, cotton-mill centers, and export cities. The local markets finance the initial movement of cotton, but as banks in the primary markets are burdened with loans to producers, the available capital is soon exhausted, and the banks have to call upon their correspondents for additional funds. Merchants who are rapidly buying cotton from the buyers in the smaller points are constantly borrowing from banks in the centers where they have their head or a branch office; factors are establishing lines in order to meet the demands made on them by the planters; and mills are borrowing from their banks in cities where they maintain offices or in near-by capital markets. The rapidity with which cotton comes to market makes the demand for excessive loans heaviest from October to January. The movement of cotton to market and the months in which the movement is most active are shown in the table on

The importance of cotton loans by spot and future cotton concerns and the relative importance of cities that extend loans on cotton are given in the following table, prepared by the Federal Trade Commission, for the three-year

period ending June 30, 1922:

YEARLY AVERAGE MAXIMUM BORROWINGS OF SPOT AND FUTURE COTTON CONCERNS, BY CITIES, 1919-20 TO 1921-22.

	Thre	e-year period end	ling June S	30, 1922.
City.	Rank.	Average maximum borrowings.	Per cent of total bor- rowed.	Number of concerns borrow- ing.
New York New Orleans Boston Memphis Savannah St. Louis Norfolk Dallas Philadelphia Galveston	2 3 4 5 6 7 8	\$46, 392, 336, 86 13, 063, 172, 55 8, 357, 311, 44 5, 976, 637, 16 5, 852, 887, 69 4, 939, 153, 79 3, 292, 163, 73 2, 290, 866, 67 2, 153, 083, 33	38. 09 10. 72 6. 86 4. 91 4. 81 4. 05 3. 22 2. 70 2. 37 1. 77	83 42 17 40 25 13 14 23 3 9
Total, 10 cities		96, 842, 477, 49 24, 967, 218, 18	79. 50 20. 50	269 171
Total		121,809,695.67	100.00	440

<sup>&</sup>lt;sup>1</sup> Includes \$5,779,147.16 from Japan and England.

Financing the factor.—Factors are found principally in Memphis, Augusta, New Orleans, Savannah, Charleston, Houston, and Galveston, and their methods of financing are confined, with few exceptions, to those cities. As the cotton is picked and ginned the planter consigns it to a factor. Instead of shipping the baled cotton to the factor, the planter may store it in a local warehouse or compress and send the receipt, with samples from the bales, to the factor. Factors reporting from several of the principal cities estimate that only a small percentage of the cotton that is handled by them is received under contract for advances which were made to the planters in the growing season. Only 25 per cent of the factors reporting indicate that more than 75 per cent is handled under contract for spring advances, while the majority of the reports show that the percentage averages between 5 and 35 per cent, the remainder being on commission. If the cotton is shipped to the factor, he has it warehoused, insured, sampled, and eventually sold. But if only samples are shipped, he handles the cotton on the basis of the samples which he receives.

As soon as the factor gets possession of the warehouse receipts he often presents them to the bank, pledging them to secure such advances as were made to him. When the cotton is sold, the factor is reimbursed by draft on the purchaser, which is deposited with the bank that holds the warehouse receipt and the loan is liquidated. The net proceeds of the sale are credited against the advance which was made to the planter in the growing season or at the time when the cotton was consigned to the factor.

A contract between the planter and factor for supplies and money advanced as applying in the upland long-staple cotton areas of Mississippi and Arkansas has been given in a previous article of this study. (See FEDERAL RESERVE BULLETIN, February, 1923.)

The amount that factors will advance on cotton consigned varies with the different factors and the market conditions at the time of the consignment. The advancement is either a fixed amount against each bale or a certain percentage of the market price at the time the cotton is delivered. If advances are on a percentage basis, it is usually about 50 to 75 per cent of the value of the cotton, whereas if it takes the form of a fixed amount per bale, it varies from \$50 to \$75 a bale (1922 cotton prices).

In order to meet the drafts that are drawn by the planters the factors usually have to

borrow very heavily from the banks. The banks advance funds to factors either upon an unsecured promissory note or on one secured by warehouse receipts representing the cotton consigned to them. The degree to which these methods are used varies with the different fac-In many cases the factors are of strong financial standing and can borrow on their straight promissory note. Others, although they do not own the cotton outright, borrow from their bankers and pledge the cotton as security. The banks, when they know the factors, "as a rule do not hesitate to make loans, taking the stored cotton as security.' Advances to factors by banks on cotton stored vary from 60 to 75 per cent of the value of the cotton. Banks, in many instances, attempt to advance only the amount which the factor has advanced to the farmer. When loans are greater than local banks can support, banks in other cities are called upon to aid in the financing, "and in this case arrangements are usually made with the local banks to hold the warehouse receipts in trust to secure the lender.' One factor reports that loans are obtained in Chicago and New York.

Financing the cotton merchant.—The process of assembling and distributing the greater part of the American cotton crop falls upon the cotton merchant or broker. Banks in the concentration cities and other financial centers are concerned primarily in extending loans to him. The merchant or broker acts at times in the capacity of buyer, at others as a broker, and when he concentrates quantities of cotton awaiting demands from the mills he is termed a cotton merchant. The merchant is involved in a cotton transaction at three different stages, (1) buying, (2) assembling and storing, and (3) selling. Likewise the problem of financing may be analyzed under these three heads.

Buying.—Several methods of buying cotton are used by the merchants. Many of the large cotton buying firms have head offices in one of the principal southern cities and a number of branch offices in other cities throughout the Cotton Belt. From the branch offices buyers are sent into the near-by local markets to buy cotton from growers and local dealers, or supply merchants. The extent to which each of the sources is used to obtain cotton varies with the several cotton firms that are organized on an extensive basis. One large firm operating entirely in Tennessee, Arkansas, and Oklahoma says that 65 per cent of its cotton purchases are from local supply stores and 35 | purchases several merchants operating in the

other firm that maintains offices throughout the cotton areas in the larger cities estimates that 90 per cent of its purchases are from dealers in the local markets, from 3 to 5 per cent from growers, and the remainder from cooperative marketing associations. Another large organization estimates that approximately 50, 40, and 10 per cent of its purchases are from growers, dealers, and cooperative associations, respectively. Other merchants who operate one or more offices in several of the primary markets usually deal directly with the growers in these markets and resell to the firms organized in the manner described. An illustration of the method of buying is given by one of the larger firms in the following:

We buy practically no cotton from growers, but buy nearly all from local dealers in the interior markets (principally at compress points); we estimate that about 90 per cent of our cotton is bought in this way, the balance is bought from dealers at ports such as Galveston, Houston, and New Orleans; we also occasionally buy from cooperative marketing associations. tive marketing associations.

The merchants use various methods in paying for the cotton which they have purchased in the primary markets. Growers selling at one of the buying offices of the merchant are usually paid by check on a bank in the city in which the office is located. The usual practice in paying for other cotton purchases is shown in the following comments:

All sellers are paid by draft (with bills of lading attached) on buyer's head office or other buying office, except on purchases made in city of head office or buying office, in which case seller is paid by check on local bank. We have a few buyers working for us who buy at interior points and arrange a line of credit with the local bank to pay for their purchases and in turn reimburse the local banks with drafts and bills of lading attached on the head office. The percentage of cotton bought in this manner is very small, not over 5 per cent.

One large interior firm that sends representatives from each buying office into the sur-rounding local markets uses the following method in financing purchases:

If we buy direct from the grower we give him a check on a local bank with which we have made arrangements prior to the opening of the season. Every night for cotton bought by ourselves the local bank draws on our head conother bodget by otherves the local bank draws on our head concentrating office for the territory under consideration. After assembling all these drafts from different points in their territory, the buying offices draw on our head office for round amounts. They keep their own books, so practically each office is run on its own footing, except from the financing and selling end. The drafts are then paid by the banks serving the head office.

In contrast to this method of handling cotton per cent are from the growers directly. An- | western sections of the Cotton Belt report the use of acceptances in their cotton financing. This has not applied generally, but the following example as given by a merchant in Fort Worth is one instance in which the method has been employed and is similar to the plan used by other merchants:

In handling cotton from local dealers we usually pay by acceptances on interior or large banks in Texas, with which we have an arrangement to handle our acceptances. We purchase cotton from local dealers and make payments by draft on the bank we want to handle the transaction. This draft is accepted by us and the bank handles it according to the terms of the agreement, holding the bill of lading or warehouse receipts as security.

Storing and assembling.—As the cotton season progresses, the concentrating merchants accumulate stocks of cotton. While the purchases are being assembled in various centers throughout the cotton belt, the banks which are financing the purchases for the merchants are secured by bills of lading as long as the cotton is in transit and by warehouse or compress receipts when it is in storage. The merchants' demands for funds are heaviest during this period. Two sources of borrowing are used, (1) the open market and (2) banks. Of these two sources the banks in the concentrating centers support the greater burden. Borrowing in the open market is not general with all cotton merchants as it is used mainly by the large dealers who have been in the cotton business for long periods and whose standing is known throughout the entire cotton trade.

One firm reporting from the interior says that its borrowing is done both in the open market and from its own banks in the city of its head office and in New York—about 50 per cent from each source. In financing in this manner the firm states that it usually puts out its paper in the open market first, and leaves 'its bank lines open.' Borrowing in the open market is done in denominations of from \$2,500 to \$25,000 and usually for a period of six months, whereas the denominations of notes used with banks are \$100,000 and for a shorter period. The latter is usually on unsecured promissory notes.

Another merchant who has buying offices in several of the larger cities of the cotton belt says that all of his borrowed funds, used to buy cotton, are obtained by borrowing from banks in the cities where offices are maintained and in New York. The borrowing is done as follows:

As the cotton season opens and cotton begins to move, the buying offices borrow from the local banks, keeping the banks supplied with bills of lading or warehouse or compress receipts as collateral. As the cotton movement gets too heavy for local banks to finance entirely, borrow-

ing is done in New York, both on line of credit and on bank acceptances. The bank acceptances are usually made for a period of 90 days and are secured by bills of lading or warehouse receipts as collateral. The acceptances are sold to New York banks, sometimes to the accepting bank. These acceptances run in various amounts, usually from \$10,000 to \$100,000 each. The money borrowed by us on our line of credit is also at all times secured by bills of lading and warehouse receipts as collateral, either put up with the New York banks in New York or being held by local banks for the account of the New York banks. In addition to secured loans, we usually borrow from \$1,000,000 to \$1,500,000 on unsecured paper.

Methods of borrowing used by merchants who handle cotton in smaller quantities are not at variance with those to whom we have referred. except that their borrowings are largely local, although in some instances the merchants report banking connections in New York. Loans obtained from New York banks are secured by either depositing bills of lading, warehouse or compress receipts with the New York bank, or placing them to the credit of the New York bank with its southern correspondent. maturity of the loans is usually determined by the activity and rapidity with which the crop is moved, whereas the denominations of notes issued depend upon the financial standing of the merchant and the size of the bank that is financing him. Reports from merchants from 40 leading cotton centers show that the loans are usually made to mature from 15 days to 6 months, the average maturity being near 90 days. The denominations of notes issued are usually in round numbers and vary from \$1,000 to \$100,000, but one merchant says that notes are made for \$250,000. The average notes given to banks are between \$10,000 and \$50,000.

The usual period for merchants to begin borrowing is between August 15 and September 15. The earlier date is used by merchants in the southernmost areas of the belt, whereas the later date is used by merchants in the northern sections of the Atlantic States. In general, the seasonal bank borrowing follows the cotton picking and ginning season. Merchants often have considerable capital and do not rely upon the bank until after it has been used. These two factors cause discrepancies between the replies of merchants and banks in different areas, but in general it can be said that the borrowing to move the cotton crop begins about September 1 and continues until the peak is reached between December 1 and 15. After December 15 the supply of cotton entering the market decreases and, with the regular takings by the cotton mills, the loans are gradually liquidated throughout the spring and early

summer months. In normal years most merchants "clean up" their accounts with banks

before August 1.

Sales by merchants.—Merchants make sales to cotton mills in the United States and to foreign buyers. The percentage of cotton handled by the different merchants that is sold to domestic consumers and for foreign conumption varies with the merchants. Some merchants in the eastern cotton States report that they deal largely with southern mills, while those from the middle and western areas estimate that their sales are mainly to northern mills and for export.

When a sale of cotton has been arranged and against which the bank holds the warehouse receipts, the merchant gives a trust receipt to the bank which, in turn, releases the warehouse receipts. The latter are presented to the warehouse and the cotton is delivered to the transportation company. An inland or ocean bill of lading, according to the place of destination, is obtained. "These ladings are then returned to the bank attached to a sight draft drawn upon the consignee, which is usually discounted by the bank, and the credit closed." Practically all of the sales made to American mills are made on a cash basis, the buyers paying either by sight draft or 3 days' sight draft with bill of lading attached.

Several merchants report sales to mills on acceptances, but the percentage of sales thus made by those reporting is very small. One merchant, reporting 65 per cent of sales to northern mills, 25 per cent to southern mills, 10 per cent to foreign buyers, estimates that 70 per cent of total sales to American mills are for cash, while 30 per cent are on time. The time sales are carried on acceptance credits and against acceptance by the mill the bills

of lading are surrendered.

Financing cotton mill purchases.—The methods used by cotton mills in purchasing raw cotton vary with the mills in different manufacturing regions of the country. Mills in the South are often located in the primary cotton markets or very near large supplies of the commodity. Those in other sections of the country are far distant from the source of supply, and the different methods of buying are determined in large measure by this.

Mills in the cotton-growing States.—In the South the manufacturers buy cotton from three sources: (1) Growers directly, (2) local dealers, and (3) cotton merchants. Mills which are located in the large primary markets buy con-

siderable quantities of their cotton from the growers in the local market. The importance of local buying is shown by the fact that mills reporting from several cities in South Carolina. Spartanburg, Anderson, and Pacolet, estimate that 80, 60, and 30 per cent, respectively, of their cotton is bought directly from growers who sell in those markets and through agents who are sent into the markets of the surrounding territory. Some mills in North Carolina, Georgia, Alabama, and Mississippi report that they buy large quantities of cotton directly from the producers within their territories. The remaining cotton is bought from local dealers in the smaller towns and from merchants in the concentration centers.

Growers are usually paid by checks on the local banks in the towns in which their cotton is sold. If cotton is carried by the producer to the mill, he is given a check on the mill's bank, whereas when the mill sends its representatives into the local markets they usually pay the growers by checks on the local banks

in such markets.

The arrangement made with the banks is similar to that which is made by agents of cotton merchants. Dealers and merchants generally draw on the mills and attach bill of lading as soon as the cotton is shipped. The drafts are discounted by the local bank and forwarded to the mills for collection. Several mills state that when cotton is bought in large lots they often give the merchants drafts on New York or Boston banks. This, however, applies largely to some of the larger textile corporations that maintain selling offices in these cities.

In order to finance their cotton purchases, it is necessary for many mills to use borrowed funds. Some mills are able to finance all their cotton purchases, others rely largely on their banks, while others borrow in the open market through note brokers. Loans are usually made to the mills on their unsecured paper, based upon their financial statement or indorsement by members of the corporation. In but few instances is cotton pledged by the mills as security. Payments are usually made in cash for cotton, the funds being obtained in the ways mentioned. In view of the fact that acceptances are recognized as being commercial instruments of the highest type, the use that has been made of them in financing purchases of raw cotton by mills is very limited, for in only two reports were trade acceptances rewith reports from cotton merchants who noted the use of trade acceptances in only a few instances.

Mills in other States.—The northern mills buy their cotton mainly through cotton mer-chants and brokers. These have offices or agents in the principal cotton manufacturing centers of the North and East. They obtain cotton through buyers and merchants in concentration centers in the cotton-growing States. Cotton is sold to the mills either on "spot" or "under contract calling for future delivery of the total quantity at one specified date or by monthly installments." As many mills operate plants in both the North and the South, the method followed in buying cotton for the southern plants is similar to that used for the northern mill. The cotton is contracted for through a northern broker and is delivered to the southern mill by the dealer in the South with whom the broker contracts. The seller on delivering the cotton to the southern mill draws on the northern office by sight draft.

Generally the heaviest buying season by mills is from September to January. Several of the large cotton mill corporations from New England state that the proportion of their annual consumption purchased during the cropmoving season averages about 50 per cent of the total received. The amount of cotton that is bought or contracted for by the spinners during this period is determined largely by the activity of the cotton market, the price at which raw cotton is selling, and the activity of the cotton goods' market. Yet the monthly consumption of cotton by all mills in the United States is very regular. The movement and consumption of raw cotton by months are shown in the following table:

MOVEMENT AND CONSUMPTION OF COTTON.

Month.	Cotton move- ment.3	Cotton consump- tion.
August September October November December January February March April May June June July	22. 2 17. 4 8. 8 5. 6 4. 9	Per cent.  8.3 8.0 8.3 7.9 8.1 8.7 8.1 8.9 8.3 8.7 8.5 8.2
Total	100.0	100.0

<sup>\*</sup> Macklin, Efficient Marketing for Agriculture, p. 149.

As the purchases of raw material by cotton mills are normally in accordance with the demands which mills have from the consumers of cotton goods, the problem of financing cotton purchases is not one of great importance to the mills. Merchants, on delivering the cotton, are paid generally by sight drafts on the mills. If, however, cotton is bought for future de-livery, the "cotton mill-sale note," or mill acceptance, is often used to finance the merchant until the mill is ready to consume the cotton or, in case of a deferred shipment, until the cotton can be delivered to the mill. The sale note provides a means for the mill to receive indirect bank credit through the cotton merchant. The merchant delivers cotton to the mill, which is stored in a warehouse of the mill, and the former is given a seller's warehouse receipt by the treasurer of the mill. This document, which is evidence of an acceptance of cotton by the mill, is presented by the merchant to his bank to obtain credit with which payment is made to the original seller of the cotton to the New England merchant. As the sale note is used more to finance sales for deferred shipment, the bill of lading is usually delivered to the treasurer of the mill against which the combination bill of lading and warehouse receipt is issued. This, in turn, is presented to the bank in the manner described. The following is a copy of the receipt that is commonly used in financing cotton through the use of the mill sale note:4

BILL OF LADING AND WAREHOUSE RECEIPT.

No. 5689.

FALL RIVER, MASS., March 10, 1921.

Received of Jackson, Johnson & Co., bill of lading for one hundred (100) bales cotton marked "KCB," issued by B. & M. R. R. No. 676, dated at Boston, March 2, 1921, consigned to Jaztax Cotton Mills, Ipsilanti, Vermont, which cotton is to be stored on arrival and same held for account of and subject only to the order of Jackson, Johnson & Company.

Except that any actual payment of freight charges paid by Jaztax Cotton Mills shall be a lien on said cotton for the amount paid. This cotton is covered while in store under our open policy of insurance for account of whom it may concern, storage and labor free.

JAZTAX COTTON MILLS, By X. Y. SMITH, Treasurer.

Although mills report that they seldom borrow primarily for the purpose of making payments against cotton purchased, they indicate that borrowing is done throughout the year in connection with the general operation of the industry. Credit is obtained principally

<sup>&</sup>lt;sup>4</sup> Ryan, Franklin W., The Cotton Mill-Sale Note. Published by the Robert Morris Associates.

from banks and through the sale of commercial paper in the open market. Loans by banks are made principally on unsecured paper with or without the personal indorsement of the officers of the mills. The borrowings are often large in the latter months of the year, although they may be large in the early months when the mills are carrying large amounts of accounts receivable for their customers. Open-market borrowing is usually done in the same manner as borrowing from banks or an outside agency.

# THE BANK OF LATVIA.1

Up to November 1, 1922, the Republic of Latvia had no official central bank of issue, the functions of such a bank being performed by the State Savings and Credit Bank. On November 1, 1922, this institution was liquidated and all its functions were taken over by the Bank of Latvia, a brief summary of whose statutes is presented below. Latvia is one of the Baltic States which became separated from Russia after the 1917 revolution. It has an area of about 25,000 square miles and a population of about 1,800,000.

General regulations.—The Bank of Latvia is a state enterprise and the State is responsible for all the operations of the bank. Its purposes are to regulate the circulation of money, to promote industry, trade, and agriculture, to facilitate cash payments at home and abroad, and to act as fiscal agent for the Government. All claims of the bank against any of its debtors have precedence over all other claims, state as well as private, with the exception only of first mortgage liens.

Capital.—The capital of the bank is to be 10,000,000 lats (1 gold lat is equal to 1 gold franc). Twenty-five per cent of the net profits of the bank are to be added annually to the capital of the bank until the latter amounts to 25,000,000 lats. Further, 10 per cent of the net profits are to be used for the creation of a reserve. Of the rest of the net profits, 3 per cent are to be paid to the administration, 1½ per cent to the council, and 5½ per cent to the staff of the bank. In no case, however, shall this bonus exceed the annual salaries of the respective recipients. The remainder goes to the Government

Operations of the bank.—The Bank of Latvia has the exclusive right to issue notes, which are

legal tender and redeemable in gold upon demand. The notes outstanding are to be covered as follows:

covered as iollows:

(1) Fifty per cent by gold or stable foreign currencies as long as the total amount of notes outstanding does not exceed 100,000,000 lats, the remainder being covered by prime short-term bills of exchange.

(2) When the amount of notes outstanding exceeds 100,000,000 lats, but does not exceed 150,000,000 lats, the amount in excess of 100,000,000 lats is to be covered to the extent of 75 per cent by gold or stable foreign currencies, the rest by short-term bills of exchange.

(3) Issues in excess of 150,000,000 lats must be fully covered by gold or foreign currencies.

The bank is authorized to engage in the following the following statement of the contract of th

The bank is authorized to engage in the following operations:

(1) To discount bills and short-term obli-

gations;
(2) To open credits and grant short-term

loans;
(3) To receive demand and time deposits;

(4) To buy and sell bills, drafts, and foreign exchange;

(5) To issue letters of credit; and

(6) To carry out all kinds of banking transactions for the Government.

Bills to be eligible for discount must have at least two reliable signatures, arise out of a commercial transaction, and have a maturity not longer than three months. Bills of a longer maturity may be discounted only with special consent of the directors of the bank.

Short-term loans or advances may be made against sound collateral, including among others the following types: Certificates of mortgages on real estate, agricultural and industrial implements, and staple, nonperishable commodities. Loans against private or Government bonds may be made only with the consent of the board of directors. In general the bank may engage in all kinds of commercial banking transactions and may carry out the functions of an investment bank as well as those of a trust company. With the consent of the board of directors the bank may establish branches in Latvia and abroad. A branch office, however, may be closed only with the consent of the Minister of Finance.

The administration of the bank.—The bank is managed by a board of managers (administration) and a board of directors (council). The administration consists of the general manager, his deputy, and three managers, who are not permitted to hold any other salaried positions. The council consists of the chairman, a

<sup>&</sup>lt;sup>1</sup> This is one of a series of articles summarizing the laws governing the organization and operation of the banks of issue recently established in several of the countries of Europe. The new Austrian bank of issue was described in the March Bulletin.

vice chairman, and not less than five directors. The number of the members of the board is determined by the cabinet of ministers. general manager and one representative of the Ministry of Finance are ex officio members of the board. The members of the administration and of the council are appointed by the cabinet of ministers upon the recommendation of the Minister of Finance. The council and officers of the bank are appointed by the Minister of Finance upon recommendation by the council. The rest of the employees are appointed by the general manager. The actual administration of the bank is directed by the board of managers, and the general manager bears the responsibility for compliance with the laws and the charter. The members of the council are appointed for three years, but are eligible for reappointment. The decisions of the council may be vetoed only by the Minister of Finance. Disagreements between the council and the Minister of Finance are to be passed upon by the cabinet.

# CONDITION OF STATE BANKS AND TRUST COMPANIES ON JUNE 30 AND DECEM-BER 29, 1922.

In the following tables are shown comparative figures of the principal assets and liabilities of the State banks and trust companies of 46 States and of the District of Columbia for the middle and the close of last year. December figures were available for all States except New Hampshire and Missouri, and the totals are exclusive of figures for these two States. Wherever possible data for mutual savings banks were excluded from the with the following results:

computation. This was done in the case of all New England States, and the States of New York, New Jersey, Pennsylvania, Indiana, Wisconsin, and Minnesota, which together had about 95 per cent of the deposits held on June 30 of last year by all mutual savings banks reporting to the Comptroller of the Currency. There were also excluded from the comparative statement data relating to private banks not under State supervision in the States of Indiana, Michigan, Iowa, Texas, and Colorado. The total number of banks for which December figures were compiled was 19,400 as against a corresponding June total of 19,378. It is therefore believed that the figures for the two dates cover practically the same ground and reflect more or less accurately the main changes in the condition of the banks of this country subject to State supervision. The June figures in the following statements were taken from data published in the annual report of the Comptroller for 1922, while December data are based upon abstracts of reports of condition furnished by the several State banking departments. These reports include data for both member and nonmember banks, and therefore, to a certain extent, overlap the December totals for member banks published in the March Bulletin.

To give some idea of the comparative development during the second half of the past year, of the State banks and trust companies which are not members of the Federal reserve system and those that are members of the system, the totals of some of the most important items for State bank and trust company members, viz, loans and discounts, investments and deposits, have been deducted from the corresponding totals for all State banks and trust companies,

[In thousands of dollars.]

		nember and mber banks. All memb		er banks.		State	banks and t	rust comp	anies.¹		
	Tuno 90	June 30, Dec. 29,	June 30,	Dec. 29,	Total.		Memb	ers.	Nonmembers.		
	1922.	1922.	1922.	1922.	June 30, 1922.	Dec. 29, 1922.	June 30, 1922.	Dec. 29, 1922.	June 30, 1922.	Dec. 29, 1922.	
Number of banks	27,665	27,666	9,892	9,859	19,378	19,400	1,605	1,593	17,773	17,807	
Loans and discounts Investments	24, 184, 455 9, 537, 544	24, 672, 156 10, 624, 626	17, 282, 290 7, 062, 071	18,061,459 7,687,716	12,735,448 4,893,018	12,869,314 5,517,374		6,258,617 2,580,464		6,610,697 2,936,910	
Total loans and investments  Due to banks. Other deposits (exclusive of U. S. deposits)	33,721,999 3,204,859 31,515,511	35, 296, 782 3, 577, 888 32, 916, 995	24,344,361 3,150,385 22,210,184	25,749,175 3,492,383 23,317,622	17,628,466 661,822 17,534,566	18,386,688 774,467 18,274,881	607,348	688,962	9,377,638 54,474 9,305,327	9,547,607 85,505 9,599,373	

<sup>&</sup>lt;sup>1</sup> Exclusive of data for State banks and trust companies in New Hampshire and Missouri.

Before an analysis of the member and nonmember bank figures is started, it is but proper to state that the grouping and classification of items in the abstracts of the several State banking departments is far from uniform and that in several cases, as shown in the footnotes, the item used as heading is inclusive of other items given separately in most of the other State abstracts. "Cash on hand," for instance, in the case of four States includes amounts "due from banks," and "bills payable" in a number of cases are shown together with "notes and bills rediscounted." Figures for New York State banks and trust com-panies shown under the head of "individual deposits" are inclusive of "certified and cashiers' checks," also of "Government deposits." Furthermore, the Federal Reserve Board's classification of items for State and trust company members differs in some respects from those followed by the principal State banking departments. Some allowance for these differences should therefore be made, when comparisons are attempted between the figures of member and nonmember banks, or between the totals by States and geographic sections.

It is seen that whereas loans and discounts of all member banks show an increase of about 4.5 per cent, from \$17,282,000,000 to \$18,061,000,000, those of nonmember banks declined during the same period about 4.2 per cent, from \$6,902,000,000 to \$6,611,000,000. A somewhat different development is also shown for investments in Government, corporate, and other securities. While both classes of banks report larger figures at the close of the year than six months before, the member banks show an increase of 8.9 per cent, from \$7,062,000,000 to \$7,688,000,000, while the nonmember banks show an increase in their investments of 18.7 per cent, from \$2,475,000,000 to \$2,937,000,000. Total loans and investments of all member banks show an increase for the six months of 5.8 per cent, while those of the nonmember banks show an increase of 1.8 per cent.

In the deposit block it was possible to segregate in most cases amounts "due to banks" panies refer to from other deposits, including individual and Government deposits. It is of interest to note that bank deposits are to a very large extent held by the member banks, which, as a rule, are larger in size, and of which a relatively larger portion is located in the financial should be used.

centers, and that the amounts due to other banks by the 18,000 State banks and trust companies outside the system included in the tabulation represent but relatively amounts, though the December total for the nonmember banks is considerably larger than the total shown for the earlier date. Other deposits of the summary table are made up of aggregate demand, time, and savings deposits, certified checks, and cashiers' checks, but exclusive in most cases of United States Government deposits. Between the middle and end of the year member banks increased these deposits by \$1,108,000,000, or about 5 per cent, while the nonmember banks report an increase of only \$294,000,000, or about 3 per cent.

Although less than 10 per cent of all State banks and trust companies are members of the Federal reserve system, these members report between 47 and 48 per cent of the total loans, investments, and individual deposits of these institutions. Total credit expansion of the State bank and trust company members during the six months, as measured by comparative figures of loans and security investments, was about \$588,000,000, or 7 per cent, compared with about \$170,000,000, or less than 2 per cent for the nonmember institutions.

A comparison of the totals of loans and discounts of all State banks and trust companies shows some variety of change between the two dates for the several geographic sections of the country. Loan liquidation appears to have been largest in the East, particularly in the States of New York, New Jersey, Pennsylvania, and Maryland. A small decline in the total of the loan account is also shown for the The banks increased their Western States. security investments between June and December in all sections of the country, nearly two-thirds of the increase being shown for the banks in the Eastern States. Larger deposit figures for December are shown for all sections except the Eastern States. The decrease in deposits was especially large in New York State, though it should be noted that figures for the New York State banks and trust companies refer to November 15 instead of the end of the year. As explained above, in many cases it was impossible to compile fully comparable totals for the several items in the summary statement and for this reason some caution in comparing the more detailed figures

# PRINCIPAL RESOURCES AND LIABILITIES OF STATE BANKS AND TRUST COMPANIES IN EACH STATE AS OF JUNE 30 AND DECEMBER 29, 1922.

[From abstracts of condition reports made to the Comptroller of the Currency and the several State banking departments.1]

[In thousands of dollars]

	Num bar repor	nks	Loans and	discounts.	Overo	lraf <b>t</b> s.	Gover	States nment ities.	All other	securities.	Total inv	estments.
	June.	Decem- ber.	June.	December.	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.
Maine	55	56	65,887	65,364	57	59	6,773	10,821	41,480	39,641	48, 253	50.462
MaineVermontMassachusettsRhode Island	39	39	47,539	47.022	44	42	4,895	5,445	8,460	8,350	13,355	50,462 13, <b>79</b> 5
Massachusetts	105	101	512,914	551, 198 101, 719	198	205	49, 913		101.438	154,328	151,351	154,328
Connecticut	15 78	15 79	98,287 83,877	88,577	9 87	17 61	30,204 8,094	34,412 8,724	62,315 80,479	60,426 86,557	92,519 88,573	94,838 95,281
Total New England.	292	290	808,504	853,880	395	384	99,879	59,402	294,172	349,302	394,051	408,704
New York	336	340	2,404,491	2,332,831	711	682			1,198,039	1,299,902	1,198,039	1,299,902
New Jersey	162	171	364.087	312,543	44	62	66,564	76,943	214, 193	284.471	280,757	361,414
New Jersey. Pennsylvania. Delaware.	6 <b>3</b> 6 3 <b>9</b>	649 41	885 <b>, 9</b> 63 35, 300	312,543 829,406 38,531	398 1,350	521 19	126,982 5,921	6 106	560,079	875, 165 28, 034	687,061 33,105	875, 165 34, 230
Maryland	143	145	161,330	136,762	1,550	116	18,231	6,196	560,079 27,184 66,539	116,129	84,770	116,129
Maryland. District of Columbia	35	36	64,285	68,179	41	47	5,674	6,418	21,096	20,624	26,770	27,042
Total Eastern		1,382	3,915,456	3,718,252	2,632	1,447	223,372	89,557	2,087,130	2,624,325	2,310,502	2,713,882
Virginia West Virginia North Carolina South Carolina Georgia Florida Alabama Mississippl Louisiana Texas Arkansas	330	334	140,680	158,832	153	182			15,899	17,114	15,899	17,114
West Virginia	225	224	146,567	156, 591 190, 017	<b>39</b> 3	395	7,256	7,290 7,449	20 251	21,040	27,507 12,761	17,114 28,330 15,714
North Carolina	496 372	544	184, 403	190,017	403	410	5,478	7,449	7,283	8,265	12,761	15,714
Georgia	589	359 599	114,716 186,104	107, 962 192, 048	881 186	1,015 461	3,812 4,085	4,345 4,177	5,045 9,927	5,336 11,130	8,857 14,012	9,681 15,307
Florida	218	222	66,677	76,286	79	61		1,1,1,1	15,342	16,701	15,342	16,701
Alabama	249	253	79,044	83,477	106	132	2,031		5,039	8,600	7,070	8,600
Mississippi	319 230	322 230	91,040 198,820	94,568	1,131 801	7,014	4,799 7,881	4,837 11,438	12,992 21,360	15,678	17,791 29,241	20, 515
Texas	983	970	216,580	218,431 202,668	1,081	1,289 1,283	9,983	11,400	5,930	26,892 17,890	15, 913	38,330 17,890
		402	101,032	106,693	285	509	3,558	4,555	4,589	4,488	8,147 32,803	9,043
Kentucky Tennessee	465 470	465 467	153,341 153,644	158,328 166,887	690 603	632 642			32,803 15,469	37,319 17,087	32,803 15,469	37,319 17,087
Total Southern		5,391	1,832,648	1,912,788	6,792	14,025	48,883	44,091	171,929	207,540	220,812	251,631
			<del></del>		- <u></u>	====		====			== <u>=</u> ==	
Ohio Indiana	750 681	752 6 <b>9</b> 6	936,191 293,368	970,678 306,830	475 575	650 577	60,272 21,954	80,650 23,777	224,432 47,792	230,147 50,123	284,704 69,746	310,797 73,900
Illinois	1,406	1,412	1,178,997	1,236,110	1,331	1.332	149,918	165,302	274,011	280,622	423,929	445,924
Illinois Michigan Wisconsin	576	581	370,889	347,224	372	2,038 85 <b>9</b>	18.413	26,164	439,699	516,013	458,112	542,177
Wisconsin	841 1,165	841	325,296	326,747	534	859	23,219	27,121	57,439	57,950	80,658	85,071
Minnesota	1,332	1,159 1.329	307,110 579,942	323,048 594,023	1,053 892	1,248 1,054	14,934 24,731	12,206 23,482	51,244 567	34,450 577	66,178 25,298	46,656 24,059
Model Middle	<del></del>											
Total Middle Western	6,751	6,770	3,991,793	4,104,660	5,232	7,758	313,441	358,702	1,095,184	1,169,882	1,408,625	1,528,584
North Dakota	664	665	105,083	102,567	247	239	929		4,298	6,236	5,227	6,236
South Dakota	562 970	561	142,316 209,352	145, 250	998	721				2,908 10,947	2,687 10,145	2,908
South Dakota Nebraska Kansas	1,097	955 1,084	209,352	$213,641 \\ 222,424$	1,070 693	1,130 852	7,570			22,216	20,150	10,947 22,216
Montana. Wyoming. Colorado. New Mexico.	268	265	222,224 72,382	67,521	294	296	1,531		8,002	12.448	9.533	12,448
Wyoming	99 235	97 229	19,566	19,495	112	100			1.139	1,287 14,334	1,139	1.287
New Mexico	63	64	60,829 16,714	62,703 16,532	154 33	138 40	10,004 597	12,138 504	14,159 949	1,036	24,163 1,546	26,472 1,540
Oklahoma	486	464	68,947	57,477	330	368			9,779	10,476	9,779	10,476
Total Western	4,444	4,384	917,413	907,610	3,931	3,884	20,631	12,642	63,738	81,888	84,369	94,530
Washington	284	277	90,027	88,340	113	57	12,595		18,992	35,249	31,587	35,249
Washington Oregon California Idaho	181	182	67,002	68.458	121	127	6,663	8, 161 166, 947	15,174	15,594	21,837 394,799	23,755 433,602
California	429	432	979,012	1,079,970 23,734	795	1,296		166,947	15,174 394,799 2,392	266,655	394,799	433,602
Utah	119 97	114 97	27,024 59,810	23,734 63,927	47 213	42 268	1,735 3,646		2,392 8,476	4,753 12,827	4,127 12,122	4,753 12,827
Utah Nevada Arizona	24	24	14,300	14,642	134	140	457			2,003	1,989	2,003
Arizona	58	57	32,459	33,053	32	70			8,198	7,854	8,198	7,854
Total Pacific	1,192	1,183	1,269,634	1,372,124	1,455	2,000	25,096	175,108	449,563	344,935	474,659	520,043
Total United States	19,378	19,400	12,735,448	12,869,314	20,437	29,493	731,302	739,502	4,161,716	4,777,872	4,893,018	5,517,374
			·		<del></del>			<del></del>		<del></del>	·	

<sup>&</sup>lt;sup>1</sup> December reports not available for New Hampshire, and Missouri. Figures for these States not included in totals.

# PRINCIPAL RESOURCES AND LIABILITIES OF STATE BANKS AND TRUST COMPANIES IN EACH STATE AS OF JUNE 30 AND DECEMBER 29, 1922—Continued.

	Banking furnitu fixtu	re, and	Other estate		Due from	a banks.	Reserv Federal r other h	eserve or	Check other items, i ing cle hous char	cash includ- aring- e ex-	Cash or	hand.
	June.	De- cember.	June.	De- cember.	June.	Decem- ber.	June.	Decem- ber.	June.	De- cember.	June.	De- cember.
Maine Vermont Massachusetts Rhode Island Connecticut	1,789 805 14,653 3,422 5,174	1,883 744 15,163 3,450 5,962	266 145 3,379 135 858	362 232 514 153 1,179	6, 853 2, 827 27, 614 16, 260 2, 059	707 3,706 22,848 1,181 1,633	43,718 10,656	58, 527 14, 099 11, 729	184 23,578 2,319 2,271	133 15, 313 1, 823 2, 063	2,921 707 12,740 5,535 4,082	3, 200 763 13, 270 6, 367 4, 851
Total New England	25,843	27, 202	4,783	2,440	55, 613	30,075	54,374	84,355	28,352	19,332	25,985	28, 451
New York. New Jersey Pennsylvania Delaware. Maryland District of Columbia	2 86,375 16,721 63,191 2,693 7,644 10,410	<sup>2</sup> 90,431 17,767 71,663 2,798 7,847 10,229	2,660 24,043 847 1,136 372	2,752 19,351 800 1,175 982	99, 441 33, 205 27, 863 1, 383 16, 085 8, 572	118, 790 67, 556 30, 943 2, 425 5, 635 8, 757	462, 540 23, 166 127, 910 4, 358 33, 333 272	429, 366 149, 463 3, 352 32, 825 205	424, 111 6, 063 18, 522 660 1, 076 1, 371	306, 716 5, 069 16, 977 473 3, 366 1, 044	65, 291 13, 423 37, 282 1, 023 4, 228 2, 362	71, 778 15, 740 44, 004 1, 255 4, 833 2, 752
Total Eastern	187,034	200, 735	29,058	25,060	186, 549	234, 106	651, 579	615, 211	451, 803	333, 645	123,609	140,362
Virginia West Virginia North Carolina South Carolina Georgia Florida Alabama Mississippi Louisiana Texas Arkansas Kentucky Tennessee	6, 042 7, 563 7, 592 3, 867 7, 873 4, 376 3, 505 2, 798 13, 822 11, 672 4, 544 5, 338 6, 878	6, 498 7, 745 7, 716 3, 561 8, 862 4, 320 3, 597 2, 883 14, 067 16, 871 4, 681 5, 517 6, 905	1,501 930 1,412 1,377 2,353 853 1,789 928 2,386 4,021 1,544 546 1,617	1,559 1,102 1,720 1,582 3,262 1,117 1,920 1,051 2,267 	14, 104 21, 916 27, 735 13, 839 6, 228 19, 422 10, 892 42, 664 444, 382 20, 136 23, 726 30, 315	19,589 26,969 37,187 16,727 8,919 22,544 3 27,851 32,390 54,204 2,922 31,048 41,282	25, 244 3, 835 25, 496 7, 617 2, 346	6, 403 32, 048 9, 351 32, 407	1,304 1,162 1,834 1,366 2,781 829 1,589 426 7,272 3,101 1,327 4,072	1,441 1,701 1,975 1,552 3,479 1,578 738 8,515 79,588 6,068 2,059 8,213	3,768 5,155 5,451 2,193 4,572 3,603 3,574 2,963 6,130 7,563 3,317 6,891 5,044	4,768 7,947 2,693 6,422 4,122 4,737 4,535 6,646 4,594 6,277 5,269
Total Southern	85,870	93, 223	21, 257	20, 151	276, 216	321,632	64, 538	80, 209	27,063	116,904	60, 224	58,010
Ohio Indiana Illinois Michigan Wisconsin Minnesota Iowa	39,756 15,095 35,890 26,278 12,110 10,999 18,511	41, 122 15, 995 40, 003 27, 833 12, 447 11, 002 18, 626	12,454 2,830 6,377 2,025 1,375 4,702 3,948	12,950 3,181 6,061 2,358 1,590 5,392 5,434	29, 267 48, 470 190, 300 3, 220 1, 614 38, 443 67, 634	29, 157 52, 983 254, 153 2, 764 1, 626 66, 950	72,095 81,036 44,254 2,078	83, 881 50, 827 2, 016	32, 295 3, 211 50, 867 16, 676 5, 778 3, 411	39, 461 3, 123 85, 730 18, 149 5, 847 2, 438	29, 683 11, 174 39, 833 20, 721 9, 785 12, 835 14, 669	36, 157 12, 916 45, 447 23, 062 10, 846 46, 497 16, 870
Total Middle Western	158, 639	167,028	33,711	36, 966	378, 948	407, 633	299, 956	247, 421	112, 238	154, 748	138, 700	191,795
North Dakota. South Dakota. Nebraska Kansas. Montana Wyoming Colorado. New Mexico Oklahoma	7,476 3,633 668 3,005	3, 985 5, 099 7, 099 7, 760 3, 627 682 3, 023 690 2, 436	3, 694 2, 902 2, 454 2, 214 2, 478 318 535 291 745	4,490 3,825 3,514 2,652 2,725 312 698 329 925	483 26, 555 42, 428 42, 441 503 3, 472 309 2, 318 15, 635	760 38, 925 5, 356 530 2, 591 17, 925	7, 099 12, 101 13, 660 128	11, 642 16, 487 15, 222	403 797 125 2,667 414 182 1,305 235 740	607 1,006 181 3,264 628 375 1,106 151 2,449	1,528 3,153 9,274 6,896 2,615 736 3,467 524 2,566	1,751 6 27,642 9,812 6 48,998 2,872 841 3,573 608 2,799
Total Western	. 34,056	34, 401	15,631	19,470	134, 144	66,087	32,988	43,351	6,868	9,767	30,759	98,896
Washington Oregon California Idaho Utah Nevada Arizona	5,950 2,400 47,494 1,340 2,409 540 2,064	5,928 2,556 53,251 1,308 1,940 552 2,167	1,576 964 5,429 857 1,205 99	1,406 1,107 5,929 880 1,847 90	1, 261 5, 404 99, 410 5, 080 9, 055 3, 257 7, 453	1,510 16,012 106,887 5,158 14,023 3,830 11,027	18, 201 11, 139 38, 950 641 2, 224 34	17,929 2,810 45,549 549	1,240 1,362 30,280 254 695 178	1,476 1,112 39,981 217 933 113	4, 122 4, 097 38, 229 1, 218 1, 171 989 4, 726	4,379 4,624 45,832 1,385 1,371 1,091
Total Pacific		67,702	10, 130	11, 259	130, 920	158, 447	71, 189	66, 837	34,009	43, 832	54, 552	58, 682
Total United States	553, 639	590, 291	114, 570	115, 346	1, 162, 390	1,217,980	1, 174, 624	1, 137, 384	660, 333	678, 228	433, 829	576, 196

<sup>Includes other real estate owned.
Includes cash items.
Includes lawful reserve.
Includes items due from banks.</sup> 

# PRINCIPAL RESOURCES AND LIABILITIES OF STATE BANKS AND TRUST COMPANIES IN EACH STATE AS OF JUNE 30 AND DECEMBER 29, 1922—Continued.

	Ot resou	her rces.	Aggregate and lia	e resources bilities.	Capita paic	l stock l in.	Sur	plus.		vided fits.		to all
	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.
Maine Vermont Massachusetts Rhode Island Connecticut	17,672 1,008 11,713 1,341 483	7, 339 1, 211 13, 083 2, 405 521	143, 698 66, 614 801, 858 219, 827 198, 120	129, 376 67, 648 844, 449 226, 052 211, 857	5, 165 2, 516 41, 668 9, 610 13, 635	5, 215 2, 591 40, 550 9, 611 14, 210	3, 858 2, 371 39, 476 13, 196 9, 240	4, 058 2, 405 39, 753 12, 053 9, 583	4, 244 1, 926 13, 988 5, 774 5, 524	3,740 1,731 10,961 3,629 5,791	1, 127 82 25, 248 2, 451 2, 305	1, 249 94 25, 292 1, 419 1, 915
Total New England	32, 217	24, 559	1, 430, 117	1,479,382	72, 594	72, 177	68, 141	67, 852	31, 456	25, 852	31, 213	29,969
New York. New Jersey. Pennsylvania. Delaware. Maryland. District of Columbia.	219, 015 6, 839 21, 688 321 2, 132 579	228, 780 6, 670 20, 459 1, 059 3, 693 539	4, 960, 014 746, 965 1, 893, 921 81, 040 311, 822 115, 034	4, 879, 276 789, 573 2, 057, 952 84, 942 312, 381 119, 776	218, 058 36, 900 147, 049 5, 444 19, 564 13, 937	223, 303 40, 575 149, 218 6, 605 19, 940 14, 210	6 300, 479 29, 477 203, 124 5, 469 20, 117 6, 567	6 322, 376 29, 243 215, 828 6, 157 21, 157 6, 682	14, 815 49, 273 2, 365 6, 876 3, 480	17, 668 47, 469 2, 189 7, 097 4, 311	257, 169 8, 652 30, 121 975 5, 574 830	329, 813 10, 007 34, 946 1, 115 5, 958 840
Total Eastern	250, 574	261, 200	8, 108, 796	8, 243, 900	440, 952	453, 851	565, 233	601, 443	76, 809	78, 734	303, 321	382,679
Virginia	1,776 745 1,975 1,953 3,489 713 325 3,497 4,226 9,922 1,246 2,033 10,459	4,393 739 1,937 2,287 9,714 653 694 63,107 11,763 620,397 1,286 2,579 11,558	185, 227 211, 938 243, 566 149, 049 252, 842 111, 729 146, 927 312, 979 311, 134 145, 695 226, 695 228, 101	214, 376 229, 975 264, 623 147, 623 127, 382 131, 008 166, 801 364, 863 338, 694 170, 270 244, 432 259, 674	23, 920 17, 840 23, 572 17, 300 32, 987 10, 250 11, 489 12, 465 22, 987 45, 075 16, 277 21, 588 22, 779	25, 935 18, 184 22, 989 16, 534 31, 962 11, 183 12, 245 12, 517 23, 228 44, 349 16, 306 21, 870 22, 123	12, 957 11, 655 10, 304 7, 674 17, 083 3, 321 6, 234 5, 994 12, 209 13, 877 6, 228 12, 767 6 13, 008	14, 110 11, 974 10, 319 7, 414 16, 715 6 4, 660 6 8, 675 6, 026 12, 191 6 20, 194 6, 229 12, 872 6 14, 042	5,506 3,936 4,741 3,315 7,627 1,474 2,818 2,353 5,320 5,346 2,766 2,794	5,094 5,227 4,861 3,103 7,302 2,760 3,583 3,830 3,316	2,336 4,153 9,645 1,375 12,720 2,590 2,975 3,954 26,713 9,969 6,700 3,026	9, 347 5, 181 13, 420 1, 772 19, 834 3, 998 6, 424 35, 120 14, 517 2, 898
Total Southern	42,359	71, 107	2,637,779	2,939,680	278, 529	279, 425	133, 311	145, 421	47,996	39,076	86, 156	112, 521
Ohio. Indiana. Illinois. Michigan. Wisconsin. Minnesota. Iowa.	16, 387 49, 297 43, 608 23, 678 431 5, 474 2, 465	15, 515 60, 249 31, 583 20, 951 1, 158 711, 837 1, 696	1, 481, 705 493, 766 2, 043, 227 1, 003, 007 481, 835 452, 283 713, 359	1,567,184 529,754 2,146,343 1,070,437 497,018 450,134 728,712	97, 213 42, 241 142, 412 62, 848 34, 728 35, 605 55, 915	98, 982 43, 082 144, 067 64, 325 35, 309 35, 184 55, 550	65, 313 15, 796 82, 999 44, 842 13, 051 13, 787 25, 751	66,004 16,390 83,905 45,958 13,682 13,444 25,668	20, 837 8, 151 56, 156 13, 081 8, 999 3, 787 13, 633	22, 219 5, 777 44, 782 15, 305 9, 898 4, 754 12, 454	42, 307 8, 937 81, 903 12, 589 8, 764 5, 995	49,500 10,205 82,698 15,800 9,387 6,199
Total Middle Western	141,340	142, 989	6,669,182	6, 989, 582	470,962	476, 499	261, 539	265,051	124,644	115, 189	160, 495	173, 789
North Dakota South Dakota Nebraska Kansas Kansas Mortana Wyoming Colorado New Mexico Oklahoma	1, 138 5, 812 6, 550 2, 424 996 550 449 186 65	9, 567 7, 495 7 2, 716 489 895 764 239 91	128, 908 190, 135 288, 521 307, 185 104, 949 26, 743 107, 876 22, 652 101, 360	132, 277 196, 018 292, 744 310, 882 107, 093 29, 343 114, 229 22, 720 94, 946	11, 307 12, 980 25, 255 28, 541 11, 595 2, 953 9, 532 2, 850 9, 800	11, 300 12, 954 24, 755 28, 051 11, 300 2, 949 9, 342 2, 765 9, 187	6 4,091 4,342 7,600 15,228 3,499 1,168 4,273 805 2,089	4,027 4,283 7,449 15,015 3,221 1,102 4,208 845 1,966	4,664 8,026 5,349 1,236 903 1,536 146 613	100 9,729 8,535 5,775 1,446 1,339 1,680 301 1,086	290 7,777 7,638 9,196 2,331 431 1,329 208 2,384	368 7, 270 6, 961 4, 241 664 2, 416 191 2, 220
Total Western	18, 170	22, 256	1, 278, 329	1, 300, 252	114, 813	112,603	43, 095	42, 116	22, 473	29, 991	31, 584	24, 331
Washington Oregon California Idaho Utah Nevada Arizona	2,838 1,730 23,542 318 816 122	1,980 3,502 25,913 481 509 538	156, 915 116, 056 1, 657, 940 40, 906 89, 720 21, 642 54, 932	158, 254 124, 063 1, 838, 210 38, 507 97, 645 22, 999 54, 171	13, 447 9, 529 100, 065 4, 185 7, 868 1, 761 4, 560	13, 263 9, 934 107, 065 4, 060 7, 992 1, 761 4, 548	4,827 3,542 43,097 1,380 3,578 550 1,940	4,702 3,478 46,726 1,216 3,694 550 2,098	1,768 2,421 18,003 393 1,265 284 907	1,663 2,600 31,684 396 1,148 766 844	3,980 4,003 35,835 746 2,815 132 1,542	4, 374 4, 207 38, 122 642 3, 685 148
Total Pacific		32, 923	2, 138, 111	2, 333, 849	141, 415	148, 623	58,914	62, 464	25,041	39, 101	49,053	51, 178
Total United States	514,026	555, 034	22, 262, 314	23, 286, 645	1, 519, 265	1, 543, 178	1, 130, 233	1, 184, 347	328, 419	327, 943	661, 822	774, 467

Includes undivided profits.
 Includes guaranty fund.

# PRINCIPAL RESOURCES AND LIABILITIES OF STATE BANKS AND TRUST COMPANIES IN EACH STATE AS OF JUNE 30 AND DECEMBER 29, 1922—Continued.

1	Certific cashi chec	ers'	Individual (including unpaid a savings).	deposits dividends nd postal	United deposi clusi postal sa	ts (ex- ve of	Notes a redisco		Bills pa	ayable.	Other itie	liabil- es.
	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.	June.	Decem- ber.
Maine Vermont Massachusetts Rhode Island Connecticut	305 146 8,942 1,033 2,149	396 217 672 1,597	106, 811 57, 809 641, 199 185, 853 161, 170	109, 383 58, 919 669, 798 190, 470 174, 042	3,602 506	1,060	1,022 10 9,471 584 463	1, 048 149 26, 337	3, 688 1, 255 4, 113 75 2, 335	3,810 928 7,369 1,665 2,720	17, 478 499 14, 151 745 1, 299	477 614 24,389 5,473 1,598
Total New England	12,575	2,882	1, 152, 842	1, 202, 612	4, 108	1,060	11,550	27,935	11,466	16, 492	34, 172	32, 551
New York. New Jersey. Pennsylvania. Delaware. Maryland District of Columbia.	4,600 11,025 360 551	4, 549 10, 302	8 3, 976, 435 638, 054 1, 377, 088 64, 164 255, 530 87, 846	8 3, 727, 174 661, 981 1, 528, 099 66, 705 250, 501 90, 143	1,092 8,173 405	431	8, 534 870 4, 094 620 55	12, 151 956 547 872 46	12, 366 6, 721 28, 837 665 1, 829 701	28,020 15,970 32,395 273 3,046 1,457	186, 973 5, 784 35, 137 1, 193 1, 712 865	236, 439 8, 624 39, 148 1, 467 3, 810 1, 216
Total Eastern		15, 291	6, 399, 117	6, 324, 603	9,872	862	14, 173	14, 572	51, 119	81, 161	231, 664	290, 704
Virginia West Virginia North Carolina South Carolina Georgia. Florida. Alabama Mississippi Louisiana Texas Arkansas Kentucky Tennessee.	1, 132 1, 142 2, 705 421 828 1, 050 393 313 1, 604 2, 456 725 1, 243	1,052 2,769 1,588 779 1,615 1,566 646 2,864 1,230 830	129, 156 162, 637 170, 894 99, 459 154, 150 90, 278 81, 074 112, 202 231, 076 206, 282 98, 852 171, 007 170, 126	142, 157 175, 377 195, 904 104, 326 171, 782 101, 599 107, 656 133, 435 266, 674 262, 478 121, 827 185, 772			3,344 785	4,277 1,830 2,828 1,716 6,600 	5, 272 5, 295 14, 834 11, 053 15, 182 1, 276 4, 456 5, 195 6, 813 22, 018 9, 040 4, 245 9, 9, 925	6,460 6,194 8,552 6,630 15,509 9,3,365 1,826 1,868 3,531 9,507 3,461 5,910 916,065	2,341 2,581 4,889 6,197 5,477 1,189 497 2,635 5,630 6,111 1,766 9,240 12,263	5, 944 3, 239 4, 152 4, 786 9, 203 1, 011 606 2, 545 5, 166 1, 652 9, 778 13, 319
Total Southern	14, 012	14,939	1, 877, 193	2, 163, 1 <b>12</b>			25, 162	21,335	114,604	85, 878	60, 816	77, 973
Ohio. Indiana Illinois. Michigan Wisconsin Minnesota. Iowa	21,034 4,993 2,635 4,415	13, 020 2, 020 34, 745 5, 998 3, 208 6, 201	1, 207, 968 357, 951 1, 581, 884 808, 406 392, 574 366, 061 556, 126	1, 270, 215 377, 886 1, 665, 110 864, 169 406, 080 360, 997 576, 922	2,618 1,856 290	5,370 10,223 324	4,918 4,690 8,060 5,193 3,999 1021,121	6, 221 4, 693 5, 576 5, 470 3, 693	11,771 6,938 22,391 10,903 12,900 9 51,729	14,794 7,598 22,265 17,372 10,063 9 19,294 9 49,385	19, 014 46, 830 46, 388 38, 296 3, 895 1, 512 10, 205	20, 859 62, 103 63, 195 25, 817 5, 374 4, 061 8, 733
Total Middle Western	45,055	65, 192	5, 270, 970	5, 521, 379	4,764	15,917	47,981	25,653	116,632	140, 771	166, 140	190, 142
North Dakota South Dakota Nebraska Kansas Montana Wyoming Colorado New Mexico Oklahoma	1,047 1,265 2,164 639 1,637 184	1,663 1,680 1,522	85, 435 137, 329 225, 647 226, 794 70, 363 19, 909 86, 373 16, 895	93, 063 140, 567 231, 793 241, 522 76, 657 22, 643 92, 578 16, 931	136		10, 154 1114,990 462 530	518 3,693 168 668	25,720 16,733 9 12,165 1,617 9 1,379 1,810 818	20,706 14,737 9 11,235 9 11,247 10,015 9 646 1,455 875	429 1,892 2,190 8,142 296	532 1, 105 2, 016 9, 272 213 860 144
		1,514	74,571	74, 574	-		·	3,418	1,777	868	90	113
Total Western		6,379	943,316	990, 328	136		38,500	8, 465	62,019	71,784	14,043	14, 25
Washington Oregon California. Idaho Utah Nevada Arizona	. 283	1, 259 470 379	124,075 91,077 1,424,865 27,439 63,067 17,920 42,269	126,770 98,701 18 1,580,435 28,133 70,155 18,665 43,197	5,452		2,030 1,141 6,058 1,795 1,152 269 1,453	1,754 461 5,254 1,060 954	1,893 1,567 6,435 4,420 2,152 204 2,054	2,376 1,803	3,522 1,561 18,130 202 7,111 239 207	2, 799 3, 679 24, 433 156 8, 214 730 13 3, 48
Total Pacific	3,886	2, 108	1, 790, 712	1,966,056	5, 495	53	13, 898	9, 483	18,725	11, 290	30, 972	43, 49
Total United States	100, 414	106, 791	17, 434, 150	18, 168, 090	24,375	17, 892	151, 264	107, 443	374, 565	407, 376	537, 807	649, 11

<sup>Total deposits.
Includes rediscounts.
Includes cashiers' checks.
Includes bills payable.
Includes United States deposits.
Includes bills payable and rediscounts.</sup> 

# State Banks and Trust Companies. Admissions,

The following list shows the State banks and trust companies which were admitted to membership in the Federal reserve system during the month ending March 28, 1923, on which date 1,642 State institutions were members of the system:

	Capital.	Surplus.	Total resources.
District No. 2.			
The Watsessing Bank, Bloomfield, N. J.	\$1,000,000	\$1,000,000	\$1,965,810
District No. 3.			
Peoples Trust Co., Philadelphia, Pa	634, 450	100,000	3, 399, 895
District No. 4.			
Pearl-Market Bank, Cincinnati, Ohio	400,000	200,000	7,327,501
District No. 5.		l	
Hardy County Bank, Moorefield, W. Va.	50,000	1,850	146,615
District No. 6.	i i		
Bank of Commerce, Tampa, Fla	200,000	40,000	1,376,154
District No. 8.			
Citizens Bank, Gillett, Ark	25, 000 25, 000	2,500 25,000	27, 500 191, 738
Groves, Mo	100,000	25,000	1, 380, 018
District No. 11.	į		
First State Bank, Sylvester, Tex	50,000	800	160, 213

#### Changes.

Absorbed by national bank.—The Jefferson State Bank, Menan, Idaho. Banks closed.—Walton County Bank, Social Circle, Ga.; First State Bank, Malone, Tex.; First Savings Bank, Sutherland, Iowa; Eden State Bank, Eden, Idaho. Change of name.—Susquehanna Trust & Safe Deposit Co., Williamsport, Pa., to Susquehanna Trust Co.

Change of name and location.—Sacramento-San Joaquin Bank, Sacramento, Calif., to United Bank & Trust Co. of Calliornia, San Francisco, Calif.

Consolidations.—The Irving Bank of Mary Vock.

cisco, Calif.

Consolidations.—The Irving Bank of New York and the Columbia Trust Co. of New York, both member institutions, have consolidated under the name "Irving Bank-Columbia Trust Co." The Commercial Bank of San Luis Obispo, Calif., has consolidated with the Pacific Southwest Trust and Savings Bank, Los Angeles, Calif.

Converted into national banks.—Farmers and Commercial Savings Bank, Clayton, Mo.; The First State Bank of Stigler, Okla.; Federal Trust Co., Boston, Mass.; Trust Company of Orange, Orange, N. J.

Reopened.—Evart State Bank, Evart, Mich.

Withdrawals.—First State Bank, Persectt, Ark.; State Bank of Wayne, Wayne, Nebr.; Bank of Independence, Independence, Ky.; Penelope State Bank, Penelope, Tex.

### 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 February 24 to March 23, 1923, inclusive:

	Num- ber of banks.	Amount of capital.
New charters issued	11	<b>\$2,267,500</b>
Increase of capital approved.	31	3,840,000
Aggregate of new charters, banks restored to solvency, and banks increasing capital	42	6,107,500
Liquidations	17 5	4,695,000 185,000
Total liquidations and reductions of capital.	22	4,880,000
Consolidations of national banks under act of Nov. 7, 1918	0	0
Aggregate increased capital for period		6, 107, 500 4, 880, 000
Net increase		1, 227, 500

# Fiduciary Powers Granted to National Banks.

During the month ending March 28, the Federal Reserve Board approved applications of the national banks listed below for permission to exercise one or more of the fiduciary powers named in section 11 (k) of the Federal reserve act as amended, as follows:

1. Trustee.

- 2. Executor.
- Administrator.
- 4. Registrar of stocks and bonds.
- 5. Guardian of estates.
- 6. Assignee. 7. Receiver.
- 8. Committee of estates of lunatics.
- 9. In any other fiduciary capacity in which State banks, trust companies, or other corporations which come into competition with national banks are permitted to act under the laws of the State in which the bank is located.

The numerals opposite the name of each bank indicate the power or powers it is authorized to exercise, as given below:

Place.	Dis- trict No.	Name of bank.	Powers granted.
Caldwell, N. J	2	Citizens National Bank	1 to 8.
Lynbrook, N. Y	2	Peoples National Bank	1 to 9.
Owego, N. Y	2	First National Bank	1 to 9.
Owego, N. Y	2	Owego National Bank	
Schenectady, N. Y	2	Union National Bank	1 to 9.
Honeybrook, Pa	3	First National Bank	
Souderton, Pa	3	Union National Bank	1 to 9.
Meyersdale, Pa	4	Citizens National Bank	
Somerset, Ky	4	First National Bank	
Salisbury, N. C	5 5	First National Bank	
Parkersburg, W. Va		First National Bank	
Amboy, Ill	7	First National Bank	
Rushville, Ind	7	Peoples National Bank	
Sioux City, Iowa	7	Security National Bank.	
Benton Harbor, Mich		American National Bank.	1 to 9.
Evanston, Ili		City National Bank	1 to 9.
Unionville, Mo		Marshall National Bank.	
Dillon, Mont		First National Bank	1 to 7 and 9.
Oklahoma City, Okla	10	Tradesmens National Bank.	1 to 7 and 9.
Mancos, Colo	10	First National Bank	1 to 9.
Albuquerque, N. Mex	11	Citizens National Bank	
Colorado, Tex		Colorado National Bank.	1 to 3, 5 to 7.

# BUSINESS AND FINANCIAL CONDITIONS ABROAD.

An important factor in the foreign business situation has been the recent upward movement of prices in nearly all the principal countries of the world. This movement was particularly strong in Germany and France, but in both countries the rapid advance of prices early in the year has been checked recently, as the exchange value of the mark and the franc increased. Index numbers received up to April 10 indicate that in many other countries, including the United States, England, Switzerland, Denmark, Norway, Sweden, and Japan, the upward trend has continued into March.

British prices, which had remained steady during the first half of 1922, while American prices advanced, started to rise toward the end of 1922, while the price level in this country remained fairly stable, and have risen more rapidly than American prices in the past two or Thus the Federal Reserve Board's index for England shows an increase of 3 points in February following a 1-point rise in January, while the board's American index rose 1 point in both January and February. These advances are entirely due to higher prices of raw materials and producers' goods in England and in the United States, stimulated by an increased demand resulting from the revival of business. On the other hand, many finished products and consumers' goods, especially foodstuffs, have been either stable or lower in price during the last two or three months. The lag in the rise of British prices compared with American prices corresponds to the later and more gradual recovery of British business. Although business conditions in England are still far from normal, there has recently been growing evidence of somewhat greater industrial activity. The percentage of unemployed workers in insured trades dropped from 12.7 in January to 11.8 in February; the amount of coal mined in that month exceeded that mined in January, despite the shortness of February; pig-iron production also averaged higher per day than during the preceding month; and bank clearings and foreign trade were satisfactory for the season of the year. Both in England and in the United States expanding business activity has been reflected in a growing demand for credit, evidenced by increasing bank loans and a tendency toward higher interest rates.

In Germany the temporary stabilization of the mark at about 20,000 to the dollar, or 0.02 per cent of parity, following its extreme depreciation at the end of January, was reflected in a decline in prices during February, which continued into March. The index number of the Federal Statistical Office declined from 5,967 (1913=1) at the beginning of February to 4,827 on March 24, a decrease of about 20 per cent. This decrease was largely confined to commodities manufactured from imported raw materials, while prices of domestic commodities in many instances increased and exceeded the prices of similar goods in other countries. The decline of prices and the scarcity of coal and iron, due to the isolation of the Ruhr district from the rest of Germany, have brought about a slackening of business activity in practically all trades. The slowing down of industry, together with the fall in prices, has in turn reduced the demand for bank credit, which is reflected in an easier money market and somewhat lower interest rates. Notwithstanding the stabilization of the value of the mark abroad, the volume of notes in circulation and the floating debt of the Government have continued to increase rapidly, the floating debt rising from 3,694 billion marks on February 20 to 6,841 billion marks on March 20.

In France the revival of business, which set in on a moderate scale a year ago, has necessitated large imports, especially of raw materials, and has had a depressing effect on the exchange value of the franc, with a consequent rise in prices. Both imports and exports have been much higher in recent months than a year ago, but imports continued greatly to exceed exports.

# THE TREND OF BUSINESS ABROAD.1

Items.	United King- dom	France.	Ger- many.	United States.	Items.	United King- dom.	France.	Ger- many.	United States.
I. CREDIT.					III. PRODUCTION AND TRADE.				
COMMERCIAL BANK LOANS:					Pig-Iron Production (relatives 5):	1	1		
1001 77 1	1,172	12,955		12,795	1921—February	54	67		76
1922—February	1, 152			10,851	1922—February	35	74		64
1921—February. 1922—February. May. August. November. December.	1,061 1,020	13, 102		10,906 10,761	May	48 48	102		90 71
November	1,020	13, 265		11, 219	November	58	118		111
December	1,031			11, 329	December	62	118		121
1923—January	1,046			11, 425	1923—January	66			126
February	1,023			11,639	February	64			117
COMMERCIAL BANK DEPOSITS:	1 754	10 056	i	10 405	COAL PRODUCTION (relatives 5): 1921—February	79	114	09	~~
COMMERCIAL BANK DEFOSITS: 1921—February. 1922—February. May. August. November. December. 1923—January. February. CENTRAL BANK DISCOUNTS:	1,754 1,802	12,856 12,747 12,962		10, 495 10, 245	1922—February	89	114 100	79	$\begin{array}{c} 77 \\ 103 \end{array}$
May	1,745	12,962		11,049	1922—February May August November	87	101	84	51
August	1,688	12.884		10,942	August	87	108	71	69
November	1,667			11,094	November	98	110	73	114
December	1,685			11,255 11,537	December	94	112	67 12	117 126
Fobruary	1,693 1,644			11,525	1923—January February	99		14	106
CENTRAL BANK DISCOUNTS:	1,011		•••••	11,025	UNEMPLOYMENT: 6				100
1921—February	95	2,961	56	2,396	1921—February	10.0	44,525	206	80
1921—February 1922—February May August November December	82	2,726	136	2,396 721	1922—February	15.7	4,385	145	90
Мау	75 76	2.319	171 271	471	May August November	13.5 12.0	1,636 606	107 109	85 <b>8</b> 9
August	68	2, 194 2, 818	919	404 614	November	12.4	235	155	96
December	78	2,401	1,607	630	December	12, 2	414		98
1923—January	66	2,662	2,306	597	1923—January	12.7	684		99
February	79	2,684	2, 306 4, 777	596	February	11.8	666		101
February  Central Bankary  Central Fabruary  Tentral Fabruary	144	97 000	c=	2.050	BANK CLEARINGS (actuals 2):	2,775	591	70	14 277
1921—February 1922—February May August November December 1923—January	414	37, 808 36, 151	67 120	3,052	1921—February 1922—February	3.088	489	110	14,577 14,042
May	402	35, 982	152	2, 142	May August November	3,307	454	179	16,322
August	396	35, 982 36, 385	238	2, 153	August	2,885	512	375	15,849
November	390	36, 114	754	2,330	November	2,989	783	1,464	17,133
December	405	36, 359 36, 780	1,280	2,464	December1923—January	2,769 3,262	630 726	2,079 3,826	19,586 19,666
1923—January	381 381	36,780	1,984	2, 197 2, 142 2, 153 2, 330 2, 464 2, 204 2, 247	February	3,006	792	3,320	16,905
February. CENTRAL BANK DISCOUNT RATE	901	31,000	3,513	2,211	February	3,000	1		10,000
(per cent):	i		j	1	1922—February May August November	1,363	47,741	2,953	3,043
1021—Fahruary	. 7	6	5	7	May	1,379	49,055	3,994	3,522
1922—February May August November	. 4		5	41 41	August	1,455 1,568	50,875 56,046	3,864 3,796	3,930 4,105
May	3	5 5	5	42	December	1,505	. 55,848	0,190	3,635
November	. 3	5	10	4	1923—January		54,432		3,813
ресещее:		5	10	4	February				3,393
1923 January	. 3		12	4	VALUE OF EXPORTS (actuals 8):	60,000	1 070		400 451
FebruaryMarch	. 3		12 12	41/2	1921—February	. 68,222 . 58,335	1,970 1,853	298	486, 454 250, 620
Maich		,	12	-17	May	. 58.045		416	307,569
II. PRICES AND EXCHANGE.		1	ì	1	1921—February. 1922—February. May. August. November	. 60,032	1,676	255	301,775
					November	. 66, 491	1,706	255	380,000 344,324
WHOLESALE PRICE INDEX (relatives 1):		004	1					423	344,324
1921—February 1922—February	226 167		4 500	15 <b>7</b> 146	1923—January February	. 66,939 . 57,510		311	335,894
May	171		4,599 7,384	158	VOLUME OF EXPORTS (relatives 2):	. 01,010	2,020		010,000
May	. 168	298	13,978	165		. 54	87		104
November	. 165		94, 492	164	1922—February May August November	. 67		28	83
December	. 166 167		166, 495	164	May	. 65		34	99 97
1923—January February	170	354	205, 417 715, 881	165 166	November		111	23 25	112
	1	001	120,001	100	December	_! 23	132	29	97
RETAIL PRICE INDEX (relatives 4): 1921February	. 251	382	1,033	158	1923—January February		. 103	21	96
1922—February 1922—February May August	188		2, 209	142	February		. 135		83
May	. 181	317	2,209 3,462	139	VALUE OF IMPORTS (actuals 8):	. 97,010	1,614		214,530
August	. 181	289	7,029	139	1921—February 1922—February	69,375		360	215,743
November December	. 100		40,047 61,156	145	May	. 88,814	1,810	565	252,817
1923—January	178		103,400	147 144	August	. 82,661	1,960	545	
February			240, 800	142	November	. 95,600	2,348	536 590	291,906
Foreign Exchange (per cent of par 5)			1	1	December	. 94,912 . 99,700		564	293,464 319,000
1921—February		37.17	6, 884		February	. 83,855	2,343		
1922—February	. 89.63	45. 24	2.020		VOLUME OF IMPORTS (relatives 9):	1	1		
May	. 91.36		1.444		1921—February	. 71			130
August November	91.74		.415		1922—February	- 80		24	183
November December	. 92.06 . 94.73		.058		MayAugust	. 92		63 77	178 194
1923—January			.031		November		. 124	75	204
February	. 96.39	31.84	. 016		December	.) 86	132	71	224
March	. 96.49		.020		1923—January		. 112	78	
	1	1	1	1	11			l .	1

<sup>1</sup> A full explanation of this table, including a list of the sources employed, appears in the BULLETIN for February, 1923, pp. 182-185.
2 Amounts stated in millions of pounds sterling, millions of francs, billions of marks, and millions of dollars.
3 Monthly average in 1913 is taken as 100, except for Germany, where July, 1914, is used.
4 United Kingdom and France—July, 1914=100; Germany—Oct. 15, 1913—June 15, 1914=100; United States—1913 average=100.
3 1913=100.
4 United Kingdom—percentage of unemployed in insured trades; France—number of unemployed in the city of Paris; Germany—number of applicants for every 100 available positions; United States—an index of employment in 12 representative trades, 1919 being taken as 100.
4 United Kingdom—total net ton miles during the month, expressed in millions; France—average daily number of freight car loadings; Germany and United States—total number of freight car loadings during month, expressed in thousands.
4 Amounts stated in thousands of pounds sterling, millions of francs, millions of gold marks, and thousands of dollars.
5 1913=100. Figures for United Kingdom refer to quarterly period.

causing a decline of franc exchange in January and a corresponding rise in commodity prices. In February, however, the sudden increase in exports, occasioned probably by the extreme decline in the exchange, resulted in virtually balancing the foreign trade. This effectually checked the decline of the exchange, and in the middle of March the franc showed a sharp advance, which brought about declines in the prices of raw materials and in security values. During the period of advancing prices business in France has been very active, and it is too early to determine whether the recent rise of the franc will be reflected in a general decline in prices, and if so whether such a decline would result in a setback to French business.

# RECENT PRICE MOVEMENTS IN THE UNITED KINGDOM AND FRANCE.

The general course of wholesale prices in the United Kingdom and in France since 1920 is familiar to readers of the Bulletin. Changes in the business situation in these countries have also been set forth from time to time in these pages. But the departure of the European countries from the gold standard obscures the relation between British, French, and American price movements and the connection between prices and the business situation. How are paper pound and paper franc prices, gold prices here and abroad, and foreign exchange interrelated? And what is the bearing of these movements upon the business and industrial conditions prevailing in each country? These are the questions upon which the present article will attempt to throw some light.

Before the war price levels in different countries were kept in close correspondence with one another through the movements of gold and commodities between countries. Falling prices in one country tended to attract buying power in the form of gold from abroad, leading to increased exports of commodities, and tending to raise prices by creating shortages of goods or by bringing about credit expansion based upon the newly imported gold. Conversely, if prices were rising in one country, it became increasingly profitable to purchase goods in foreign markets, thus leading to greater exports of gold and imports of commodities, which tended to stop further price advances. So long, therefore, as the gold standard was generally maintained, any deviation of prices in a single country from the prices at which similar goods could be bought elsewhere soon set in motion forces tending to bring prices in all countries to the same level in terms of gold. Just how completely this tendency was worked out it is impossible to say accurately, but it is probable that, allowing tions and the stability of their currencies.

for the effect of such barriers as tariffs and transportation costs, an approximate equality of general price levels was commonly attained.

Now that the currencies of most countries have departed more or less widely from the gold standard, the problem of international price relationships is complicated by the fact that prices in different countries are quoted in a variety of monetary units which are constantly changing in value with reference to gold and consequently among themselves. The enormous gold movements which were taking place until recent months have acted primarily, like other commodity movements, to reduce the adverse trade balances of those countries which exported gold rather than immediately to reduce their price levels. Gold does not function, as formerly, as a regulator of international price movements. Prices throughout the world still tend to adjust themselves to a common level of gold prices, but such adjustments of prices between countries are now effected through the movement of commodities.

Under present conditions, therefore, it is the foreign trade in commodities, influenced by relative prices in different countries, which tends directly and through the medium of rates of foreign exchange to bring prices everywhere to an equivalent basis. The adjustment of international prices to a common gold basis, however, was only approximate even before the Now that such adjustments depend upon the exchange of certain commodities between different countries, with all the barriers and delays which hinder the effective operation of the demand for and the supply of goods, and upon an exchange market influenced by innumerable speculative factors, maladjustments of prices and foreign exchange between countries may be great. Under these conditions the extent of the adjustment between the price levels of any two countries depends upon the closeness of their trade rela-

## WHOLESALE PRICES IN UNITED KINGDOM.

In the case of the United Kingdom we have a country closely linked to the United States by ties of trade and similarity of financial system. How and why, then, has its recent industrial and price history, particularly during the last year, differed from that of this country? How great has been the actual difference in price levels; to what extent is this responsible for the contrast in business conditions; and what of the relative adjustment of prices within the two price systems? In considering these questions it is proposed first to describe the relative course of prices in the two countries, allowing for the effect of a depreciated currency and fluctuations in exchange; and then to seek an explanation of the recent divergencies of business conditions in the two countries, so far as such an explanation can be found in

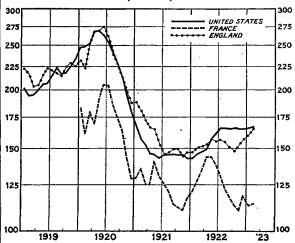
the relationships of prices.

The movement of British wholesale prices since 1919, in terms of the pound sterling, has been roughly parallel with that of prices in the United States, but on a much higher level, except for a lag in the decline in 1919 and the absence of a marked rise during 1922, such as occurred in this country. The Statist, Economist, and Board of Trade index numbers agree with the Federal Reserve Board index in showing a steady and rapid rise of prices from March, 1919, to the spring of 1920 (although they differ as to the date of the peak), an equally rapid fall until the spring of 1921, a more gradual fall during 1921, and a period of comparative stability during 1922, with an uneven tendency to rise up to June and then to fall slightly. figures for January and February, 1923, in all cases show a definite though slight rise to a point near the mid-year peak. Whether this represents a temporary fluctuation or the beginning of a longer upward movement of prices will be determined by the course of business activity in England, conditions of foreign trade, and the influence of foreign price movements.

### COMPARISON OF BRITISH AND AMERICAN PRICE LEVELS.

The way in which price movements in different countries are related to each other in the absence of a common gold standard is pointed out above. The purchasing power of any monetary unit in different countries is equalized, so far as it is equalized, through the ized, so far as it is equalized, through the movement of commodities, just as its gold value is equalized through exchange movements. Thus, the purchasing power of the movement of commodities, just as its gold value is equalized through exchange move-

CHART I. INTERNATIONAL PRICE INDEX, GOLD BASIS. 1 [1913 = 100.]



pound sterling in England is related to its purchasing power in the United States through the buying and selling of goods, just as its purchasing power in terms of gold in the two countries is equalized by the buying and selling of sterling or dollar exchange. In so far as the same factors affect these two, the prices of commodities and the price of gold in terms of pounds, we can properly compare price levels in the two countries by the reduction of the British price index to a gold basis. The index of British gold prices, shown graphically in Chart I, is computed by multiplying the Federal Reserve Board index for Great Britain by the rate of sterling exchange expressed as a percentage of par. There is but one difference between such a comparison and a similar study of relative prices under pre-war conditions. When both countries were on a gold standard, variations between the two price levels were due solely to factors affecting prices, while they are now sometimes ascribable to other factors which influence exchange rates directly.

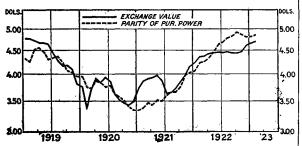
From the graph of the course of gold prices in Great Britain and the United States since 1919, it may be seen that the British price level has approximated the American during these years. The chief divergencies are the higher peak of the British curve, its more gradual decline, and its lower level after the rise in American prices in 1922. Except for these and other slighter variations, the fluctuations in the exchange rate have just counter-

acted the depreciation of the pound in terms of commodities as compared with the dollar. They have kept the internal and external value of the pound nearly equal.

### PRICES AND EXCHANGE.

The question remains whether the variations in the two price levels in terms of gold have been due to actual price movements or to exchange movements. One way of determining this question is through a comparison of the actual course of sterling exchange with the course of a theoretical exchange rate (the purchasing power of the pound) computed from relative prices in the two countries and the par of exchange. Such a comparison is made in Chart II. Until January, 1921, the English price level rose relative to the American level and since then has been falling relative to it; while sterling exchange rose and fell similarly until the positions of the two were actually reversed in October, so that sterling exchange would have had to be above par to equalize the two price levels.

CHART II. THE POUND STERLING.



Up to the beginning of 1921, \$4.86 would have purchased a larger quantity of a general assortment of commodities in the United States than in England, but at the average prices of that month that sum would have purchased more in England. The differences between the actual and theoretical exchange rates are due either to special influences operating upon the exchange rate and not affecting prices, such as political news, or to influences affecting prices in one country and not the other. The relative sharpness and permanence of the movements of exchange and of purchasing power parity often suggest which set of the influences above mentioned is responsible. The rapid rise of exchange in the first half of 1921, for example, from \$3.49 to \$3.98, seems to have been dictated by the heavy exports of gold during these months.

either English or American prices to account for it. Such a discrepancy between the external and internal value of the pound could not continue long, however, and the exchange rate fell as rapidly as it rose until it approximately equaled the purchasing power of the pound in terms of dollars. High exchange evidently reacted upon prices during this period, facilitating the decline of English prices relative to the American level, but exchange moved upward faster than prices downward. It is this exchange movement which is responsible for the check in the fall of English gold prices as shown in Chart I, and obscures the fact that actual English prices were falling relative to American prices at this time. Similarly, the sharp fall of English gold prices in February, 1920, as shown on the chart, was due not to a price but to an exchange movement.

On the other hand, the fall of English prices relative to American prices in the third quarter of 1922 took place in spite of the stability of exchange during this period and is traceable to the diverse influences under which American prices rose and British prices did not. has been pointed out before in these pages, this divergency is one of the causes of the recent rise in sterling exchange. In spite of this exchange movement, which would naturally tend to encourage buying in the United States and discourage buying in England, English prices are now moving upward while American prices are remaining fairly stable, and the theoretical rate of purchasing power parity is falling to meet the actual exchange rate. From such instances it would seem that the course of sterling exchange has comparatively slight influence upon prices, but rather is itself eventually adjusted to the price situation. Therefore, in order to understand the recent divergencies of the English and American prices, it is necessary to study the business, industrial, and trade factors differently affecting them, just as was the case before the war.

As a matter of fact, the variations between the two price levels on a gold basis in the last four years do not seem to have been generally very much greater than such as occurred during pre-war cyclical movements, so far as previous analyses of these movements show. It must be remembered that our comparison is based upon the assumption that in 1913 the two price levels were nearly identical, an assumption which the facts, so far as known, seem to justify. If this were found to be untrue, however, it would be necessary to rather than by commodity price influences, allow for the variation at that time in making for there was no such sharp movement of later comparisons. Moreover, it must be

remembered that equality of price levels does not mean equality of prices of the same commodities or groups of commodities. This last is particularly true when price levels are kept in contact by means of goods rather than gold movements, for a change in one country's level makes itself felt first and most vigorously upon the prices of commodities most commonly traded in and affects very slowly, if at all, commodities produced and marketed locally. the Federal Reserve Board indexes of cotton prices for England and the United States show a very nearly perfect correlation, the former rising proportionately but earlier than the latter in 1921–22. The prices of steel are much less closely correlated, the American price rising sharply from March, 1922, while the English continued to fall until December. In the case of sheep, as an example of commodities which are exported and imported by neither country, it is difficult to trace any definite relation between price movements in the two countries. It is the influence of certain world trade commodities like cotton which gives similar form to the general price movements in the two countries, while others more subject to local causes account for the differences. To understand the significance of these differences, it is necessary to go behind the general price levels and observe the relation of actual price movements to business conditions.

# PRICES AND BUSINESS CONDITIONS.

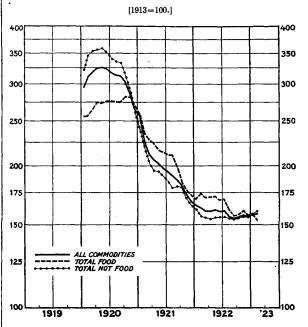
It is common knowledge that 1922 has been a period of inactive business and excessive unemployment as well as price stability in England, while in the United States increasing business and industrial activity has preceded and accompanied rising prices. The production of basic commodities in Great Britain, the volume of her internal trade as evidenced by banking and transportation figures, the profits of business concerns, and the quantity of her foreign exports and imports have all been far below pre-war standards, and it has been common to link up this situation with the course of Eng-Yet all reliable evidence goes to lish prices. show that the decline in the English price level was arrested over a year ago and that a period of stability, such as is usually considered to be conducive to healthy business and industrial conditions, has ensued. What is there in the price situation, if anything, to prolong the period of business depression in the United Kingdom? One source of difficulty may lie in maladjustment within the price system.

Stability of price level, of course, does not necessarily mean stability of the prices or relations between the prices of individual commodities or groups of commodities. recent period of a stable price level in England, as shown by price indexes, has, of course, been a period of continually changing prices. Cotton has risen sharply, for example, as have rice, rubber, lard, sugar, wool, and sheep; coffee, kerosene, gasoline, brick, and cement, among others, have fallen; various other commodities have fluctuated back and forth. In so far as the depression of business is related to prices, it may be the fault of price movements within the price system, as well as of general price movements. Profitable business and active trade require the proper adjustment of prices to each other and to interest rates, wages, and other incomes. Industrial inactivity is generally traceable to some mal-adjustment of these.

A previous article, in the January issue of the Bulletin, has examined the relation between prices and certain costs of production, and between wholesale and retail prices. The present discussion will confine itself to the relations between the wholesale prices of certain commodities and groups of commodities. In order to reach definite conclusions from such a study it is necessary to make use of some tests or standards of correct price relationships. The only tests available are a comparison of the present situation in this regard with previous periods and a comparison of price changes with movements in production and trade. The latter is difficult because of the lack of detailed statistical data. As to a standard drawn from pre-war conditions, it is probably inaccurate to assume that normal price relationships now would be the same as those of 1913, for example. Changes in relative costs as well as markets have taken place, which may make necessary an adjustment of industry to a new system of prices. Nevertheless, some significant observations may be made, first, as to the fluctuations which have taken place in the prices of certain groups of commodities relative to each other, and, second, as to the relations between these prices and the volume of production and trade.

Relative prices of groups of commodities.— The Board of Trade group index numbers, plotted in Chart III, show that food prices were much higher than the general level during the high-price period and other commodity prices much below it, but that their positions were reversed after the end of 1920, so that food prices exceeded the general level. During 1922 food prices fell, however, and other prices rose so that the two groups were practically equal at an index of 157 and 157.3, respectively, in January, 1923. Thus, they had returned to the 1913 relationship. If that constitutes a normal situation under present conditions, considerable progress was made last year toward a proper price adjustment between food and other prices. Within the food group, however, there have been wide fluctuations and the year 1922 ended with the relative prices of meat and fish considerably above those of cereals, which had fallen below the general price level. This is the reverse of their relation at the time of the 1920 price peak, and accounts for the disadvantageous position of grain farmers in Great Britain, as in the United States.

Of the other commodities, not food, textiles were relatively high priced during 1922 as in 1920, and they still remain above the general level with cotton leading. It is the metals and minerals which bring the "other than food" index down, with iron and steel lower than other metals and minerals, whereas it far exceeded them before 1922. Iron and steel prices have risen definitely in January and February, but the close approach of the food and "other than food" groups to each other, which is noticed. which is noticeable since September, results chiefly from the rise of textiles, especially cotton, and the continued fall of cereal prices. So long as foreign demand for textiles is sustained both of these movements are advantageous to a country in whose industry textile manufacture plays such a large part, while she must import the greater part of her cereal They further aggravate the departure of these prices from their 1913 relationship, however, and raise the question whether a return to that relationship is to be expected. It is notable, in this connection, that according to the group indexes computed by the Bureau of Labor Statistics for the United States, food prices have been continually below the general price level and have risen less rapidly than the latter, while cloth and clothing prices have risen more rapidly; so that the recent relative movements of these groups of commodities have been similar to their movements in England. The prices of metals and metal products in the United States, unlike the corresponding English prices, rose throughout 1922 CHART III. BOARD OF TRADE PRICE INDEX.



England have risen very sharply. In general, this comparison indicates that while in some respects English prices have tended to return to their 1913 relation, in many instances they are still far from it, and tend rather to follow the adjustments which have taken place in the United States.

Prices and production.—In the United States, it will be remembered, production and general business activity began to improve some time before prices generally commenced to rise. What reliable information is available as to business conditions in the United Kingdom shows that there was some progress toward more active business there during 1922 without any consistent rise in prices. By December the number of insured unemployed had dropped to a quarter of their number a year before and bank clearings had increased perceptibly; but general prices were still below what they were in June, 1922. In the United States, steel prices began to rise about six months after pig-iron production began to increase. Iron and steel production in England had been increasing for a year and a half before the recent rise in steel prices. Coal production, interrupted by the strike in the spring and early summer, has risen rapidly since August. Unfortunately, production figures for the most even more than the general price level, but important products of British manufacture are in the last two months iron and steel prices in not available. Since business and industrial

conditions in Great Britain are so peculiarly dependent upon foreign trade, however, the relations of the volume of that trade to prices is of the greatest significance, and detailed trade statistics are gathered and published regularly.

Prices and foreign trade.—The relation between the depressed character of British trade and the prices of her goods may be seen by the following comparison of the relative quantities of certain groups of imports and exports and their relative prices as computed by the Board of Trade Journal.

The table below shows the average quantities of goods entering into British foreign trade during 1921 and 1922, relative to the average quantities in 1913 taken as 100.

RELATIVE QUANTITIES OF COMMODITIES IMPORTED AND EXPORTED BY THE UNITED KINGDOM.

	[1913	=100.]					
	Imp	orts.	Reex	ports.	Exports.		
Groups.	1921	1922	1921	1922	1921	1922	
Food, drink, and tobacco	93.3	99.5	139.8	106.6	48.9	52.7	
mainly unmanufactured.	64.9	80.8	74.6	85. 2	45.1	94.7	
Articles wholly or mainly manufactured	59. 0	72. 4	53. 4	59.8	50.7	66.5	
Total	74.3	85.8	78.6	81.5	49.8	68.9	

In 1921 exports were very much less in proportion to their 1913 volume than reexports or imports and although they gained more than the latter last year, they were still only 69 per cent of their pre-war quantity while imports amounted to 86 per cent of the 1913 figure. When we observe the composition of this trade, we see that the high figures for imports and reexports are due chiefly to the relatively large quantities of food and of raw materials which entered into trade. The quantity of manufactured goods was low throughout. Among exports the volume of food, raw materials, and manufactured goods was about equally reduced in 1921 but in 1922 raw materials more than doubled in volume while other commodities increased only moderately. Since manufactured goods make up the bulk of England's exports (78 per cent in 1913), their small quantum of the control of the c tity has been the chief factor keeping down the volume of her total exports. Her food exports, which have also remained small, are themselves chiefly products of manufacturing processes, while the food imported and reexported, the volume of which has been near or above their pre-war level, consists largely of products | above those of exports in September and the

in their natural state, such as grains and animals. Thus it is apparent that the low state of English trade is due chiefly to the low state of demand for manufactured goods, on which her industrial activity so largely depends. From the following analysis it will be seen that this diminished demand is due at least in part to the disparity in price between the articles which Britain sells and the commodities with which her customers must pay.

The table below shows the average prices of goods entering into British foreign trade during 1921 and 1922, relative to their average prices

in 1913 taken as 100.

RELATIVE PRICES OF COMMODITIES IMPORTED AND EXPORTED BY THE UNITED KINGDOM.

[1913 = 100.]

C	Imp	orts.	Reexports.		Exports.		
Groups.	1921	1922	1921	1922	1921	1922	
Food, drink, and tobacco	205. 9	160. 9	133.1	125.6	225. 9	203. 5	
Raw materials and articles mainly unmanufactured.	154.9	136. 7	105.3	101.5	212.9	162. 8	
Articles wholly or mainly manufactured	206.5	157. 9	168.9	152.0	280. 2	207. 0	
Total	190.3	152. 2	124.3	116. 2	268.8	199.1	

This price table shows that the prices of manufactured goods have been generally above the level of the prices of other goods, particularly raw materials, and that this is most notably the case among exports. It would seem that under the character of demand that has been existing the prices of these goods have been much too high. This is quite consistent with the 1922 rise in prices of American exports, still chiefly consisting of unmanufactured goods, partly in response to a growing foreign demand. Countries impoverished by the war, while unable to buy highly finished articles, still demand the essential foods and materials for their own reviving industries. Under these conditions, it is encouraging for British trade that the average 1922 prices of manufactured articles showed considerably more of a decline from the 1921 prices than those of the other articles of trade, and that the prices of her exports fell in comparison with those of her imported goods. The Federal Reserve Board index also shows a discrepancy between the prices of British exported and imported goods during 1921 and 1922, although not to such a marked degree. According to this index, the prices of imported goods rose prices of the two groups are now near their 1913 relationship. This is a movement in the direction of a more satisfactory adjustment of prices and one that is aiding toward a recovery of British trade, judging by the improvement of its volume in 1922 over 1921. Whether a complete return to pre-war conditions is possible depends upon the growth of demand for British products which the disturbed state of her markets permits, and the reduction in prices which her costs of production will allow. It is evident that the price relationships of 1921 and 1922 have had an unfavorable bearing upon British foreign trade.

The conclusions from this survey of price relations within the English price level during the last few years are rather indefinite. There is a tendency toward an adjustment of prices on a pre-war basis in some respects, while in others the tendency seems to be to approximate the American price relationships, which are quite different from those of 1913. The very definite improvement in industrial and business activity in the United Kingdom indicates that there has been some progress toward an adjustment of prices which will make business again generally profitable.

#### WHOLESALE PRICES IN FRANCE.

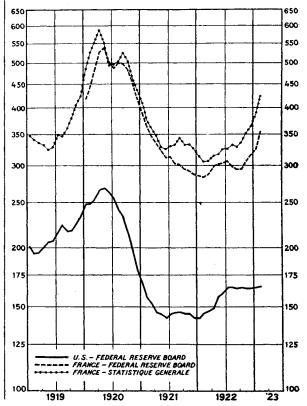
The movement of French prices, which was parallel to that of England and the United States from 1915 down to the middle of 1922, has since that time shown a tendency distinctly divergent from either. French prices have continued to rise sharply after British and American prices, especially those of raw materials,

virtually ceased to advance.

In both France and the United States prices declined for a brief period after the armistice. Then, in April, 1919, prices turned upward in England and the United States, followed in June by those of France. The upward movement in France continued until April, 1920, according to the index of the Statistique Générale, or until May, by the Federal Reserve Board index, in which month the peak was also reached in England and the United States. (See Chart IV.) From that date French prices fell rapidly to February, 1922, though the low point for the United States had been touched eight months before (June, 1921), and was not reached in England until eight months later (October, 1922). Prices in the United States started upward in February, 1922, rose steadily until July, since when the price level as a whole has shown almost negligible fluctuations. French prices started upward in March, 1922, one month after the American movement began, and have since that time risen almost without interruption. In February, 1923, the American index was one point above the figure of July, 1922, the British index was one point below its July figure, while since that date the Federal reserve index for France shows an advance of 44 points and that of the Statistique Générale 97 points. For the first time since 1915 French prices show a sustained trend radically different from those of the United States.

The study of prices in the United States during recent years is a study of the relation of the value of commodities to gold. In England it is the study of the relation of commodities to a currency which, having left the gold standard temporarily, has nearly returned to it. In France it is the study of the relation of prices to a currency which departed from the gold standard further than did that of England, and has as yet been unable to make headway in returning to it. The index number of commodity prices in France measures not only the

CHART IV. PRICES IN FRANCE AND THE UNITED STATES.
[1913=100.]



depreciation of gold in terms of commodities since 1914 but also the depreciation of the franc

in terms of gold.

Prices derive their sole significance from their relation to other prices, either within or without the country considered. The price of raw materials in France has been and still is above the price of other groups, while the general price index, stated on a gold basis, is far below the level of world prices. In these two facts are to be found the reasons why the index in France has continued to rise rapidly in recent months while the price levels of England and the United States have shown only minor changes.

# RELATIVE POSITIONS OF PRICE GROUPS IN FRANCE.

The index of the Federal Reserve Board offers a means of studying the relation of internal prices to each other, as three of its groups show the prices of commodities at stages of the process from production to distribution. The three groups are those of "raw materials," "producers' goods," and "consumers' goods." Since January, 1920, the "raw materials" index has been above the general average, that of "producers' goods" has always been below the general index, while the "consumers' goods" have several times crossed the general index, and have usually tended to remain close to it. A study of the index numbers for recent months shows, as might be expected, that the raw materials index forecasts by several months the movements of the group of "producers' goods," while the latter is from four to eight months ahead of the "consumers' goods." In March, 1922, the "raw materials" group, already considerably above the general index, began a long rise which still continues. In June this movement had been communicated to the "producers' goods," but not until November was its influence shown in "consumers' goods." At present all three groups are moving upward together. It is the price of "raw materials" which eventually determines the price of "producers' goods" and the price of "consumers' goods," and the course of all three together determines the general movement of prices.

French prices in general have risen, therefore, because of the rise of raw materials in France, and raw materials prices in France first rose because their world or gold price rose and later because since April, 1922, French exchange has undergone an almost continuous decline in

terms of gold. To put it more concretely, the world price of raw materials rose in terms of dollars, and when this advance was arrested in August, 1922, the rise continued in terms of francs, because French exchange continued to decline.

# THE RELATION OF FRENCH PRICES TO WORLD PRICES.

Although France, like the United States, and unlike Germany and England, is a self-contained country, its price movements are controlled by world price movements. As the foreign trade of France is only a minor fraction of its total business, it is necessary to explain in some detail the manner in which world price movements are communicated to French price movements.

The prices of the great basic raw materials are determined in world markets. The price of wheat is fixed in the primary markets of Chicago and Liverpool; of wool, in Boston and Bradford; of copper, in New York; of cotton, New York and Liverpool; of sugar, New York. France must purchase all her cotton abroad, but only a part and often only a small part of her requirements of most other raw materials. The world market sets the price of those produced at home as well as those which may be or must be purchased abroad. For instance, wheat is produced all over the world and is universally in demand; France raises nearly enough for her needs, though there is usually a marginal requirement to be met abroad. If the price of native French wheat should rise above the level of comparable grades in the world market, the latter would be drawn into the country; if French wheat should drop below the world price, buying from abroad would immediately bid it up unless the supply of the cheaper French wheat should be great enough to depress the world price to its own level. This equalizing process would obtain even if France raised exactly the amount of wheat, or wool or sugar required by her own needs, provided no embargo was laid on the movement of those commodities. This assimilation of the French price of raw materials is no less true of wheat, of which France produces most of her requirements, than it is of cotton, entirely an imported commodity. The situation is quite comparable with that of the United States. Only a small percentage of the American wheat aron is actually as small. wheat crop is actually exported, but the price

entire crop. There are a few exceptions to this rule in France, as in the case of wine, which France produces in great quantities and for which there is no world market, properly speaking. The free movement of a heavy commodity like coal is affected by transportation costs, and in other cases tariff restrictions may be an important factor. But in general the basic raw materials tend toward a common gold price all over the world. A movement in that gold price is almost instantly communicated to the markets of the world in terms of

their various exchanges.

A comparison of the indexes of raw materials in France and the United States shows their relation distinctly. The price of raw materials began to rise in the United States with September, 1921. The same month the raw material index of France registered an advance. But while prices of raw materials in the United States continued upward, in France they inclined downward until February, 1923, after which they too turned upward, parallel with the American movement. But in the United States raw materials reached their peak in August, 1922, since when they show little change; while in France they have continued to rise sharply. These movements, apparently contradictory, are easily explained. From August, 1921, to August, 1922, raw materials were advancing in their primary markets, but at almost the same time that raw materials were rising the franc began to rise in New York, and rose even more rapidly, in terms of dollars, than did the price of raw materials. Put another way, the dollar was declining in terms of raw materials, but it was declining still more sharply in terms of francs. For several months the rise in the franc, occasioned by trade conditions and stimulated by bullish speculation and by the loans floated in New York and London, was able to counteract the advance in the rising gold prices of raw materials; and the price of raw materials in France actually declined. But by May, 1922, the factors which had moved French exchange upward had exhausted their power, and French exchange began the long decline, which, except for the brief rally in December, 1922, continued through February, 1923. Simultaneously, the price of raw materials in France began to advance.

### FRENCH PRICES AND EXCHANGE.

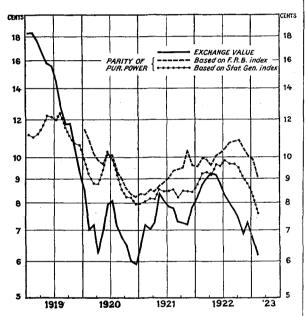
It is through raw materials, whether actually | balance against France, the supply of comproduced at home or abroad, that the exchange | mercial bills has greatly exceeded the demand,

exerts its heaviest influence on French prices. But the exchange is merely the statement of the external value of the franc, while the price index is the expression of its internal value, reflecting, as was stated above, the depreciation of French currency in terms of gold and also the depreciation of gold in terms of commodi-The primary cause of the depreciation of the currency in terms of gold is, as everyone knows, the enormous increase of the note circulation. But for nearly two years the note circulation has remained virtually on a level, and during most of that period the level of internal prices showed only moderate fluctuations. Meanwhile, the external value of the franc has gone through a series of very wide movements. This raises the question of the relation of the internal value of the franc to its external value. In the first place, it may be said that the internal value of the franc limits the fluctuations of its external value. As long as the franc retains, say, one-third of its pre-war purchasing power at home, franc exchange could hardly drop to and remain any length of time at 1 cent; nor could it rise to and remain even for a brief period at 15 cents, for example. The quantity of French purchasing power having remained about constant during the last two years, French exchange has during most of the period remained in a zone between 6 cents and 9 cents, but at no time since 1920 has the exchange gone high enough to touch its purchasing-power parity. (See Chart V.) This fact forms an interesting contrast to the case of England, where the exchange has several times crossed its purchasing-power parity, and until recent months has usually remained above The situation in France is, rather, comparable to the case of Germany, where the disparity between the internal and external value of the mark is a familiar phenomenon.

While the internal value of a currency in France limits roughly the zone of French exchange and the purchasing power parity indicates the approximate location of this zone, the actual rate of exchange will depend entirely upon the supply of and demand for French bills of exchange. This supply and demand emanates from five possible quarters—merchants or others engaged in actually buying or selling commodities or services, speculators, financial interests desirous of artifically enhancing or depressing the exchange, tourists, and security holders. Owing to the large trade balance against France, the supply of commercial bills has greatly exceeded the demand.

though at certain seasons pressure on the exchange from this side is heavier than at Speculators buy and sell hoping to guess the course of a market whose real trend is determined by fundamental factors; such operators do not cause movements, but they often exaggerate them. The most conspicuous example of an artificial bolstering of the exchange occurred during 1918, when it was "pegged" somewhat below par. Another instance of interference with the normal trend can probably be found last spring at the time of the large loans floated in England and the United States. Although the main purpose of these loans was quite different, they actually imparted to the exchange a brief artificial

#### CHART V. THE FRENCH FRANC.



strength. Tourists are an important source of demand for francs and are one of the most important factors influencing the exchange, especially during the spring and summer. The necessity of meeting the interest and dividend payments of security holders is another factor, though the influence of buying or selling for this cause is unascertained. But the outstanding fact is that the French exchange since 1920 has always been below its purchasing-power parity, and this indicates that up to the present the greater insistence has come from those who supplied French bills of exchange than from those who demanded

one way or another must be equalized and for every seller of exchange there must be a buyer; exactly as for every stock sold in the security market there is a buyer. The trend is determined by the relative insistence of buyer and seller.

If the rate of exchange were stable at its purchasing-power parity, whether that were 3 cents or 16 cents, the American seller and the French buyer of commodities would be on an equality. But with the actual exchange below its purchasing-power parity, the French buyer in the world market, or specifically, in the American market, is at a great disadvantage.

The course of the price of wheat and cotton illustrates concretely the effect of this situa-Wheat is an example of a commodity whose price in the primary market has changed only slightly in the past year. It is also a commodity, as was mentioned earlier in this article, whose price is set in a world market, though most of the wheat consumed in France is home grown. Cotton, which advanced sharply in price during the year, is an example of a commodity not produced in France. Its price, in France, will therefore illustrate the effect both of a rise of the gold price and of the decline of the franc. The price of wheat will, on the other hand, illustrate the effects of a nearly stable gold price on a home-grown commodity, in a period of declining exchange.

As February, 1922, was the last month in which the temporary rise of French exchange was powerful enough to counteract the rise in the dollar price of raw materials, it will serve as a base. In that month the price of upland middling cotton in New Orleans was \$0.1647 a pound; in February, 1923, the price was \$0.2912. Taking the former figure as 100, the price of cotton in the United States, the primary market, rose to 176.8. In the same period at Havre it rose from 246 francs per 50 kilos to 572 francs; that is, from 100 to 232.5. Of this advance of 132.5 points, 76.8 may be said to represent the decline of the dollar in terms of cotton and 55.7 points to represent the effect of the decline of the franc in terms of the dollar.

The situation of wheat illustrates another phase. The price of wheat (No. 2 red winter, cash, Chicago market) in February, 1922, was, \$1.3816 per bushel; in the same month in 1923 it was \$1.36 per bushel. This represents, in the American wheat, a decline from 100 to 98.4, a conspicuous drop in view of the general advance in commodities. In the same period them. Of course, in sum, supply and demand | French wheat (native, red, Chartres market, a

grade comparable though not identical) rose from 67.06 francs per 100 kilos to 90.50 francs; that is, from 100 to 134.95 in terms of francs, but exchanged into dollars at the average rate of the respective months it indicates a real decline from \$5.85 per 100 kilos to \$5.56, a course similar to the trend of the grade of American

wheat compared.

While cotton was advancing from 100 to 232.5 and wheat from 100 to 134.9 the general average (on a February, 1922, base) rose only from 100 to 124.7. These figures illustrate how a decline of the franc can force above the general index not merely the prices of imported raw materials but of home-produced raw materials, even when the world price has actually declined. They further explain why, almost solely as a result of the exchange, the price of raw materials in France has continued to advance for half a year after the raw materials index of the United States stopped rising.

#### EFFECT OF THE CURRENT PRICE MOVEMENT.

The initiation of the present price movements in France was caused by the rise in the world price of commodities, especially raw materials. Its continuation and exaggeration in France is due to the influence of an exchange which has declined so far below its purchasing power parity as to make the gold index of France for February, 1923, almost 30 per cent lower than the American price level. (See Chart I.) It might be expected that this would occasion a flood of French exports, and, in fact, there has been a notable increase in recent months. Nevertheless, French foreign trade labors under two handicaps, the high cost of raw materials bought with depreciated currency, and especially the difficulty of determining costs and fixing prices in a currency subject to wide and rapid fluctuations in both directions.

French exchange has declined steadily for nearly 10 months, with only one brief re-In the past these declines have covery. always been followed by more or less sustained advances. A half-cent rise in the franc could change the result of the most carefully planned transaction between France and America from profit to loss for one party or the other. Further, the building up and organizing of a general foreign trade require considerable time. Connections must be established, credit facilities arranged, and the exact nature of the market ascertained.

All of these advantages most French producers lack. Before the war France was not a great exporting country, and even at present it is a practical question for the average French producer whether it is worth while to go to the expense of holding up an export organization which a movement of the exchange might render unprofitable almost overnight. But the remarkable increase in French exports in December and February shows how quickly French trade responded to the low exchange rates pre-

vailing in November and January.

While the French export trade has been able to profit considerably from this situation, domestic business has enjoyed those uncertain benefits that come in the early stages of a rapid upward price movement. Industrial stocks on the Bourse have gone up, companies fortunate enough to have accumulated large quantities of raw materials at lower levels have seen their inventories increase in value, and all producing concerns have been actively employed. Curiously enough, the French farmer has found his condition improved by the very cause that has marked the disadvantage of the American farmer. namely, the fact that the price of wheat is set in a world market. For while the price of his wheat in dollars has not advanced, the depreciation of the exchange has lifted the franc-value of his crop above the general price level.

The full effect of this rise in raw materials has not yet reached consumers' goods. Except in a few instances, such as sugar and to some extent textiles, it is doubtful if it has made itself felt in retail markets. It remains to be seen whether or not the French public will be able to purchase freely at such a retail price level as is indicated by present prices of raw materials. If it can not, in one way or another prices will settle to a level at which the public

can buy.

The index of raw materials in America reached its peak in August, 1922; that is, the gold price of the commodities composing it has not since risen. But raw materials have continued to advance in France, because the franc has been continuously declining in gold The recent rise in French raw matevalue. rial prices is almost solely a reflection of the movement of the exchange. The French index of raw materials will stop rising when the cause of the rise ceases to operate; that is, when the decline of the exchange is checked. As long as the world prices of raw materials remain fairly stable, the French raw material

<sup>1</sup> This calculation assumes that the price levels in France and the United States were identi in 1913, which is open to question.

index will move almost exactly with the dollar in French exchange. If the dollar begins to decline—that is, if French exchange begins to rise-raw materials whose prices are set in world markets must decline in terms of francs. In fact, a sudden advance in the franc, if that were justified by the condition of the exchange market, would cause so serious a drop in the franc prices of raw materials that such a movement would hardly be welcome to those businesses which are carrying large inventories of raw materials or to the banking interests that finance them.

#### CONCLUSION.

From this analysis of the current price movement in France, two distinct conclusions stand out. The rise was set in motion by the advance in world prices; it has been prolonged by the continuous decline of French exchange. As a result of this decline of the exchange, and in spite of the recent enormous rise in French prices, the gold index shows that the purchasing power of the dollar in France is nearly 30 per cent greater than in the United States. Whether the relation will ultimately be corrected by a movement of the exchange or by a movement of prices, or by a combination of the two, it is impossible to predict.

The price level can not be stabilized until the exchange is stabilized and vice versa. Their relation is reciprocal, since both are statements of what is fundamentally the same thing, the value of the franc. It is sometimes stated that the first essential in the stabilization of the franc is to determine its relation to gold. This would be desirable, but it is difficult to see how that is possible until the relationship of the franc to commodities is more positively defined. The establishment of a fairly well stabilized goods value for the franc would, ipso facto, give the franc an ascertainable gold The free movement of gold would of course stabilize the exchange, for gold is the one commodity that is always acceptable in every country. But it would probably be possible to achieve a workable stabilization of both the internal and external value of the franc, that is, the price level and the exchange rate, long before France was able to return to the free movement of gold.

There are more immediate obstacles to stabilization of price levels and exchange rates than the gold problem. The internal value of the franc can not come to a level until it appears that the French Government can finance its

expenditures without further inflation of the circulating medium. The external value of the franc can not become stabilized until the supply of and demand for French bills of exchange becomes equalized not only in amount but in urgency. Apparently they already are nearly equal in amount, since, for nearly a year France has met her trade balance and other charges without resort to foreign loans and by the shipment of very little gold. To be sure, even after these bills were equal in amount, there would still be a seasonal difference in pressure. In the fall France is a heavy purchaser of cotton and other crops; at the holidays and spring the luxury goods which France exports are in demand and the requirements of tourists strengthen the exchange. But seasonal fluctuations would not necessarily involve the ruinous movements to which the exchange is now subjected; being comparatively small, they could be nearly smoothed out by financial intervention of the sort suggested by the governor of the Bank of France in his annual report.

Given the first essential, namely, the internal stabilization of the franc, the stabilization of the exchange becomes readily practicable, though its perfection would require a little The whole future of French prices and exchange, therefore, is contingent upon whether or not the French Government can avoid further increases of its circulating medium.

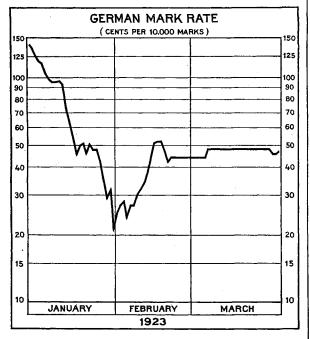
### GERMANY.

### TEMPORARY STABILIZATION OF THE MARK.

In a discussion of stabilization of the German mark it can not be emphasized too much that final stabilization depends mainly upon the settlement of the reparation question, upon the balancing of the budget, and upon foreign trade, and that so long as these questions remain unsolved it is impossible to put German currency on a sound basis.1 It is, therefore, the more interesting to study the temporary stabilization of the mark at a time when the most important industrial district of Germany is economically severed from the rest of the Reich. While it is too early to determine the effects of the present currency and exchange situation upon the business activity of the country, its effects upon credit and especially upon prices are already manifest and will be analyzed in this article.

 $<sup>^{\</sup>rm 1}$  This matter was discussed in detail in the Federal Reserve Bulletin for January, 1923, p. 61.

The decline of the mark from \$1.39 per ten thousand on January 2, 1923, to 21 cents per ten thousand on January 31 was followed by a rapid recovery during the first two weeks in Feb-(See accompanying chart.) On February. ruary 14 the mark was quoted at 44 cents per ten thousand, an improvement of about 40 per cent in two weeks, and with the exception of slight fluctuations during the third week in February, it remained stable at this point until March 6. On this date the mark showed a further improvement, being quoted at 48 cents per ten thousand, a rate at which it was maintained until March 29. On March 31 the mark stood at 47 cents per ten thousand. The improvement of the mark and its stabilization can be



better understood if the causes of its precipi-tous fall are first made clear. The depreciation of the mark during January was not warranted, either by the volume of mark transactions, which was not large, or by any other economic factor. It was the result of a comparatively small, but very insistent, demand for foreign bills in Berlin, and at times of an absolute lack of supply. In short, it was due to a panic among the sellers and a strike among the buyers of German exchange. Under such conditions almost any rate became possible, as many holders of marks threw them on the market at any price. It was when mark exchange reached its lowest point and a in January. Therefore, the statement that

large quantity of marks was accumulated by representatives of German banks in the most important foreign-exchange centers that the Reichsbank started an active foreign-exchange policy.

The exact means used by the Reichsbank in supporting the mark are not known. Sales of gold, however, did not take place, for in the weekly statements issued by the Reichsbank its gold holdings show no decrease. Apparently, it sold foreign bills mainly in New York, though similar transactions took place also in Berlin, Amsterdam, and London. The larger supply of foreign bills was first felt in Berlin, where the market was almost unable to absorb all the bills offered, and an improvement of mark exchange set in almost immediately. Furthermore, the Reichsbank did everything in its power to curb the demand for foreign exchange for speculative purposes. It declined to make advances against foreign bills of exchange and to discount certain finance This, combined with the high cost of bills. money (300 per cent per annum was charged for loans intended for foreign exchange speculation), made speculation in foreign exchange unprofitable and resulted in a slackened demand for foreign currencies. The foreign-exchange policy of the Reichsbank affected the value of the mark indirectly as well as directly. Purchasers of foreign currencies, when the mark was at a lower level, sold them in order to avoid further losses. Thus the supply of foreign bills increased, while the demand for them decreased, for holders of marks were unwilling to sell so long as the mark was on the upward swing. The increased demand for marks from Franch courses may also he for marks from French sources may also be mentioned as a cause of the recovery of mark exchange.

#### FEASIBILITY OF TEMPORARY STABILIZATION.

Temporary stabilization of the mark can be accomplished by the use of a comparatively small amount of gold, and the Reichsbank has at its disposal more than enough gold for this purpose. On January 1 notes in circulation amounted to about 1,300,000,000,000 paper marks, corresponding to approximately 670,000,000 gold marks. At that time the gold reserves of the Reichsbank exceeded the total value of all its outstanding notes by about 334,000,000 gold marks. Under these conditions it would not have been difficult for foreign holders of mark exchange determine the value of the mark and that the Reichsbank would be powerless if the latter should throw their holdings on the market does not seem to be correct. The amount of marks held abroad, if compared with the total amount of notes in circulation at present, is comparatively small and their value in gold almost negligible. The total amount of German bank notes held abroad and the amount of mark deposits of foreigners with German banks at the end of 1921 were estimated by the Reichsbank at between 25 to 30 billion and 35 billion marks, respectively. No estimates are available as to the amount by which these two items increased during the past year. In view, however, of the general attitude of foreigners toward the mark and German securities during the past year, it is not likely that the total amount of notes held abroad and of mark deposits of foreigners with German banks would exceed 100 billion paper marks at the end of 1922. Thus, figured at the January 1, 1923, rate, all marks owned by foreigners amounted to not more than \$14,000,000. Fifty million gold marks would therefore be sufficient to absorb practically all the notes offered for sale abroad and the influence of foreigners on the quotation of the mark could thus be almost entirely eliminated.

Furthermore, the violent decline of mark exchange during January has made the task of stabilizing the mark easier. On January 31, 1923, Reichsbank notes in circulation amounted to about 1,900,000,000,000 paper marks, representing a value of about 140,000,000 gold marks. The total amount of marks held abroad, estimated above at 100,000,000,000 paper marks, thus represents a value of about \$2,100,000 or about 8,500,000 gold marks, which, when compared with the gold reserve of the Reichsbank, is insignificant.

Although the amount of marks held abroad or for foreign account in Germany is very small in terms of gold, and could readily be bought up by the Reichsbank, nevertheless under present conditions the Reichsbank can not for long continue its active foreign exchange policy. For in the long run the exchange value of a currency on a paper basis is determined by the demand for and supply of foreign bills. It is true that the Reichsbank is able to absorb all the marks offered for sale abroad, since this amount increases only comparatively slowly, owing to the fact that practically all imports into Germany are billed in foreign currencies, but this very fact tends to increase the demand only to a fraction of the funds originally bor-

for foreign exchange in Berlin. How great the demand is, even if one disregards reparation payments, may be seen from the fact that during 1922 the balance of trade was more than 2,000,000,000 gold marks against Germany. These figures are only approximate, but they make it clear that in Berlin the demand for foreign bills greatly exceeds the This situation is further aggravated by the French occupation of the Ruhr region, which forces Germany to import foreign coal in increasing quantities. Monthly average imports of coal from England from July to December, 1922, were estimated at about 1,300,000 tons. Due to the extreme decline of the mark during January, the importation of British coal during that month decreased to about 600,000 tons, but it increased rapidly during February, and at present surpasses the average monthly imports for the second half of 1922. The larger imports of coal from Great Britain into Germany have also increased the total value of the trade between the two coun-During the calendar year 1922 Great Britain exported to Germany goods representing a value of £32,000,000, as compared with £18,000,000 in the preceding year. steps the German Government or the Reichsbank will take to meet this situation is unknown. It is worth emphasizing, however, that the large unfavorable balance of trade is, aside from the reparation question, the most difficult problem in the final solution of the German currency question.

## RELATION OF STABILIZATION TO CREDIT AND PRICES.

Effects upon credit.—Despite the temporary stabilization of the value of the mark abroad, domestic currency inflation in February and March proceeded more rapidly than in previous months. On January 6, 1923, the total amount of Reichsbank notes in circulation was 1,336,501,000,000 marks, while on March 7 it had risen to 3,871,256,000,000, an increase of 2,534,755,000,000 marks for the two months. This rise is due mainly to the rapid increase of discounted private notes held by the Reichsbank, which during the same period increased by 1,598,859,000,000 marks. The steady depreciation of the currency and the rising price level cause bankers and business men to borrow increasing amounts from the Reichsbank, for at the time of repayment the value of the liquidated borrowings amounts

While private banks have been able to protect themselves against this depreciation by a progressive commission charge or even in some instances by participating in the profits of the borrower, the Reichsbank was unable to adopt such measures. To curb this great demand for credit the Reichsbank raised its discount rate on January 18, 1923, from 10 to 12 per cent. This increase of the discount rate, however, can have no effect on the demand for credit so long as the open market rate ranges between 40 and 300 per cent per annum. Thus, the Reichsbank was forced to adopt other means to restrict borrowing. One of them was a careful scrutiny of all bills presented for discount and the adoption of the rule that all bills must bear three signatures and have their origin in useful and essential business transactions. Furthermore, Reichsbank established more or less definite lines of credit for all persons and firms seeking accommodation. These measures tended to decrease the amount of bills presented for rediscount, but they were entirely offset by the free discounting of bills of Westphalian industrialists.

The rise of the discount rate of the Reichsbank from 10 to 12 per cent shows how abnormal are credit conditions in Germany. This situation appears even more striking when one compares the bank rate at Berlin with rates prevailing in other countries with highly inflated currencies. These rates, with the dates when they were fixed, are as follows: Germany, January 18, 1923, 12 per cent; Austria, September 4, 1922, 9 per cent; Poland, September, 1921, 7 per cent; Rumania, September 4, 1920, 6 per cent.

When one considers that at the present time the discount rate in England and Switzerland is 3 per cent and in Holland 4 per cent, the contrast with Germany becomes even more striking. The above figures also indicate the extent to which the international money market is disturbed, so that practically no relationship exists between the credit situation and the discount rate prevailing in the different countries in Europe.

Effects of stabilization upon prices.—The breakdown and recovery of mark exchange during the first two months of the year were immediately reflected in the movement of prices. The wholesale index number of the Frankfurter Zeitung advanced from 205,417 on January 1 to 715,881 on February 1, an increase of 348 per cent, while the dollar as expressed in marks increased during the same time by 458

per cent. As usual, prices of commodities based upon imports moved automatically with the foreign exchanges, while those of domestic raw materials and industrial products lagged considerably behind. The relation between prices of domestic and foreign products in a rising market may be seen from the following figures, taken from the Frankfurter Zeitung. The index of 10 typical domestic products (rye, potatoes, eggs, hay, hides, alcohol, bricks, cement, potash, and industrial alcohol) increased during January from 150,657 to 466,558 or about 210 per cent. The index of 10 typical imported commodities (rice, cocoa, coffee, cotton, jute, rubber, copper, tin, maize, and petroleum) increased during the same period from 222,115 to 986,278, or 334 per cent. In many instances the prices of imported goods exceeded the prices in other countries, as may be seen from the following table:

PRICES OF SELECTED COMMODITIES IN THE UNITED STATES AND GERMANY.

[Expressed	in	marks.l

Commodity and market.	June 15, 1914.	Jan. 2, 1923.	Feb. 6, 1923.	Feb. 13, 1923.	Feb. 16, 1923.
Wheat, per quintal:					
New York	14.40	35,644	176, 363	132,313	94, 043
Berlin	14.39	36,033	180,080	139, 510	92, 590
Corn, per quintal:	1	·	,		<b>'</b>
Chicago	11.70	20, 266	108, 532	78,540	56,826
Hamburg	14, 50	31, 200	138,000	124,000	70,000
Lard, per quintal:		,	,		,
Chicago	94.90	176,082	916, 708	652, 796	473, 863
Berlin	119.00	194,010	632,500	475,000	345,000
Flour, per quintal:	120.00	202,010	002,000	2.0,000	020,000
New York	17, 90	44,719	230, 222	163,578	119,538
Berlin	17. 90	45, 321	235,650	172, 920	117, 980
Sugar, per quintal:	11.50	10,021	200,000	1.2,020	111,000
New York	31.90	89,627	451,616	414, 888	275, 897
Berlin	28. 77	89,000	462, 200	340,000	236, 000
Cotton, per kilogram:	20.71	00,000	202, 200	010,000	200,000
New York	1, 24	4,186	23,344	16, 239	12,078
Bremen	1. 28	4, 796	26,003	19, 110	13, 035
Diemen	1.20	2,190	20,003	15,110	10,000
	<u> </u>	l	<u> </u>		

The prices given in the above table are only approximate, mainly owing to the different methods of grading and quoting in the two markets, but they indicate clearly the close relation between prices of imported goods and the exchange rate. In practically all cases prices of such commodities as expressed in marks were higher in Berlin than in New York. The price difference, however, if expressed in dollars, is negligible and reflects merely the additional cost of transportation, insurance, and other minor items. The higher pre-war prices in Berlin as compared with New York were due to the protective tariff of the former German Government.

of 348 per cent, while the dollar as expressed in The improvement of the mark in February marks increased during the same time by 458 resulted in a decrease of prices for the first

time in 20 months. The decline of the general price level, however, was more erractic and much slower than the upward movement of the The index of all commodities of the Frankfurter Zeitung showed a decrease of 5.4 per cent, while the value of the mark increased during the same period about 40 per cent. Imported commodities decreased more rapidly and thus reflected very well the method of price calculation at present prevailing in Ger-Prices, at least of imported goods, are calculated almost entirely in gold or on a dollar basis, and the amount of marks they command depends upon the relation of the mark to the dollar or the "gold mark." Thus, for instance, textiles and leather, which depend upon imports of raw materials, decreased in price by 33.2 per cent during February, moving almost as rapidly as the exchange rate. On the other hand, domestic products or those based mainly upon domestic labor changed in price very slowly, and in most cases did not decline, but even increased. The index of the group of "industrial finished products" and of "mis-cellaneous articles" increased during February 15.7 and 30 per cent, respectively, despite the rapid improvement of the mark abroad.

The reasons for this situation are manifold and deserve closer attention. In the first place the rise in prices of domestic commodities during January was considerably behind the increase of the dollar. While the dollar as expressed in marks increased during January sevenfold, prices of domestic products in-creased only threefold, so that gold prices of domestic goods on the eve of the mark recovery were lower than before, and the decrease of the dollar from about 48,000 marks to about 20,000 tended to bring about an equalization of prices. The adaptation of such commodities to the valuation of the dollar is much slower, and this process continued after the mark started on its upward course. Furthermore, whenever the mark shows an improvement abroad there is a general tendency of prices to approach the world market level.

Secondly, prices of coal and iron have increased very rapidly. During January, coal rose from 38,044 marks per metric ton to 68,411 marks, hematite iron from 181,200 to 334,800 marks, steel ingots from 197,300 to 623,000 marks, and bars from 270,000 to 860,000 marks. Due to the occupation of the Ruhr and the scarcity of these commodities in the unoccupied parts of Germany, prices of these commodities did not respond to the improvement of the mark.

Thirdly, the cost of labor could not be decreased so long as the cost of living did not show the same tendency. Doctor Kuczynski estimated the weekly expenditures of a family of four in Berlin during the first and second half of February at 81,671 marks and 90,350 marks, respectively, as compared with 30,000 marks for the first half of January. True, certain commodities like rationed bread decreased, but many other items, such as rent and fuel, increased. The costs of labor, coal, steel, and iron are mainly responsible for the increase in prices of industrial finished products during February.

The rise of domestic prices is also due to some extent to the continuous increase in the cost of transportation. During the past year the Federal railway administration increased its rates with each decline in the value of the mark. The following table showing increases of freight rates during 1922 and the beginning of 1923 will best illustrate this situation.

INCREASES IN RAILWAY FREIGHT RATES.

Date.	Per cent.	Date.	Per cent.
1922. Feb. 1	20 25 25	1922. Oct. 15. Nov. 1. Dec. 1.  1923. Jan. 1. Feb. 15.	60 50 150 7 <b>0</b>

As compared with pre-war freight rates, the rate of February 15 represents a 7,400-fold increase, which corresponds to a valuation of the dollar at about 30,000 marks.

The above causes are not peculiar to the price development during the first three months in 1923, for tendencies leading to the same causes have been apparent ever since the mark began its downward course. The artificial stabilization of the mark abroad and the continuing increase of paper notes in circulation, however, have created an entirely new situation which will have great effects on prices in Germany. A stabilized mark abroad will tend to make imported commodities subject only to the international price movement, while continued issues of huge quantities of paper money will tend to raise domestic prices in Germany. If the mark should remain stable and notes in circulation should increase to the same extent as during the last few weeks, the internal and external value of the mark would soon approach. each other and prices of German domestic products would reach or even exceed the gold price level. Up to the middle of February the exchange value of the mark was an important factor in determining prices in Germany. Since the exchange factor has been for the time being eliminated, future price developments in Germany will be watched with great interest. Under normal conditions the present currency situation would soon lead to a point where German prices would exceed prices in other countries, which would result in an increase of imports and a decrease of exports. It should not be overlooked, however, that prices in Germany are to a considerable extent controlled and that a large part of the newly issued paper marks are used in the occupied parts of Germany.

It is difficult to say what effect the improvement of mark exchange and its temporary stabilization will have on the business activity of the country. The fall of the mark during January and its recovery in February were so violent and rapid that it could not affect to any large extent orders placed from abroad. During the entire first quarter of the present year, however, there was a general tendency toward slackening of activity in many industries, especially textiles and steel and iron. This tendency was further accelerated by the Ruhr occupation and the comparative scarcity and high prices of coal. The decrease in business activity is also reflected in the increase of unemployment. On February 1, 252,783, or 4.4 per cent, of the union men were unemployed, as compared with 2.8 per cent in January, 1923. Unions also report that at the end of January 13 per cent of their members were working on a part-time basis.

#### GOLD AND COMMODITY LOANS.

The instability of the mark has shaken the belief of German nationals in their currency to such an extent that in spite of the recent temporary stabilization of the mark there is an insistent demand for a stable currency and a stable standard of value. This demand became very general after the passing of the foreign exchange act of October, 1922, which made it almost impossible for the average German citizen to invest his savings in a stable currency or security.

Commodity loans.—In an effort to find a

relatively stable basis for investment securities, a number of public and private institutions in primary commodity, such as rye, coal, coke, made in paper marks, but only in gold or in

The first commodity loan was floated by the Staatliche Kreditanstalt Oldenburg (State Credit Office of Oldenburg) which issued the Oldenburgische Roggenanweisungen, representing a value of 6,000,000 kilograms of rve in the form of nontransferable certificates of 125 kilograms each. The shares are redeemable at a sum equivalent to the price of 150 kilograms of rye, corresponding to the average price of rye in the Berlin produce exchange during the three months preceding the date of The assets of the Oldenburg redemption. Credit Office serve as security for the issued certificates, which are already listed on the Bremen and Berlin stock exchanges. On the Berlin stock exchange the shares sell for about the current price of 125 kilograms of rye, plus

freight from Berlin to Oldenburg.

The example of the State of Oldenburg was followed by the Hanoverian State Credit Institution, by the free State of Mecklenburg-Schwerin, by the free State of Saxony, and by a number of private enterprises, among which the most important are the Roggenrentenbank, A. G. Berlin, and the Deutsche Aktiengesellschaft für Landeskultur of Berlin. All the floated commodity loans are similar in principle the one above described. There are. however, slight exceptions. Thus, for instance, the certificates of the Deutsche Aktiengesellschaft für Landeskultur have the advantage of being convertible into gold marks if the value of 100 kilograms of rye, according to the average daily quotation of the Berlin exchange for the three months preceding the date of redemption, is below the value of 468 grams of fine gold.

The main advantage of such commodity loans lies in the protection they offer against losses through further currency depreciation, a fact which induced many Germans to buy these bonds, notwithstanding the many disadvantages inherent in this type of loan.

The dollar loan.—The most important "stable" loan floated in Germany is the \$50,000,000 loan of the Government. It is a gold obligation of the Reich in the form of short-term treasury bonds and is to run for only three years, 1923-1926. The bonds bear no interest, but are redeemable at maturity at 120, so that they yield practically 6 per cent. To induce the general public to subscribe to the loan, the treasury certificates are guaranteed by the Reichsbank, are of denominations as low as \$1, and may be rediscounted with the Darlehns-Germany have floated loans based upon some kassen. Subscriptions, however, can not be currencies of the United States, Great Britain, or of the former neutral countries. The loan is floated by a syndicate comprising practically all German banks of any importance. The syndicate took over one-half of the loan unconditionally and offered the rest to the general public. According to newspaper reports, only about \$12,500,000 of the loan was subscribed by private individuals. The floating and the absorption of a loan of \$50,000,000, unimportant as it may appear in the United States, is a difficult task for present-day Germany. difficulty of such a loan becomes more apparent if the loan is converted into paper marks and compared with the general resources of the Reichsbank. Fifty million gold dollars at the present rate of exchange amount to about 1,000 billion paper marks, a very large sum, if one considers that the total deposits of the Reichsbank on February 7 amounted only to There is about 800 billion paper marks. reason to believe that a certain part of the loan will be taken in Holland and Switzerland. Some of the treasury bonds have also been offered for sale in the United States. The purpose of this loan is twofold. First, and mainly, to strengthen the Reichsbank in its effort to support the mark, and, secondly, to provide the general public with a class of security which is not subject to depreciation.

Relation between gold and paper currency. Simultaneously with the floating of the gold loan comes the request of the Central Association of German Wholesale Traders to the Federal Ministry of Economics that the Reichsbank issue bills of exchange and open current accounts on a gold basis. Although it is not as yet known what the attitude of the Reichsbank is toward this request, it is nevertheless a proof of the impossibility of doing business on the basis of a highly depreciated currency and expresses very well the desire of the German business world to return to the gold standard. The impossibility of doing business on a paper mark basis was realized long ago by bankers and merchants, who, since the mark started on its downward course, have used gold as a general standard of value, while the paper mark served merely the function of a medium of exchange. As a matter of fact, in some instances the price of certain commodities has become the standard by which the value of the paper money is determined. This situation became more pronounced during 1922, when practically all of the wholesalers put their calculation on a gold basis and received payment in paper marks in accord-

ance with the daily quotation of the dollar. This method of doing business prevails in all countries with highly depreciated currencies. Practically all dealings of any importance in Russia, Poland, Austria, and other central and eastern European countries are carried out on a gold or dollar basis, while actual payment is made in the paper currency of the country.

## ECONOMIC CONDITIONS IN CHILE DURING 1922.

INDUSTRIAL CONDITIONS.

The uncertain situation in the nitrate industry at the beginning of 1922, the effects of which were felt throughout the entire country, is generally regarded as the principal reason for the relatively depressed commercial situation and the unsatisfactory condition of the Government's finances. In 1921 position of the nitrate industry was extremely unsatisfactory, and at the close of that year there were about 2,200,000 tons of nitrate available for export as compared with a total of 1,783,000 tons at the end of 1920 and 872,000 tons on December 31, 1913. The result was that a considerable number of officinas were closed in 1921 and production was therefore substantially diminished in 1922. The decline in production, however, has not reduced the available stocks to a point which can be reasonably regarded as a normal level. By March the total stocks at the coast had been reduced to 2,149,000 tons and by December to about 1,230,000 tons, which, while substantially below the stocks held on the corresponding date during the two previous years, was still considerably larger than the supply at the end Nevertheless, greater activity had developed in the nitrate market by the close of 1922. Export sales announced by the Nitrate Association totaled 2,974,804 metric quintals in December, an increase of 1,451,112 quintals over the previous high mark established in November. Total exports for the calendar year reached 1,300,782 metric tons, as against 1,100,000 tons in 1921. In this connection attention must be called to the fact that exports during the first half of 1922 reached only 260,000 tons, whereas during the second semester about 1,040,782 tons were exported. According to the Nitrate Association, orders for future delivery on December 31 totaled

<sup>&</sup>lt;sup>1</sup> A metric quintal is one-tenth of a metric ton.

448,612 metric tons. The delivery dates on these contracts are as follows:

Months, 1923.	Metric tons.
JanuaryFebruaryMarchAprilJune	141, 713 127, 582 42, 156 9, 144 128, 017
Total	448,612

At the close of the year stocks at the coast had been reduced to 1,230,000 tons, while the visible supply on hand in Europe, Egypt, and the United States totaled only 512,712 tons. These figures compare most favorably with those for 1921. The figures for December 31, 1921, were 1,489,802 tons on the Chilean coast and 938,223 tons in foreign countries, including The cost of nitrate producstocks in transit. tion in Chile has been further reduced by the fall in the price of coal, oil, bags, etc., as well as by the cheapness of labor. It may be safely stated, therefore, that at the end of 1922 the nitrate industry of Chile was in a sounder condition than it had been for the two years past, and although selling prices were comparatively low the producing companies, aided by reduced costs and low Chilean exchange, were working on a profitable basis. The Nitrate Association, furthermore, has reported that, while the production of artificial nitrate in Germany has been greatly assisted by the fall of the German mark, the production costs have advanced to such an extent that the product can not be sold profitably at a price lower than that of the Chilean nitrate. In view of this, Chilean producers hope that Germany will again in the near future assume the important place which she occupied before the war as a purchaser of the Chilean product.

The firm tone of the American copper market was reflected in the Chilean copper industries during the last two months of 1922, with the result that increasing activity in this line of production was apparent at the beginning of the current year. Reliable estimates have placed current production in December at 70,000 tons per month and domestic consumption, plus exports, at 80,000 tons. At the end of November, local stocks of refined copper were placed at approximately 100,000 tons. Total copper shipments during 1922 amounted to 120,000 metric tons, as compared with the total exports during 1921 of 123,000 metric tons. This reduction is explained by

the fact that the depression of 1921 continued until about the middle of 1922, and the bulk of the copper exported in 1922 was shipped during the latter half of the year.

As a result of the considerable improvement in the condition of the nitrate and copper industries of Chile and the rapid development of the wool industry in the South, unemployment had been almost eliminated at the close of 1922. On December 7 the last group of unemployed laborers maintained at public expense in temporary shelters at Santiago since the nitrate crisis of 1922 were sent back to the nitrate region. Since the demand for native coal has not increased to any extent, the majority of the coal miners of central Chile were working on a four-day-a-week schedule at the end of 1922. In the southern region, however, a slight surplus of labor became apparent during the last three months of the year, with the result that the governor of Magallanes Territory urged the local steamship companies to discourage the coming of additional workmen to that region.

The condition of the 1922 crops is considered satisfactory. The wheat crop is estimated at 598,146 tons or only 5,000 tons less than that of the previous year. Wool production for the past year is estimated at 38,000,000 pounds, of which a large part was sold at prices considerably higher than those prevailing in the previous year.

During 1922 no change of importance occurred in the manufacturing industries of Chile. Several local industries established during the war are, however, feeling the effects of the competition of foreign manufacturers. A noteworthy event in the industrial situation of Chile was the decision of the Government to purchase 2,000 railway cars of steel construction to be built locally. Reports indicate that the railways of the central section of Chile at the end of 1922 were in a better condition than they were at the close of 1921, and the many railway labor troubles that have been so disturbing during the past few years have been settled for the time at least. The British-owned system of railways in Chile reported unsatisfactory earnings at the beginning of the year, but showed improvement during the last half of 1922. An outstanding feature in the railroad situation of Chile during that year was that the Government issued a decree unifying and extending the concession of the Nitrate Railways under which the property is to be handed over to the Government at the end of 1972, while £1,000,000 will have to be spent on improvements within the next few years.

#### FOREIGN TRADE AND EXCHANGE.

The Central Statistical Office of Chile has so far released the foreign-trade figures only for the first 10 months of 1922. These indicate that the volume of trade in 1921 was not as large as in the previous year and that conditions in 1922 showed little improvement. The following table shows the quantity and value of imports and exports of principal articles in Chile's foreign commerce during the first 10 months of 1922, as compared with the same period in 1921.

[Quantities in kilos unless otherwise indicated.]

		First 10 1	months—	
Commodity.	19	21	19	22
	Quantity.	Value (gold pesos of 18d.).	Quantity.	Value (gold pesos of 18d.).
IMPORTS.				
Edible oil Rice Sugar Coffee Tea Wines and liquors <sup>1</sup> Print paper Fuel oil <sup>2</sup> Coal <sup>2</sup> Cement Pig iron Tin plate Bags Automobiles <sup>3</sup> Yerba maté	1, 772, 570 7, 092, 441 54, 926, 428 1, 430, 493 1, 053, 602 1, 053, 602 474, 735 350, 507 35, 978, 947 3, 097, 667 2, 518, 309 24, 212, 091 1, 794, 723	2, 251, 109 2, 996, 109 18, 120, 927 1, 117, 068 2, 313, 243 519, 910 4, 341, 333 6, 644, 466 18, 720, 609 3, 025, 799 560, 109 1, 556, 634 21, 603, 426 1, 712, 927 942, 857	2, 107, 531 10, 640, 048 71, 641, 941 4, 012, 911 480, 159 50, 861 165, 157 24, 339, 406 2, 885, 166 4, 423, 853 2, 597, 155 4, 529, 150	2, 528, 986 3, 457, 313 12, 176, 983 2, 762, 610 730, 975 157, 150 2, 306, 636 4, 518, 572 4, 571, 649 1, 181, 378 893, 977 1, 234, 891 1, 250, 233 193, 683 2, 242, 941
EXPORTS.	, ,			
Nitrate 4 Iodine. Borax Copper bars Copper ore. Wool. Wheat Wheat flour Barley Beans. Oats	40, 022, 252 422, 377 18, 920, 390 42, 074, 912 43, 988, 892 11, 011, 476 11, 291, 725 8, 710, 438 41, 298, 040 13, 225, 154 25, 857, 817	230, 458, 511 9, 779, 028 22, 797, 204 29, 919, 613 3, 183, 166 7, 111, 555 7, 898, 641 2, 587, 593 4, 637, 174 2, 323, 987 2, 195, 484	7, 032, 539 202, 145 39, 724, 872 85, 864, 309 91, 406, 341 7, 388, 612 2, 467, 639 8, 950, 141 30, 322, 954 9, 054, 598 14, 377, 675	96, 705, 616 4, 679, 656 41, 313, 938 64, 604, 849 4, 749, 578 3, 299, 892 352, 029 2, 274, 998 3, 077, 776 1, 597, 586 1, 315, 163

<sup>&</sup>lt;sup>1</sup> Bottles. <sup>2</sup> Tons. <sup>3</sup> Number. <sup>4</sup> Metric quintals.

Imports of all commodities, with the exception of coal, cement, bags, tea, and wines, were considerably increased. The decrease in the fiscal notes at the end of 1922 amounted to 114,724,780 gold pesos of 18d., of which 21,502,780 pesos are deposited in the Bank of England and 93,218,999 pesos in the Santiago treasury, the ratio of gold to the issue of fiscal notes being 77 per cent. Another sign indicating that the purchasing attention must be called to the fact that the coupled with the treasury sale of approximately £1,000,000 needed to satisfy outstand-

those of the previous year, and the exports of borax, the third most important article of export, also showed remarkable improvement. On the other hand, nitrate, the mainstay of Chile, showed a severe reduction, which, coupled with the considerable decrease in the exports of other important staples, such as oats, barley, and wheat, were responsible for the general depression of trade and business felt throughout Chile during 1922. At the close of the year, however, the foreign-trade outlook was somewhat more promising.

Exchange fluctuations during 1922 were relatively small. During the early part of the year an upward trend was firmly established, and in July the peso had reached the high mark of 14.31 cents, as against 10 cents in the same month during the previous year and 10.75 cents at the beginning of 1922. After July it fell again and the downward trend continued until the end of the year, Chilean pesos being quoted in December at an average of 12.40 cents. The difficult financial position of the country, due to budget deficits and the 1921 commercial crisis, easily explains the fact that the Chilean peso has during the past year been quoted at very much less than the average of most preceding years, while the depressed condition of the nitrate industry, which existed until very recently, explains much of Chile's present unsatisfactory economic position. There is, however, a very important factor which may lead to an improvement in Chile's position within a short time, namely, that this country, unlike many others, has not indulged in inflation of its currency. In point of fact, the various note issues amounted to 289,460,771 pesos in June, 1920, and had increased by the end of that year to 302,821,919 pesos and to 329,202,953 pesos by June, 1921; declining, however, to 324,631,120 pesos in December of that year and to 262,995,594 pesos on October The conversion fund held against 31, 1922. the fiscal notes at the end of 1922 amounted to 114,724,780 gold pesos of 18d., of which 21,502,780 pesos are deposited in the Bank of England and 93,218,999 pesos in the Santiago treasury, the ratio of gold to the issue of fiscal notes being 77 per cent. Another sign indicating the absence of inflation is the fact that total bank deposits during the year decreased moderately, as may be seen from the figures given on page 484. Toward the close of the year the presence on the market of a large number of gold drafts received from nitrate shipments, coupled with the treasury sale of approxi-

C items.

ing accounts, had a beneficial influence on the exchange, enabling the peso to regain some of the ground lost during the temporary recession of November. On the 1st day of December the 90-day rate on New York was 8.17 pesos to the dollar and the rate on London 36.90 pesos per pound. These rates were gradually lowered during the month, the final quotations of the 31st being 7.74 and 35.90, respectively. Since the nitrate season was at its height during that month, the opinion was general that a more decisive improvement than that shown by the foregoing figures was to be expected. The fact that such expectations were not realized has seemed to demonstrate that the principal cause of the fall in exchange was due to the position of the Government finances. According to the opinion of prominent economists of Chile, the frequent cabinet crises in 1922, together with the increasing issue of treasury notes and the contracting of foreign loans to cover fiscal deficits, exerted a depressing influence on the currency which even heavy and regular sales of sterling and dollar drafts could not fully The following table shows the counteract. Bank of Chile's quotations on 90-day drafts on New York, London, and Madrid, and the local premium on gold pesos, used for customs charges, etc., by months during 1922:

[Monthly averages.]

Month.	Premium on gold (per cent).	Exchange on London (pesos per £).	Exchange on New York (pesos per dollar).	Exchange on Madrid (pesos per peseta).
January	227.32	43, 33	10.3212	1, 5280
February		42.57	9.7928	1. 5282
February	203, 96	39, 10	8, 9681	1.4011
April	212.72	39, 90	9, 0715	1.4042
May	201, 65	38, 16	8, 5994	1.3446
June	189, 37	35.79	8, 0489	1, 2657
July	173, 87	34. 43	7.7635	1, 2064
Angust	157, 10	32, 20	7. 2084	1, 1230
September	156, 15	32, 05	7. 2350	1, 1099
October	157.83	32.37	7. 2933	1.1132
November	182. 29	36. 15	8.0674	1. 2327
December	183.65	36.65	7.9532	1. 2448

As a supplement to the foreign exchange table contained in the July, 1922, issue of the Bulletin (p. 824), the following table is presented, showing the high and low monthly average quotations of the Chilean peso in cents during 1922:

	High.	Low.		High.	Low.
January February March April May June	11. 125 11. 875 11. 375 12. 500	11.000 11.000 11.250	July	14.310 14.040 13.800 13.420	12, 700 13, 420 13, 380 13, 250 11, 810 11, 850

#### BANKING AND PUBLIC FINANCE.

The outstanding feature during 1922 in the banking activity of the Republic of Chile was that bank deposits showed only a limited movement. It is important, however, to note the striking decrease in gold deposits which was registered throughout the year. The following table shows the condition of the Chilean banks at the end of the first three-quarters of 1922, and on October 31, 1922:

Cash on hand (in pesos).

	_						a.	sb	
Date.		Notes.		Silver.	G.	old.	Paper c rency		Gold.
1921. Oct. 31 Dec. 31	31 67,495,724 31 164,172,789			805, 092 , 359, 116		31,050 83,447	79, 134, 76, 952,	5,075,384 1,069,181	
1922. Mar. 31 124, 586, 244 June 30 149, 199, 115 Sept. 30 105, 787, 000 Oct. 31 115, 922, 080		19, 199, 115 05, 787, 000	1 1	, 387, 281 , 629, 422 , 903, 399 , 139, 701	7,8 13,1	02, 213 42, 984 38, 397 79, 082	64, 265, 75, 903, 128, 683, 108, 942,	$\frac{531}{227}$	2,945,479 1,645,311 3,068,541 2,418,452
	 	I	Эер	osits.		L	oans and	disc	oun <b>t</b> s.
Date.	i	Paper cu rency.	r-	Gold	١.		er cur- ncy.		Gold.
1921. Oct. 31 Dec. 31		557, 179, 9 824, 115, 5		97,584 102,666			, 043, 254 , 593, 613		89,477,161 83,949,156
1922. Mar. 31 June 30 Sept. 30 Oct. 31	• • •	855, 405, 3 448, 120, 3 888, 192, 3 899, 299, 3	377 303	101, 248 60, 400 92, 845 81, 079	,354 ,605	1, 115 1, 131	, 975, 509 , 937, 394 , 285, 779 , 821, 335	1 1	83, 955, 977 87, 466, 290 108, 803, 322 109, 777, 350

Customs receipts improved considerably during the latter part of 1922, those for December reaching 11,955,931 gold pesos, as compared with 12,881,811 pesos in the preceding month and 5,089,629 pesos during December, 1921. Total collections for the calendar year 1922 reached 86,882,246 pesos, an increase of 704,323 pesos over the total for 1921. Encouraging evidence of the improvement in the country's foreign trade during the last months of 1922 is found in the fact that collections for the last quarter amounted to 35,560,080 pesos, or over 41 per cent of the year's total, whereas collections effected during the last quarter of 1921 reached only 15,505,644 pesos, or 18 per cent of the year's total. Furthermore, the local stocks of merchandise were unusually low at the close of the year and are being replenished at present. This fact, coupled with the news that the Nitrate Association had already closed at that time contracts for future delivery aggregating shipments close to a half million tons, indicates that the heavy movements of imports and exports which were passing through Chilean customhouses at the end of the year are not likely to decrease in 1923. The only loan floated by Chile in the United States during 1922 was that for \$18,000,000, placed by the National City Co. on November 1, 1922, details of which were given in the February issue of the Bulletin (p. 203).

#### PRESENT CONDITIONS.

The slow recovery in the general economic situation of Chile noted at the close of the year 1922, following the moderate reduction in trade during last October and November, has partially continued during the first three months of 1923. The demand for funds is increasing, and this demand appears to be for business needs rather than for speculative operations. No important commercial failures have been reported during the first three months of 1923, and collections on new imports are proceeding satisfactorily. On the other hand, sales of nitrate have fallen off

somewhat since the first of February, due undoubtedly to the uncertain European-situation. During the first three weeks of that month 120,000 metric tons were booked, while in January 200,000 was were sold. January exports of nitrate amounted to 223,-000 metric tons and production was placed at 134,000 tons, thus materially reducing the stocks on hand. During February, 54 plants were producing nitrate, one more than in December, 1922. Exchange has registered a slight drop during the first three months of the year, the respective average monthly quotations being 12.81, 11.99, and 12.67 cents. For the purpose of meeting payments due for the construction of new lines and bridges and with the object of expediting the completion of public works already authorized, it is reported that the Government expects soon to sell at auction State lands in the Territorio de Magallanes, valued at 13,500,000 pesos. It is stated that since the sale may be delayed some time, the Government intends to apply to some banking institutions for a short-term loan of approximately 13,000,000 pesos with

## PRICE MOVEMENT AND VOLUME OF TRADE.

## INTERNATIONAL WHOLESALE PRICE INDEX.

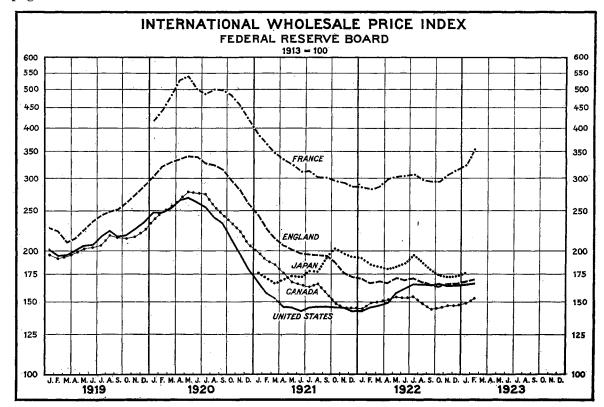
The February movement of wholesale prices in the United States and those foreign countries covered by the Federal Reserve Board's index numbers was a continuation of the January advances. The indexes moved up 1 point in the United States, 3 points in England, 30 points in France, 4 points in Canada, and 7 points in Japan. These represent increases of less than 1 per cent in the United States, and of 1.7, 9.3, 2.3, and 4.3 per cent in the other countries, respectively.

There was likewise a slight rise in the price levels of all countries, computed on a gold basis, due to declines in foreign exchange rates in the case of France, Canada, and Japan. The index figures show that the gold price levels of the United States and England are more nearly equal than they have been at any time since May, 1922. The gold price level in Japan continues to rise above that of this country.

In the foreign countries marked advances occurred in the prices of goods in all stages of manufacture, but the rise of consumers' goods lagged slightly behind that of raw materials and producers' goods. In the United States the prices of raw materials and consumers' goods were fairly steady, producers' goods alone showing any decided upward movement.

Conditions in foreign countries and the United States also differed with respect to commodities entering into foreign trade. In this country imported goods were mainly responsible for the higher price level, whereas in other countries domestic and imported goods shared alike in the price increases.

A more detailed account of recent price movements in England and France appears on pages 464-475 of this issue.



The table below gives the all-commodities index numbers of the five countries included in the Federal Reserve Board's international wholesale price index. Relative price levels are shown both in terms of the respective currencies and "converted to a gold basis." The latter figures take into account the depreciation of the foreign currencies in terms of the American dollar by the use of foreign exchange rates, and indicate therefore relative price levels in the several countries when all prices are expressed as dollars. There follows a table showing the index numbers of the various groups of commodities in each country.

INTERNATIONAL WHOLESALE PRICE INDEX—FEDERAL RESERVE BOARD.

	Base	ed on price	s in <b>re</b> sp <b>e</b> c	tive eu <b>rr</b> er	icies.	Converted to gold basis.					
Year and month.	United States.	England.	France.	Canada.	Japan.	United States.	England.	France.	Canada.	Japan.	
1913, average 1919, average 1920, average 1921, average 1922, average	100 211 239 148 157	100 241 314 201 167	100 478 321 298	100 207 250 167 149	100 181 182	100 211 239 148 157	100 218 237 159 152	100 174 124 126	100 199 223 150 147	100 175 175	
February. March. April. May June. July. August. September October. November December	146 147 149 158 161 165 165 164 164 164	167 168 167 171 169 171 168 165 163 165	283 287 299 302 304 307 298 294 294 307 315	149 150 152 154 153 154 149 144 145 147	185 182 180 183 187 195 187 179 174 172 173	146 147 149 158 161 165 165 164 165 164	150 151 152 157 155 156 154 150 148 151	128 134 143 143 131 123 117 112 109 118	145 145 148 152 151 152 149 144 145 147	176 173 171 174 179 187 179 171 168 167 170	
JanuaryFebruary	165 166	167 170	324 354	149 153	176 183	165 166	160 164	112 113	148 151	172 178	

#### GROUP INDEX NUMBERS OF WHOLESALE PRICES IN THE UNITED STATES, ENGLAND, FRANCE, CANADA, AND JAPAN.

	Feb- ruary. Jan- ruary.		1922				19	23	1922			
Countries and commodity groups.			Decem- ber. Novem- ber.		Feb- ruary.	Countries and commodity groups.	Feb- Jan ruary. uar		Decem- ber.	Novem- ber.	Feb- ruary.	
UNITED STATES.						CANADA.					Ì	
All commodities. Goods produced. Goods imported. Goods exported Raw materials. Producers' goods. Consumers' goods.	166 162 146 187 182 156 154	165 162 139 180 182 150 156	164 160 138 174 177 149 157	164 160 137 173 177 150 156	146 143 110 142 145 127 155	All commodities. Goods produced. Goods imported. Goods exported. Raw materials. Producers' goods. Consumers' goods.	153 150 170 143 140 164 167	149 14 <b>6</b> 171 140 137 160 163	147 143 167 138 135 159 161	147 143 165 138 135 157 160	149 148 150 152 138 147 164	
ENGLAND.						JAPAN.						
All commodities. Goods produced. Goods imported. Goods exported Raw materials. Producers' goods. Consumers' goods.	170 168 166 172 172 153 177	167 165 164 165 167 151	166 164 163 157 166 146 177	165 161 165 154 166 146 172	167 171 148 151 168 144 181	All commodities. Goods produced. Goods imported. Goods exported Raw materials. Producers' goods. Consumers' goods.	183 183 184 214 192 186 177	176 176 175 199 178 176 174	173 175 165 192 171 167 177	172 173 166 194 173 168 173	185 192 151 186 163 183 198	
FRANCE.											1	
All commodities. Goods produced. Goods imported. Goods exported. Raw materials. Producers' goods. Consumers' goods.	295	324 312 384 346 366 262 312	315 306 361 333 352 253 310	307 296 362 336 348 248 296	283 282 286 275 300 227 300							

<sup>&</sup>lt;sup>1</sup> Complete descriptions of these index numbers may be found in the following issues of the BULLETIN: United States—May and June, 1920, June, 1921, and May, 1922; England—February, 1922; France—August, 1922; Canada—July, 1922; Japan—September, 1922.

## WHOLESALE PRICES OF INDIVIDUAL COMMODITIES IN THE UNITED STATES.

In order to give a more concrete illustration of actual price movements in the United States, there are presented in the following table monthly actual and relative figures for certain commodities of a basic character. The prices have in most cases been obtained from the records of the United States Bureau of Labor Statistics. This table is published in the BULLETIN at quarterly intervals.

[Average price for 1913=100.]

					LALVI	crage pr	ice for 191	3=100.						
W	Corn, 1 Chica	No 3, ago.	Cotton, m New Or	iddling, leans.	Wheat, northern Minnea	spring,	Wheat, red wi Chics	nter,	Cattle, good to Chica	choice,	Hides, p heavy i steers, C	iative .	Hogs, l Chies	light,
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.	Average price per 100 pounds.	Rela- tive price.
1913 1914 1915 1916 1917 1918 1919 1920 1921 1922	\$0.616 .683 .722 .812 1.620 1.522 1.580 1.397 .565 .614	100 111 117 132 263 247 257 227 92 100	\$0. 127 . 113 . 096 . 141 . 226 . 312 . 319 . 330 . 141 . 204	100 89 76 111 178 246 251 260 111 161	\$0. 874 1. 003 1. 306 1. 411 2. 325 2. 191 2. 566 2. 558 1. 466 1. 345	100 115 150 162 266 251 294 293 168 154	\$0. 986 1. 005 1. 307 1. 351 2. 278 2. 210 2. 537 2. 523 1. 435 1. 238	100 102 132 137 231 224 239 256 146 126	\$8. 507 9. 039 8. 702 9. 573 12. 809 16. 368 17. 496 14. 486 8. 780 9. 438	100 106 102 11,3 151 192 206 170 103 111	\$0. 184 . 196 . 242 . 262 . 327 . 300 . 393 . 312 . 139 . 180	100 107 132 142 178 163 214 170 76 98	\$8. 454 8. 382 7. 187 9. 400 15. 459 17. 663 18. 326 14. 711 8. 891 9. 727	100 99 85 111 183 209 217 174 105
January. February. March. April May. June. July. August. September. October. November. December.	. 474 . 557 . 561 . 576 . 609 . 601 . 637 . 617 . 627 . 686 . 717 . 722	77 91 91 94 99 98 103 100 102 112 117	. 165 . 166 . 167 . 168 . 194 . 217 . 221 . 216 . 209 . 221 . 225 . 255	130 130 131 132 153 171 174 170 164 174 201 200	1.300 1.522 1.500 1.563 1.589 1.419 1.423 1.186 1.085 1.132 1.218 1.251	149 174 172 179 182 143 148 135 124 130 139 143	1. 196 1. 382 1. 387 1. 391 1. 356 1. 160 1. 152 1. 057 1. 071 1. 177 1. 273 1. 325	121 140 138 141 137 118 117 107 109 119 129 134	8. 150 8. 638 8. 731 8. 406 8. 615 8. 863 9. 700 10. 375 10. 713 10. 245 10. 500 10. 581	96 102 103 99 101 104 114 122 126 126 123 124	. 165 . 160 . 139 . 134 . 146 . 168 . 182 . 201 . 213 . 227 . 228 . 204	90 87 75 73 79 91 99 109 116 123 124	8. 160 10. 263 10. 588 10. 590 10. 660 10. 695 9. 656 9. 694 9. 430 8. 206 8. 269	97 121 125 124 126 125 127 114 115 117 92 98
1923. January February March	. 698 . 724 . 727	113 118 118	. 273 . 290 . 305	215 228 <b>240</b>	1. 221 1. 241 1. 232	140 142 141	1. 258 1. 360 1. 321	128 138 134	9.780 9.356 9.263	115 110 109	. 200 . 199 . 193	109 108 105	8. <b>395</b> 8. <b>069</b> 8. <b>344</b>	99 95 99
	Wool, Ol grades, se eastern m	courea,	Yellow floori New Y	ng,	Coal, biturun of min spot at r Pittsb	e, f. o. b. nines,	Coal, bitu Pocahonta spot at a Colum	s, f. o. b. mines,	Coke, Co ville, at f	nnells- urnace.	Copper, electro New Y	lvtic.	Lead, desilve New Y	pig, rized, Tork.
Year and month.	Average price per pound.	Rela- tive price.	Average price per M feet manufac- tured.	Rela- tive price.	A verage price per short ton.	Rela- tive price.	Average price per short 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.
1913 1914 1915 1916 1917 1918 1919 1920 1921 1922	\$0.471 .440 .571 .680 1.145 1.439 1.189 .971 .508 .782	100 93 121 144 243 306 248 203 108 166	\$44.591 42.750 39.591 39.375 50.909 60.750 78.833 145.417 93.708 94.583	100 96 89 88 114 136 177 326 210 212			1 \$1.571 		\$2.440 1.808 1.785 3.246 8.250 6.000 4.738 10.816 3.636 7.136	100 74 73 133 338 246 194 443 149 293	\$0.157 .134 .173 .275 .294 .247 .191 .180 .126 .134	100 85 110 175 187 157 122 114 80 85	\$0.044 .039 .046 .068 .091 .074 .058 .081 .046	100 88 104 155 207 169 131 184 104 132
1922. January February March April May June July. August September October November	. 582 . 673 . 727 . 727 . 746 . 818 . 818 . 836 . 836 . 946	124 143 154 154 154 158 174 178 178 201 201	95. 500 95. 500 95. 500 95. 500 90. 000 90. 000 92. 500 92. 500 92. 500 92. 500 100. 500	214 214 214 214 202 202 207 207 207 207 225 230	2. 150 2. 150 2. 038 2. 000 4. 600 3. 675 3. 163 2. 725		2. 150 2. 075 1. 825 1. 975 2. 750 3. 036 4. 955 5. 688 5. 750 5. 938 6. 125 6. 038	137 132 116 126 175 210 315 362 366 378 390 384	2.750 3.038 3.250 4.475 6.000 6.750 10.750 12.800 11.125 9.800 7.188 7.000	113 125 133 183 246 277 441 525 456 402 295 287	. 136 . 129 . 127 . 126 . 132 . 136 . 137 . 138 . 138 . 138 . 137	86 82 81 80 84 86 87 87 87 87 87 87	.047 .047 .047 .051 .055 .058 .058 .059 .062 .067 .072	107 107 107 116 125 132 132 133 140 151 165 166
1923. January February March	. 982 1. 000 1. 0 <b>00</b>	205 209 209	102.500 102.250 105.250	230 229 236	3, 319 2, 838 2, 450	- 251 - 215 186	6. 619 4. 775 4. 5 <b>0</b> 0	421 304 286	8. 250 7. 125 7. 313	338 292 300	. 146 . 155 . 169	93 98 108	. 078 . 082 . 085	178 185 193

<sup>&</sup>lt;sup>1</sup> Toledo market average for last 6 months of 1913.

## WHOLESALE PRICES OF INDIVIDUAL COMMODITIES IN THE UNITED STATES—Continued.

	WHO	DLESAL	E PRICES	S OF I	NDIVIDUA	L COM	MODITIE	S IN 1	THE UNIT	ED ST	ATES—Co	ntinued	•	·
Year and	Petroleun Pennsyl at we	vania,	Pig iron, Mahonir Shenango at furn	ig and Valley,	Cotton y northern 10/1 Bo	cones,	Leather hemlock, Chica	No. 1,	Steel bi Besser Pittsbi	mer,	Steel pl tank, l burg	Pitts-	Steel r open-he Pittsb	earth,
month	Average price per barrel.	Rela- tive price.	Average price per long ton.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per long ton.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per long ton.	Rela- tive price.
1913	\$2.450 1.917 1.529 2.483 3.200 3.974 4.135 5.975 3.314 3.173	100 78 62 101 131 162 169 244 135 130	\$14.706 12.873 13.741 19.768 38.904 32.509 27.697 42.269 21.668 24.264	100 88 93 134 265 221 188 287 147 165	\$0. 221 .197 .173 .265 .397 .600 .534 .625 . 290 .361	100 89 78 120 179 271 241 282 131 163	\$0. 282 .302 .309 .388 .535 .484 .528 .534 .358 .350	100 107 110 138 190 172 187 189 127 124	\$25.789 20.078 22.441 43.946 69.856 47.300 40.539 56.260 34.385 33.990	100 78 87 170 271 183 157 218 133 132	\$0.015 .012 .013 .032 .056 .032 .027 .033 .019	100 78 86 219 376 219 183 222 130 117	\$30, 000 30, 000 30, 000 33, 333 40, 000 56, 150 49, 264 53, 827 45, 654 40, 692	100 100 100 111 133 187 164 179 152 136
January February March April May June July September October November December	3.000	135 133 133 133 143 143 122 122 122 122 122	18. 150 17. 750 17. 938 20. 000 24. 600 25. 000 24. 250 26. 600 32. 625 30. 900 27. 750 24. 813	123 121 122 136 167 170 165 181 222 210 189 169	. 326 . 313 . 314 . 314 . 331 . 360 . 378 . 387 . 373 . 391 . 420 . 430	147 141 142 142 150 163 171 175 168 177 190 192	. 340 . 350 . 350 . 350 . 350 . 350 . 350 . 350 . 350 . 350 . 350	121 124 124 124 124 124 124 124 124 124	28. 000 28. 000 28. 000 29. 500 34. 000 35. 000 36. 100 39. 500 40. 000 37. 750 36. 500	109 109 114 132 136 136 140 153 155 146 142	. 015 . 014 . 014 . 015 . 016 . 016 . 017 . 019 . 021 . 021 . 020 . 020	101 94 94 100 105 108 115 127 142 142 135	40, 000 40, 000 40, 000 40, 000 40, 000 40, 000 40, 000 40, 000 40, 000 42, 250 43, 000 43, 000	133 133 133 133 133 133 133 133 141 143
January February March	3. 370 3. 944 4. 000	138 161 163	25, 800 26, 250 30, 125	175 179 205	. 435 . 448 . 462	197 203 209			37. 300 39. 625 44. 375	145 154 172	. 021 . 022 . 024	139 151 162	43. 000 43. 000 43. 000	143 143 143
Year and month.	Worsted, 2-32's cro Philade	ossbred,	Beef, ca good n steers, Cl	ative	Coffee, Ri New Y		Flour, v standard (1918, sta war Minnea	patents andard	Hams, si Chica		Illumina 150° fire New Y	e test,	Sug granul New Y	ated,
	Averagr 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 barrel,	Rela- tive price.	Average price per gallon.	Rela- tive price.	Average price per pound.	Rela- tive price.
1913 1914 1915 1916 1917 1918 1919 1920 1921	. 640 . 788 1. 050 1. 556 2. 109 1. 627	100 82 101 135 200 272 210 235 152 182	\$0. 130 . 136 . 129 . 138 . 167 . 221 . 233 . 230 . 163 . 150	100 105 100 107 129 171 180 178 126 116	\$0.111 .082 .075 .092 .093 .097 .179 .120 .072	100 73 67 83 83 88 160 108 65 92	\$4. 584 5. 096 6. 663 7. 264 11. 391 10. 131 11. 998 12. 675 8. 326 7. 282	100 111 145 158 249 221 262 277 182 159	\$0. 166 . 167 . 153 . 185 . 252 . 318 . 343 . 344 . 268 . 264	100 100 92 111 152 191 207 201 161 159	\$0. 123 . 120 . 121 . 122 . 124 . 170 . 200 . 263 . 243 . 208	100 97 98 99 101 137 163 213 197	\$0.043 .047 .056 .069 .077 .078 .089 .127 .062 .059	100 110 130 161 181 183 209 297 144 139
1922. January February March April May June July August September October November December	1. 250 1. 300 1. 350 1. 427 1. 400 1. 450 1. 500 1. 650	164 167 161 167 174 184 180 180 187 193 212 212	. 154 . 145 . 145 . 145 . 145 . 145 . 145 . 155 . 155 . 155	119 112 112 112 112 114 120 120 120 120 120	. 096 . 090 . 096 . 108 . 110 . 110 . 104 . 100 . 102 . 102 . 102 . 108	87 81 86 97 99 99 93 90 92 92 97	7. 000 7. 975 7. 813 8. 144 8. 060 7. 500 7. 788 6. 995 6. 344 6. 435 6. 713 6. 775	153 174 170 178 176 164 170 153 138 140 146 148	. 221 . 267 . 306 . 309 . 313 . 313 . 301 . 264 . 235 . 232 . 213 . 206	133 161 184 186 188 188 181 159 141 140 128 124	.218 .210 .210 .202 .199 .200 .200 .202 .202 .215 .220 .220	176 170 170 164 161 162 162 164 174 174 178	. 048 . 049 . 052 . 052 . 053 . 059 . 066 . 067 . 063 . 066 . 068	112 115 121 122 123 138 155 157 146 154 160
1923. January February March	1.700 1.750	219 225 225 225	.154 .148 .145	119 114 112	. 119 . 130 . 130	107 117 117	6. 630 6. 713 6. 625	145 146 145	. 202 . 203 . 206	122 122 124	. 220 . 220 . 220 . 220	178 178 178	. 067 . 073 . 086	158 171 201

## COMPARATIVE WHOLESALE PRICE LEVELS IN PRINCIPAL COUNTRIES.

#### ALL-COMMODITIES INDEX NUMBERS.1

					и		EUROPE.						
Year and month.	Belgium; Ministry of Labor. <sup>2</sup>	Bul- garia; General Statis- tical Bureau.	Czecho- slovakia; Central Bureau of Sta- tistics.	Den- mark; Finans- tidende. <sup>3</sup>	France; General Statis- tical Bureau.	Ger many; Frank- furter Zei- tung.*	Ger- many; Federal Statis- tical Bureau.	Bachi.	Nether- lands; Central Bureau of Sta- tistics.*	Norway (Chris- tiania): Oekono- misk Revue.*	Poland; Central Statis- tical Office.	Spain; Institute of Geog- raphy and Sta- tistics. <sup>19</sup>	Handels och Sjöfarts- tidning. <sup>11</sup>
	(120)	(30)	(120)	(30)	(40)	(80)	(36)	(100)	(00)	(80)	(08)	(74)	(47)
1913 1914 1919	19 100	100 103 101,166 1,940	15 100	14 100 294 382	100 101 356 510	25 1. 0	34 1. 0 1. 1 4. 2 14. 9	100 95 364 624	100 108 297 281	16 115 322 377	17 <b>1</b>	100 101 204 221	13 100 116 330 347
1921 1922	367	2,006 2,473	1,355	250 179	34 <b>5</b> 327	19 21. 3 327. 2	19.1 341.8	578 562	181 160	269 220	1,376	190 176	211 162
1922. March	644	2, 287 2, 514 2, 695 2, 436	1,552 1,491 1,471 1,471	182 178 177 179	307 314 317 325	54 67 74 79	54 64 65 70	533 527 524 537	161 161 168 167	240 236 231 230	737 751 786 877	177 180 178 178	164 165 164 164
April May June July August September October November	360 360 364 385 408	2,436 2,489 2,526 2,531 2,558 2,564	1, 464 1, 386 1, 155 1, 059 1, 017	180 180 178 176 180	325 331 329 337 352	91 140 291 432 945	101 192 287 566 1,151	558 571 582 601 596	162 155 153 156 158	232 227 225 221 221	1,016 1,358 1,524 2,013	175 175 174 172 174	165 163 158 155
December	407	2,564 2,630	999	182	382	1,665	1,475	580	158	220	2,756 3,464	172	154 155
January February March	434 474	2,657	1,003 1,028	181 192 199	387 422 424	2,054 7,159 6,770	2,785 5,585 4,888	575 582	159 158	220 224 229	5,487 8,591	170	15 <b>6</b> 158
	EURO	PE—conti	nued.	NORTH A	MERICA.	<u>                                     </u>		ASIA AND	OCEANIA	•		AFR	ICA.
Year and month.	Switzer- land; Dr. J. Lorenz.	United King- dom; Board of Trade.	United King- dom; Statist.4	United States; Bureau of Labor Statis- tics.	Canada; Depart- ment of Labor.11	Australia; Bureau of Census and Sta- tistics.	China (Shang- hai); Ministry of Fi- nance.**	Dutch East Indies; Statis- tical Bureau.	India (Cal- cutta); Depart- ment of Statis- tics.4	Japan (Tokyo); Bank of Japan. <sup>6</sup>	New Zealand; Depart- ment of Statis- tics.	Egypt (Cairo); Depart- ment of Statis- tics.	South Africa; Office of Census and Sta- tistics.
	(71)	(150)	(45)	(404)	(271)	(92)	(147)	(17)	(75)	(56)	(106)	(23)	(187)
1913. 1914. 1919. 1920. 1921.		307 197 159	100 101 242 295 188 155	100 98 206 226 147 149	100 101 217 246 182 166	16 100 180 218 167 154	133 140 145 146	23 100 18 281 18 226 186 164	22 100 198 204 181 180	100 95 236 259 200 196	100 104 178 212 201 177	34 100 225 299 171 145	100 170 231
March	161 163 163 163 169	160 160 160 160 156 158 154 155 157	157 158 159 159 157 152 150 153 153 153	142 143 148 150 155 155 153 154 156	166 166 167 165 166 164 163 162 164 165	146 148 155 156 157 185 158 159 162 161	152 148 146 144 145 142 139 143 143	164 164 166 167 168 163 159 163 164	182 182 187 183 181 178 176 177 178 176	201 197 194 197 201 195 193 190 188 183	180 180 177 175 177 177 174 174 175	153 148 141 139 138 139 138 140 144	132
JanuaryFebruary	17 <b>5</b> 18 <b>1</b>	157 158	153 155	156 157	165 166	163 161	153 162		179	184 192	•••••	141 137	135

<sup>&</sup>lt;sup>1</sup> The number of commodities or quotations used in the computation of each index is indicated by figures in parenthesis at head of each column.

- column.

  3 Average of last half of month.

  5 First of month.

  6 End of month.

  6 Beginning of month—not always the 1st.

  6 Average for the month.

  7 38 commodities prior to 1920; 76 commodities during 1921. End of month.
- \* Based upon price of 52 commodities during 1920; 53 during 1921.

  \* End of year and end of month.

  \* In the first of the month.

  \* Middle of month.

  \* July 1, 1913, to June 30, 1914—100.

  \* July 1, 1912, to June 30, 1914—100.

  \* July 1, 1912, to June 30, 1914—100.

  \* July 1, 1914—100.

  \* July 1914—100.

  \* Dec. 31, 1913, to June 30, 1914—100.

  \* January, 1914—1

- 18 December figure.
  19 January figure.
  20 As of last Wednesday in month.
  21 February, 1913—100.
  22 As of Jan. 1.
  22 End of July, 1914—100.
  24 Jan. 1, 1913, to July 31, 1914—100.
  25 July, 1914—1.
  26 1913 average—1.

preceding page are constructed by various foreign statistical offices and are sent to the Federal Reserve Board by cable. References to the Bulletins in which these are described may be found in the issue for January, 1923.

Index numbers showing the price levels of separate groups of commodities in the United States and certain foreign countries are presented below and on the following page. Group | will also be found on that page.

The foreign index numbers published on the index numbers for other countries are published only occasionally, but such figures may be obtained from the Division of Analysis and Research at any time upon request.

A comparative summary table showing the board's international index for the United States, England, Canada, France, and Japan appears on page 487. Group index numbers, computed as part of this international series,

GROUP INDEX NUMBERS—UNITED STATES—COMMODITIES IN BUREAU OF LABOR STATISTICS INDEX REGROUPED BY FEDERAL RESERVE BOARD.

		R	aw materia	als.				1
Year and month.	Agricul- tural products. (21)	Animal products.	Forest products.	Mineral products.	Total raw ma- terials. (88)	Pro- ducers' goods.	Con- sumers' goods.	All commodi- ties.
1913 1919 1920 1921 1921	100 251 255 134 145	100 221 186 110 125	100 211 <b>311</b> 165 185	100 179 236 184 207	100 217 228 142 158	100 179 214 135	100 211 231 159 151	100 206 226 147- 149
1922. February March April May June. July August September October November. December	140 141 145 152 146 147	121 122 120 120 122 123 130 127 132 132 132 129	166 165 167 174 186 138 191 199 204 207 210	177 178 180 2002 211 241 261 236 218 209 208	146 147 148 157 159 171 173 168 166 166	118 120 122 125 127 129 129 132 135 136	148 150 149 150 151 152 149 150 152 155	141 142 143 148 150 155 153 154 156
January		126 123	215 220	213 207	168 167	136 141	155 <b>155</b>	156 1 <b>57</b>

#### GROUP INDEX NUMBERS-UNITED STATES-BUREAU OF LABOR STATISTICS.

Year and month.	Farm prod- ucts.	Foods.	Cloths and clothing.	Fuel and lighting.	Metals and metal products.		Chem- icals and drugs.	House furnish- ing goods.	Miscel- laneous.	All commod- ities.
	(56)	(110)	(65)	(20)	(37)	(41)	(43)	(31)	(25)	(404)
1913	100	100	100	100	100	100	100	100	100	100
1919	231	207	253	181	162	201	169	184	175	206
1920	218	220	295	241	192	264	200	254	196	226
1921	124	144	180	199	129	165	136	195	128	147
1922	133	138	181	218	122	168	124	176	117	149
1922.					į					
February	131	135	174	191	120	156	123	177	117	141
March	130	137	172	191	109	155	125	175	117	142
April	129	137	171	194	113	156	124	175	116	143
May	132	138	175	216	119	160	122	176	116	148
June	131	140	179	225	120	167	122	176	114	150
July	<b>13</b> 5	142	180	254	121	170	121	173	114	155
August	131	138	181	271	126	172	122	173	115	158
September	133	138	183	244	134	180	124	173	116	153
October	138	140	188	226	135	183	124	176	120	154
November	143	. 143	192	218	133	185	127	179	122	156
December	145	144	194	216	131	185	130	182	122	156
1923.								ļ	İ	
January	143	141	196	218	133	188	131	184	124	156
February	142	141	199	212	139	192	132	184	126	157

GI	ROUP II	NDEX N	UMBE	RS OF	WHOLES	ALE PRICES IN FOREIGN	COUNT	RIES.			
	FRANC	E.1				SWI	TZERL	AND.7			
Groups.	March, 1923.	Feb- ruary, 1923.	Jan- uary, 1923.	March, 1922.	March, 1921.	. Groups.	Feb- ruary, 1923.	Jan- uary, 1923.	December, 1922.	Febru- ary, 1922.	Febru- ary, 1921.
All commodities	424 397 413 333 491 447	422 402 420 332 508 439	387 367 388 322 412 404	307 317 341 285 326 300	360 366 406 322 367 355	All commodities Consumers' goods. Agricultural products. Industrial products.	163 181	175 176 162 180	170 174 155 176	171 181 151 169	230 262 181 217
Minerals Textiles Sundries.	426 541 417	399 553 410	346 533 377	242 326 328	289 375 392	UNITED KINGI	ом-в	OARD	OF TRA	DE.1	
GERMANY—FEDE	RAL ST	ATISTI	CAL B	UREAU	Л.2	Groups.	Febru- ary, 1923.	Janu- ary, 1923.	December, 1922.	Febru- ary, 1922.	Febru- ary, 1921.
All commodities	4,888 4,503 6,816	5, 585 4, 942 8, 796	2,785 2,390 4,758	54 50 75	13 13 16	All commodities	158 153	157 157	155 156	162 174	225 234
GERMANY-FR	1	JRTER	ZEITU	NG.3	<u>!</u>	Cereals  Meats and fish Other foods.  Total not food	138 165 157 160	141 175 156 157	141 174 156 155	156 178 188 156	212 265 228 221
Groups.	April, 1923.	March, 1923.	Feb- ruary, 1923.	April, 1922.	Jan- uary, 1921.	Total not food	140 142	134 138	131 138 189	143 145 168	284 201
All commodities Food stuffs and luxuries Textiles and leather	6, 393 5, 350 8, 349 7, 822	6,770 5,361 9,450	7, 159 5, 550 14, 137	67 63 86	21 20 23	Cotton Other textiles Other articles	177 165	176 167	172 166	162 168	195 200 215
Minerals. Miscellaneous. Industrial finished products	7,822 6,434 5,315	8, 298 6, 949 5, 514	9,312 5,347 4,766	86 53 50	23 28 18 17	UNITED F	KINGDO	M—ST	ATIST.		
	ITAL	Y.4				All commodities	169	153 161	152 163	155 166	215 234
Groups.	February, 1923.	Jan. uary, 1923.	December, 1922.	Feb- ruary, 1922.	Feb- ruary, 1921.	Animal foods Sugar, coffee, tea Vegetable foods. Materials	178 188 134 150 141	177 167 138 148	181 164 140 145	173 138 167 149	270 187 206 203 200
All commodities	109	92 109 125 108	93 110 129 110	90 109 111 112	98 103 127 120	Textiles Sundries	104	132 172 144	127 171 140	117 172 158	179 224
Textiles	70 83 64	69 81 63 88	69 78 65 88	73 68 62 91	89 65 80 117		CANAL	OA.1			
Building materials	SWED:	91	94	92	107	Groups.	Febru- ary, 1923.	Janu- ary, 1923.	December,	Febru- ary, 1922.	Febru- ary, 1921.
All commodities	158	156	155	166	250		ļ				
Vegetable foods. Animal foods. Raw materials for agriculture Coal. Metals. Building materials. Wood pulp. Hides and leather. Textiles. Oils.	141 156 159 214 118 206 190 89 213	137 161 163 184 117 211 185 89 205 150	136 165 162 178 117 209 181 89 198 150	170 159 170 186 130 226 178 97 138 179	231 241 248 362 204 319 511 108 147 318	All commodities. Grains and fodder Animals and meats. Dairy products. Fruits and vegetables. Other foods. Textiles. Hides and leather. Metals. Implements. Building materials—lumber.	129 128 150 162 163 185 102 150 218 184	165 125 126 151 155 159 184 102 150 218 184	165 127 127 160 159 154 182 102 148 218 184	169 145 135 141 204 155 174 97 141 216 179	199 171 171 185 163 205 204 126 167 257 239
	norw	AY.6				Fuel and lighting	221	226 159	225 160	204 164	234 188
Groups.	March, 1923.	Feb- ruary, 1923.	Jan- uary, 1923.	March, 1922.	March, 1921.	A	USTRA	LIA.8			<u>'                                    </u>
All commodities Animal foods Vegetable foods Coal and coke Iron Metals Building materials Textiles Hides and leather	202 354 275 179 177 179	224 215 200 238 270 170 179 179 252	220 210 198 252 225 157 179 177 251	240 222 245 279 232 161 262 289 190	312 307 315 289 328 169 339 350 203	All commodities. Metals and coal. Textiles Agricultural products. Dairy products Groceries and tobacco Meat Building materials Chemicals	168 198 157 140 170 116 190	163 169 190 164 134 170 122 198 188	161 169 181 169 126 170 113 204 184	147 184 136 142 119 187 93 195	192 •214 132 192 206 197 184 303 242

<sup>1 1913=100.</sup> :1913=1.

<sup>&</sup>lt;sup>8</sup> July, 1914=1. <sup>4</sup> 1920=100.

<sup>&</sup>lt;sup>5</sup> July 1, 1913-June 30, 1914=100. <sup>6</sup> Dec. 31, 1913-June 30, 1914=100.

<sup>&</sup>lt;sup>7</sup> 1914=100. <sup>8</sup> July, 1914=100.

#### GROUP INDEX NUMBERS-CZECHOSLOVAKIA-CENTRAL BUREAU OF STATISTICS.

[July, 1914=100.]

Year and month.	Animal foods.	Vegetable foods.	Sugar, coffee, sweets.	All foodstuffs.	Textiles.	Iron and minerals.	Other industrial materials and finished products.	Total not food.	All com- modities.
	(17)	(16)	(25)	(58)	(23)	(12)	(31)	(68)	(126)
1922	1,189	1,213	1,266	1,229	1,560	1,651	1,401	1,501	1,355
1922. January February March. April May. June July. August. September October November December.	1, 284 1, 257 1, 323 1, 350 1, 331 1, 236	1, 727 1, 451 1, 572 1, 456 1, 405 1, 318 1, 327 1, 252 745 776 780 748	1,519 1,385 1,410 1,382 1,353 1,383 1,402 1,313 1,142 977 949	1, 514 1, 373 1, 433 1, 375 1, 363 1, 359 1, 273 990 912 913 888	2, 092 1, 756 1, 852 1, 692 1, 678 1, 766 1, 807 1, 155 1, 125 1, 121 1, 079 1, 125	1, 967 1, 875 1, 843 1, 823 1, 804 1, 817 1, 714 1, 689 1, 586 1, 392 1, 160 1, 136	1,707 1,570 1,542 1,496 1,459 1,432 1,424 1,396 1,310 1,194 1,153 1,126	1, 861 1, 691 1, 690 1, 625 1, 597 1, 585 1, 517 1, 346 1, 229 1, 138 1, 128	1,675 1,520 1,552 1,491 1,471 1,471 1,464 1,386 1,155 1,059 1,017
JanuaryFebruary	965 904	743 806	973 1, 039	894 927	1, 145 1, 227	1, 150 1, 188	1,111	1, 129 1, 145	1,003 1,028

#### COMPARATIVE RETAIL PRICES IN PRINCIPAL COUNTRIES.

In the following tables are presented statistics showing the trend of retail food prices and the cost of living in the United States and certain other countries. Figures for some of the countries are shown for the first time in this issue of the Bulletin, and in such cases a brief description of the series will be found below. Descriptions of the other index numbers were given on page 86 of the January, 1923, Bulletin. More detailed explanations of most of these series may be found in recent issues of the International Labor Review. Wherever possible the index numbers have been shifted to a July, 1914, base, instead of being shown on the different bases used in the original computations.

#### RETAIL PRICES.

The Austrian index, computed by the Paritätische Kommission, includes 13 articles of food. The price level of December 15, 1921, is taken as 100 in the original computation. An average is calculated for each article and weighted according to the theoretical weekly expenditure of a normal person on the principal articles of necessity. Prices are those ruling on Vienna markets.

The Belgian index number includes 22 items of food and is weighted according to a standard budget based on the inquiry of the Solvay Institute of Sociology into the expenditure of 602 families with an income of less than 5 francs a day in 1910. The original base is April, 1914.

For Bulgaria the retail price index is based on the prices of about 40 foodstuffs, in addition to the items of tobacco, soap, and heating and lighting. The weighting is based on the annual expenditure of an average family during the years 1908 to 1912. Prices are collected in 4 towns each month on the basis of 1910 = 100.

The German retail food price index number is based on reports from 71 towns, and includes 13 items of foods. Prior to March, 1922, it was based on prices in 46 towns only. An average price for each commodity for the whole country is calculated by taking the mean of the average prices in different towns, weighted according to the population of the towns. Original base: Average of October, 1913, January, April, June, 1914 = 100.

The Berlin index is calculated by Doctor Kuczynski and is weighted according to a theoretical budget, fixed each month and based on market prices and available supplies. In the original computation August, 1913, to July, 1914 = 100.

For the Netherlands the retail food index number is weighted according to a pre-war standard budget, computed by the Bureau van Statistiek der Gemeente Amsterdam.

The Norwegian retail food index, computed by the Central Statistical Office, includes 55 foods. The weighting is that of a standard budget for a working-class family of 4 persons with an income of about 1,500 kroner in 1914.

The retail food index for Spain, computed by Direccion General de Estadistica, includes 19 food products, fuel, and 9 sundries. The prices are those usual on the Madrid markets, and no weighting is used. The original base (1914 average = 100) is used in the accompanying table.

The Swiss retail food index number is composed of 37 items of foods, in addition to soap and heating and lighting. The system of weighting is that of the standard budget, based on an inquiry made in 1912 by the Secretariat ouvrier suisse, covering 785 households. Base:

June, 1914 = 100.

The Australian index number, constructed by the Commonwealth Bureau of Census and Statistics, is based upon the retail prices of 46 articles of food and groceries, weighted according to a system of pre-war aggregate expenditure in 30 towns. The original base is 1911, and has been shifted to July, 1914.

For New Zealand the retail index number, computed by the Census and Statistics Office, includes 59 items of food. The weighting is based on the aggregate expenditure of the whole country from 1909 to 1913. The original

base is 1909 to 1913 = 1,000.

The South African retail food index, computed by the Office of Census and Statistics, includes 17 articles of food. Since 1920 the aggregate expenditure method has been adopted, based on the period 1917 to 1919. The original base of 1910=1,000 has been shifted so that July, 1914=100.

## COST OF LIVING.

The cost of living index number for Finland, calculated by the Central Social Board for 21 towns, includes food (14 items), clothing (2 items), rent, fuel, tobacco, a daily newspaper, and taxes. The system of weighting is that of a standard budget for a working-class family of five persons with a yearly income of 1,600–2,000 Finnish marks, based on an official inquiry made in 1908–9. Original base: First half of 1914 = 100.

The index number for Paris, calculated by the Commission Régionale d'Études relatives au coût de la vie à Paris, includes food, clothing, heating, lighting, and miscellaneous items. The system of weighting is that of a theoretical budget. Original base: First half of 1914 =

100.

The index number for Milan, published in Bombay. The index is weighted according to the Municipal Bulletin of the city of Milan, the aggregate expenditure of the whole of India consists of food, clothing, heating and lighting, in July, 1914, based on production, imports, rent, and miscellaneous items. The system of and exports during five years before the war.

weighting is that of the pre-war budget, with the first half of 1914 taken as 100.

The index number for the Netherlands is computed by the Bureau van Statistiek der Gemeente Amsterdam. It covers food, clothing, heating and lighting, rent, taxes and subscriptions, laundry, upkeep of furniture, traveling expenses, amusements, etc., and takes changes in consumption into account. The figures given in the accompanying table refer to the base 1910–11.

For Norway the cost of living index number is computed by the Central Statistical Office. It includes 55 items of food, clothing, heating and lighting, rent, taxes, and miscellaneous items. The original base (July, 1914 = 100) is

used in the accompanying table.

The American index, computed by the Bureau of Labor Statistics, includes 43 items of food, clothing (77 items for winter and 91 for summer), heating and lighting (6 items), rent, furniture and household articles (25 items), and 19 miscellaneous items, including taxes and subscriptions, medical and traveling expenses, and amusements. The system of weighting is that of the standard budget, based on inquiries made in 1917 and 1918 into more than 12,000 working-class families in various parts of the United States. The data are collected for 32 towns, and July, 1913, is taken as 100.

The index number for Massachusetts is calculated by the Special Commission on the Necessaries of Life. It includes 37 items of food, clothing (17 items), shelter, fuel, heat, and light (4 items), and sundries, weighted according to an estimated budget for a hypothetical wage-earner's family of five persons, based upon an investigation made by the National Industrial Conference Board in Octo-

er, 1919

The Canadian index is computed by the Department of Labor and includes food (29 items), fuel and light (5 items), rent, clothing, and sundries. The system of weighting is the theoretical pre-war budget of a skilled workman's family of five persons, with an income of \$21 per week, in 1913. Original base: 1913

The Indian index, including food, clothing, heating, lighting, and rent, is computed by the Labor Office Secretariat. The price of each of the food articles is collected twice a week from about 10 retailers in that commodity in Bombay. The index is weighted according to the aggregate expenditure of the whole of India in July, 1914, based on production, imports, and exports during five years before the war.

#### INDEX NUMBERS OF RETAIL FOOD PRICES.

						EURO	PEAN CO	UNTRI	es.							D STATE		
Year and month.	Aus- tria (Vi- enna).	Bel- gium.	Bul- garia.	Czecho- slo- vakia.	(Par-	Ger- many (71 towns).	Ger- many (Ber- lin).	Italy.	Neth- er- lands (Am- ster- dam).	Nor- way.	Spain (Ma- drid). <sup>2</sup>	Swe- den.	Swit- zer- land.²	United States.	Can- ada.	Aus- tralia.	New Zea- land.	South Africa.
1914, July. 1920, July. 1921, July.	*1	100 459 410	100 1,694 1,612	100	100 373 306	3 1 13 15	<sup>8</sup> 1 14 15	1 100 452 501	100 210 180	100 319 295	100 190 184	100 297 232	100 239 207	100 215 145	100 227 148	100 194 161	100 167 164	100 197 139
1921. Dec	579	438	2,187		323	24	25	585	150	268	181	202	187	147	148	143	150	125
Nov	748 871 904 1,043 1,374 2,421 3,282 7,224 13,531 11,907 11,193 10,521	417 399 382 378 379 384 381 377 386 406 432 429	2,259 2,365 2,379 2,455 2,632 2,379 2,431 2,475 2,478 2,506 2,520	1,467 1,461 1,414 1,415 1,444 1,475 1,430 1,290 1,105 1,016 984 962	319 307 294 304 317 307 297 289 291 290 297 305	25 30 36 44 47 51 68 97 154 266 550 807	26 31 36 43 45 48 71 111 176 288	576 559 546 524 530 522 531 537 555 561	148 149 143 137 136 137 140 140 141 143 136	257 245 238 234 230 227 233 232 228 220 216 215	179 179 181 190 188 183 179 178 178 178 178 178	190 189 185 182 178 179 181 180 178 170 168	176 173 162 153 152 153 153 153 155 156 156	139 136 136 136 138 139 136 137 140 142 144	149 143 142 138 138 137 138 141 139 138 139	142 140 141 143 147 146 148 149 149 146 145	147 145 141 144 145 143 144 139 139 139	121 119 119 121 120 118 116 116 117 119 120
1 <b>923.</b> Jan Feb		426 436		940	30 <b>9</b> 316	1,366 3,183				214 214	180	166 165	155 154	141 139	142 1 <b>42</b>		138 139	117

#### COST OF LIVING INDEX NUMBERS.

			•		EU	ROPEAN	COUNT	RIES.					UNIT	ED STAT	ES AND	OTHER	COUNT	RIES.
Year and month.	Aus- tria (Vien- na).	Bel- gium.	Fin- land.	France (Par- is).	Ger- many (71 cities).	Ger- many (Ber- lin).	Italy (Mi- lan).	Neth- er- lands (Am- ster- dam).	Nor- way.	Po- land.	Swit- zer- land.	United King- dom.	(22	United States (Mass.)	Can- ada).	India (Bom- bay).	New Zea- land.	South Afri- ca.
1914, July 1920, July 1921, July		* 100 404	100 931 1,214	100 341 307	9 11	41 11 11	100 441 449	5 100 217 208	100 302 302	1 1 257	6 100 205	100 252 219	7 100 217 180	100 198 158	100 190 155	100 190 177	* 100	• 100 133
1921. Dec	533	447	1, 172	297	17	19	53 <b>9</b>	190	283	467	189	199	174	156	152	179	158	124
JanFebMarAprMayJuneJulyAugSeptOctNovDec	669 770 792 875 1,092 1,871 2,645 5,932 11,306 10,363 9,701 9,375	418 395 372 368 365 373 373 369 384 406 432 429	1, 124 1, 120 1, 107 1, 109 1, 111 1, 137 1, 142 1, 159 1, 160 1, 178 1, 169 1, 158	291 802 289	18 22 26 32 35 38 50 70 114 195 400 612	19 22 27 32 35 41 61 103 164 261 565 868	523 522 503 490 492 488 488 491 498 504 505	192 187	266 255 249	469 481 524 586 639 684 788 908 1,077 1,284 1,710 2,310	186 175 170 162 156 155 159 154 154 155 158	192 188 186 182 181 180 184 181 179 178 180 180	167 167 166	154 154 152 152 152 152 153 152 153 154 154	149 148 146 145 145 146 146 147 147 147	173 165 165 162 163 163 165 164 165 162 160	157 156 153 152 152 151 150 150 150 149 149	122 120 120 122 122 121 120 120 120 121 122 121
1923. Jan Feb	9,454	425			1,034 2,408	1, 291 2, 814				3,527 5,713	158 157	178 177		154	149 150	156		120

<sup>&</sup>lt;sup>1</sup> July, 1914-1. <sup>3</sup> Apr. 15, 1914-100. <sup>8</sup> 1913-14-1.

<sup>1</sup> Average for 1913.
2 Includes, in addition to foodstuffs, certain items of fuel and light.
3 July, 1914=1.

<sup>&</sup>lt;sup>4</sup> August, 1913-July, 1914-1. <sup>5</sup> 1910-11-100. <sup>6</sup> June.

<sup>&</sup>lt;sup>7</sup> July, 1913—100. <sup>8</sup> 1909–1913—100. • 1910—100.

## INDEXES OF INDUSTRIAL ACTIVITY IN FOREIGN COUNTRIES.

## UNITED KINGDOM.

	1	RODUC	TION.			3	XPORTS	3.		IMP	ORTS.		7	RANSPO	RTATIO	N.	Unem-	
Year and			Steel in-	Fin-	Raw cot- ton, visible	Iron and	Cot-		Raw		Raw	Hides,		Ves-		itish ways.	ployed among approxi- mately	indus-
	Coal.	Pig iron	gots and cast- ings.	ished steel.	sup- ply.3	steel manu- fac- tures.	manu- fac- tures.	Coal.	cot- ton.	Raw wool.	wet hides.	dry and salted.	under con- struc- tion.	sels clear- ing.	Net ton- miles.	Total freight re- ceipts.	12,000,- 000 in- sured persons.	trial com- panies
Monthly av:	Long tons.1	Long tons 1	Long tons.1	Long tons 1	Bales.1	Long tons.1	Square yards.2	Long tons.1	$Lbs.^2$	Lbs.2	Lbs 1	Lbs.1	Gross tons.1	Tons.1	Ton- miles.1	£ ster- ling.1	Per cent.	Per cent.
1913 1920 1921 1922	23, 953 19, 108 18, 388 20, 996	855 670 218 408	639 756 302 486	646 238 349	1,397 1,234 1,277	414 271 142 283	4 596 374 244 352	6,117 2,078 2,055 5,350	181 158 98 119	67 73 63 92	6,926 4,025 4,792 5,661	5, 189 6, 277 2, 469 4, 991	2,003 3,603 3,313 1,810	5,652 3,049 3,032 4,974	1,546 1,108	9,074	13.3	11. 7 15. 2 10. 3 7. 1
1922. January. February. March. April. May. June. July. August. September. October. November. December.	21,207 $21,712$	288 300 390 394 408 369 399 412 430 482 494 534	328 419 549 404 462 400 473 528 556 565 601 546	271 321 369 294 334 316 345 338 386 393 410 407	1, 298 1, 240 1, 112 1, 181 1, 143 1, 111 890 864 853 882 1, 056 1, 138	253 224 296 258 272 236 252 270 279 347 372 341	342 254 307 305 345 315 447 381 400 357 402 364	4,021 4,014 5,201 4,097 5,057 4,794 5,064 6,146 7,083 6,196 6,571 5,955	134 99 83 101 120 127 111 81 60 128 183 205	90 112 123 117 138 97 79 107 52 60 60 70	4,557 12,184 4,568 3,164 2,994 2,772 7,390 7,281 7,339 5,090 5,500 5,099	4, 186 12, 882 4, 102 3, 590 2, 471 3, 393 2, 982 4, 422 3, 616 6, 571 5, 469 6, 204	2,236 1,920 1,617	3, 921 3, 891 4, 814 4, 187 5, 104 4, 975 4, 828 5, 731 5, 590 5, 653 5, 145	1,320 1,363 1,527 1,236 1,379 1,160 1,369 1,455 1,464 1,545 1,568	9, 370 9, 655 11, 143 9, 198 10, 442 8, 903 9, 561 9, 398 9, 204 9, 922 9, 954	16. 2 15. 7 14. 6 14. 4 13. 5 12. 7 12. 3 12. 0 12. 0 12. 0 12. 4 12. 2	7. 2 5. 9
1923. January February	21, 219 22, 247	568 543	634 <b>7</b> 07		1, 123 1, 104	353 318	404 346	5,612 5,903	135 130	98 84	4, 501 3, 532	7, 171 6, 395		5, 281 4, 985			12.7 11.8	•••••

<sup>&</sup>lt;sup>1</sup> In thousands; 000 omitted. <sup>2</sup> In millions; 000,000 omitted.

#### FRANCE.

	PRODU	CTION.	Cotton	EXPORTS.		IMPO	ets.		TRANSPO	RTATION.	Unem-
Year and month.	Pig iron.	Crude steel.	stocks at Havre.2	Total.	Total.	Raw cotton for consump- tion.	Raw silk for consump- tion.	Coal for consumption.	Vessels cleared.	Receipts of principal railways.3	ployed receiving municipal aid in Paris.
Monthly average:	Metric tons.1	Metric tons.1	Bales.1, 4	Metric tons.1	Metric tons.1	Metric tons.	Metric tons.	Metric tons.1	Tons.1	Francs.1	Number.
1913. 1920. 1921. 1922.	5 434 286 280 427	5 391 254 255 373	274 225 169 148	1,840 1,071 1,333	3,685 4,211 3,165	27, 428 19, 577 16, 666	629 390 206	1,558 2,005 1,472	2,176 1,412 1,802	\$ 165, 892 479, 894 516, 397 557, 194	3,022 20,671 1,679
1922. January February March April May June July August September October November December	383 442 416 428 447 462 503	315 317 367 324 364 358 369 397 407 430 410 414	188 163 127 138 169 145 153 135 99 131 158 197	1, 554 1, 520 1, 570 1, 779 1, 538 1, 799 1, 936 1, 788 2, 616 2, 034 2, 034 2, 429	3,396 4,126 4,434 3,787 4,396 4,307 4,223 4,512 4,138 4,543 4,543 4,577 4,930	14,870 14,714 20,978 17,391 18,090 32,380 26,325 16,291 17,302 27,377 20,387 36,468	502 467 408 207 404 391 566 579 550 722 526 436	1,676 2,153 2,081 1,538 2,058 1,829 1,631 1,767 1,692 1,768 1,965 2,177	1,735 1,744 1,934 2,088 2,340 2,473 2,523 2,339 2,359 2,356 2,455 2,366	451,870 468,175 472,779 608,764 472,607 504,431 651,720 546,310 720,210 563,314 532,152 691,539	4, 658 4, 385 3, 546 2, 447 1, 636 958 602 606 410 272 285 414
January February	486	408	203 169	1,896 2,490	4,111 3,884	33,275	238	1,888	2,146	484,566 496,581	684 666

Figures for end of the month.Expressed in yards.

<sup>&</sup>lt;sup>5</sup> Figures for 5 weeks.

In thousands; 000 omitted.
 End of the month figure.
 Railways included are: State Railways, Paris-Lyon-Méditerranée, Nord, Orléans, Est, Midi, Alsace-Lorraine, and Guillaume-Luxembourg.
 Bale of 50 kilograms.
 Figures do not include Lorraine.
 Excludes the Alsace-Lorraine and Guillaume-Luxembourg Railways.

#### GERMANY.

	PRODU	ction.		EXP	ORTS.2			IMP	ORTS.2		SHIP	PING.		PLOY- NT.	
Year and month.	Coal and coke.	Lignite.	Iron and iron manu- factures.	Ma- chinery and elec- trical sup- plies.	Dyes and dye- stuffs.	Coal.3	Raw wool.	Half manu- fac- tured silk.	Cot- ton.4	Iron ore.5		als of els in burg.	Applicants for every 100 available positions.	Unemployed persons receiving State aid.	Business failures during month.
Monthly av.:	Metric tons.1	Metric tons.1	Metric tons.	Metric tons.	Metric tons.	Metric tons.	Metric tons.	Metric tons.	Metric tons.	Metric tons .1	Number.	Tons.1	Number.	Num- ber.1	Num- ber.
1913 1920 1921 1922	17,003 13,043 13,664	7, 266 9, 303 10, 241	541, 439 145, 883 203, 681 220, 803	60,919 546,772 39,037 49,147	21, 812 8, 462 8, 530 12, 731	2, 881, 126 608, 749 518, 937 421, 835	16,608 4,025 11,860 15,910	920 6 232 393 407	43, 424 12, 490 30, 894 21, 483	1,225 538 619 1,003	1, 256 401 700 907	1, 182 374 794 1, 084	169 165	366 310	331 744
January. February. March. April. May. June. July. August. September October November December	14,670 11,416 11,972 12,780 12,623 13,329	10, 978 10, 091 12, 260 10, 634 11, 437 10, 487 11, 411 12, 147 11, 823 12, 089 11, 896 11, 897	221, 743 172, 709 211, 979 200, 677 209, 432 213, 220 212, 365 198, 408 244, 012 246, 074 233, 553 285, 464	39, 470 45, 689 48, 813 46, 112 47, 354 49, 347 44, 162 50, 978 40, 150 50, 699 41, 644 85, 350	9, 552 9, 332 12, 299 11, 095 12, 629 16, 335 12, 671 12, 616 13, 477 15, 187 11, 110 16, 472	752, 340 669, 433 795, 200 795, 940 701, 941 528, 766 1121, 359 110, 245 125, 636 127, 341 123, 826	10, 400 26, 202 26, 988 24, 091 15, 723 14, 119 11, 011 8, 708 10, 023 9, 198 8, 828	347 383 440 462 486 436 435 459 342 371 425 297	23, 426 17, 915 26, 130 24, 070 26, 112 22, 037 26, 085 20, 915 13, 959 10, 584 20, 62? 25, 942	942 493 810 866 1,519 1,159 962 997 1,090 1,316 842 1,038	745 461 894 972 1,143 1,092 793 1,005 945 1,016 877	875 716 969 1,112 1,244 1,287 1,065 1,171 1,208 1,272 1,046 1,041	150 145 113 113 107 103 106 109 122 129 155	165 203 213 116 65 29 20 15 12 16 24	140 123 151 107 95 91 81 59 45 43 34
1923. January	12,212	9, 104	236,709	42,209	13,651	90,626	11,448	254	26,382	867	993	1,142			42

1 In thousands; 000 omitted.
2 Export and import figures for first 4 months of 1921 not available; 1921 averages based on 8 months.
3 Not including coal for reparations account.
4 Includes linters.
5 Includes manganese ore.
6 Average based on 6 months.
7 Coal only.

SWEDEN.

## SWEDEN.

	PRODU	ction.	EXP	orts.	IMPORTS.	TR	ANSPORTATIO	ON.	Unem-	Business
Year and month.	Pig iron.	Iron and steel ingots.	Unplaned boards.	Paper pulp.	Coal.	Vessels entered.	Vessels cleared.	Freight carried on State railways.	ployed workmen per 100 vacancies.	failures during month.
			Cubic						<del>-</del>	
Monthly average:	Metric tons.1	Metric tons.	meters.1	Metric tons.1	Metric tons.1	Net tons.1	Net tons.1	Metric tons.1	Number.	Number.
1913	61	49	328	71	408	1,147	1,147	830	112	317
1920	39	37	306	73	234	677	692	991	107	196
1921:	26	17	162	40	122	519	482	589	276	432
1922	22	26	320	87	220		<i>-</i>	681	290	388
1922.				ì						
February	17	17	25	11	62	285	255	630	479	398
Moreh	22	22	63	36	197	617	509	730	381	513
April	19	21	66	21	206	524	485	622	368	400
Мау	24	31	99	76	230	600	633	578	257	430
June	21	24	500	80	172	596	738	645	215	362
July	20	27	608	89	214	625	787	715	203	374
AugustSeptember	22	. 27	539	104	294	694	836	765	172	300
September	22	31	508	113	229	684	808	776	155	371
October	23	31	494	144	270	699	822	799	177	335
November	27	34	465	189	302	705	751	796	269	353
December	28	29	384	156	346	655	671	635	321	309
1923.										
January	22	15	97	41	227				346	387
February			45	12	201				308	338

<sup>1</sup> In thousands; 000 omitted.

#### CANADA.

	PF	CODUCTIO	N.		EXP	ORTS.			IMPORTS.		į	Unem- ploy-	
Year and month.	Pig iron.	Coal.	Crude Steel.	Planks and boards.	Pre- served fish.	Wood pulp.	Wheat.	Coal.	Raw cotton.	Machin- ery.	Railroad receipts.	ment among trade union mem- bers.	Busi- ness fail- ures.
	Tons.1	Tons.1	Tons.1	Feet.2	Lbs.1	Lbs.1	Bushels.1	Tons.1	Lbs.1	Dollars.1	Dollars.1	Per cent.	Number.
1921 average 1922 average	50 32	1,255	56 40	85 166	11,007 9,488	87,871 136,375	12,238 17,462	1,525 1,085	7, 269 9, 229	2,288 1,895	33,568 34,021	12. 5 7. 1	47 72
1922.		i											
January February March April May June July August September October November December	33 23 28 32 29	1, 208 1, 313 1, 400 606 721 811 858 789	33 42 30 22 17 33 63 59 36 53 51	82 88 119 84 156 214 215 213 191 239 205 187	10, 180 7, 140 8, 929 5, 075 5, 711 6, 749 9, 936 7, 607 20, 675 13, 239 9, 995 8, 614	124,012 87,039 117,543 62,153 105,197 168,169 155,502 169,611 180,068 154,019 173,180 140,001	6,103 5,602 6,042 1,940 14,207 11,760 9,487 11,587 9,233 37,593 55,316 40,669	1,069 1,148 1,857 896 548 412 427 440 663 1,465 2,127 1,964	11,007 8,758 12,538 7,320 9,788 8,438 7,518 8,459 4,276 4,383 11,284 16,980	1,640 1,573 2,410 1,637 1,999 2,008 1,559 1,963 1,918 1,918 2,114 1,986	26,706 26,053 31,966 26,809 30,799 30,536 32,624 34,937 39,158 47,641 44,259 36,758	13. 9 10. 6 9. 6 10. 4 8. 8 5. 3 4. 1 3. 6 2. 8 3. 9 6. 2 6. 4	90 80 90 59 67 64 60 64 65 72 76

<sup>&</sup>lt;sup>1</sup> In thousands; 000 omitted.

#### JAPAN.

	PR	ODUCTIO	N.1	Raw		EXP	ORTS.		1	MPORTS.	•	TRA	NSPORT <b>≜</b> 7	non.1
Year and month.	Cotton yarns.	Silk fabrics (habu- taye).	Paper.	silk stocks, Yoko- hama mar- ket.	Silk, raw.	Silk fabrics (habu- taye).	Cotton. yarns.	Sheet- ings and shirt- ings, gray	Raw cotton, ginned.	Wool.	Iron plates and sheets.	Vessels cleared in foreign trade.	Freight carried on State rail- ways.	Receipts of State railways.
Monthly average:	Bales.	Hiki.2	Pounds.	Bales.	Piculs.3	Piculs.	Piculs.	Yards.1	Piculs.1	Piculs.	Piculs.1	Tons.	Tons.	Yen.
1913 1920 1921	126 151 151	149	44,538	53, 111 58, 477	16,857 14,557 21,836	2,302 2,264 1,702	113,374 74,839 73,064	7,921 28,465 23,210	537 648 718	13, 162 46, 918 22, 277	132 528 312	2,075 2,216 2,324	2,923 4,548 4,342	11,723 27,589 31,182
1921.	ļ ·		j.						1				[	
November December	168 178	170 169	45,658 46,781	48,832 44,766	29,169 37,250	1,855 1,857	53,484 68,032	16,707 20,382	696 646	14,639 24,064	296 371	2,611 2,718	4,610 4,922	31,729 32,520
1922.		1	1			ĺ		1					į	
January February March April May June July August September October November December	194	166 129 153 110 160 173 159 116 121 118 123 117	46, 488 46, 605 49, 644 52, 687 53, 975 52, 791 53, 734 54, 553 53, 326 54, 892 54, 340 56, 306	40, 561 32, 213 44, 701 40, 777 18, 293 18, 547 45, 848 56, 032 48, 810 48, 472 75, 419 68, 304	16, 924 18, 102 16, 647 27, 380 35, 147 29, 569 34, 541 36, 196 35, 959 35, 970 26, 804 31, 133	1,080 1,551 2,003 1,669 1,977 2,176 1,793 2,017 1,686 1,839 1,253 1,608	61, 414 63, 719 123, 605 138, 226 146, 354 139, 057 51, 660 40, 075 68, 773 118, 431 101, 406 129, 466	19, 124 24, 990 24, 194 24, 725 25, 821 29, 713 25, 284 22, 343 17, 668 25, 259 22, 537 29, 463	1,161 1,168 1,084 707 580 490 433 731 766 330 339 805	41,724 93,411 64,865 76,416 24,753 68,415 37,431 29,936 17,559 16,994 47,469 46,182	462 594 637 582 752 890 872 697 351 332 240 131	2,749 2,817 3,094 2,971 3,287 3,024 2,987 3,119 2,849 2,784 2,895 3,049	4,102 4,261 5,066 4,968 5,225 4,641 4,489 4,502 4,920 4,884 5,189	28, 576 28, 036 36, 337 42, 074 38, 486 32, 180 32, 977 33, 944 35, 374 32, 885 33, 041

<sup>&</sup>lt;sup>1</sup> In thousands; 000 omitted.

<sup>3</sup> In millions; 000,000 omitted.

<sup>&</sup>lt;sup>2</sup> One hiki equals two pieces.

<sup>&</sup>lt;sup>3</sup> A picul varies from 133 to 140 pounds avoirdupois.

## FOREIGN TRADE OF PRINCIPAL COUNTRIES.

In the following tables are presented figures from official sources showing the monthly value of the foreign trade of a group of European countries, Canada, Brazil, India, Japan, and the United States.

## FOREIGN TRADE OF UNITED KINGDOM.

[In thousands of pounds sterling.]

			IMPORTS.					E XPORTS				
Year and month.	Food, drink, and tobacco.	Raw mate- rials and articles mainly unmanu- factured.	Articles wholly or mainly manu- factured.	laneous, includ- ing parcel	Total.	Food, drink, and tobacco.	Raw mate- rials and articles mainly unmanu- factured.	Articles wholly or mainly manu- factured.	Miscel- laneous, includ- ing parcel post.	Total.	Reex- ports.	Total exports and reex- ports.
Monthly average: 1913. 1920. 1921. 1922.	24, 184 63, 817 47, 391 39, 429	23, 485 59, 196 22, 598 24, 853	16, 134 37, 787 20, 421 19, 160	259 254 268 261	64,061 161,387 90.458 83,660	2, 716 4, 245 3, 122 30, 27	5, 825 12, 126 5, 297 8, 501	34, 281 93, 312 49, 055 47, 451	949 1,523 1,126 1,062	43,770 111,206 58,600 60,041	9, 131 18, 563 8, 921 8, 648	52, 901 129, 769 67, 521 68, 689
1922, February March. April May June July August. September October November December	40,097 43,075 39,936 38,817 37,762 35,555 38,617	20, 220 22, 095 21, 404 25, 358 25, 242 24, 237 24, 141 21, 848 26, 409 30, 223 32, 499	16, 576 20, 309 18, 962 20, 207 18, 857 18, 579 20, 326 19, 244 19, 726 19, 587 19, 838	322 215 199 176 263 151 432 296 262 290 283	69, 375 87, 879 80, 661 88, 814 84, 298 81, 784 82, 661 76, 944 85, 015 95, 600 94, 912	2,754 3,270 3,011 3,045 3,044 2,806 3,105 3,105 3,164 3,066 3,408 2,796	6, 869 8, 465 7, 376 8, 757 7, 671 8, 041 8, 900 10, 099 9, 211 10, 101 9, 493	48,000 51,760 44,336 45,073 40,556 48,455 47,149 48,361 47,010 51,964 44,932	712 1,085 785 1,171 875 1,117 878 897 1,112 1,018	58, 335 64, 581 55, 508 58, 045 52, 146 60, 419 60, 032 62, 511 60, 399 66, 491 58, 883	10, 174 10, 154 9, 200 8, 965 8, 720 8, 317 7, 504 6, 381 8, 277 9, 148 8, 479	68, 509 74, 735 64, 708 67, 010 60, 866 68, 736 68, 893 68, 676 75, 639 67, 362
January	47,398 37,141	30, 288 26, 739	21,707 19,462	307 <b>5</b> 13	99, 700 83, 855	3, 364 2, 864	9,372 9,470	53, 135 44, <b>324</b>	1,068 <b>85</b> 2	66,939 57,510	9,798 9,823	76, 73 <b>7</b> <b>67, 333</b>

#### FOREIGN TRADE OF FRANCE.1

			IMPORTS.					EXP	ets.		
Year and month.		In thousan	ds of francs.		In		In th	nousands of	francs.		In
	Food.	Raw mate- rials.	Manufac- tured articles.	Total.	thou- sands of metric tons.	Food.	Raw mate- rials.	Manufac- tured articles.	Parcel post.	Total.	thou- sands of metric tons.
Monthly average: 1913. 1920. 1921. 1922.	151,465 989,576 517,158	412, 144 2, 096, 379 1, 033, 170	138, 169 1, 072, 787 412, 045	701, 778 4, 158, 741 1, 962, 373	3, 685 4, 211 3, 165 4, 281	69, 908 217, 733 161, 031	154, 841 509, 485 463, 219	301, 421 1,413,548 1,067,413	47, 182 100, 479 104, 430	573, 351 2, 241, 245 1, 796, 092	1,840 1,071 1,333 1,877
1922.* February	385, 021 460, 765 438, 000 504, 000 483, 356 476, 813 510, 597 473, 000	1,137,855 1,005,463 983,000 996,000 1,082,371 1,200,764 1,096,903 1,087,000	324, 150 465, 737 323, 000 310, 000 285, 448 318, 169 352, 229 333, 000	i, 847, 026 1, 931, 965 1, 743, 640 1, 810, 125 1, 851, 184 1, 995, 746 1, 959, 729 1, 893, 000	4, 126 4, 434 3, 787 4, 396 4, 307 4, 223 4, 512 4, 138	153, 892 130, 595 136, 000 132, 000 113, 435 179, 407 141, 000	448, 455 456, 930 461, 000 498, 000 374, 959 408, 005 477, 000	1,106,507 1,189,712 1,231,000 1,127,000 885,029 931,066 1,055,000	144, 458 99, 431 134,000 111,000 59,619 157,836 68,000	1,741,000	1,788 2,616
November	570,395 516,586 628,705	1,189,564 1,478,424 1,903,975	348, 913 353, 235 390, 616	2,108,872 2,348,245 2,923,296	4,543 4,577 4,930	19 <b>5</b> , 46 <b>7</b> 196, 112 249, 079	493,804 537,370 1,185,596	1,098,983 856,421 1,119,980	149,213 116,596 224,292	1,937,467 1,706,499 2,778,947	2,034 2,034 2,429
1923. JanuaryFebruary	457,976 551,000	1,374,222 1,445,000	312,096 347,000	2,144,294 2,343,000	4,111 3,884	187,004 242,000	434,786 730,000	944,740 1,236,000	129,368 121,000	1,695,898 2,329,000	1,89 2,49

Not including reexport trade.
 Calculated on 1919 value units.

Imports calculated on basis of actual declared value.
 Value of exports not available. Beginning with June, exports calculated on 1921 value units.

## FOREIGN TRADE OF DENMARK, ITALY, NETHERLANDS, SWEDEN, CANADA, BRAZIL, INDIA, AND JAPAN.

Year and month.	Denn (In mill kron	lions of	Ita (In mil lir	lions of	Nether (In mil guild	lions of	Swe (In mil kron	lions of	Can (In mil dolla	ada. lions of ars.)	Bra (In mil milr	lions of	Ind (In mil rupe	lions of	Jap (In mil ye	llions of
	Im- ports.	Ex- ports.	Im- ports.	Ex- ports.	Im- ports.	Ex- ports.	Im- ports.	Ex- ports.	Im- ports.	Ex- ports.	Im- ports.	Ex- ports.	Im- ports.	Ex- ports.	Im- ports.	Ex- ports.
Monthly average: 1913 1920 1921 1922	71 262 136 125	60 151 121 101	304 1,322 1,041	210 650 657	(2) 278 187 169	(2) 142 114 102	71 281 106 97	68 191 91 97	56 89 103 63	31 107 101 74	84 174 141	82 146 142	134 173 280	205 272 214	61 195 135 156	53 162 104 136
1922. January. February March. April. May June July August. September October. November	71 103 126 159 142 117 135 134 148	80 76 100 76 113 126 107 90 122 112 112 109	1,316 1,056 1,311 1,157 1,245 1,662 1,101 1,080 1,236 1,395 1,254	620 720 716 689 592 861 672 732 747 889 1,046	152 152 180 167 194 151 164 179 165 187 172 163	86 84 113 93 108 101 105 99 116 112 104 100	77 49 109 102 97 93 83 105 109 118 111	61 38 71 60 90 104 113 132 123 122 122 128 120	51 54 79 48 66 62 61 67 60 67 76	47 47 61 33 70 73 72 74 73 104 112	92 101 131 127 127 129 109 147 132 226 170 208	199 161 172 187 141 149 154 182 202 299 237 250	276 189 215 178 191 164 182 212 182 229 206 192	230 222 277 239 273 192 244 252 216 216 218 278	179 198 208 185 169 157 142 137 135 105 116	87 101 115 129 154 146 146 150 161 139
1923. JanuaryFebruary	141				173 162	92 95	88	65			203				148 154	95 122

Italian yearly figures for 1921 based on average for six months only.
 Dutch figures for 1913 not comparable with later figures.

## FOREIGN TRADE OF UNITED STATES.

[In thousands of dollars.]

				IMP	orts.							EXI	PORTS.			
					Merci	nandise							Merc	handise.		
Year and montb.	Gold.	Silver.	Crude mate- rials for use in manu- factur- ing.	Food- stuffs in crude condi- tion and food ani- mals.	Food- stuffs partly or wholly manu- fac- tured.	Manu- fac- tures for further use in manu- factur- ing.	fac- tures ready for con-	Total mer- chan- dise.1	Gold.	Silver.	Crude mate- rials for use in manu- factur- ing.	in crude condi- tion and	Food- stuffs partly or wholly manu- fac- tured.	Manu- fac- tures for further use in manu- factur- ing.	Manu- fac- tures ready for con- sump- tion.	Total mer- chan- dise. <sup>3</sup>
Monthly average: 1913. 1920. 1921. 1922.	5.309 34,756 57,606 22,919	7,338 5,270	145,995 71,090	18,399 48,136 25,331	103.178	66.871	73,060		7,650 26,841 1,991 3,073	9,468 4,298	64,072 155,897 82,002 81,817	76,499 57,681	93,050 55,809	79,875 33,323	64,998 267,071 135,450 107,845	685,668 373,760
February.  March. April. May June July August September October  November December  December	12,244 8,994 12,977 42,987 19,092 24,464	6,953 4,800 5,512 6,346 6,957 4,944 6,370 3,940 5,855	91,140 87,298 110,285 86,818 137,378 110,705	28,756 25,711 31,264 26,170 27,596	37,346 38,511 42,404 24,023 30,324 32,319	46,471 48,398 48,430 41,026 65,685 56,195	1 58,439 49,464 55,858 54,038 71,952 58,866	256, 178 217, 023 252, 817 260, 460 251, 772 281, 376 228, 795 345, 083 291, 906	1,732 963 1,579 3,407 1,601 644 956 1,399 17,592 3,431 2,710	4,302 5,109 5,677 6,004 6,289 3,861 3,735 3,269 6,599	73,001 79,511 64,441 70,219 60,024	40,798 33,615	58, 899 47, 372 50, 376 55, 485 49, 226 46, 071 43, 231 47, 919 51, 471	43, 632 37, 969 40, 467 39,086 35, 676 35, 708 35, 566 32, 943 33, 593	112,765 113,876 112,112 121,284 109,544 104,871 106,542 110,177 110,532	329, 980 318, 470 307, 569 335, 117 301, 157 301, 775 313, 197 370, 719
1923. January 4 February	<b>32,8</b> 20 8,383	5,825 3,792				 		319,000	8,472 1,399	6, <b>9</b> 21 2,191	102,074	24,201	50,741	43,264	109,722	335,894 310,000

Including miscellaneous merchandise imported.
 Including miscellaneous and foreign merchandise exported.
 Imports under old tariff law September 1-21, 1922, only.
 Import figures delayed owing to change in tariff.
 Imports for Sept. 21-Oct. 31.

#### FOREIGN TRADE INDEX.

There are presented below the Federal Reserve Board's series of index numbers designed to reflect relative quantity movements in the foreign trade of the United States. Changes in the level of prices have been allowed for by multiplying the quantities of selected commodities exported or imported each month by fixed 1913 prices.<sup>1</sup>

		Exp	orts.			Imp	orts.	
Year and month.	Raw mate- rials (12 com- modi- ties).	Produc- ers' goods (10 com- modi- ties).	Consum- ers' goods (7 com- modi- ties).	Total (29 com- modi- ties).	Raw materials (10 commodities).	Productors' goods (12 commodities).	Con- sum- ers' goods (5 com- modi- ties).	Total (27 com- modi- ties).
1913, year 1919, year 1920, year 1921, year 1922, year	100. 0 88. 9 92. 2 103. 1 89. 7	100. 0 155. 1 158. 7 116. 9 108. 9	100. 0 183. 6 133. 6 124. 1 135. 1	100. 0 115. 3 107. 5 108. 9 101. 1	100. 0 157. 5 135. 8 113. 6 157. 6	100. 0 192. 9 227. 5 162. 8 253. 1	100. 0 147. 5 138. 9 141. 4 143. 0	100, 0 168, 4 168, 8 135, 6 189, 1
1922. January February March April May June July August September October November	82. 6 68. 5 89. 8 90. 5 78. 3 86. 3 79. 1 88. 8 91. 2 122. 9 112. 6	104.3 86.0 121.7 120.9 128.8 124.3 124.0 90.0 98.9 96.8	129. 7 127. 6 156. 5 150. 5 155. 4 169. 2 133. 5 126. 3 111. 5 121. 0 117. 2 122. 8	94. 5 82. 6 106. 9 106. 0 99. 4 107. 4 95. 0 96. 7 96. 2 119. 8 112. 4	118. 4 123. 3 148. 1 125. 5 144. 6 148. 7 146. 9 174. 2 183. 5 155. 0 195. 1	228. 7 281. 3 306. 8 236. 1 227. 9 273. 3 266. 3 255. 5 244. 0 241. 6 242. 0	135. 2 133. 5 161. 1 152. 0 168. 0 137. 3 137. 5 120. 3 133. 4 138. 4 144. 4 153. 9	160. 1 183. 4 206. 5 169. 1 177. 9 191. 0 187. 7 194. 2 196. 7 172. 4 204. 1
1923. January February	78. 8 62. 2	126.5 130.9	137.3 129.6	96. 5 95. 8 83. 2	219.1	263.0	103.9	224, 0

The total volume of exports dropped off about 13 per cent in February, according to the figures above. The level was 83.5 in comparison with 100 in 1913. The greatest decrease took place in the group of raw materials, which fell 21 per cent. Consumers' goods decreased 6 per cent, but producers' goods rose 5.6 per cent. The commodities mainly responsible for these changes were the following: Among raw materials, raw cotton, copper, and wheat declined in volume, the latter commodity showing its usual seasonal decline. Among producers' goods, sole leather and gasoline rose quite

strikingly. Declines were slight. Among consumers' goods, exports of hams, lard, and illuminating oil fell from the January figure. There was an enormous increase in sugar exports, from 10,568,000 pounds in January to 65,942,000 pounds in February.

Import figures for 1922 are now complete. December figures showed increased imports in all groups of commodities. Comparing yearly figures it is to be observed that during 1922 the average volume of imports increased 40 per cent over 1921. This compares with a decrease of 7 per cent among exports. The most important rise in 1922 imports occurred in producers' goods which increased 56 per cent. Raw materials were 39 per cent higher and consumers' goods 1 per cent higher.

#### SAVINGS DEPOSITS.

Savings deposits, as reported by 880 banks distributed throughout all sections of the United States, continued to increase during February in all Federal reserve districts. On March 1 the total deposits were \$6,394,117,000, or an increase of 0.8 per cent over February 1, 1923, and 9.2 per cent over March 1, 1922. The increases reflected the improvement in employment conditions due to continued industrial development. A comparison of savings deposits on March 1, 1923, with deposits on February 1, 1923, and March 1, 1922, are shown in the following table. The figures for the Boston and New York districts are those of large mutual savings banks, but in all other districts reports of other banks are included to make the figures thoroughly representative.

SAVINGS DEPOSITS.

[000 omitted.]

District.	Num- ber of banks.	Mar. 1, 1923.	Feb. 1, 1923.	Mar. 1, 1922.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis. Minneapolis.	30 80 18 93 82 210 35 15	1, 158, 610 1, 809, 394 446, 773 412, 811 285, 829 176, 536 827, 691 125, 774 88, 992	1, 150, 793 1, 805, 923 442, 083 411, 325 284, 707 174, 151 818, 513 125, 229 86, 220	1, 081, 935 1, 698, 535 426, 470 374, 773 255, 034 153, 927 758, 258 110, 704
Kansas City Dallas San Francisco Total	75 880	101, 624 83, 030 877, 113 6, 394, 177	101, 357 81, 654 864, 077 6, 342, 845	88, 619 70, 529 758, 249 5, 855, 516
10001	000	0,004,111	0,042,040	0,000,0

<sup>&</sup>lt;sup>1</sup> The list includes 27 of the most important imports the value of which in 1913 formed 49.3 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 classification of the original list of commodities used was given in the July, 1920, BULLETIN. The classification of 11 additional commodities of imports was given in the April, 1921, BULLETIN, and 2 additional commodities in the November, 1921, BULLETIN. Exports of gasoline have been altered to include naphtha.

# COMMERCIAL FAILURES DURING FEBRUARY.

	Num	ber.	Liabil	ities.
District.	1923	1922	1923	1922
No. 1—Boston	150	206	\$4,637,721	\$6, 235, 271
No. 2—New York	262	300	8, 883, 288	24, 202, 858
No. 3-Philadelphia	58	93	1,024,670	2, 436, 402
No. 4—Cleveland	121	235	6, 293, 852	4,627,038
No. 5—Richmond	109	213	2, 452, 891	4, 761, 744
No. 6—Atlanta.	135	270	4,029,704	5, 331, 050
No. 7—Chicago	195	288	3,081,365	7, 876, 931
No. 8—St. Louis	81	167	1,008,734	4, 653, 231
No. 9—Minneapolis		97	2, 217, 789	2, 300, 814
No. 10—Kansas City	89	99	1, 154, 384	2,006,480
No. 11—Dallas	91	207	2, 104, 596	5, 889, 143
No. 12—San Francisco	145	156	3, 738, 945	2, 287, 431
Total	1,508	2,331	40, 627, 939	72, 608, 393

## REPORT OF ASSOCIATED KNIT UNDER-WEAR MANUFACTURERS OF AMERICA.

Production of winter and summer underwear by months since February, 1922, is given in the following table:

		ber of portin		Produc	etion (in d	ozens).
Month.	Total.	Win- ter.	Sum- mer.	Total.	Winter.	Summer.
	-	1				
1922.		36	20	663,346	332, 224	331,122
February March	53 54	36	32 34	756, 247	392, 595	363, 652
Ameil		38	31	522, 035	275, 911	246, 124
April		34	28	518, 150	298, 080	220,070
May June		38	25	564, 893	345, 605	219, 288
July		41	23	422, 872	269, 223	153,649
August		41	24	519, 511	341,713	177, 798
September	52	42	27	513, 572	318, 220	195, 352
October	47	38	25	524, 486	283, 242	241, 244
November	49	38	28	599, 891	321, 944	277, 947
December	52	36	27	461, 695	233, 459	228, 236
1923.						
January	49	37	28	558, 845	269,026	289, 819
February	50	38	32	564, 708	269, 950	294, 758

Forty-two representative mills which reported for January and February furnished the data for the following table:

	January, 1923.	February, 1923.	Loss.
Unfilled orders (end of month)	827, 389	1,794,311	236, 876
New orders		353,977	473, 412
Shipments		584,074	19, 338
Cancellations.		6,779	9, 016
Production.		472,998	28, 533

## INDEX OF OCEAN FREIGHT RATES.

The accompanying table shows the monthly fluctuations in ocean freight rates prevailing between United States Atlantic ports and the principal European trade regions. The figures are derived from the actual rates quoted on the following commodities: Grain, provisions, cotton, cottonseed oil, and sack flour. Rates in January, 1920, have been used as a base. For the methods used in constructing the index see the August, 1921, BULLETIN, pages 931–934.

RELATIVE OCEAN FREIGHT RATES IN UNITED STATES AND EUROPE TRADE.

		United	States At	lantic po	rts to—	
Month.	United King- dom.	French Atlantic.	Nether- lands and Belgium.	Scandi- navia	Medi- terra- nean.	All Europe.
January, 1920 January, 1921		100. 0 30. 2	100. 0 34. 1	100.0 42.9	100.0 43.2	100. 0 43. 3
1922. January February March April May June July August September October November December	33. 1	22. 7 25. 9 26. 5 24. 8 25. 5 26. 1 25. 9 23. 4 24. 1 23. 4 25. 6	23. 3 25. 2 24. 9 22. 7 22. 8 23. 0 22. 6 20. 7 19. 1 18. 9 21. 3 22. 2	23. 4 23. 3 23. 4 24. 0 23. 4 23. 0 22. 4 22. 6 22. 9 22. 9 22. 7	32. 2 31. 8 30. 1 27. 1 27. 4 26. 4 24. 0 22. 2 21. 6 21. 3 21. 8	27. 1 29. 1 28. 3 25. 4 25. 7 25. 7 25. 9 24. 6 23. 4 22. 4 24. 0 24. 4
1923. January February March	25. 3 21. 8 21. 7	24.7 22.6 23.6	19.8 18.6 20.0	22.3 22.3 22.3	21.2 20.6 19.5	22.9 21.1 21.4

## PRODUCTION AND SHIPMENTS OF FINISHED COTTON FABRICS.

		Januar	у, 1923.			Februa	ry, 1923.	
	White goods.	Dyed goods.	Printed goods.	Total.	White goods.	Dyed goods.	Printed goods.	Total.
Total finished yards billed during month:						ĺ		
District 1	13, 104, 851 7, 054, 901	27, 851, 640 2, 099, 906	11, 130, 702	55, 208, 039	12, 781, 525	27, 458, 764 3, 800, 797	10, 397, 550	53, 886, 334
2 3	8,927,484	7,082,378	5, 038, 826	23, 261, 422 16, 009, 862	5, 076, 248 8, 332, 926	6, 515, 980	4,791,188	21, 055, 176 14, 848, 906
5	8,729,582	107, 752		8, 837, 334	7,069,422	89, 897		7, 159, 319
6	916, 470			916, 470	991, 168			991, 168
8		•••••		1,752,853		•••••		1, 501, 075
Total	38, 733, 288	37, 141, 676	16, 169, 528	105, 985, 980	34, 251, 289	37, 865, 438	15, 188, 738	99, 441, 978
Total average percentage of capacity operated:								
District 1	59	92	68	73	58	95	62	73
2	65	60	37	73 73	57	66	46	74
5	120 72	93		106 72	107 62	80		93 62
6	69			69	75	•••••	• • • • • • • • • • • • • • • • • • • •	75
8				68				63
Average for all districts	72	88	63	77	67		59	74
Total gray yardage of finishing orders received: District 1	14, 475, 319	30, 391, 999	10, 127, 543	58, 415, 939	13, 980, 547	29,618,028	9, 481, 922	56, 770, 679
2	7, 800, 512	6, 420, 251	5,924,454	25, 750, 871	6, 298, 129	5, 480, 804	4,698,309	20, 779, 723
3	9, 785, 371	8,024,031		17, 809, 402	8, 305, 886	6,809,102	-,,,	15, 114, 988
5	6, 425, 961	156,025		6, 581, 986 916, 470	7,079,637	355, 186		7, 434, 823
6 8-	916, 470	•••••	• • • • • • • • • • • • •	916, 470 1, 655, 464	991, 168	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	991, 168
0				1,000,404				1,735,325
Total	39, 403, 633	44,992,306	16, 051, 997	111, 130, 132	36, 655, 367	42, 263, 120	14, 180, 231	102, 826, 706
Number of cases of finished goods shipped to customers:								
District 1	6,028	8, 367	2,140	29,615	5,834	8, 537	2,729	29,687
2	3, 107	592		12, 247	3, 198	375		11, 577
3	6,703	3,617		10,320	6, 166	3, 223		9, 389 3, 985
5 6	1,766	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	4, 813	1,654			3,985
8				476				454
Total	17,604	12,576	2,140	57, 471	16, 852	12, 135	2,729	55, 092
Number of cases of finished goods held in stor-								
age at end of month: District 1	4 701	4,630	0.407	01.00	4 150	4 077	0 204	00.017
District 1	4,701 4,008	4,630 589	2,497	21, 987 12, 736	4, 153 3, 803	4,377 447	2,304	20, 817 11, 446
3.	332	385		7,452	327	374		7,211
5				1,279				1,243
6				·····				
8		• • • • • • • • • • • • • • • • • • • •		204				218
Total	9,041	5,604	2,497	43,658	8, 283	5, 198	2, 304	40, 935
Total average work ahead at end of month (expressed in days):								
District 1	4.8	17.5	19.1	13.5	5.4	17.2	17.4	13. 3
2 3	5. 1 13. 3	7. 1 15. 6	3.0	12.0 14.5	10.0 14.1	9.8	11.9	11.3 13.6
5	3.8	13.6		3.8	14.1 5.3	13. 1		5.3
6								1
8				4.5	• • • • • • • • • • • • • • • • • • • •			7.0
Average for all districts	5, 8	16.0	16, 4	12, 1	7.2	15, 4	16, 5	12. 1
Average for all districts	5.8	16.0	16. 4	12.1	7.2	15.4	16.5	12.

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 district.

¹ The National Association of Finishers of Cotton Fabrics at the request of the Federal Reserve Board prepares a monthly survey for 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 32 out or 57 member firms of this association. 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, 70 per cent; dyed goods, 62 per cent; printed goods, 30 per cent. The figures given represent reports from exactly the same finishers for the two months, both of the totals and for the subdivisions, and, therefore, are strictly comparable.

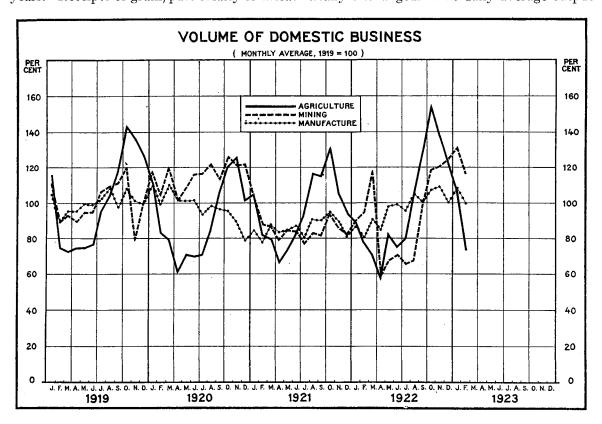
## PHYSICAL VOLUME OF TRADE.

February business activity, except in the case of crop marketing, continued at approximately the same high rate as during the preceding month, but the total volume of trade, as reflected by available statistics, was smaller, owing to the shortness of the month. cultural movements declined considerably and to a point slightly below that of last February. This may be attributed largely to the prompt marketing of crops early in the season, as shown by the large volume moved during the fall months. Mineral production fell off for the first time since last July, but this was largely, if not entirely, seasonal. The decline in manufacturing output may also be attributed to the short month, for the rate of activity continued practically unabated in almost all industries.

Movements of many agricultural products reached extremely low levels during February. Cotton sight receipts, for example, were smaller than during any February within the last five years. Receipts of grain, particularly of wheat | tically unchanged. The daily average output

were considerably smaller than during January and somewhat below those of February, 1922, but were fairly well maintained when compared with other years. Stocks of grains on farms, except of corn, were larger than they were a year ago, and the visible supply of wheat was also greater than at the same time last year. Receipts of most grains at seaboard points were curtailed during February, and stocks at ports fell to a level slightly below that of a year ago. Live-stock receipts and shipments at principal markets, as is customary, were smaller than during January, but compared favorably with February of previous Tobacco sales also fell off during Febyears. Citrus-fruit shipments from California ruary. were extremely large, indicating an early marketing of the crop.

Output of all mineral products during February was greater than during the same month last year, and less than during January, 1923, but, as compared with the latter month, the rate of production was either greater or prac-



of crude petroleum again reached a new high record, and that of pig iron exceeded all months since March, 1920. Although zinc production was at a high rate, shipments were still larger, and as a result stocks were reduced to less than a week's supply. Deliveries of tin to factories were double those of February, 1922.

Total manufacturing output during February declined to slightly below the December level. Steel-ingot production was less than in January, but exceeded that of any other February within the past six years. Despite this high rate of output, unfilled orders of the United States Steel Corporation increased further during the month, and fabricated steel bookings likewise were augmented. February production of passenger cars exceeded the output for any other month except June, 1922, since statistics have been compiled, i. e., since July, 1921, and automobile shipments and driveaways were also the largest ever recorded. The output of locomotives was only slightly less than during January, and unfilled orders increased 24 per cent. The amount of lumber cut was curtailed more than usual during February by bad weather, but shipments continued at the same rate as in January. Both the demand for and the production of other building materials continued practically unchecked during February. Activity among textile mills either increased or was maintained at practically the same rate as in January. The number of cotton spindles active exceeded all previous records. The production of leather and of shoes was without significant change. The output of food products, as a whole, showed the usual seasonal declines.

INDEX OF PRODUCTION IN BASIC INDUSTRIES, WITH ALLOWANCE FOR SEASONAL VARIATION.

[Monthly average, 1919=100.]

	1919	1920	1921	1922	1923
January	107.3	115.8	83. 9	86. 5	120. 7
February	. 100.3	114.8	84.3	90.5	120.1
March	. 96.2	114.5	81.0	94. 9	1
April		107.6	78.6	85.3	
May	92.9	105, 4	76, 7	92. 1	
June		106.8	76. 7	94. 2	
July		104.9	74. 1	94. 8	
August		102. 1	78.5	93. 9	
September		101.7	79. 1	99. 9	
October	101.1	99.0	82.7	106.9	
November.		95, 3	85.6	115.5	
December		89.6	83. 3	115, 6	

INDEXES OF DOMESTIC BUSINESS UNCORRECTED FOR SEASONAL CHANGES.

## [Monthly average of 1919-100.] AGRICULTURAL MOVEMENTS.

Date.	Total agricul- ture.1	Total ani- mals.	Total grains.	Cotton.	Fruit.	Leaf to- bacco.
1922.						
January	88.9	91.8	83, 8	76.8	96. 1	113, 2
February	77.7	76, 5	92. 3	43. 3	55, 5	101. 2
March	70. 7	79. 2	73.0	42.8	130. 4	27. 5
April	57.4	71.8	49.6	37.0	103. 0	5, 5
May	82.6	90. 2	92. 5	50. 1	105. 7	3.9
June	75.1	88. 7	77. 1	43.0	93. 8	1.5
July	79.8	81. 2	106. 4	33.4	59. 3	12. 3
August	106. 7	96. 5	153.8	48.3	43. 1	55, 2
September	128, 8	106.6	150, 6	139, 5	38. 0	85.7
October	154, 2	132.0	135.7	227. 8	40.6	144.7
November	137. 9	122. 2	118. 2	204. 1	49. 0	96. 3
December	121.3	104, 6	128. 5	139, 2	100, 1	97.3
1923.				1		
January	106.6	107.7	116.4	80, 2	99.7	75, 1
February	73.3	84. 4	75.7	37. 4	117.7	45.1

<sup>&</sup>lt;sup>1</sup> Combination of 14 independent series.

#### MINERAL PRODUCTS.

Date.	Total. min- eral prod- ucts.	Bi- tumi- nous coal.	An- thra- cite coal.	Crude petro- leum.	Iron.	Cop- per.	Zinc.	Lead.
1922.				1				
January	91.3	98. 5	85. 1	137. 1	64.3	24. 1	60.3	101.0
February	95. 4	107.3	92.0	129.7	63.9	34.8	57.3	93. 4
March	117.5	131. 5	119. 1	149.1	79.9	58.0	67.5	93.0
April	59. 5	41.3	.3	141.9	81.3	71.7	65.6	88, 8
May	67.9	53.1	.6	147.7	90.5	83.7	69.8	89.0
June	70.6	58.4	1.1	143.8	92.6	89.0	72, 6	89. 1
July	65. 4	44. 5	1.6	148.0	94.2	85.0	81, 2	84.4
August	67. 5	58.3	2, 2	147, 1	71.1	93. 9	79. 9	96.7
September.	99.9	107. 3	67. 7	143.8	79.8	89.8	84.3	95. 3
October	118.5	118.3	116. 1	150.1	103.5	96. 2	101.6	108. 3
November.	120. 1	118,6	114.1	152. 1	111.8	94.6	102, 3	113, 2
December	124, 5	121.7	114.7	159. 3	121.1	97.5	109.0	108. 9
1923.			ļ				;	
January	131.5	131. 4	118.5	163.5	126.7	104.6	117.8	112.7
February		110.5	105.8	153.8	117.5	95.5	108.0	101.4

<sup>1</sup> Combination of 7 independent series.

### PRODUCTION OF MANUFACTURED GOODS.

Date.	Total man- ufac- ture. <sup>1</sup>	Steel.	Lum- ber.	Pa- per.	Petro- leum.	Tex- tiles.	Leath- er.	Food.	To- bacco.
1922.									
January	87.0	63.4	100, 7	95.0	119.0	11, 22	88, 2	91.3	90.6
February	80. 2	69.3	95. 4	90.0	108.6	96.8	78. 1	88. 5	83.8
March	90.9	94.3	102, 5	108. 4	123.9	107.6	78, 5	96.5	98.4
April		97.0	98. 1	99. 9	124. 4	91. 3	70.7	84.9	89.6
May		107. 8	121, 1	112.3	132, 2	108.9	70.4	96.8	108.1
June	99.1			110.6		107. 1		98. 9	119.8
July	95.3	98. 9	104.3			95.0	72. 1	97.5	114.8
August	104.6	88.1		110.7				104.5	134.1
September				107. 8		110.7	79. 5		
October	107. 5			112.8		120.0	82.7	106.7	
November				113. 4		125.0			
December	100.0			106.8		113.3			
1923.					.02.	2.0,0	10.0		
January	108.7					128, 0	88. 9	104. 1	115.3
February	2 99, 9	116, 1	95.8	109.0		122.0	78.4	95.3	101.3

<sup>&</sup>lt;sup>1</sup> Combination of 34 independent series. <sup>2</sup> Partly estimated.

COMMODITY MOVEM	ENTS.			COMMODITY MOVEMENTS	SContin	ued.	
	Febru- ary, 1923.	Janu- ary, 1923.	Febru- ary, 1922.		Febru- ary, 1923.	Janu- ary, 1923.	Febru- ary, 1922.
Grain and Flour.				Live Stock—Continued.			
Receipts at 17 interior centers (000 omitted): Wheat (bushels). Corn (bushels). Oats (bushels). Bye (bushels). Barley (bushels).	22, 099 31, 577 16, 041 4, 749 2, 556	38,122 37,496 24,511 7,176 3,776	24,109 57,893 19,328 1,589 2,358	Shipments of stockers and feeders from 33 markets (head, 000 omitted): Cattle and calves Hogs. Sheep	206 165 50	274 62 170	241 57 169
Total grain (bushels)	77,002	111,081	105,278	Total	411	506	467
	1,738	1,993	1,852	Slaughter at principal centers under Federal inspection (head, 000 omitted):	60.4	745	569
Total grain and flour (bushels)  Shipments at 14 interior centers (000	84,823	120,051	113,611	Cattle Calves Hogs	634 297 4,231	352 5,134	279
omitted): Wheat (bushels).	10,936	18,278	12,463	Sheep	836	1,021	3,480 776
Corn (bushels) Oats (bushels) Rye (bushels) Barley (bushels)	14,377 13,438 2,476 1,747	21,083 21,155 4,592 2,315	31,100 12,106 721 1,373	Total	5,998	7,252	5,104
Total grain (bushels)	42,974	67,423	57,763	Beef. Pork products.	837,636	113,415 686,825	73,782 608,747
Flour (barrels)	3,055 56,723	3,331 82,411	3,247 72,374	Lamb and mutton	5,758	5,283	2,863
Stocks at 11 interior centers at close of month (000 omitted):  Wheet (bushele)	26 006	33,787 15,533	27,832	Beef— Canned. Fresh Pickled and other cured.	253 320 1,929	168 320 1,205	193 309 2,069
Corn (bushels) Oats (bushels) Rye (bushels) Barley (bushels)	18, 492 24, 155 10, 711 1, 825	15,533 26,027 8,241 1,880	26,178 56,564 4,337 1,475	Hog products— Bacon Hams and shoulder. Lard. Pork, pickled.	36,296 28,192 89,055	43,352 31,080 107,786	30,794 25,209 75,520 2,816
Total grain (bushels)	91, 279	85,468	116,386		3,863	3,806	2,810
Total visible supply of grain east of the Rocky Mountains (000 omitted): Wheat (bushels). Corn (bushels). Oats (bushels).	51,500 29,585 29,937	50,361 22,908 33,165	44,388 43,801 74,384	Bairy Products.  Receipts at 5 principal markets (000 omitted): Butter (pounds)	40,662 12,575	48, 123 12, 887 853	38,894 11,319 1,020
Receipts at 9 seaboard centers (000 omitted): Wheat (bushels). Corn (bushels). Oars (bushels). Rye (bushels). Barley (bushels).	10,767 8,395 1,235 3,794 1,632	24,693 8,211 2,407 6,031 1,455	13,792 22,246 2,342 912 640	Eggs (cases).  Cold storage holdings first of following month (000 omitted):  Creamery butter (pounds).  American cheese (pounds).  Eggs (cases)	8,913 20,709 14	16, 121 26, 594 213	22,582 15,006
Total grain (bushels)	25, 823	42,796	39,932	Fishery Products.			
Flour (barrels)  Total grain and flour (bushels)	1,621 33,116	1,849 51,115	47,401	Fish landed by American fishing vessels, total catch (pounds, 000 omitted) Cold storage holdings frozen and cured fish, on 15th of month (pounds, 000 omitted)	12,499	7,897	11,901
Stocks at 8 seaboard centers at close of				Į:	50,645	67,514	55,092
month (000 omitted): Wheat (bushels) Corn (bushels) Oats (bushels) Rye (bushels) Barley (bushels)	9,601 4,795 2,791 2,559 2,077	10,163 4,228 3,252 2,130 2,597	10,367 8,251 1,692 2,343 2,058	Other Agricultural Products.  Cottonseed (tons): Received at mills. Crushed. Stocks at mills at close of month.	92,200 317,182 302,381	213,235 469,783 527,839	130,988 291,095 254,015
Total grain (bushels)	21,823	22,370	i	Cottonseed oil (pounds, 000 omitted): Production. Stocks Oleomargarine consumption (pounds, 000	110, 403 83, 667	145,292 92,129	90,935 68,996
omitted)Live Stock.	9,425	10, 137	9, 232	Oleomargarine consumption (pounds, 000 omitted)	19,722	20,633	12, 195
Receipts at 57 principal markets (head.				(pounds, 000 omitted):  Dark belt—Virginia	5, 541	6,294	6,381
Cattle and calves. Hogs. Sheep	1,401 4,393 1,343	1,843 5,191 1,620	1,378 3,572 1,323	Bright belt— Virginia North Carolina Burley	3, 633 4, 728 12, 832 8, 263	5,029 9,264 25,622 11,615	10,644 11,333 34,520 12,109
Horses and mules (42 markets)	52	83	35	Western dark	8,263	11,615	12,109
Total	7,189	8,737	6,308	tobacco, excluding Porto Rico and Philip- pine Islands (000,000 omitted): Cigars (large).	507	559	44
000 omitted): Cattle and calves. Hogs. Sheep. Horses and mules (42 markets).	550 1,648 634	743 1,854 723	576 1,287 627	Cigars (small). Cigarettes (small). Manufactured tobacco (pounds). Fruit shipments (carloads):	44 4,623 29	52 5,350 34	3, 126 29
Horses and mules (42 markets) Total	2,883	3,402	35	Grapefruit. Oranges. Lemons.	1,877 8,009 626	2,451 7,009 686	1,818 4,443 677

COMMODITY MOVEMENT	S—Contii	nued.		COMMODITY MOVEMENTS	8—Contin	ued.	
	Febru- ary, 1923.	Janu- ary, 1923.	Febru- ary, 1922.		Febru- ary, 1923.	Janu- ary, 1923.	February, 1922.
Other Agricultural Products—Continued.	·			Metals—Continued.			
Vegetable shipments: White potatoes (carloads)	13,758 1,398 56,178	16,477 1,909 101,552	13,561 1,022 102,038	Iron and steel—Continued. Unfilled orders, United States Steel (long tons, 000 omitted)? Fabricated structural steel orders (ton-		7,284	4,49
Bulletin):	421,370		499, 432	nage) Steel barrels (number)— Shipments	176 193, 992	168 206,021	7 101,83 248,31
Receipts. Meltings. Raw stock at close of month. Forest Products.	383, 100 434, 556	270,600 485,772	400, 832 699, 353	Unfilled orders  Steeleastings—bookings (net tons)  Silver production (troy ounces, 000 omitted).  Copper production (pounds, 000 omitted).	603, 774 90, 152 4, 729 102, 515	518, 463 103, 581 5, 190 112, 341	37,08 3,87 37,41
Number of mills— National Lumber Manufacturing Association	569 170	553 172	452 172	Zinc production (pounds, 000 omitted): Production Stocks, close of month. Shipments	84, 886 21, 728 96, 306	92,634 33,148 95,990	45,02 128,24 48,13
Southern Pine Association Western Pine Association West Coast Lumbermen's Association	179 51 124	172 51 122	173 55 124	Tin (pounds, 000 omitted): Deliveries to factories Stocks at close of month	13,854 4,601	14,840 7,513	7, 20 3, 14
Production (feet, 000,000 omitted)— National Lumber Manufacturing Association.	978 359	1,066 409	776 353	Textiles. Cotton (bales, 000 omitted): Sight receipts.	410	872	77.
Southern Pine Association Western Pine Association. West Coast Lumbermen's Association tion Shipments (feet, 000,000 omitted)— National Lumber Manufacturing	59 59 <b>3</b> 03	64 314	311	American spinners' takings. Stocks at mills. Stocks at warehouses. Visible supply. Consumption by mills.	399 2,022 2,804	687 1,987 3,482 3,359	1,599 4,21 3,89
National Lumber Manufacturing Association Southern Pine Association Western Pine Association	1,132 386 117	1,282 477 129	739 326 89	Spindles active during month (number, 000 omitted)	35, 308	35, 241	33,75
West Coast Lumbermen's Association	360	373	267	Consumption (pounds, 000 omitted)  Percentage of active machinery to total reported—  Looms wider than 50-inch reed	57, 916	63,348	53,77
Spirits of turpentine (casks)— Receipts. Stocks at close of month	5,814 29,238	10, 326 38, 758	3,240 33,204	space Looms 50-inch reed space or less Sets of cards	85. 7 88. 4	85. 7 85. 8	68. 72. 81. 86.
Roceipts	46,644 282,610	67,967 338,957	38,533 299,305	Combs. Spinning spindles, woolen. Spinning spindles, worsted Percentage of active hours to total re-	87. 4 87. 0 91. 3	83. 8 84. 8 89. 5	79, 85.
Coal and coke (short tons, 000 omitted): Bituminous coal production	42 130	50, 178	40,980	ported— Looms wider than 50-inch reed			
Anthracite coal production	42,130 7,773 5,952	8,713 6,672 1,478	6,762 5,239 549	space Looms 50-inch reed space or less Sets of cards Combs	79. 7 74. 3 95. 0 93. 3	86.7 83.7 95.1 103.0	65 68 84 97
Beehive production	1,482 2,810 48,413	3, 100 51, 467	1,795 40,814	Spinning spindles, woolen Spinning spindles, worsted Raw silk:	94, 6 95, 8	91. 6 95. 4 34, 680	81. 82. 22, 1
Stocks at close of month		249,794 1,208	208, 851 1, 143	Consumption (bales)	44,615	47,087	28,9
Crude-oil run (barrels)	$\frac{47}{624}$	47 585	39 445	Sales of raw hides and skins during month (number, 000 omitted):			
Crude-oil run (barrels). Gasoline (gallons). Kerosene (gallons). Gas and fuel oils (gallons). Lubricating oils (gallons).	212 989 87	226 972 90	173 858 74	Cattle hides Calf skins Kip skins Goat and kid Cabretta	1,697 725 198 1,089	1,937 770 205 1,086	1,38 64 20
Crude-oil run (barrels)	$^{30}_{1,003}$ $^{275}$	34 884 281	31 706 327	Stocks of raw hides and skins at close of	2,902	99 3,408	1,4
Kerosene (gallons).  Gas and fuel oils (gallons).  Clectric power produced by public utility plants (000,000 kilowatt-hours):  Produced by water power.	1,265 241	1,305 236	1,319 245	month (number, 000 omitted): Cattle hides Calf skins Kip skins Goat and kid	6,772 2,648 1,068	6,384 2,937 1,149 8 938	5,7 2,8 9 7,6
1 roduced by fuels	1,487 2,863	1,615 3,134	1,223 2,247	Goat and kid. Cabretta Sheep and lamb. Production of leather (000 omitted):	903	8,938 1,079 9,188	13,0
Total	4,350	4,749	3,470	Sole leather (sides)	37	1,667 36 144	1,4
Pig-iron production (long tons, 000 omitted) <sup>2</sup> . Steel-ingot production (long tons, 000 omitted) <sup>2</sup> .	3,521 3,402	2, 994 2, 919	2,036 2,371	Boots and shoes output (pairs, 000 omitted): Men's. Women's. Other	. 9,393	8,999 9,617 11,942	6,6 8,6 9,1
omnieu ?	0, <del>1</del> 02	4,919	للتحريث	Total			24,5

COMMODITY MOVEMENTS	-Contin	ued.		COMMODITY MOVEMENT	SContin	ued.	
	Febru- ary, 1923.	Janu- ary, 1923.	Febru- ary, 1922.		Febru- ary, 1923.	Janu- ary, 1923.	Febru- ary, 1922.
Building Materials.				Miscellaneous Manufactures—Contd.			
Brick (000 omitted):				Solid tires (000 omitted):			
Clay fire brick—	56 075	64 904	34,683	Production Shipments, domestic	75 63	83 61	39 37
Shipments	53, 222	64,804 57,569	30,043	Stocks	270	262	183
Production. Shipments. Stocks, close of month New orders. Unfilled orders.	163, 426	163,977	146,911	Automobiles:			
Unfilled orders	88,713	64, 883 75, 421	35,941 30,357	Production (number)— Passenger cars	259, 383	223,653	98, 487
Face brick— Production		1	1 1	Trucks	21, 288	18, 913	12,861
Shipments	32,473 26,679	43,240 28,853	22,926 18,392	Shipments— Railroads (carloads)	35,700	35, 228	19, 636
Shipments Stocks in sheds and kilns Unfilled orders, close of month	134, 175	129,428	151,769	Driveways (machines)	42 700	30,027	10, 173
Silica brick—	91,819	74,718	44, 513	Boat (machines) Locomotives (number):	900	728	´180
Silica brick— Production.	14, 544	14,308	6,663	Domestic shipped Foreign completed	196	217	40
Shipments Stocks, close of month Cement (barrels, 000 omitted):	14, 418 45, 492	14,281 46,174	7, 263 35, 743	Foreign completed	11	12	4
Cement (barrels, 000 omitted):	,	'	1 '	Total	207	229	44
Production	8,085 5,963	7,704 5,419	4,278 3,285	Unfilled orders			
Shipments Stocks, close of month	13, 592	11, 470	14, 142	Domestic	2, 141	1,699	173
Oak flooring: Production	24, 421	27, 473	17, 282	Foreign	79	89	66
Shipments Orders booked	25,031	24, 162	16 455	Total	2,220	1,788	239
Stocks.	33,458 25,301	30, 137 25, 447	16,063 28,856	Vessels built in United States and officially			<u> </u>
Stocks. Unfilled orders.	56,936	50,398	20,907	numbered by the Bureau of Navigation:			
Maple flooring: Production	11,333	13,929	9,274	Number Gross tonnage	21,392	$\frac{36}{14,292}$	39 38,359
Shipments Orders booked	11,354	13, 269	7,947	Transportation.	21,392	11, 202	00,000
Stocks	16,033 25,539	24, 481 25, 023	8, 105 34, 248	Freight carried by Class I railways: 1	ļ		!
Stocks. Unfilled orders.	40, 200	36,084	11,818	Net ton-miles, revenue and nonrevenue			
Enameled ware: Baths—				(000,000 omitted)	37,668 692	36, 222 681	27, 105 632
Shipments Stocks at close of month	82,912	85,703	52,575	Net tons per train	29.0	28.6	27.6
New orders	40, 124 129, 847	40,530 133,198	56,759 49,134	Revenue freight loaded and received from	1		
Lavatories—	,	[ '	1	connections, classified according to nature of products (cars, loaded, 000 omitted): Grain and grain products Live stock			!
Shipments. Stocks at close of month.	83, 469 56, 543	91,116 60,535	70,654 101,566	Grain and grain products	165 128	212 155	204 115
New orders	156,033	170,693	68,414	[ Coal	742	869	757
Sinks— Shipments	99,085	116, 539	73,660	Coke	60 267	62 301	32 198
Shipments Stocks at close of month	59,806	59,580	129,505	Forest products Ore Merchandise 1. c. l Miscellaneous	41	49	17
New orders	167,607	195,984	71,434	Merchandise l. c. l	848 1,142	$925 \\ 1,239$	859 861
Shipments Stocks at close of month	44,766	53, 255 57, 616 93, 427	35,446	<b> </b>  -			
New orders	49,367 75,431	93, 427	80,742 35,240	Total	3,393	3, 813	3,043
Miscellaneous Manufactures.	ĺ.	,	,	Revenue freight loaded, classified according to geographical divisions:			
·		l	1	Eastern	812	910	754
Wood pulp (short tons):	270 457	314,834	243,310	Allegheny	731 134	820 143	634 141
Consumption.	235, 934	257, 859	202, 449	Southern	546	591	470 367
Wood pulp (short tons): Production. Consumption. Shipments. Stocks, end of month. Paper (short tons):	51,389 108 872	53,518 116,738	38, 265 178, 709	Northwestern	531	500 573	475
Paper (short tons):			110,100	Southwestern	210	278	202
Paper (short tons):  Newsprint— Production. Shipments. Stocks, end of month. Book paper—	114,611	127, 452	97,786	Total	3,393	3,813	3,043
Shipments	114,415	123,656	96, 521	Freight-car surplus (number):	<del></del>		
Book paper—	23,200	23,004	27,815	Total Box	23, 101 5, 692	26, 588 6, 976	271, 263 108, 845
Production. Stocks, end of month	89, 265	97,318	69,408	Coal	6,263	7, 208	109, 593
Paner hoard—		38,882	39, 334	Freight-car shortage (number): Total	75, 228	73, 163	562
Production. Stocks, end of month.	198,031	209,473	153,704	Box	29,138	26,815	414
Wrapping paper—	62, 901	57, 434	63,908	Coal	38, <b>432</b> 215, 552	38, 477 209, 471	331,050
Wrapping paper— Production Stocks, end of month	77, 813	82,703	62,035	Bad-order cars, total	210,002	200,411	301,000
		48, 123	59, 251	omitted): American	1,587	1,873	1,856
Production.	32, 377 39, 772	34,906	26,663	Foreign	2,526	2,678	2, 169
Rubber (pounds, 900 omitted);	39,772	38, 822	35, 804	Total	<del></del>		
Production. Stocks, end of month Rubber (pounds, 000 omitted): Consumption by tire manufacturers Pneumatic tires (000 omitted): Production	34,235	34, 186	18, 447	1	4,113	4,551	4,025
Production	3,218	3, 127	2,084	Percentage of American to total	38.6	41.2	46.1
Shipments, domestic	3, 218 2, 589 5, 244	2,994	2,084 1,562	Percentage of American to total.  Panama Canal traffic (tons, 000 omitted):  Total cargo traffic.	1, 592 775	1,535	807
Production. Shipments, domestic Stocks Inner tubes (000 omitted):	0, 244	4,696	4,691	American vessels	775 407	881 443	360 277
Production. Shipments, domestic. Stocks.	4,039	3,952	2,597 1,703	Bittish vessels.	107	440	1 211
Shipmants domestic	3,002	3,749	1 700 '				

## BUILDING STATISTICS.

#### BUILDING PERMITS ISSUED IN 168 SELECTED CITIES.

[Collected by the 12 Federal Reserve Banks.]

NUMBER OF PERMITS ISSUED.

	District	District	District	District	District	District	District	District	District	District	District	District	Total
	No. 1 (14	No. 2 (22	No. 3 (14	No. 4 (12	No. 5 (15	No. 6 (15	No. 7 (19	No. 8 (5	No. 9 (9	No. 10(14	No. 11 (9	No. 12(20	(168
	cities).	cities).	cities).	cities).	cities).	cities).	cities).	cities)	cities).	cities).	cities).	cities).	cities).
1922. February. July August September October November December	2,873 2,734 2,911	4,633 7,761 7,828 8,424 9,672 9,022 7,456	2,081 3,029 3,044 3,860 3,169 2,504 1,639	2,699 4,680 5,093 4,789 5,064 4,150 2,666	2,305 3,756 4,018 3,997 3,930 3,433 2,458	2,566 2,978 3,130 3,114 3,335 3,010 2,070	4,656 10,385 11,112 10,553 11,988 9,437 6,620	1, 434 2, 291 2, 354 2, 373 2, 492 2, 048 1, 653	517 2,125 2,244 1,932 2,029 1,437 698	1,755 2,467 2,778 2,629 2,906 2,669 1,601	2,114 2,238 2,534 2,223 2,470 2,184 1,510	7,600 9,415 11,596 11,291 12,254 10,490 7,767	33,480 53,722 58,691 62,230 52,685 37,453
January	905	6, 243	1,486	2, 946	2,787	2, 975	6,310	1,985	722	2,276	2,554	10,313	41, 502
February	838	6, 880	1,573	2, 901	2,585	2, 516	5,729	1,742	612	1,913	2,199	9,666	39, 154

VALUE OF PERMITS ISSUED (000 OMITTED).

		,							1				
1922.													
February	\$9,247	\$53,100	\$8,275	<b>\$8,450</b>	\$7,564	\$4,976	\$20,431	\$4,150	\$1,570	\$4.346	\$4,420	\$18,918	\$145,447
July	9, 175	47, 144	15, 899	26, 559	15, 515	7,516	38, 151	5, 699	7,663	8,041	5, 861	22, 391	209, 613
August	16,634	49, 211	15, 353	22, 037	11,605	7, 985	40, 453	5, 816	8, 285	9,793	5, 010	29, 424	221,606
September	8,656	56,670	15, 869	25,077	12,970	6,326	31,550	5,384	4, 761	8,352	4,980	23,968	204, 564
October	9, 159	66,063	13, 806	14, 907	11, 292	8,049	34,088	6, 353	4,717	8, 989	4,765	29,338	211, 527
November	8,388	66,684	15, 357	14,713	9, 519	5, 125	41, 425	5,812	5, 273	8, 278	3,860	26, 200	210,634
December	7,252	80,400	10,640	13, 050	14,486	5,156	53, 134	10, 115	3,686	6,923	9,570	22, 035	236, 446
1923.				!	!								
January	5,661	73, 574	9, 767	16, 458	11.083	7, 265	31,022	7, 936	3, 739	6, 903	6, 248	26, 164	205, 820
February		88,207	9.877	14.165	13.085	7.811	40, 490	6.528	2.455	7,028	6.121	28,830	228, 601
2 001441	1,000	00,20.	0,0	11,100	20,000	.,011	10,100	0,020	2, 100	.,020	0,121	20,000	220,002

#### VALUE OF BUILDING CONTRACTS AWARDED BY FEDERAL RESERVE DISTRICTS.

(F. W. Dodge Co.)

VALUE OF CONTRACTS FOR ALL CLASSES OF BUILDINGS (000 OMITTED).

	District No. 1.	District No. 2.	District No. 3.	District No. 4.	District No. 5.	District No. 6.	District No. 7.	District No. 8.	District No. 9.1	District No. 10.2	Total.
1922. March	26, 780 29, 245 25, 305	\$90,089 80,811 64,299 65,061 77,700 58,685	\$24,558 43,819 24,948 20,440 16,929 18,706	\$29,661 50,812 34,635 35,165 29,337 28,042	22, 997		56, 954 62, 220 52, 048 45, 429		8, 250 5, 868 4, 523		\$264,651 288,410 244,262 222,226 219,351 191,263
1923. January. February March	21, 806 13, 759 25, 079	65, <b>23</b> 3 <b>5</b> 8, 614 98, 412	16,770 18,780 31,265	25, 691 38, <b>546</b> 52, 793	17,633 20,219 30,147	\$22,051 34,775 25,538	43, 137 46, 764 59, 868	\$17,864 21,193 17,961	4, 524 12, 199 15, 259	\$7,845 12,531 11,277	3 242, 554 277, 380 3 367, 599

VALUE OF CONTRACTS FOR RESIDENTIAL BUILDINGS (000 OMITTED).

March	13, 553	\$51, 117 29, 092 34, 537 33, 238 51, 892 42, 981	\$9,553 8,829 8,142 10,072 7,397 11,526	\$10,641 13,409 12,737 13,730 11,405 17,809	\$9,796 6,320 8,596 7,416 7,998 5,003		15,012		2, 536 2, 454 2, 228 2, 847		\$112,577 90,964 92,986 100,528 117,515 111,278
1923. January. February March	14, 469	47, 702 10, 849 65, 912	5,722 9,128 13,336	11, 803 13, 751 23, 338	7, 815 7, 930 9, 146	\$10, 223 10, 065 8, 993	14, 567 18, 315 27, 065	\$5,884 6,476 8,676	2,072 6,703 4,493	\$2,120 3,288 3,295	*122, 376 *90, 462 *175, 298

Montana not included.
 Colorado, Wyoming, and Arizona not included.
 Figures for Districts 6, 8, and 10, not available for previous months, included in total.

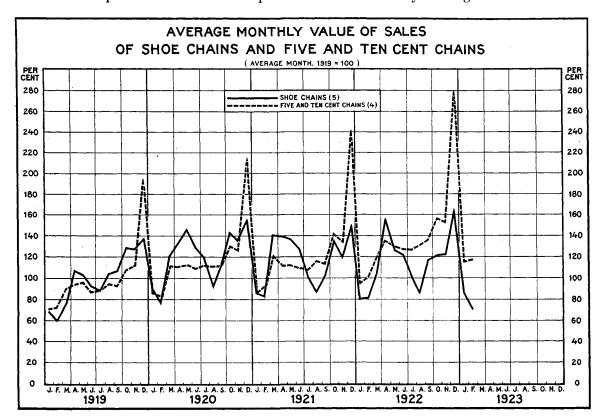
## WHOLESALE AND RETAIL TRADE.

Wholesale and retail trade during February were maintained at about the same level as in January, if allowance is made for the fewer number of business days. An index of wholesale trade, which has been constructed in order to show the trend of wholesale business during the last four years, is described in detail on page 439. According to the index, sales in February were 2.6 per cent less than in January, but were 20 per cent larger than in February, 1922. The tables which follow show that sales were slightly smaller than in January for all lines except shoes, whereas in all lines and all districts they were substantially larger than a year ago.

The department store figures of sales and stocks have been revised this month in order to add a group of stores from the Chicago district and to increase the number of stores in many other districts. Continuous indexes of department store sales and stocks are now available for representative groups of stores in 9 of the 12 Federal reserve districts by months since January, 1919. The sales figures which are published for the entire period of business is very striking. Shoe chains have

in this issue indicate that the dollar value of department store sales are relatively higher at present in the eastern industrial districts than in the agricultural districts of the South The San Francisco district, howand West. ever, had the highest level of sales in February. Department store stocks increased on the average 9.5 per cent during February, and at the end of the month were larger in all reporting districts than their average size in 1919. The reasons for the increase in in 1919. The reasons for the increase in stocks in February were the customary purchases of goods after the annual taking of inventories in January and preparations for an early spring trade on account of the early date of Easter.

Mail-order houses and chain stores did an unusually large business in February, considering the shortness of the month. order sales were 5.4 per cent less than in the longer month of January, but were larger than in any of the first nine months of 1922. The trend of sales of shoe chains and 5 and 10 cent chains are shown in the accompanying chart from 1919 to 1923. The difference in seasonal movement between these two lines



the spring and one in the fall—whereas the 5 and 10 cent stores have only one heavy buying peak in the month of December, which of the two peaks in the shoe business. Dewhereas the peak sales of shoe stores are only | four years.

two seasons of heavy sales each year—one in about one-half again as large as the average monthly sales. In the month of February, 1923, 5 and 10 cent stores were the only group of reporting retail stores to show an actual is, however, relatively much larger than either increase in sales over January. Shoe stores, on the other hand, showed the sharpest december sales of 5 and 10 cent stores are about | crease of any retail line and were smaller in twice as large as sales in an average month, | dollar amounts than in any month in the last

## CONDITION OF WHOLESALE TRADE.

PERCENTAGE OF INCREASE (OR DECREASE) IN NET SALES IN FEBRUARY, 1923, AS COMPARED WITH THE PRECEDING MONTH, JANUARY, 1923.

	Groc	eries.	Dry 8	goods.	Hard	ware.	Sh	oes.	Furr	iture.	Dr	ugs.	Au supj	ito plies.	Statio	onery.		rm ments.
District.	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.	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. 2 No. 3 No. 4		42 64 36	13. 0 -3. 4 2. 0	8 21 14	-6.7 -5.0 11.1	11 35 12	-9.9 3.9	10 13			$   \begin{array}{r}     -2.2 \\     -7.9 \\     -7.4   \end{array} $	6 15 11			-6.8	6		
Io. 5 Io. 6 Io. 7 Io. 8	$-4.3 \\ -9.9$	42 43 37	-9.0 -4.9 -10.9 -12.8	15 27 14 6	$   \begin{array}{r}     15.6 \\     -16.1 \\     -6.5 \\     -20.5   \end{array} $	16 26 20 7	20.2 $17.3$ $2.0$ $-22.1$	21 13 12 10	$ \begin{array}{c c} -12.9 \\ -3.2 \end{array} $	8 21	$-17. \hat{7}$ $-19. 5$ $-5. 1$ $-9. 4$	14 7 12 4		8	-17.8	4	24.7	
o. 9 o. 10 o. 11 o. 12	2, 4	55 5 13	-5.1	5 3 10 15	$ \begin{array}{r} -14.1 \\ -5.8 \\ -3.4 \\ -2.2 \end{array} $	14 10 11 20	-7. 3 7. 3	13	2. 7 -4. 6 6. 8	4 2 16	6 -14. 7	3 8 10	-5.4	21	-10, 9	27	-35. 5 5. 6	2

PERCENTAGE OF INCREASE (OR DECREASE) IN NET SALES IN FEBRUARY, 1923, AS COMPARED WITH FEBRUARY, 1922.

No. 2 No. 3 No. 4 No. 5 No. 6 No. 7 No. 8 No. 9	17. 1 12. 4 11. 8 15. 0 19. 4 8. 7	42 64 36 42 43 37 20 55	18. 2 24. 6 32. 1 53. 1 46. 0 21. 4 35. 8	8 21 14 15 27 14 6	33. 5 28. 1 51. 1 46. 5 34. 0 51. 3 42. 2	11 35 12 16 26 20 7	20. 4 22. 2 2. 2 10. 5	13 21 13	63, 5 52, 4	8 21	13.9 22.2	14 7 12	52.7	8	5.8		38. 4	7
No. 10 No. 11 No. 12	38.6	5 13 29	16, 5 18, 8 25, 7	3 10 15	18. 0 22. 0 30. 7 40. 1	14 10 11 20		13	16.4	4 2 16	17. 9 6. 7 7. 4	3		- <i></i>		[ • • • • • • <u>• </u>		l

#### RETAIL TRADE BY REPORTING LINES.

[Average monthly sales, 1919=100.]

65.3	es (4 ses). Grocery (21 chains).	Five and ten (4 chains).	Drug (8 chains).	Cigar (3 chains).	Shoe (5 chains).	Music (4 chains).
		04.6				
83. 5 77. 1 69. 9 68. 8 58. 4 57. 1 108. 7 110. 4 107. 8	77. 1 139. 2 69. 9 137. 9 68. 8 136. 7 58. 4 135. 1 57. 2 139. 1 75. 1 141. 0 108. 7 148. 6 110. 4 162. 4	100. 8 118. 4 129. 6 127. 0 126. 3 130. 4 136. 1 156. 6 152. 3 279. 2	117. 4 114. 8 123. 4 120. 5 123. 2 123. 8 126. 2 128. 2 128. 7 133. 1 122. 4 161. 0	111.0 109.3 124.3 124.5 128.8 123.4 127.3 126.9 135.4 127.1 126.9 178.7	79. 9 80. 6 103. 8 156. 1 126. 9 121. 7 101. 2 86. 7 117. 7 121. 1 121. 9 164. 7	71. 8 75. 0 80. 6 78. 9 80. 9 81. 3 83. 0 99. 1 118. 2 118. 8 120. 7 203. 7
		107. 8 165. 5	107. 8     165. 5     279. 2       88. 7     165. 1     115. 9	107. 8     165. 5     279. 2     161. 0       88. 7     165. 1     115. 9     128. 7	107. 8         165. 5         279. 2         161. 0         178. 7           88. 7         165. 1         115. 9         128. 7         115. 6	107. 8     165. 5     279. 2     161. 0     178. 7     164. 7       88. 7     165. 1     115. 9     128. 7     115. 6     85. 5

## DEPARTMENT STORE SALES BY FEDERAL RESERVE DISTRICTS.

[Average month, 1919=100.]

				(it verage inc	Hon, rore-	001)				
	District No. 1— Boston (24 stores).	District No. 2— New York (64 stores).	District No. 3— Philadel- phia (18 stores).	District No. 5— Richmond (19 stores).	District No. 6— Atlanta (35 stores).	District No. 7— Chicago (70 stores).	District No. 9— Minne- apolis (25 stores).	District No. 11— Dallas (16 stores).	District No. 12— San Francisco (18 stores).	Index for United States (289 stores).
1919.										04.9
January	78. 2 67. 5	77. 0 67. 8	89. 4 72. 1	75. 0 68. 3	82.0 71.2	87.1 82.1	91. 1 76. 0	86.0 77.4	73. 1 66. 2	81.3 72.2
February March	85.8	82.8	105,6	95.5	92.3	105.8	100.8	108.0	84.9	94. 2
April	100.4	100.9	102, 3	109.0	100.8	104.5	106.3	98.4	92.0	101.6
May	102.4	98. 2	109.0	100. 2	98. 0 91. 1	106. 7 99. 5	102. 3 103. 5	101.8 97.4	93. 7 89. 6	101.3 96.2
June July	98. 1 75. 1	95.0 73.2	96. 5 82. 2	97. 4 76. 2	84.7	76.4	82.5	75.8	87.6	78. 2
August	77.9	69.6	81.8	69. 9	75.9	81.3	89.3	76.9	99.5	79. 1
September	94.7	95.0	89.0	94. 2	95.1	94.6	97.1	98.6	102. 0 120. 3	95. 4 116. 6
October November	121. 2 119. 7	130.0 127.5	112.7 117.1	114. 5 120. 4	110.0 118.9	106.0 107.0	106.0 103.3	114. 8 115. 6	108.8	116.4
December	179.0	183.0	142.3	179. 4	180.0	149.0	141.8	149.3	182.3	167.4
1920.		1	ļ		!		<b>,</b>	1	!	:
January	107. 4	110.9	106. 1	88.9	100. 2	106.1	104. 2	103.3	110.0	105. 5
February	81.0	87.0	85.7	78.0	88. 8 117. 6	100.0 128.8	82. 2 111. 9	93.0 129.8	88. 5 116. 5	88. 5 122. 0
MarchApril	119.0 120.5	122. 5 117. 1	125. 5 121. 3	117.5	124. 4	127. 2	112.5	118.1	115.7	119. 4
May	123.9	128. 2	129.3	111.2	128.4	129.9	114.6	122.2	121.1	124. 9
JuneJuly	125. 5 88. 5	121.7	114. 5 97. 6	118. 2 88. 1	113.3 94.6	121. 2 93. 0	117. 0 98. 9	117.0 91.1	113.8 104.3	119.0 93.1
August	86.4	88. 5 78. 6	97. 0	84.5	96.8	98.9	99.3	92.4	120.5	93. 5
September	108.5	102.1	105.7	101.3	107.1	115.1	114.0	118.4	115.9	109.1
October	122.8	135.3	133.8	128.7	137.6 136.3	129.1 130.4	120.4 121.5	137. 9 138. 8	127. 5 120. 8	130. 8 134. 2
November	134. 1 177. 7	142.7 185.0	139. 0 169. 0	136.1 188.2	185.3	181.7	163.7	179.4	188.0	181.3
1921.						1	1			
January	108.8	106.7	108. 9	92.1	91.1	92.3	97.6	92.5	107. 2	100.4
February	86.3	88.6	88.2	84.1	87.8	87.0	81. 9 107. 9	88. 4 110. 2	95.3 116.3	87. 9 116. 4
MarchApril	121. 2 117. 8	118.8 116.3	125. 9 124. 8	118. 2 107. 6	113. 1 100. 9	112.1 110.4	114.0	95.8	109.3	111.9
May	118.2	113.6	121. 2	107.0	105.8	112.8	106.8	102.9	115.9	112.5
June	121.6	113.4	113.0	111.8	94.6 73.9	105.3	111, 2 84. 5	94.6 69.4	107. 2 95. 5	109. 0 80. 8
JulyAugust	77. 7 82. 7	77. 8 74. 3	90.0 92.8	76.8 75.9	74.9	80. 9 85. 8	93.8	69.4	118.4	84.7
September	97.6	91.9	90.5	84.0	83.2	99. 9	100.4	90.5	109.4	96.1
October November		138.7	138.9	119.8 117.3	120.3 109.5	112.3 113.2	110.8 107.7	113.0 103.2	124.6 115.6	124.7 119.7
December	124. 4 188. 3	131.0 189.1	136.4 171.0	177.5	155.0	158.0	145.7	159.8	184.1	172.8
1922.	:	10072	1	1	1			1		. •
January	100.3	98.4	96.6	75.6	74.1	85.6	85.0	73.9	100.3	89. 9
February	83.9	84.8	87.8	72.0	73.3	77.3	71.5	71. 9 90. 7	84. 5 110. 4	79. 9 101. 2
March	109. 5 125. 1	109.3 119.0	111.8 132.1	93. 9 105. 8	85. 2 98. 3	94.3 111.9	91.1 104.5	85.7	108.8	112. 5
May	122.8	117.7	126.4	103.3	97.6	116.5	103.7	96.4	135.4	115.6
June	121.9	114.5	108.7	103.0	86.3	110.3		85.7	111.8 98.1	107. 8 80. 4
July August	81. 7 87. 5	77. 8 78. 2	86.8 94.9	71.0 72.9	69. 8 73. 9	83. 0 92. 1	83. 9 93. 6	64. 0 66. 2	122.6	87.4
september	114.2	106.7	107. 2	90.8	86.4	114.4	105.0	98.8	113.0	106.0
October November	134.8	144.8	143.8	119.1	113.8 113.1	122.1 130.9	119.9 107.2	103.9 103.7	137. 9 132. 0	129. 9 130. 0
December	134.9 197.3	141.6 198.5	146. 8 185. 8	122.3 184.7	161.8	184, 3	160, 6	148.8	204.0	185. 7
1923.		1	1			1	1		1	
January	106.3	107.7	106.1	83.9	83.0	98. 5	92. 1	79. 2	114.2	99. 6
February	93.4	91.3	98.0	79.6	78. 2	92.5	77.1	74.8	101.9	89.7

## TREND OF DEPARTMENT STORE STOCKS.

[Average monthly stocks, 1919=100.]

	District No. 1— Boston (24 stores).	District No. 2— New York (64 stores).	District No. 3— Philadel- phia (13 stores).	District No. 5— Richmond (19 stores).	District No. 6— Atlanta (22 stores).	District No. 7— Chicago (59 stores).	District No. 9— Minne- apolis (16 stores).	District No. 11— Dallas (19 stores).	District No. 12— San Francisco (29 stores).	Index for United States (265 stores).
1922.										-
January	99. 1	105. 1	95. 9	90.8	101.7	106.9	88.5	98.8	106.2	101.4
February	103.6	108.5	104.7	102.4	110.6	117. 7	95.6	107.3	111.7	108.7
March	110.7	120.7	116.3	111.7		127.0	103.3	115.5	120.9	118. 2
April	112.2	121.6	113.9	110.6		124.6	98.7	113.8	122.2	117. 5
May	110.9	116.5	110.1	107.0	111.7		102.5	110.1	114.4	114.0 108.3
June	106. 2	110.4	109.8	103.7	104. 9	115.7	99.2	100. 4 99. 6	107. 0 108. 1	105.5
JulyAugust	103.7 105.0	104.5 109.1	105.6	99. 8 105. 0	103. 2 109. 3	113. 6 125. 0	97. 8 102. 0	111.0	112.1	111.8
September	116.9	120, 2	111.9 121.6	119.5	118.5	128.9	107.7	117.7	118.0	120. 4
October		124.5	127.5	130.3	121.3	134.8	112.6	119.6	120.0	125.6
November	130.0	131.4	126.7	126.0	123.1	136.8	115.5	118.9	124.2	128.3
December	110.5	110. 4	105.9	103.2	101. 2	115. 2	97. 2	94. 1	107.6	107. 4
1923.				1			ļ			
January	104.0	106.6	102. 2	99.6	105. 2	111.7	100.0	96.0	107.5	105.3
February	115.7	113.0	116.5	113.0	111.8	124.6	107. 2	104.8	119.7	115. 6
		<u></u>	J.,	I.	1		1		J	

## BANKING AND FINANCIAL STATISTICS.

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

VOLUME OF OPERATIONS DURING FEBRUARY, 1923.

,	Bills dis-	Bills bought		tes securities nased.	Municipal	То	tal.
Federal reserve bank.	counted for member banks.	in open market.		Certificates of indebtedness.		February, 1923.	February, 1922.
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas. San Francisco.	2, 393, 408, 807 227, 102, 417 113, 961, 557 144, 805, 411 23, 830, 401 162, 007, 187 64, 382, 181 9, 668, 616 26, 493, 827 12, 980, 449	\$25, 061, 592 50, 179, 142 16, 248, 251 22, 720, 273 6, 915, 870 26, 354, 364 5, 550, 748 5, 258, 653 4, 579, 156 22, 625, 729	\$2,915,370 48,319,000 45,100 102,900 1,954,700 10,808,200 628,100 2,989,550 6,716,800	21, 037, 500 39, 000 11, 226, 000 6, 500, 000 9, 284, 000 2, 662, 000 135, 000 920, 000 5, 000, 000		2, 512, 944, 449 243, 434, 768 148, 010, 730 144, 805, 411 39, 200, 971 208, 453, 751 73, 193, 029 18, 051, 019 34, 130, 627	\$325, 952, 234 1,026, 458, 540 254, 007, 729 192, 205, 505 159, 622, 316 62, 889, 905 195, 691, 652 65, 610, 430 20, 711, 710 48, 224, 888 23, 660, 883 149, 721, 389
Total: February, 1923. February, 1922. 2 months ending— Feb. 28, 1923. Feb. 28, 1922.	2, 080, 373, 333 7, 411, 805, 402	186, 463, 778 139, 020, 498 339, 218, 547 242, 930, 994	74, 483, 920 170, 252, 250 151, 824, 230 232, 409, 750	135, 060, 000 1, 772, 447, 030		4,038,996,114 9,675,295,209	2, 524, 757, 081

## VOLUME OF BILLS DISCOUNTED DURING FEBRUARY, 1923, BY CLASSES OF PAPER; ALSO NUMBER OF MEMBER BANKS ACCOMMODATED.

	Customers'	Member banks note			t omi or-1		Bank	ers' accepta	nces.
Federal reserve bank.	paper se- cured by Government obligations.	Secured by Government obligations.	Otherwise secured.	Commercial paper, n. e. s.	Agricul- tural paper.	Live-stock paper.	Foreign.	Domestic.	Dollar exchange.
Boston New York Philadelphia	58, 835	\$169, 587, 600 2, 277, 456, 600 160, 793, 400		115, 050, 368	\$318, 648 229, 637 158, 654	\$60,000		\$23,940	
Cleveland	134, 961 264, 044 158, 032	89, 651, 850 124, 710, 754 7, 767, 600 119, 120, 150	\$38,000 4,251,600 563,850 154,645	22, 359, 743 13, 356, 309 12, 994, 428 38, 987, 424	106, 597 1, 854, 395 2, 167, 551	44, 560 900 99, 480			l
Chicago	32, 141 510 148, 130	46,778,700 2,339,440 20,917,100	80,000 698,943	15, 167, 106 5, 499, 557 2, 852, 346	3, 620, 995 1, 367, 693 734, 190 974, 749	62,772 395,976 1,563,759		174, 527	
Dallas	2, 450 164, 890	6,711,000 104,037,488	481, 060 12, 152, 457	2, 654, 416 31, 487, 715	1, 499, 246 768, 415	1,622,277 583,197	244, 130	621, 507	40,000
Total: February, 1923 January, 1923	2, 212, 578 2, 231, 345	3, 129, 871, 682 3, 152, 212, 623	18, 420, 555 18, 940, 041	546, 850, 386 488, 894, 081	13, 800, 770 17, 609, 789	4, 432, 921 6, 372, 161	846, 402 335, 761	819, 974 284, 256	90, 000 50, 000
February, 1922 January, 1922	17, 081, 217 20, 310, 308	1, 267, 616, 523 1, 658, 227, 251	26, 411, 796 34, 675, 118	730, 839, 912 574, 166, 167	27, 567, 790 38, 959, 741	6, 909, 724 12, 380, 584		92, 410 872, 497	

	Trade acc	ceptances.		Total reduced t maturity		Member banks.			
Federal reserve bank	Foreign.	Domestic.	Total, all classes.	Amount	Per cent of	Number in district	Accomn	odated.	
					total.	Feb. 28.	Number.	Per cent.	
Boston New York. Philadelphia	\$173,012	150,551 36,226	\$391, 594, 946 2, 393, 408, 807 227, 102, 417	\$405, 453, 888 1, 295, 749, 395 279, 592, 485	10. 9 34. 8 7. 5	427 812 715	194 341 270	45. 4 42. 0 37. 8	
Cleveland		367, 409 79, 460	113, 961, 557 144, 805, 411 23, 830, 401 162, 007, 187	133, 718, 259 187, 797, 614 130, 243, 224 612, 791, 948	3.6 5.1 3.5 16.5	882 635 542 1,441	220 244 226 444	24. 9 38. 4 41. 7 30. 8	
St. Louis Miuneapolis Kansas City Dallas	••••••	332, 834 37, 743	64, 382, 181 9, 668, 616 26, 493, 827 12, 980, 449	176, 338, 080 73, 661, 433 97, 994, 007 86, 105, 699	4.7 2.0 2.6 2.3	616 1,012 1,152 861	169 174 240 222	27. 4 17. 2 20. 8 25. 8	
San Francisco.		210,988	150, 310, 787	241, 100, 554	6.5	822	232	28. 2	
Total: February, 1923	173, 012 110, 000	3, 028, 306 4, 218, 759	3,720,546,586 3,691,258,816	3,720,546,586	100.0	9, 917 9, 911	2,976 3,294	30. 0 33. 2	
February, 1922 January, 1922			2, 080, 373, 333 2, 345, 364, 903			9, 858 9, 850	4, 847 5, 350	49. 1 54. 3	

<sup>1</sup> Total discounts multiplied by ratio of average maturity of bills discounted by each bank to average maturity (6.70) for system.

## VOLUME OF BILLS DISCOUNTED DURING FEBRUARY, 1923, BY RATES OF DISCOUNT CHARGED; ALSO AVERAGE RATES AND MATURITIES.

Federal reserve bank.	4 per cent.	4½ per cent.	Total.	Average rate (365- day basis).	Average maturity.
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis. Minneapolis Kansas City Dallas. San Francisco.	1,955,192,164	113, 961, 557 144, 805, 411 23, 830, 401 162, 007, 187 64, 382, 181 9, 668, 616	\$391, 594, 946 2, 393, 408, 807 227, 102, 417 113, 961, 557 144, 805, 411 23, 830, 401 162, 007, 187 64, 382, 181 9, 668, 616 26, 493, 827 12, 980, 449 150, 310, 787	Per cent. 4.10 4.09 4.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	Days. 6. 93 3. 63 8. 24 7. 86 8. 68 25. 33 18. 34 51. 02 24. 77 44. 42 10. 74
Total: February, 1923. January, 1923.	2, 434, 809, 243 2, 990, 063, 833	1, 285, 737, 343 701, 194, 983	3,720,546,586 3,691,258,816	4. 28 4. 25	6.70 6.08

#### VOLUME OF BANKERS' AND TRADE ACCEPTANCES PURCHASED DURING FEBRUARY, 1923, BY CLASSES.

Federal reserve bank.		Bankers' ac	eceptances.		Trad	e accepta	ances.	Total bills	Total reducemmon n	naturity
Foucial leselve balls.	Foreign.	Domestic.	Dollar exchange.	Total.	Foreign.	Do- mestic.	Total.	purchased.	Amount.	Per cent of total.
Boston . New York . Philadelphia . Cleveland . Richmond .	\$17, 431, 170 30, 826, 449 12, 924, 245 16, 998, 963	\$7,845,422 14,821,452 2,884,006 5,619,156	\$785, 000 3, 001, 874 440, 000 102, 154	\$26,061,592 48,649,775 16,248,251 22,720,273	\$1,529,367		\$1,529,367	50, 179, 142 16, 248, 251	\$16, 378, 059 27, 618, 393 32, 052, 700 30, 209, 585	8. 8 14. 8 17. 2 16. 2
Atlanta. Chicago. St. Louis Minneapolis Kansas City	4,782,636	2,039,233 7,319,518 613,112 1,289,106	10,000 823,685 125,000 35,000	6,915,870 26,354,364 5,520,748 5,258,653		 			7,917,763 33,797,252 6,979,466 6,423,317	4.3 18.1 3.8 3.4
DallasSan Francisco	3, 212, 035 16, 087, 657	1,114,062 6,033,203	253, 059 504, 869	4, 579, 156 22, 625, 729				4,579,156 · 22,625,729	5,073,253 20,013,990	2.7 10.7
Total: February, 1923. January, 1923	129, 275, 500 104, 402, 246	49, 578, 270 43, 905, 920	6,080,641 3,557,303	184, 934, 411 151, 865, 463	1,529,367 889,306		1,529,367 889,306	186, 463, 778 152, 754, 769	186, 463, 778	100.0
February, 1922. January, 1922	96, 606, 585 68, 832, 538	36, 846, 851 29, 535, 526	5, 243, 963 5, 426, 498	138, 697, 399 103, 794, 562	323, 099 71, 787	\$44, 147	323, 099 115, 934	139, 020, 498 103, 910, 496		

<sup>1</sup> Total purchases multiplied by ratio of average maturity of bills purchased by each bank to average maturity (43.14) for system.

## VOLUME OF ACCEPTANCES PURCHASED DURING FEBRUARY, 1923, BY RATES OF DISCOUNT CHARGED; ALSO AVERAGE RATES AND MATURITIES.

Federal reserve bank.	37 per cent.	4 per cent.	41 per cent.	4½ per cent.	43 per cent.	4½ per cent.	4§ per cent.	Total.	Average rate (365-day basis).	Average ma- turity.
Boston New York Philadelphia Cleveland Richmond	\$7, 126, 536 4, 123, 674 320, 790 4, 158, 490	\$16, 703, 792 42, 801, 535 15, 037, 616 14, 348, 291	\$1,983,963 1,499,240 889,845 3,772,784	\$162, 301 222, 422 380, 740	\$85,000 35,620	\$1,439,703 24,348	<b>\$</b> 92,568	\$26, 061, 592 50, 179, 142 16, 248, 251 22, 720, 273	Per cent. 4.05 4.09 4.07 4.09	Days. 27. 11 23. 75 85. 11 57. 36
Atlanta. Chicago. St. Louis Minneapolis. Kansas City.	5,004,453 1,173,053 1,317,639	3,845,332 16,207,915 4,347,695 3,609,144	16,904 5,032,980 331,870	84,016		2,511,431		6, 915, 870 26, 354, 364 5, 520, 748 5, 258, 653	4. 17 4. 08 4. 04 4. 06	49. 39 55. 33 54. 54 52. 70
Dallas San Francisco.	1,502,068 4,938,133	2,984,747 8,803,641	66, 125 8, 728, 432	26, 216 155, 523		••••••		4,579,156 22,625,729	4. 04 4. 08	47, 80 38, 16
Total: February, 1923 January, 1923	30, 207, 039 28, 483, 593	128, 689, 708 97, 118, 521	22, 322, 143 22, 610, 160	1,031,218 2,054,100	145, 620 94, 513	3,975,482 2,184,022	92,568	186, 463, 778 1 152, 754, 769	4. 08 4. 09	43. 14 37. 74

<sup>&</sup>lt;sup>1</sup> Includes \$209,860 of acceptances purchased at 43 per cent.

Note.—All Federal reserve banks use 360 days to the year in calculating interest on bills bought in open market.

## HOLDINGS OF EARNING ASSETS, BY CLASSES.

AVERAGE DAILY HOLDINGS OF EACH CLASS OF EARNING ASSETS, EARNINGS THEREON, AND ANNUAL RATE OF EARNINGS DURING FEBRUARY, 1923.

	A	verage daily h	oldings of—				Annual rate of earnings on—					
Federal reserve bank.	All classes of earning assets.	Discounted bills.	Purchased bills.	United States securi- ties.	All classes of earning assets.	Dis- counted bills.	Pur- chased bills,	United States securi- ties.	All classes of earn- ing assets.	Dis- counted bills.	Pur- chased bills.	United States securi- ties.
Boston. New York. Philadelphia Cleveland Richmond Atlanta Chicago. St. Louis. Minneapolis. Kansas City Dallas San Francisco.	42, 542, 141 32, 279, 194 148, 132, 498 56, 627, 972 32, 618, 887	242, 469, 244 56, 710, 732 26, 965, 669 40, 762, 170 18, 593, 931 57, 952, 607 15, 793, 571 18, 141, 675 17, 650, 477 16, 302, 839	26, 708, 140 32, 013, 533 439, 071 7, 325, 958 15, 503, 980 11, 964, 980 3, 390, 823 83, 214 22, 120, 931	52, 934, 754 29, 104, 289 36, 463, 553 1, 340, 900 6, 359, 305 74, 676, 796 28, 869, 421 11, 086, 389 39, 978, 607 11, 052, 286	1,000,140 374,364 303,347 144,544 105,321 465,922 183,299 110,149 185,898 156,479	92, 972 140, 718 64, 187 200, 097 54, 557 62, 629 60, 940 56, 326	\$42, 598 89, 153 83, 542 100, 502 1, 404 23, 711 47, 937 37, 149 11, 018 291 68, 793 79, 360	157, 574 95, 050 109, 873 2, 422 17, 423 217, 888 91, 593 36, 502 124, 667 31, 360	4. 02 4. 33 4. 14 4. 43 4. 25 4. 10 4. 22 4. 40 4. 20 4. 12	4. 05 4. 50 4. 50 4. 50 4. 50 4. 50 4. 50 4. 50 4. 50 4. 50 4. 50	4. 08 4. 07 4. 09 4. 17 4. 22 4. 03 4. 05 4. 24 4. 56 4. 05	3. 88 4. 29 3. 93 2. 36 3. 57 4. 14 4. 29 4. 07 3. 76
Total: Feb., 1923. Jan., 1923.	1, 152, 861, 754 1, 191, 218, 079	610, 754, 670 548, 996, 091	186, 648, 316 220, 733, 187	355, 458, 768 421, 469, 246	3,652,160 4,077,842	1, 986, 681 1, 986, 515		1,080,021 1,337,171			4. 09 4. 01	3. 96 3. 74
Feb., 1922 . Jan., 1922	1, 215, 221, 369 1, 304, 164, 715	772, 415, 829 968, 971, 172	87, 400, 347 98, 740, 965	355, 209, 372 236, 149, 385	4, 165, 669 5, 114, 751	2,903,831 4,106,475	284,686 372,758	976, 285 634, 122				

#### HOLDINGS OF DISCOUNTED BILLS, BY CLASSES.

[End of February figures. In thousands of dollars.]

		Cus- tomers'	Member collatera				I	Ва	nkers' a	eceptar	ices.	Trade	е ассер	tances.
Federal reserve bank.	Total.	paper secured by Govern- ment	Secured by Govern-	Other-	Com- mercial paper n.e.s.	Agricul- tural paper.	Live- stock paper.		eign de.	Do- mes-	Dollar		eign de.	Do- mes-
		obliga- tions.	ment obliga- tions.	se- cured.			· ·	Im- ports.	Ex- ports.	tic trade.	ex- change.	Im- ports.	Ex- ports.	tic trade.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	48, 565 210, 222 53, 556 23, 252 43, 793 18, 505 75, 682 21, 199 16, 022 17, 851 16, 913 50, 200	1,378 73 342 381 344 129 136 44 8 124 14 269	18,708 179,143 38,486 16,173 18,593 1,958 41,484 13,013 4,559 1,299 18,900	38 1,350 109 85 40 391 198 6,579	27, 539 30, 341 14, 286 5, 111 18, 680 10, 107 19, 543 5, 570 2, 056 2, 479 4, 385 17, 147	755 253 330 344 4,104 5,705 14,107 2,225 6,146 4,220 5,006 3,191	346 92 343 171 6,748 6,445 5,971 2,547	100			1			136 165 112/ 859 630 154 327 136 192 24 40 243
Total: Feb. 28, 1923 Jan. 31, 1923	595,760 597,251	3,242	352,797 374,538	8, 790 8, 409	157, 244 131, 367	46, 386 53, 552	22,712 22,445	453	321	703 190	90 70		10	3,018
Feb. 28, 1922 Jan. 31, 1922	712,577 838,885	18,459 22,495	266, 155 341, 091	14,074 16,837	256, 335 281, 387	111,822 121,702	39, 147 45, 919	2	 49	234 931		ļ	······	6,351 8,274

#### HOLDINGS OF BANKERS' AND TRADE ACCEPTANCES PURCHASED OR DISCOUNTED, BY CLASSES OF ACCEPTANCES.

[End of February figures. In thousands of dollars.]

		All classes	s.		Banker	s' accep	tances.		7	Crade acc	eptance	s.
Federal reserve bank.		Pur-	Dis- counted		Foreign	trade.	Do-	Dollar		Foreign	ı trade.	Do-
	Total.	chased in open market.	for member banks.	Total.	Im- ports.	Ex- ports.	mestic trade.	ex- change.	Total.	Im- ports.	Ex- ports.	mestic trade.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	28, 195 36, 299 795 8, 437 28, 168 10, 175 5, 151 99 21, 443	12, 545 30, 470 28, 083 35, 440 165 8, 283 27, 841 10, 039 4, 959 4, 959 21, 403 28, 375	136 412 112 859 630 154 327 136 192 24 40 1,567	12, 545 29, 383 28, 083 35, 440 165 8, 283 27, 841 10, 039 4, 959 21, 403 29, 657	6, 079 13, 618 14, 734 20, 742 1, 703 9, 611 3, 480 2, 200 9, 912 15, 787	2,541 6,701 6,780 7,776 3,958 10,773 4,145 1,435 7,981 8,085	3,695 7,405 5,842 6,735 165 2,612 6,548 1,864 1,289 75 1,650 4,945	230 1,659 727 187 10 909 550 35 1,860 840				136 165 112 859 630 154 327 136 192 24 40 243
Total: Feb. 28, 1923  Jan. 31, 1923 Feb. 28, 1922  Purchased in open market: Feb. 28, 1923 Jan. 31, 1923 Feb. 28, 1922  Discounted for member banks: Feb. 28, 1923 Jan. 31, 1923 Feb. 28, 1922	192, 562 100, 043	207, 678 188, 566 93, 458	4, 589		145, 67, 97, 413 145, 67, 453		42, 825 36, 371 22, 612 42, 122 36, 181 22, 378 703 190	7,007 6,122 3,842 6,917 6,052 3,842 90 70	4, 394 4, 457 6, 453 1, 372 1, 138 102 3, 022 3, 319	1,372 1,372 1,1 9	148 9 138 9	3,309 6,354

#### HOLDINGS OF BANKERS' ACCEPTANCES PURCHASED OR DISCOUNTED, BY CLASSES OF ACCEPTING INSTITUTIONS.

[End of February figures. In thousands of dollars.]

		Membe	r banks.	Non- member		Branches
Federal reserve bank.	Total.	National.	Non- national.	banks and banking corpora- tions.	Private banks.	and agen- cies of for- eign banks.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	12, 545 29, 383 28, 083 35, 440 165 8, 283 27, 841 10, 039 4, 959 75 21, 403 29, 657	7, 989 12, 260 10, 264 11, 790 3, 065 12, 881 4, 009 2, 182 75 9, 358 9, 484	2, \$94 8, \$27 8, \$60 11, 086 3, 020 12, 640 3, 379 1, 226 5, 662 7, 022	207 3,127 3,467 4,502 90 1,598 2,021 1,679 830 3,666 4,306	1, 123 3, 817 3, 789 5, 831 75 248 202 225 231 1, 975 5, 892	332 1,352 1,703 2,231 352 97 747 490 742 2,953
Total: Feb. 28, 1923 Jan. 31, 1923 Feb. 28, 1922  Purchased in open market: Feb. 28, 1923. Jan. 31, 1923. Feb. 28, 1922.  Discounted for member banks: Feb. 28, 1923. Jan. 31, 1923. Feb. 28, 1922.	188, 105 93, 590 206, 306 187, 428 93, 356	83, 357 70, 180 41, 932 82, 586 69, 826 41, 826 771 354 106	64, 616 57, 767 28, 217 64, 107 57, 605 28, 089 509 162 128	25, 493 23, 392 8, 470 25, 438 23, 392 8, 470 55	23, 408 24, 254 7, 371 23, 307 24, 189 7, 371 101 65	10, 999 12, 512 7, 600 10, 868 12, 416 7, 600 131 96

#### CONDITION OF FEDERAL RESERVE BANKS.

## CASH RESERVES, TOTAL DEPOSITS, FEDERAL RESERVE NOTE CIRCULATION, AND RESERVE PERCENTAGES FOR MARCH AND FEBRUARY, 1923.

[Daily averages. Amounts in thousands of dollars.]

Federal reserve bank.	Total casl	h reserves.	Total d	eposits.		serve notes ilation.	Reserve percentages.		
	March.	February.	March.	February.	March.	February.	March.	February.	
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	306, 187 107, 058 142, 876 514, 481 109, 981 79, 889 94, 985 40, 950	236, 864 1, 022, 159 225, 3°0 314, 660 115, 126 149, 340 536, 204 117, 298 82, 571 104, 970 44, 018 260, 092	128, 373 723, 709 116, 774 162, 432 65, 742 285, 055 75, 863 52, 210 88, 063 55, 599 145, 975	130, 587 738, 236 114, 731 159, 328 63, 559 59, 620 282, 294 77, 130 52, 907 88, 917 56, 052 146, 396	202, 812 572, 488 202, 805 231, 382 85, 761 124, 283 394, 196 86, 367 56, 220 64, 206 30, 291 202, 384	198, 974 562, 725 202, 729 232, 318 89, 534 120, 912 387, 691 87, 213 56, 056 66, 159 31, 921 208, 501	75. 8 83. 2 70. 8 77. 7 70. 7 77. 2 75. 7 67. 8 73. 7 62. 4 47. 7 68. 4	71. 9 78. 6 71. 0 80. 3 75. 2 82. 7 80. 0 71. 4 75. 8 67. 7 50. 0 73. 3	
Total: 1923	3, 095, 762 2, 403, 470	3, 208, 6°2 3, 070, 045 2, 343, 537 2, 053, 422 2, 183, 641	1,960,540 1,794,895 1,808,529 2,032,787 1,951,752	1, 969, 757 1, 814, 446 1, 804, 476 2, 002, 503 1, 855, 124	2,253,195 2,195,131 2,979,486 3,040,440 2,503,350	2, 244, 733 2, 176, 529 3, 068, 578 2, 946, 863 2, 462, 941	75. 7 77. 6 50. 2 1 42. 7 1 51. 6	76, 76, 1 49, 1 43, 1 52,	

<sup>&</sup>lt;sup>1</sup> Calculated on basis of net deposits and Federal reserve notes in circulation.

# RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON WEDNESDAYS, FEBRUARY 28 TO MARCH 21, 1923. RESOURCES. .

	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Gold and gold certificates: Feb. 28. Mar. 7. Mar. 14. Mar. 21. Gold settlement fund—F. R. Board:	302, 611 311, 550 313, 211 323, 572	17, 357 19, 900 17, 438 17, 516	139, 573 144, 503 147, 668 159, 320	22, 103 22, 330	12, 229 12, 570 12, 860 13, 159	6,697 6,910 7,105 7,291	5, 663 5, 678 5, 717 5, 829	52,679 52,950	5, 440	7,785 7,799 7,795 7,803	2,981 3,007	11, 147 11, 091 11, 104 11, 076	19,794 19,896 19,677 19,651
Mar. 7. Mar. 14. Mar. 21. Gold with F. R.	645 285	38, 119 31, 001	257, 603 261, 805 286, 334 292, 778	35, 969	91, 180 76, 580 71, 383 59, 848	26, 655 25, 846	17,686 14,961 19,909 26,295	70, 014 57, 505	9,709 6,427 8,108 6,509	23, 217 28, 629 24, 588 22, 438	29, 461 32, 676 30, 961 33, 413	10,618	42, 287
Gold redemption	2,074,043 2,068,613 2,052,103	163, 443 170, 942 177, 954 175, 163	624, 745 624, 569 669, 402 639, 225	163, 759 160, 279	206, 334 207, 239 205, 722 206, 889	62, 361	109, 784 109, 497 108, 679 107, 926	364, 071 367, 872	80, 133 79, 734 81, 099 68, 084	46, 799 46, 606 47, 848 47, 212	55, 061 54, 252	14,366 14,207 14,674 12,651	187, 224 175, 997 180, 470 168, 118
tund: Feb. 28. Mar. 7. Mar. 14. Mar. 21 Total gold reserves: Feb. 28. Mar. 7. Mar. 14. Mar. 21 Reserves other than	57, 427 52, 763 58, 262 50, 400	7,494	7, 547	6,583 8,590 5,486	2,436 1,852 3,731 2,938	1		6,789	2,430	1, 226 1, 060 1, 451 1, 620	1,429 1,641	1,318 1,318 1,577 1,382	2,964 4,508 5,228 4,999
Feb. 28	3,072,813 3,083,641 3,078,294 3,074,301	237, 475 232, 011	1,042,348	222, 919 228, 414 220, 867 207, 602	312, 179 298, 241 293, 696 282, 834	101, 895 100, 681 98, 830 87, 941	134, 617 131, 232 135, <b>5</b> 44 135, <b>3</b> 92	493,553 490,081	94, 989 97, 197	79, 027 84, 094 81, 682 79, 073	92,147 89,861	37, 362 38, 592 37, 973 34, 513	239, 624 241, 875 247, 662 229, 213
Feb. 28	128, 787 117, 633 118, 275 118, 323	12, 249 9, 579 10, 948 10, 224	17,043	7,497	8,567 7,774	11,989	8,863 7,952 7,789 7,308	19,937 19,641	19, 243 20, 367	829	4,249	5.277	5, 258 4, 872
Mar. 7. Mar. 14. Mar. 21. Nonreserve cash:	3, 201, 600 3, 201, 274 3, 196, 569 3, 192, 624	247, 054	1,050,354 1,061,547 1,069,933 1,115,002	234, 429 228, 364 215, 770	306, 808 301, 470 290, 920	112, 493 116, 819 100, 428	143, 333 142, 700	513, 490 509, 722 517, 757	114, 232 117, 564	85, 170 82, 511	96,336 94,110	43.250	247, 133 252, 534
Feb. 28	70, 144	10,347	8,366	2,961 3,088	3,358 4,061	3,353 3,523 3,351 3,089	5, 229 7, 927 8, 362 8, 311	6,550 6,574 6,292 7,048	2,190 5,106 4,695 5,176	890 1,955 2,000 1,845	3,908 3,952	4,400	9,003

## RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON WEDNESDAYS, FEBRUARY 28 TO MARCH 21, 1923—Continued.

# RESOURCES—Continued. [In thousands of dollars.]

					n thousar	as or don	ars.j						
	Total.	Boston.	New York,	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Bills discounted: Secured by U.S. Government obligations—													
Feb. 28 Mar. 7 Mar. 14 Mar. 21 Other bills dis-	356, 039 330, 093 361, 286 351, 861	20, 086 19, 707 22, 072 22, 947	179, 216 170, 341 176, 173 136, 465	40, 890	16, 554 12, 756 26, 195 21, 276	18, 937 16, 027 17, 754 23, 329	2,087 2,984 2,001 3,448	41,620 45,770 46,804 53,822	13, 057 7, 765 8, 524 10, 594	489 1, 468 1, 489 4, 350	4,683 5,416 7,883 11,268	1,313 1,840 1,254 1,715	19, 169 12, 015 10, 247 19, 025
counted— Feb. 28 Mar. 7 Mar. 14 Mar. 21	239, 721 241, 394 251, 773 278, 126	28, 479 21, 882 27, 859 27, 165	31, 006 29, 898 33, 309 33, 572	14,728 11,541 13,467 17,752	6,698 14,877 13,786 21,212	24, 856 25, 361 25, 708 28, 505	16, 418 16, 421 13, 993 15, 990	30, 983 33, 094	8, 142 11, 092 10, 701 14, 885	15,590	13, 168 13, 368 14, 015 15, 767	15,600 16,712 17,572 17,085	31, 031 34, 152 32, 679 30, 540
Bills bought in open market: Feb. 28 Mar. 7 Mar. 14	207, 678 218, 886 225, 416 237, 965	12, 545 12, 854 17, 111 17, 196	30, 470 29, 480 35, 264 29, 242	28, 083 28, 687 28, 620 28, 302	35, 440 38, 774 38, 388 44, 519	165 680 780 775		29,499 28,375	10, 039 10, 162 9, 923 11, 997	4, 959 4, 182 3, 927 3, 197	75 1,077 1,077 1,077	21, 403 21, 252 18, 756 21, 478	28, 375 32, 580 31, 663 35, 708
Mar. 21 U. S. bonds and notes: Feb. 28	173, 975 157, 976 160, 679 163, 589	6,091 5,374 5,374	27, 328 12, 836 14, 427	24, 438 24, 438 24, 438	12,356 12,355 12,355 12,355	1,341 1,341 1,341 1,341	450	7, 863 7, 209 7, 566	18, 175 18, 145 18, 118	11,669 11,923 12,935	33, 645 33, 299 33, 699	2, 989 2, 879 2, 879	
Mar. 21 U. S. certificates of indebtedness:	100.000	5,637 22,101	15, 962 21, 470 13, 220	24, 438 4, 632 4, 632	95 914		0 531	66, 638 66, 491	18, 124 10, 715 10, 708 10, 718	14, 065 630 729 730	32, 932 12, 413 12, 413	3, 279 8, 629 9, 729 9, 827	7, 126 7, 126 7, 126
Mar. 7. Mar. 14. Mar. 21. Municipal warrants: Mar. 21. Total earnings assets:	184, 034 128, 322 41	22, 073 22, 069 8, 544	10,000	4,606	•••••	47 000	•••••	66, 719 51, 375	10, 300	869	12, 413 5, 871	9, 160	7, 126 7, 125
Mar. 7 Mar. 14	1, 135, 260 1, 185, 188	89, 302 81, 890 94, 485 81, 489	289, 490 255, 775 269, 173 216, 941	118, 761	96, 262 104, 021 115, 993 118, 633	45, 299 43, 409 45, 583 53, 950	42, 588 45, 553	178, 024 179, 9 2 182, 558 179, 816	60, 128 57, 872 57, 984 65, 900		63, 984 65, 573 68, 487 66, 915	49, 934 52, 412 50, 288 52, 717	
Mar. 21. Bank premises: Feb. 28. Mar. 7. Mar. 14. Mar. 21. Five per cent redemption fund against F. R. bank	47, 863 47, 937 48, 108 48, 761	4, 434 4, 434 4, 434 4, 434	10, 855 10, 872 10, 873 11, 338	676 676 676 676	7,661 7,704 7,807 7,866	2,617 2,617 2,617 2,617	2, 199 2, 211 2, 216 2, 305	8, 753 8, 756 8, 747 8, 715	928 928 926 926 926	1, 052 1, 052 1, 065 1, 071	4, 790 4, 790 4, 831 4, 831	1, 937 1, 937 1, 937 1, 937	1, 963 1, 962 1, 979 2, 045
Feb. 28	311 311 291				•••••			65 65		•••••	200 200 200	46	
Mar. 21 Uncollected items: Feb. 28	291 608, 167 618, 956	51, 870 52, 262 61, 841	126, 709 118, 592	50, 201 50, 619	59,748 58,866			65	35, 469 40, 509		200 41, 386	26 19, 043 26, 573	40, 001 40, 513
Mar. 7	689, 039 645, 874	61, 841 54, 059 431 466	152, 414 132, 557 1, 742 1, 744	58, 991 58, 213 598 636	68, 390 65, 079 855 963	59, 857 59, 114 432 443	25, 062 27, 575 28, 908 28, 311 453 501	93, 216 88, 586 1, 391 1, 285 1, 250	40, 650 38, 606 543 584	16, 196 14, 487 1, 842 1, 879	40, 536 40, 777 38, 698 1, 123 1, 244 1, 219	25, 222 24, 904	42, 577 43, 260 5, 155 5, 134
Mar. 7 Mar. 14 Mar. 21 Total resources: Feb. 28	14, 439	492 192	1, 896 1, 373	667 376 394, 381	936 631 490, 092 481, 720	439 444	521 507	1,005	608 365	1,882 1,808	972	2, 242 2, 241 2, 278 2, 196	5, 160 4, 570 409, 490
Mar. 7 Mar. 14 Mar. 21	5, 202, 460	398, 435 414, 558 409, 215	1, 458, 588 1, 512, 655 1, 486, 545	392, 623 403, 833 396, 678	481, 720 498, 657 486, 968	221, 621 217, 378 222, 666 219, 642	213, 201 221, 554 225, 928 227, 687	801, 913 801, 850 802, 992	216, 270 219, 229 222, 427 213, 279	139, 692 138, 325 138, 342	212, 587 213, 576 211, 395	130, 476 127, 401 125, 093	416, 807 420, 584 413, 508

### LIABILITIES.

Capital paid in: Feb. 28 Mar. 7 Mar. 14 Mar. 21	108, 483	8, 046 8, 046 8, 046 8, 046	29, 128 29, 128 28, 888 28, 888	9,609 9,609 9,459 9,459	11, 951 11, 951 11, 975 11, 974	5, 656 5, 656 5, 658 5, 657	4, 419 4, 420 4, 419 4, 420	14, 964 14, 964 14, 964 15, 031	4, 906 4, 907 4, 908 4, 914	3, 572 3, 570 3, 570 3, 585	4, 657 4, 655 4, 647 4, 639	4, 182 4, 182 4, 182 4, 183	7,777 7,764 7,767 7,767
	±00,000	0,010	20,000	0, 100	11,011	0,001	7,720	10,001	7,017	5, 555	4,000	2, 100	1, 101
Surplus:													
Feb. 28	218, 369	16,312	59,800	18, 749	23, 495	11, 288	8,942	30, 398	9,665	7, 473	9,488	7,496	15, 263
Mar. 7	218, 369	16, 312	59, 800	18, 749	23, 495	11, 288	8,942	30, 398	9,665	7,473	9,488	7,496	15, 263
Mar. 14		16, 312	59, 800	18, 749	23, 495	11, 288	8,942	30, 398	9,665	7, 473	9, 488	7, 496	15, 263
Mar. 21	218, 369	16, 312	59, 800	18, 749	23, 495	11, 288	8,942	30, 398 30, 398	9,665	7, 473	9, 488	7, 496	15, 263

## RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON WEDNESDAYS, FEBRUARY 28 TO MARCH 21, 1923—Continued.

#### LIABILITIES-Continued.

				1-	u mousai	ias or aor	1010.j						
	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Deposits:													
Government— Feb. 28	43 401	5 033	12,128	1,652	1,998	9 455	2 016	2 519	4,111	9 960	2,598	1,583	4.149
Mar. 7 Mar. 14	43, 401 38, 773 42, 442	5,033 1,772	10, 807 479	579	4,366	2,455 1,553 4,317	2,916 3,053	2,518 4,378 3,199	2,978	2,260 2,481 2,168	2,248	1,672	2,886
Mar. 14 Mar. 21	42,442 98,627	5, 133 8, 850	479 28,694	3,905 3,590	4, 167 10, 373	4,317 6,505	3, 995 5, 904	3, 199 17, 127	3,609 2,605	$2,168 \\ 2,345$	3,717 5,300	$2,152 \\ 2,408$	5,601 4,926
Member bank-	00,000	3,30	,	3,000	20,010	0,000	0,001	.,,	<b>-,</b> 000	2,010		1,100	-,0-0
reserve ac- count—		ĺ										1	
Feb. 28 Mar 7	1, 887, 552	118, 175 123, 700	712, 106 683, 969	113, 449 115, 821	158, 292 152, 552	63, 806 62, 313	53,029 55,643	279, 117 280, 978	69, 993 73, 972	46,526 51,776	81,960 82,459	52,626 54,605	138, 473 141, 909
Mar. 7 Mar. 14 Mar. 21	1, 932, 714	123,700 123,303	724, 458 681, 053	115,378 114,124	152, 552 162, 684 157, 589	62,313 61,349	55, 643 57, 106	280, 978 281, 017	74,054	52,195	83, 895	53, 496	143,779
Other deposits—	1 1	120, 424	681,053	114, 124	157, 589	60, 595	56, 503	277, 022	70, 546	53, 440	83, 233	51, 283	140,663
	21,364 24,392	458 672	10, 513 9, 985	405 1,515	1,358	123 246	242 273	1,340 1,064	772 760	1,054 $1,568$	$942 \\ 1,701$	358 346	$3,799 \\ 3,884$
Mar. 7. Mar. 14. Mar. 21. Total deposits:	20,633	472	9, 816	502	2,378 1,287	193	216	1,207	6 <b>2</b> 4	784	847	248	4,437
		426	9,556	1,033	984	167	260	905	580	545	939	322	4,214
Feb. 28. Mar. 7. Mar. 14. Mar. 21.	1,952,317	123,666	734, 747 704, 761 734, 753	115, 506 117, 915 119, 785	161, 648 159, 296 168, 138 168, 946	66,384	56, 187 58, 969 61, 317	282, 975 286, 420	74,876 77,710 78,287	49,840	85, 500 86, 408 88, 459	54, 567	146, 421
маг. 7 Маг. 14	1,942,862	126, 144 128, 908	704, 761	117, 915	168, 138	64, 112 65, 859	61,317	285, 423	77,710	55, 825 55, 147	88,459	56, 623 55, 896	148, 679 153, 817
Mar. 21	1, 985, 033	129, 700	719, 303	118, 747	168, 946	65, 859 67, 267	62, 667	295, 054	73, 731	56,330	89, 472	54, 013	149, 803
Federal reserve notes in actual circula-													
tion: Feb. 28	2, 246, 943	198, 080	568, 124	203, 579	235, 718	87,735	119.017	392, 898	87,606	55, 623	65, 298	30,800	202, 465
Mar. 7	2, 256, 302	202, 499 202, 290	570, 391	200, 809 202, 025	235,718	83, 855	119, 017 123, 654	394, 691 391, 487	87, 035 86, 936	56, 446	65, 234	31, 210	202, 465 205, 150
Feb. 28	2, 231, 487	202, 290	567, 169 568, 287	198, 180	230, 514 224, 874	84, 976 84, 063	124, 317 124, 851	391, 487	85, 916	56, 446 55, 885 56, 143	65, 234 64, 539 63, 759	30,381 29,800	202, 383 200, 818
lightlitus	1			,		,							, , 
Feb. 28	2,645							418 431			1,840 1,895	387 462	
Mar. 14	2,645 2,788 2,599 2,368							453			1,701	445	
Feb. 28.  Mar. 7.  Mar. 14.  Mar. 21.  Deferred availability	2,368							443			1,485	440	
		48,604	94, 157	48 954	56, 409	50,093	24, 047	73, 400	38, 386	13, 835	44, 209	20, 358	36,502
Mar. 7	549, 513	44,945	91,839	46, 254 44, 783	53,687	48,963	24, 951 26, 297	73,707	39 154	15, 508 15, 358	44, 405	28, 808	38, 763 40, 176
Feb. 28. Mar. 7. Mar. 14. Mar. 21.	621, 433 572, 000	58, 485 51, 618	119, 055 107, 330	53, 031 50, 675	63, 514 56, 573	54,394 50,818	26, 297 26, 121	68,753	41, 827 38, 203	15, 358 13, 907	44, 248 42, 008	28, 808 27, 274 27, 419	40, 176 38, 575
All other liabilities:	11 600		2,472	684	871	465	589	1,338	831	856	443	1,625	1,062
Mar. 7	12,316	489	2 669	758	963	504	618	1.302	758	870	502	1 695	1 188
Mar. 14 Mar. 21	12,885	517 599	2, 990 2, 937	784 868	1,021 1,106	491 549	636 686	1,351 1,457	804 850	892 904	494 544	1,727 1,742	1, 178 1, 282
Total liabilities:	F 007 004	205 161		)					ì		Ì	1	1
Mar. 7	5,091,002	395, 161 398, 435	1, 488, 428 1, 458, 588 1, 512, 655	394, 381 392, 623 403, 833	490, 092 481, 720 498, 657	221, 621 217, 378	213, 201 221, 554 225, 928	796, 391 801, 913	216, 270 219, 229 222, 427	131, 199 139, 692	211, 435 212, 587 213, 576	119, 415 130, 476	409, 490 416, 807
All other habilities: Feb. 28. Mar. 7. Mar. 14. Mar. 21. Total liabilities: Feb. 28. Mar. 7. Mar. 14. Mar. 21.	5, 202, 460	414,558 409,215	1, 512, 655 1, 486, 545	403, 833 396, 678	498,657 486,968	222, 666 219, 642	225, 928 227, 687	801, 850 802, 992	222, 427	138, 325 138, 342	213, 576 211, 395	127, 401 125, 093	420, 584 413, 508
MEMORANDA.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			000,000	100,000	,	,	302,002	,		]		2-5,555
Ratio of total re- serves to deposit and F. R. note lia-													
bilities combined-		ļļ.								1		1	
per cent: Feb. 28	76. 2	76.4	80.6	72, 2	81.2	74.3	81.9	75.8	72.0	76. 2	64.5	50.0	70. 2
Feb. 28 Mar. 7 Mar. 14	. 76. 2 75. 4	75. 2 73. 4	83. 2 82. 2	73. 6 71. 0	78.3 75.6	74.5 73.5	76. 2 77. 2	75.4	69.3 71.2	75. 9 74. 3	63. 5 61. 5	49. 4 50. 1	69.8 70.9
Mar. 21 Contingent liability	75. 7	77.6	86. 6	68. 1	73. 9	66.4	76. 1	75. 4	64. 1	71.1	62.7	47.0	66.8
on bills purchased		1		1				1					
for foreign corre- spondents:		1						1					1
Feb. 28 Mar. 7	. 28,397	2,392	5, 169	2,743	3,445	1,659	1,308	4, 434	1,404	1,058	1,372	1,148	2, 265
Mar. 7 Mar. 14	. 28, 844 34, 577	2, 132 2, 132	8, 124 13, 857	2,743 2,444 2,444	3,070 3,070	1,478 1,478	1.165	3, 951 3, 951	1, 251 1, 251	966 966	1, 222 1, 222	1,023 1,023	2, 265 2, 018 2, 018
Маг. 21	35, 405	2, 132	14,685	2, 444	3,070	1,478	1, 165	3,951	1, 251	966	1,222	1,023	2,018
	1 -	11		1	1	1	1	<u>'</u>		,			<u>'</u>

## MATURITY DISTRIBUTION OF BILLS, CERTIFICATES OF INDEBTEDNESS, AND MUNICIPAL WARRANTS HELD BY THE 12 FEDERAL RESERVE BANKS COMBINED.

[In thousands of dollars.]

	Total.	Within 15 days.	16 to 30 days.	31 to 60 days.	61 to 90 days.	Over 90 days.
ills discounted:						
Feb. 28	595,760	455, 438	32, 457	54, 321	32, 519	21,025
Mar. 7	571, 487	419, 826	33, 993	59, 752	37, 865	20, 051
Mar. 14	613, 059	453, 609	36, 384	60,086	41,971	21,009
Mar. 21	629, 987	457, 147	40, 184	66, 358	45, 811	20, 487
Bills bought in open market:	,	101,111	20, 202	00,000	,	-0, 20.
Feb. 28	207,678	.58, 137	42, 253	57, 810	38,789	10,689
Mar. 7	218, 886	61,624	39, 323	64, 662	44, 344	8, 933
Mar. 14	225, 416	73, 178	41,627	60, 442	38, 968	11, 201
Mar. 21	237, 965	66, 559	43, 874	63, 421	52, 110	12,001
Inited States certificates of indebtedness:	,	,	,	,	,	,
Feb. 28	189, 099	68,620	35			120, 444
Mar. 7	186, 911					125, 506
Mar. 14.	184, 034					125, 734
Mar. 21	128, 322	1,700	••		54.124	72, 498
funicipal warrants:	120,000	2,.00			01, .21	
Mar. 21	41			41		
***************************************				**		,

### FEDERAL RESERVE NOTES.

#### FEDERAL RESERVE AGENTS' ACCOUNTS ON WEDNESDAYS, FEB. 28 TO MAR. 21, 1923.

	Total.	Boston.	New York.	Phila- delphia	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Min- neap- olis.	Kansas City.	Dallás.	San Fran- cisco.
Net amount of F. R. notes received from Comptroller of the													
Currency: Feb. 28. Mar. 7. Mar. 14. Mar. 21. F. R. notes on hand:	3, 512, 304 3, 503, 305	306, 029	1, 094, 517 1, 091, 105	270, 161 277, 727	287, 951 286, 857	126, 904 126, 140	201, 203 202, 416	554, 424 550, 606	130, 777 129, 379	69, 511 69, 317	93, 169 92, 457	56, 029 55, 371	319, 128 315, 901
Mar. 14 Mar. 21	3, 487, 449 3, 473, 336	303, 041 312, 650	1, 080, 613 1, 074, 392	274, 247 270, 383	285, 740 281, 706	124, 141 123, 475	206, 098 204, 846	554, 607 550, 905	128, 744 127, 729	68, 559 69, 163	92,648 91,950	54, 837 54, 315	314, 174 311, 822
Feb. 28 Mar. 7	853, 122	90,000 85,000	352, 590 335, 590	42,000 51,000	34,070 34,520	30,020 29,540	74, 083 72, 943	105, 160 108, 960	23,390 $22,740$	10, 230 9, 630	20, 210 20, 210	21,264 21,264	61,725 61,725
Mar. 14	849, 967 855, 797	80,000 92,400	334, 340 334, 340	51,000 45,800	32, 820 33, 620	29,340 30,690	75, 268 73, 768	113, 360 110, 620	22,740 22,740	8, 325 9, 405	19, 810 19, 810	21, 239 20, 879	61,725 61,725
Feb. 28	2, 647, 562 2, 650, 183	218, 530 221, 029	741, 927 755, 515 746, 273	228, 161 226, 727	253, 881 252, 337	96, 884 96, 600	127, 120 129, 473	449, 264 441, 646	107, 387 106, 639	59, 281 59, 687	72, 959 72, 247	34, 765 34, 107	257, 403 254, 176
Mar. 14	2,637,482 2,617,539	223, 041 220, 250	746, 273 740, 052	223, 247 224, 583	252, 920 248, 086	94, 801 92, 785	130, 830 131, 078	441, 247 440, 285	106, 004 104, 989	60, 234 59, 758	72, 838 72, 140	33, 598 33, 436	252, 449 250, 097
Gold and gold certificates— Feb. 28	317, 399	15,300	250, 531	7,000	13, 275		2, 400 2, 400		9, 380	13,052		6, 461	
Mar. 7 Mar. 14 Mar. 21	322, 399 312, 399 314, 899	20, 300 25, 300 25, 300	250, 531 235, 531 235, 531	7,000 7,000 7,000			2,400 2,400 2,400		9,380 9,380 11,880	13, 052 13, 052 13, 052		6, 461 6, 461 6, 461	
Gold redemption fund— Feb. 28	136, 023	20, 143	33, 214	15,304	13,059	4, 290	6,384	16, 245	4, 253	1,747	4, 412	1,905	15,067
Mar. 7 Mar. 14 Mar. 21	124, 765 126, 836 123, 544	17, 642 14, 654 11, 863	33, 038 32, 871 32, 694	10, 870 12, 390 13, 527	13, 964 12, 447 13, 614	2,566 3,567 1,901	5, 597 6, 279 5, 026	16, 426 15, 228 16, 525	4, 854 4, 219 4, 204	1,554 2,796 2,160	3, 701 2, 892 4, 193	1,746 2,213 2,190	12,807 17,280 15,647
Gold fund— F. R. Board—	1 655 345	128,000	341,000	138, 889	180,000	59,795	101,000	375, 644	66, 590	32, 000	54, 360	6,000	172, 157
Feb. 28 Mar. 7 Mar. 14 Mar. 21	11.029.370	133,000 138,000 138,000	341,000 341,000 371,000	145, 889 140, 889 132, 889	180,000 180,000 180,000	59, 795 56, 795 56, 795	101,500 100,000 100,500	347, 645 352, 644 344, 645	65, 500 67, 500 52, 000	32,000 32,000 32,000 32,000	51, 360 51, 360 49, 360	6,000 6,000 4,000	163, 190 163, 190 152, 471
Eligible paper— Amount re- quired—										:			
Feb. 28 Mar. 7 Mar. 14	538, 795 576, 140 568, 869	55, 087 50, 087 45, 087	117, 182 130, 946 136, 871	66, 968 62, 968 62, 968	47, 547 45, 098 47, 198	32, 799 34, 239 34, 439	17, 336 19, 976 22, 151	57, 375 77, 575 73, 375	27, 254 26, 905 24, 905	12, 482 13, 081 12, 386	14, 187 17, 186 18, 586	20,399 19,900 18,924	70, 179 78, 179 71, 979
Mar. 21 Excess amount	565, 436	45, 087	100, 827	71, 167	41, 197	34, 089	23, 152	79, 115	36, 905	12,546	18, 587	20, 785	81,979
held— Feb. 28 Mar. 7 Mar. 14	220, 741	6,023 4,356 21,955	93, 030 76, 792 75, 922	1,402 4,083 9,500	1,670 18,285 27,529	10, 552 6, 619 7, 742	9, 433 9, 080 5, 372	46, 122 28, 677 34, 895	3, 984 2, 114 4, 243	8, 086 7, 212 8, 159	3,733 2,675 4,380	17, 880 19, 710 18, 542	8,388 548 2,502
Mar. 21	248, 235	22, 221	67, 851	4, 175	39, 191	16, 278	12,357	42,011	571	11, 293	9, 525	19, 471	3, 29

## CONDITION OF REPORTING MEMBER BANKS IN LEADING CITIES.

PRINCIPAL RESOURCES AND LIABILITIES OF REPORTING MEMBER BANKS IN LEADING CITIES ON WEDNESDAYS FROM FEBRUARY 21 TO MARCH 14, 1923.

ALL REPORTING MEMBER BANKS IN EACH FEDERAL RESERVE DISTRICT.

Federal reserve district.	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis,	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Number of reporting banks: Feb. 21. Feb. 28. Mar. 7. Mar. 14. Loans and discounts, gross:	778 777 777 777	46 43 46 46	106 106 106 106	56 55 55 55	84 84 84 84	78 78 78 78	39 39 39 39	107 107 107 107	36 36 36 36	30 30 30 30	78 78 78 78	52 52 52 52	66 66 66 66
Secured by U. S. Government obligations— Feb. 21 Feb. 28 Mar. 7. Mar. 14 Secured by stocks	278, 285 282, 521 272, 169 269, 408	15, 001 14, 633 14, 231 14, 866	99, 165 93, 452 88, 131 85, 191	20, 010 19, 146 19, 043 18, 291	31, 731 32, 004 32, 308 32, 746	10, 527 10, 192 10, 481 10, 720	7, 463 7, 534 7, 395 7, 455	38, 957 47, 601 45, 213 44, 783	17, 768 17, 630 17, 894 18, 033	7, 735 7, 665 7, 690 7, 572	8, 449 8, 702 8, 238 8, 254	5, 491 7, 852 5, 242 5, 116	15, 988 16, 110 16, 303 16, 381
and bonds— Feb. 21 Feb. 28 Mar. 7 Mar. 14 All other loans	3, 736, 086 3, 799, 712 3, 717, 365 3, 711, 365	238, 111 242, 354 233, 025 237, 745	1, 696, 029 1, 735, 929 1, 646, 149 1, 629, 367	240, 737 245, 326 258, 617 261, 940	370, 930 371, 566 382, 294 379, 172	122, 537 121, 308 123, 165 124, 441	61, 411 61, 659 61, 971 60, 737	533, 734 542, 358 540, 784 548, 891	135, 344 140, 042 136, 963 137, 061	46, 661 47, 642 48, 270 44, 709	77, 898 80, 546 80, 090 79, 945	51, 370 52, 392 51, 103 51, 155	161, 324 158, 590 154, 934 156, 202
and discounts— Feb. 21 Feb. 28 Mar. 7 Mar. 14 Total loans and dis-	7, 517, 372 7, 557, 140 7, 645, 393 7, 742, 123	603, 938 603, 582 605, 348 609, 233	2, 348, 675 2, 389, 817 2, 441, 412 2, 491, 108	335, 071 329, 715 330, 034 331, 962	658, 097 658, 427 663, 302 668, 809	322, 933 317, 791 319, 918 322, 957	332, 621 336, 806 337, 459 341, 614	1, 098, 324 1, 094, 809 1, 114, 963 1, 122, 161	302, 359 299, 176 305, 342 304, 248	189, 973 191, 140 191, 810 200, 576	359, 457 363, 805 361, 285 365, 800	210, 200 207, 999 211, 043 210, 485	755, 724 764, 073 763, 477 773, 170
counts: Feb. 21 Feb. 28 Mar. 7	11, 531, 743 11, 639, 373 11, 634, 927 11, 722, 896	857, 050 860, 569 852, 604 831, 844	4, 143, 869 4, 219, 198 4, 175, 692 4, 205, 666	595, 818 594, 187 607, 694 612, 193	1, 030, 758 1, 061, 997 1, 077, 904 1, 080, 727	455, 997 449, 291 453, 564 458, 118	401, 495 405, 999 406, 825 409, 808	1, 671, 015 1, 684, 768 1, 700, 960 1, 715, 835	455, 471 456, 848 460, 199 459, 342	244, 369 246, 447 247, 770 252, 857	445, 804 453, 053 449, 613 453, 999	267, 061 268, 243 267, 388 266, 756	933, 036 938, 773 934, 714 945, 753
U. S. pre-war bonds: Feb. 21. Feb. 28. Mar. 7. Mar. 14. U. S. Liberty bonds:	281, 620 282, 800 283, 169 282, 871	12,798 12,798 12,797 12,721	48, 461 48, 456 48, 466 48, 486	11, 464 11, 464	48,001	30, 460 30, 460 30, 460 30, 460	14, 451 14, 551 14, 551 14, 521	24, 903	15, 324 15, 324 15, 479 15, 323	8, 426 8, 831 8, 776 8, 776	12, 078 12, 359 12, 077 12, 078		36, 384
U.S. Liberty bonds: Feb. 21 Feb. 28 Mar. 7 Mar. 14 U.S. Treasury	1,062,766 1,042,296 1,060,336 1,061,544	77, 673 78, 006 78, 063 78, 289	483, 977 466, 121 479, 844 479, 407	47, 830 48, 080 47, 966 48, 085	120, 128 119, 967 121, 866 121, 585	32, 671 32, 635 32, 817 32, 427	12,349 12,054 12,610 12,445	96, 055 93, 585 94, 925 95, 359	23, 847 23, 725 23, 916 24, 826	16, 152 15, 218 14, 808 14, 382	45, 757 46, 668 46, 639 44, 887	13, 275 13, 419 13, 663 13, 905	93, 052 92, 818 93, 219 95, 947
bonds: Feb. 21	118, 216 112, 261 113, 456 112, 252	: I I	45, 880 44, 074 45, 438 42, 847	4, 559 4, 180 4, 161 4, 166	9, 663 8, 949 8, 965 8, 816	4, 661 4, 657 4, 776 4, 718	2,780 1,772 1,837 1,838	13, 146 12, 646 12, 710 12, 728	9, 670 9, 910 9, 554 9, 587	2,348 1,733 1,363 1,323	4, 466 3, 518 3, 871 4, 530	2,645 2,729 2,649 2,645	12, 970 12, 713 12, 838 12, 988
Feb. 21Feb. 28Mar. 7Mar. 14U. S. certificates of	043 377	24, 930	505, 784 489, 814 514, 745 507, 366	52, 757 52, 928 53, 947 52, 985	56, 602 57, 293 57, 635 58, 131	9, 601 9, 739 9, 462 10, 026	6, 785 6, 900 7, 242 7, 151	144,849 143,889	25, 180 25, 167 25, 515 24, 393	23, 983 24, 643 24, 940 25, 002	20, 272 21, 392	14, 941 15, 439 17, 059 17, 084	42, 118
Feb. 21Feb. 28Mar. 7Mar. 14Other bonds, stocks,	145 655	7, 923 1, 831	68, 727 68, 380 46, 507 31, 918	2,302	9,713 9,745	2, 591 2, 701	3,724 5,284 4,319 4,524	24, 513 24, 284	3,420	2,084 1,904	5, 453 5, 995	3,316 3,389	10,465 11,340
Feb. 21Feb. 28Mar. 7Mar. 14Total loans and dis-	2, 180, 991 2, 186, 296 2, 186, 035	171, 836 172, 549 172, 965 172, 747	735, 807 742, 222 741, 654 716, 230	185, 211 184, 437	287, 202 286, 273	52, 642 52, 573	37, 076 37, 193 36, 938 37, 414	362, 354 365, 824	88, 306 91, 674 88, 895 88, 923	30, 486 30, 701	57, 765 58, 442	0 017	155, 054 157, 981 158, 311 159, 675
counts and investments: Feb. 21	. 16, 329, 788 16, 337, 730 16, 376, 462	1, 162, 155 1, 148, 323	6, 078, 265 6, 052, 346	898, 352 911, 328	1, 595, 956 1, 593, 177 1, 610, 444 1, 613, 957	582, 015 586, 353	483, 753 484, 322	2, 338, 914 2, 347, 311 2, 367, 495 2, 377, 555	626, 328 626, 978	329, 442 330, 262	599,088 598,029	331, 916 332, 923	1,292,346 1,297,986 1,288,927 1,305,369
F. R. banks: Feb. 21. Feb. 28. Mar. 7. Mar. 14.	1, 425, 098 1, 408, 310 1, 403, 014	78, 869 84, 440	617, 432	69, 958	109, 198 108, 329 105, 285 112, 109	37, 875 36, 386	35, 892 30, 629 33, 119 34, 356	210,718 207,614 208,528 206,260	44, 053 42, 333 45, 155 44, 499	25, 068 21, 206 25, 631 25, 774	48, 561 49, 446	25, 700 28, 167	92,696

# PRINCIPAL RESOURCES AND LIABILITIES OF REPORTING MEMBER BANKS IN LEADING CITIES ON WEDNESDAYS FROM FEBRUARY 21 TO MARCH 14, 1923—Continued.

#### ALL REPORTING MEMBER BANKS IN EACH FEDERAL RESERVE DISTRICT-Continued.

				[I]	thousan	ds of doll	ars.]						
Federal reserve district.	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Cash in vault: Feb. 21 Feb. 28 Mar. 7 Mar. 14 Net demand deposits:	288, 869 277, 480 284, 678 288, 588	18, 947 18, 673	88, 564 79, 818 81, 946 81, 117	17, 611 16, 472 16, 677 16, 639	30, 924 29, 381 32, 084 30, 572	13, 608 13, 946 13, 706 13, 955	10, 556 10, 907 10, 602 11, 075	55, 158 56, 702	8, 137 7, 899 7, 977 8, 158	5, 760	11, 595 11, 788 11, 788 11, 867	9, 337 9, 805 9, 657 9, 289	19, 943 19, 738 20, 327 24, 781
Net demand deposits: Feb. 21. Feb. 28. Mar. 7. Mar. 14. Time deposits: Feb. 21. Feb. 28. Mar. 7. Mar. 14. Government de-	11,445,970 11,524,612 11,385,154 11,463,614	813,239 804,063 810,838 812,865	4,967,431 4,809,592	700, 795 718, 675	911,567 932,774 933,036 935,499	340, 559	287, 612 287, 739 286, 632 295, 395	1,505,172 1,517,589 1,514,613 1,524,279	378,353 376,217 377,656 380,804	218, 265 220, 363	463,888 469,637 470,137 467,361	238,341 247,213 244,883 246,377	679, 583 669, 061 663, 941 688, 608
	3,772,556 3,775,827 3,855,553 3,891,274	245,256 245,527 246,738 247,363	761, 449 768, 377 833, 652 855, 921	75,059 75,467 71,566 83,583	550, 840 547, 603 553, 061 551, 839	149, 826 151, 784 152, 514 152, 732	164,636 164,837 166,048 166,354	759,810 765,001	184,741 184,211 184,089 183,487	85, 263 82, 641 82, 737 83, 280	126,844 122,652 123,899 124,252	74,702 74,762 74,989 74,830	601,259
posits: Feb. 21 Feb. 28 Mar. 7. Mar. 14. Bills payable and rediscounts with F. R. banks: Secured by U. S. Government obli-	98,747 100,109 100,275 108,817	7,699 7,429 7,389 7,389	41,813 41,813 41,813 41,813	9,631 9,631	5,079 4,948 5,179 4,892	4,578 4,578 4,578 4,578	2,443 2,359 2,444 2,499	12,189 14,035 13,948 13,898	3,852 3,852 3,852 3,852	3,007 3,007 2,984 3,142	1,081 1,081 1,081 1,476	1,304 1,305 1,305 1,305	6,071 6,071 6,071 14,342
gations— Feb. 21 Feb. 28 Mar. 7 Mar. 14	278,548 267,180 247,496 273,879	11,483 8,234 9,019 10,338	173,880 157,708 152,138 156,849	14,323	15,243 8,683 5,566 18,163	11,888 13,128 10,472 11,980	606 1,371	33,074 36,983	2,751 6,901 2,620 2,733	365 115 1,115 1,190	3,440 4,323	675	14,776 15,807 8,891 7,104
All other— Feb. 21 Feb. 28 Mar. 7 Mar. 14	138,905 118,334 124,112 131,655	30,777 22,409 16,789 22,900	42,458 27,159 26,256 28,578	11,456 8,970	7,061 2,260 11,215 9,384	13,348 12,674 13,825 13,960	3,397 4,218 4,735 2,277	10,012 11,034 8,344 10,486	2,321 4,297 7,118 6,162	3,479 1,245 1,266 1,909	3,104	2,970 3,071 3,532 3,719	7,383 16,261 18,958 17,650
	R	EPORTI	NG MEM	BER BA	nks in	FEDER	AL RES	ERVE E	ANK CI	TIES.	·	<u></u>	
Number of reporting													
banks: Feb. 21 Feb. 28 Mar. 7 Mar. 14 Loans and discounts,	260 259 259 259	23 23	63 63 63	43 42 42 42	8 8 8	10 10 10 10	6	49 49	13	6		8 8	15 15 15 15
gross: Secured by U.S. Govern ment obligations— Feb. 21 Feb. 28 Mar. 7	190 232	12,257 11,922	90,220 84,073	18,096 17,240	6,748 6,767	2,141 1,962 2,248	1,995 2,069	29,335 37,201 35,095	13,878 13,638	4,952 4,831	2,317 2,323 2,065 2,143	1,720 1,581 1,595	6,573 6,639
Secured by stocks	190, 246 182, 865 179, 534	11,522 12,151	79,070	17,240 17,154 16,332	6,767 6,720 6,775	2,248 2,255	2,069 2,015 2,014	35,095 35,017	13,846 14,092	4,854	2,065 2,143	1,595 1,495	6,681 6,731
and bonds— Feb. 21 Feb. 28 Mar. 7 Mar. 14 All other loans	2,725,651 2,780,163 2,693,162 2,682,693	188,776 192,825 183,754 188,380	1,521,241 1,557,692 1,460,990 1,443,543	220,392 224,560 237,653 240,923	137,687 137,671 144,014 141,836	19,741 19,684	10,740 11,440	407,902 409,029	104,432 101,149	26,315 27,284	22,456 22,094	10,473 10,280 10,073 11,407	66,036 65,549 65,998 65,628
and discounts— Feb. 21 Feb. 28 Mar. 7 Mar. 14 Total loans and dis-	4,623,863 4,653,398 4,723,079 4,801,271	455,943 456,264 456,822 459,350	2,087,816	297,688 298,130	305,905 307,555 309,460 310,344	64,783 64,298	57,547 56,117	637,769 654,343	170, 463 174, 233	90,668 89,290	117,816 117,938		307 990
counts: Feb. 21	7,539,746 7,623,807 7,599,106 7,663,498		3,661,902 3,729,581 3,677,210 3,704,837			1	1	1,076,210 1,082,872 1,098,467 1,111,851			1	68,560	l
Feb. 21 Feb. 28 Mar. 7 Mar. 14	98,902 99,262 99,818 99,760	2,343	37, 835 37, 805 37, 815 37, 835	7,358 7,358 7,358 7,358 7,358	4,530 4,530 4,530 4,530	1,805 1,805 1,805 1,805	2,927 2,927 2,927 2,927	2,652 3,050 3,361 3,361	8,224 8,224 8,224 8,223	3,031 3,031 3,031 3,031	2,131 2,131 2,131 2,131	4,875 4,875 • 4,875 4,875	21,418
U.S. Liberty bonds: Feb. 21	643, 287 623, 273 638, 906 640, 392	34,228 34,224 34,131	414,334 396,790 411,389	36,933 37,175 37,058	25,197 25,938 25,165	3,673 3,669 3,669 3,672	320	35,418 36,757	15,211 15,573 15,535 15,355	6,638 6,492 6,614 6,624	20,294 20,499 20,376	4,493 4,718 5,267	42,625

## PRINCIPAL RESOURCES AND LIABILITIES OF REPORTING MEMBER BANKS IN LEADING CITIES ON WEDNESDAYS FROM FEBRUARY 21 TO MARCH 14, 1923—Continued.

REPORTING MEMBER BANKS IN FEDERAL RESERVE BANK CITIES—Continued.

(In thousands of dollars.)			
	JTn	thousande	of dollare

				. (1	n thousai	nds of do	lars.]						
Federal reserve district.	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
U. S. Treasury bonds: Feb. 21 Feb. 28 Mar. 7 Mar. 14. U. S. Victory notes and Treasurynotes:	65, 701 62, 873 63, 987 62, 419	2, 601 2, 553 2, 566 3, 538	36, 164 33, 433 34, 795 32, 206	3, 695 3, 296 3, 277 3, 255	1, 846 1, 842 1, 851 1, 851	294 294 294 194	117 105 105 105		7, 772 7, 815 7, 651 7, 686	1,022 867 757 759	726 743 699 760	1, 103 1, 103	5, 434 5, 400 5, 450 5, 480
Feb. 21	727, 438 704, 210 725, 851 716, 560	20, 809 17, 259 17, 152 16, 691	474, 717 458, 699 483, 347 475, 927	49, 868 49, 891 50, 908 49, 899	9, 744 9, 664 9, 855 9, 851	1,578 1,568 1,568 1,506	310 310 310 310	102, 174	16, 645 16, 574 16, 786 15, 876	8, 599 8, 997 9, 241 9, 319	9, 088 7, 277 7, 367 10, 790	6,646 6,645 6,765 6,770	25, 855 25, 152 20, 966 20, 782
indebtedness: Feb. 21. Feb. 28. Mar. 7. Mar. 14. Other bonds, stocks,	93, 266 93, 917 70, 457 52, 826	2,044 1,719 1,369 1,373	66, 089 65, 767 43, 889 28, 675	1, 493 2, 226 1, 589 1, 538	1,587 1,587 1,616 1,622	1,318 1,318 1,278 1,318	888 1,050 888 888	12, 051 12, 490 12, 285 9, 714	2, 496 2, 466 2, 487 2, 297	879 939 784 784	1, 126 1, 192 1, 131 1, 139	1,509 1,537 1,610 1,706	1,786 1,626 1,531 1,772
and securities: Feb. 21 Feb. 28 Mar. 7 Mar. 14 Total loans and discounts and investments:	1, 178, 195 1, 185, 090 1, 189, 890 1, 169, 144	80, 110 80, 721 81, 801 80, 986	534, 756 540, 677 543, 290 522, 963	150, 654 148, 668 147, 644 147, 050	65, 658 63, 927 66, 250 66, 569	5, 815 5, 816 5, 759 5, 234	3,358 3,504 3,780 3,598	185, 641 186, 686 188, 672 188, 881	56, 455 59, 585 57, 004 57, 021	13, 458 13, 396 13, 252 13, 737	11, 221 10, 439 11, 477 11, 451	1, 499 1, 596 1, 594 1, 993	69, 570 70, 075 69, 367 69, 661
Feb. 21	10, 347, 535 10, 392, 432 10, 388, 015 10, 404, 599	799, 112 799, 831 791, 460 798, 892	5, 262, 752 5, 231, 735	792, 183 788, 102 800, 771 802, 833	558, 902 559, 481 569, 461 568, 563	101,252 100,956 100,603 101,778	76, 227 78, 572 77, 902 79, 481	1, 423, 717 1, 428, 112 1, 446, 567 1, 455, 898	394, 259 398, 770 396, 915 394, 775	154, 759 155, 536 155, 107 157, 965	189, 750 184, 876 185, 278 189, 790	88, 203 89, 374 88, 783 90, 259	543, 374 546, 070 543, 433 550, 986
Feb. 21 Feb. 28 Mar. 7 Mar. 14	1, 015, 047 1, 005, 997 999, 136 1, 025, 456	64, 979 61, 745 68, 440 66, 689	594, 954 598, 049 567, 869 602, 979	64, 167 64, 062 65, 862 66, 061	31, 274 33, 614 33, 783 30, 313	6,558 6,203 7,182 6,167	6, 315 3, 561 5, 951 5, 347	147, 493 147, 537 150, 675 145, 376	28, 590 25, 709 29, 856 28, 481	13, 233 9, 679 13, 609 12, 890	16, 439 16, 103 16, 890 16, 555	8, 126 7, 487 7, 572 8, 842	32, 919 32, 248 33, 447 35, 756
Feb. 21. Feb. 28. Mar. 7. Mar. 14.	151, 857 142, 987 146, 959 147, 184	8, 636 8, 536 8, 456 8, 043	73, 325 66, 336 67, 209 66, 959	14, 505 13, 396 13, 249 13, 323	8, 278 8, 278 8, 752 8, 838	1, 015 846 902 918	1, 992 2, 184 2, 149 2, 269	28, 581 29, 173 30, 624 31, 150	3, 780 3, 596 3, 654 3, 785	1, 867 1, 856 1, 855 1, 792	2, 409 2, 331 2, 764 2, 339	1, 458 911 1, 311 1, 275	6, 011 5, 544 6, 034 6, 493
Feb. 21. Feb. 28. Mar. 7. Mar. 14. Time denosits:		628, 528 618, 589 627, 678 627, 993	ſ	617, 042 618, 130 636, 294 628, 817	233, 638 237, 603 236, 864 237, 425	58, 828 56, 449 56, 792 56, 977	1	1, 012, 607 1, 030, 135 1, 037, 673 1, 026, 472	252, 280 251, 516 251, 069 250, 719	101, 067 100, 682 103, 653 103, 706	166, 655 165, 917 165, 866 164, 374	68,918	248, 053 242, 143 236, 551 250, 311
Feb. 21		102, 932 102, 757 103, 462 103, 731	505, 189 508, 750 571, 136 593, 560	57, 940 58, 094 53, 890 65, 445	319, 494 318, 411 321, 198 319, 434	25, 378 25, 369 25, 395 25, 413	21, 478 21, 580 21, 818 21, 859	364, 130 367, 688 370, 822 373, 184	103, 608 104, 004 103, 337 102, 976	37, 048 37, 221 37, 288 38, 034	16, 315 12, 007 12, 329 12, 595	13, 839 13, 898 13, 789	240, 643 241, 380 239, 479 241, 104
Feb. 21. Feb. 28. Mar. 7. Mar. 14. Bills payable and rediscounts with F. R. banks: Secured by Gov-	74, 739 74, 339 74, 546 74, 549	6, 282 6, 012 6, 012 6, 012	38, 591 38, 591 38, 591 38, 591	8, 942 8, 942 8, 942 8, 942	826 696 926 826	261 261 261 261 261	403 403 403 463	8, 942 8, 942 8, 942 8, 893	3, 268 3, 268 3, 268 3, 268	1,512 1,512 1,489 1,647	518 518 518 518	615 615 615 615	4, 579 4, 579 4, 579 4, 513
ernment obli- gations— Feb. 21 Feb. 28 Mar. 7 Mar. 14 All other—	209, 259 202, 129 185, 961 200, 457	9, 270 6, 386 6, 921 8, 728	146, 740 132, 995 131, 655 133, 736	22, 640 18, 184 12, 923 19, 247	200 715 515 275	3, 108 3, 370 2, 544 2, 887	280 35	10, 701 19, 776 18, 666 25, 074	1,968 5,005 1,832 1,500	115 115 1, 115 1, 115	717 1, 212 811 2, 142	500	13, 520 14, 336 8, 479 5, 753
Feb. 21 Feb. 28 Mar. 7 Mar. 14	100, 848 78, 905 83, 738 97, 242	30, 347 21, 999 16, 219 22, 314	31, 195 17, 636 17, 323 18, 159	13, 028 11, 456 8, 970 10, 723	3, 686 293 7, 979 7, 821	3, 195 3, 587 4, 288 4, 452	667 744 644 650	8, 246 6, 410 3, 331 8, 431	1, 604 2, 592 6, 037 5, 032	2, 491 316 341 1, 311	254 454 717 1, 206	1, 106 1, 221 1, 749 1, 814	5, 029 12, 197 16, 140 15, 329
Bank deposits: Due to banks— Feb. 21 Feb. 28 Mar. 7. Mar. 14 Due from banks—	2,009,264 2,161,780 2,122,084 2,059,808	111, 594 109, 748 114, 292 113, 918		155, 555 162, 242 168, 394 162, 641	44, 371 44, 623 45, 115 43, 816	32, 425 32, 791 34, 887 33, 783	14, 721 15, 812 17, 787 16, 534	356, 846 366, 577 383, 070 360, 398	91, 533 91, 381 89, 837 84, 330	47, 994 49, 588 53, 927 50, 841	114, 106 113, 275 114, 568 108, 182	33, 155 26, 222 25, 999 25, 854	85, 768 90, 670 88, 858 89, 879
Feb. 21 Feb. 28 Mar. 7 Mar. 14	502, 737 528, 691 506, 832 514, 414	36, 770 42, 106 34, 467 36, 310	77, 843 76, 859 72, 092 76, 101	55, 406 57, 525 52, 576 54, 783	19, 098 20, 749 18, 441 20, 463	13, 008 13, 767 14, 019 13, 521	7, 019 7, 962 11, 016 8, 572	141, 306 149, 815 146, 956 149, 403	24, 271 24, 087 24, 302 24, 376	13, 078 19, 537 16, 135 17, 055	43,632 45,931 46,188 43,560	23,060 21,357 22,304 21,326	48, 246 48, 996 48, 336 48, 944

## DEBITS TO INDIVIDUAL ACCOUNTS BY BANKS IN SELECTED CITIES.

#### MONTHLY SUMMARY FOR BANKS IN 141 SELECTED CITIES.

[In thousands of dollars.]

Federal reserve district.	Number of cities.	January, 1923.	February, 1923.	March, 1923.	January, 1922.	February, 1922.	March, 1922.
No. 1—Boston	7 10 13 7 15 21 5 9	2, 197, 997 22, 763, 018 1, 914, 837 2, 305, 963 746, 047 1, 005, 714 4, 810, 899 1, 178, 722 647, 312 1, 202, 253 605, 258 2, 374, 873	1, 889, 899 19, 595, 761 1, 648, 925 1, 949, 330 631, 628 827, 440 4, 383, 007 952, 802 510, 811 996, 423 494, 600 2, 043, 173	2,144,960 23,231,535 1,926,493 2,206,665 2,206,665 4,828,011 1,112,305 600,805 1,199,481 547,188 2,581,355	1, 928, 021 19, 644, 551 1, 583, 008 1, 709, 232 630, 971 774, 821 3, 858, 652 858, 795 492, 323 950, 759 526, 519 1, 979, 295	1, 611, 605 17, 029, 426 1, 431, 593 1, 538, 864 676, 960 3, 523, 914 455, 305 872, 689 460, 149 1, 709, 434	1, 857, 802 20, 977, 91 1, 628, 11 1, 665, 922 618, 56 781, 07- 4, 389, 18 859, 41 556, 28 1, 012, 27- 521, 464 2, 061, 22
Total	141	41, 752, 913	35, 924, 402	42, 108, 017	31, 936, 967	30, 585, 310	36, 932, 27
New York City Other cities	1 140	22, 087, 156 19, 665, 757	19, 019, 491 16, 904, 911	22,541,298 19,556,719	19, 034, 575 15, 872, 392	16, 543, 428 14, 011, 882	20, 397, 10 16, 535, 16

#### WEEKLY SUMMARY FOR BANKS IN 238 CITIES.

[In thousands of dollars.]

Federal reserve district.	Number of centers		199 Week ei		ļ		Week e		
	included.	Feb. 28.	Mar. 7.	Mar. 14.	Mar. 21.	Mar. 1.	Mar. 8.	Mar. 15.	Mar. 22.
No. 1—Boston No. 2—New York. No. 3—Philadelphia. No. 4—Cleveland. No. 5—Richmond No. 6—Atlanta. No. 7—Chicago. No. 8—St. Louis. No. 9—Minneapolis. No. 10—Kansas City. No. 11—Dallas. No. 12—San Francisco.	12 18 23 21 25 31 11 16 26 15	483, 469 4, 669, 969 452, 990 571, 434 242, 104 223, 623 1, 415, 915 245, 403 126, 593 276, 372 147, 126 529, 533	559, 091 6,018, 845 478, 401 589, 892 283, 888 249, 401 1, 112, 164 268, 795 149, 373 317, 779 159, 812 694, 957	498, 111 4, 844, 499 436, 412 593, 553 259, 412 232, 552 1, 055, 233 255, 930 133, 134 269, 455 147, 106 559, 933	564, 488 5, 271, 185 498, 020 615, 268 277, 041 239, 537 1, 158, 255 282, 823 156, 859 278, 827 156, 725 605, 235	452,085 5,198,479 440,474 515,895 244,817 198,964 1,063,044 230,945 128,230 235,679 137,189 486,408	419, 672 4, 550, 880 397, 507 449, 052 225, 989 192, 430 964, 122 204, 806 138, 766 254, 632 143, 433 516, 333	495, 890 4, 531, 274 388, 514 452, 165 223, 863 183, 167 1, 017, 857 215, 259 138, 056 236, 200 139, 033 481, 467	445, 717 4, 944, 353 405, 879 470, 980 226, 331 187, 102 1, 025, 787 213, 236 134, 564 239, 168 142, 419 491, 249
Total		9, 384, 561	10, 882, 389	9, 285, 271	<u>-</u>	9, 362, 109	8, 457, 645	8,502,745	8, 926, 78

#### DATA FOR EACH CITY.

		19:	28			19	22	-
		Week ei	nding—	77.77		Week e	nding	
	Feb. 28,	Mar. 7.	Mar. 14.	Mar. 21.	Mar. 1.	Mar. 8.	Mar. 15.	Mar. 22.
District No. 1—Boston:								
Bangor, Me Boston, Mass. Brockton, Mass.	3,026	$3,876 \ 392,961$	3,017	2,972	3,302	3, 102	3,077	3,596
Boston, Mass	338,418	392, 961	343,830	400,608	307,040	285, 828	351,959	304, 171
Brockton, Mass	3,929	4,738	5,008	5, 437		4,320	4,855	5,030
ran River, Mass	0.411	6,741	7,330	7,538	5,394	5, 243	6,023	6,029
Hartford, Conn	22 481 i	26, 523	22,084	24,014	23,603	21,022	19,965	20, 179
Holyoke, Mass Lowell, Mass	3,227	3,850	3,646	4,010	2,667	3,104	2,769	3, 183
Lowell, Mass	3,969	5,041 5,827	4, 792	5, 199	4,381	4,312	4,248	4, 424
Lynn, Mass Manchester, N. H New Bedford, Mass	5, 429	5,827	6,339	5,700	5,010	5,357	6,008	6,113
Manchester, N. H.	3,793	4, 454	4,050	4,910	3,776	3,522	5, 245	3, 473
New Bediord, Mass	6, 541	8,786	7,319	7,330	6,412	5,670	5,928	6,057
New mayen, Conn	10.975	21, 245 9, 863	17, 183	18,317	14,094	17,096	17,323	17, 705
Portland, Me Providence, R. I	7,942	9,863	8,655	9,100	7,731	7,310	7,479	6,691
Caringfold Mass	30,630	31,879	32,600	35,992	34,696	27, 836	32,766	30, 229
Springfield, Mass Waterbury, Conn	14,694	16,897	16,001	15,795	13, 475	12, 270	12,652	13,223
Warengton Mana	6,271	6, 251	6, 241	6,975	6,867	5, 436	6,435	6,478
Worcester, Mass	13,662	14, 897	15,024	16,028	13,637	12,564	14,013	14, 166

#### DATA FOR EACH CITY-Continued.

		19	23			19	22	
		Week e	nding—			Week e	nding	
	Feb. 28.	Mar. 7.	Mar. 14.	Mar. 21.	Mar. 1.	Mar. 8.	Mar. 15.	Mar. 22.
District No. 2—New York: Albany, N. Y.	27, 426	20, 268	19,438	27,333	42, 151	20, 555	20, 036	26, 417
Aloany, N. Y. Binghamton, N. Y. Buffalo, N. Y. Elmira, N. Y. Jamestown, N. Y. Montclair, N. J. Newark, N. J. New York, N. Y. Northern New Jersey Clearing House Association	3,915 59,086	4, 406 65, 713	4, 474 61, 656	4,601 68,940	4,346 60,705	3,762 52,181	4,073 54,226 2,722	3,742 53,457
Elmira, N. Y	$\frac{3,453}{3,289}$	3, 511 4, 019	3,549 3,851	3, 864 4, 299	3,356 3,291	2,688 3,143	2,722 3,193	2,741 3,325
Montclair, N. J	$\frac{2,480}{53,258}$	2,769	2,532	3, 190	1,986	2, 299	2, 144	2,365 47,449
New York, N. Y	4, 488, 471	$\begin{array}{c} 62,870 \\ 5,802,558 \end{array}$	58, 175 4, 661, 234	67, 956 5, 058, 843	4,997,750	4,383,912	4,365,972	4,771,300
Association	30,721	47, 183	34, 113	38, 458	33,335	33,691	30, 200	30, 836
Association Passaic, N. J. Rochester, N. Y Stamford, Conn Syracuse, N. Y District No. 3—Philadelphia: Allentown, Pa.	5, 787 30, 619	6.537	34, 113 6, 555 30, 713 2, 521	6,928	5, 413 30, 353	4, 865 28, 003	5, 898 28, 109	6, 157 28, 542
Stamford, Conn	2,217	$40,377 \\ 2,543$	2, 521	34,821 $2,750$	2,274	2,928	2,327	1,955
Syracuse, N. Y	12, 505	18, 961	13, 854	17, 158	13, 449	12, 853	12,374	13, 516
Allentown, Pa. Altoona, Pa. Altoona, Pa. Camden, N. J. Chester, Pa. Harrisburg, Pa. Hazleton, Pa. Johnstown, Pa. Lancaster, Pa. Lebanon, Pa. Norristown, Pa.	5,715	6,497	5,712	7,010	5,966 2,989	5, 103	5, 227 3, 173	5,382 2,840
Camden, N. J.	3,690 9,359	3,712 9,944	3,888 9,756	3,638 11,818	9,392	2,545 8,747	9, 227	9,930
Chester, Pa.	5, 808 6, 199	4, 899 8, 820	4,841 7,913 2,243	5,629 8,760	5, 235 6, 647	3,551 6,662	4,091 6,741	4,632 6,678
Hazleton, Pa.	2, 516	2,478	2, 243	2,394	2,585	2,044	2,188	1,896
Johnstown, Pa Lancaster Pa	5, 475 5, 134	5,092 5,345	4,916 5,851	5,001 7,239	4,766 5,274	4,279 5,157	4,072 5,026	3, 825 5, 410
Lebanon, Pa	1,327	1,449	1,422	1,327	1,182	1,060	956	1,081
Lebanon, Pa Norristown, Pa Philadelphia, Pa Reading, Pa Scranton, Pa Trenton, N J Wilkes-Barre, Pa Williamsport, Pa Wilmington, Del	$681 \\ 346, 261$	928 365, 989	963 325, 713	858 379, 439	638 331, 495	638 306,370	586 292, 575	644 305, 912
Reading, Pa.	8, 074 17, 086	9, 212 16, 297	9, 405 15, 607	9,757	7,037 16,613	6,560 13,459	292, 575 7, 209 13, 432	7, 294 14, 656
Trenton, N. J.	11, 260	12,663	12, 915 9, 134	16,840 13,016 9,710	15, 153	10,439	10,998	11,527
Wilkes-Barre, Pa	9,581 3,918	9,373	9, 134	9,710	15,153 8,353 4,064	6,882 3,809	8,512 4,201	8,077 4,114
Wilmington, Del	7,242	4,408 7,320 3,975	4, 151 7, 509	4,260 7,496	9,101	6, 137	6,870	7,774
York, Pa. District No. 4—Cleveland:	3,664	3,975	4, 473	3,828	3,984	4,065	3,430	4, 207
Akron, Ohio	14,363	15, 215 2, 519	16, 263	14, 887	11, 295 1, 969	10,657	10, 858	11,360
Butler, Pa	2, 395, 9, 033	9.706	2,648 12,208	2, 411 10, 463	1,969 6,926	1,756 6,995	1, 833 5, 819	1,654 9,048
Cincinnati, Ohio	71, 778	78, 625	76,423	92,602	65, 998	59, 235	65, 404 107, 572 28, 849	65, 434 104, 381 26, 847
Cleveland, Ohio Columbus, Ohio	134,269 $29,415$	140,341 $32,374$	133, 208 31, 325	144, 305 32, 159	118,550 26,337 1,037	105, 382 25, 617	28, 849	104, 381 26, 847
Connellsville, Pa	1,382	32, 374 1, 750	1,759	1,315	1,037	953	995	1,051
Dayton, Ohio Erie, Pa	16, 196 6, 179	21, 102 7, 003	15, 877 7, 218	18, 161 7, 261	11,683 5,874	15, 353 6, 299	11,610 6,737	12,676 5,640
Erie, Pa Greensburg, Pa Homestead, Pa	4, 398 667	4, 862 823	4, 795	6,088 831	4, 198 543	3, 177 602	4,047 597	3′, 42′ 59
Lexington, Ky	7,630	9,527	704 8,643	8,046	9,944	8,013	8,246	7,952
Lima, Ohio	3, 901 1, 086	4,771	3, 494 1, 216	4, 164	3, 509 886	3, 490 876	3, 280 1, 032	2,879 1,166
Lorain, Ohio New Brighton, Pa	2,360	1, 187 2, 353	2,327 2,902	1, 289 2, 107 3, 372 193, 369	2.018	1,657	1,885	1,655
Oil City, Pa	2, 767 194, 828	3, 325 178, 629	2,902 193,697	3,372	2, 469 183, 350	2, 484 142, 194	2,591 135,431	2, 444 154, 498
Oil City, Pa Pittsburgh, Pa Springfield, Ohio Toledo, Ohio	5,005	5, 989	5, 497	4, 705 39, 797	4,518	5, 213	4, 012 27, 492	3,90
Warren, Ohio	36, 511 2, 297	40,060 3,147	42,907 4,103	3.086	30, 855 3, 028	28,607 2,072	27, 492 3, 295	31, 82 2, 07
Warren, Ohio Wheeling, W. Va Youngstown, Ohio	9,516	9,746	11, 153	10, 296 10, 756	8, 109	7,453	7,300 10,642	8,254 9,723
	13, 077 2, 381	14, 457 2, 381	12, 183 3, 003	3,798	10, 832 1, 967	8, 802 2, 165	2,638	2, 494
District No. 5—Richmond: Asheville, N. C. Baltimore, M.d.	4,614	4,868	4,674	4, 467		· ·	3,600	3,900
Datemore, Mu	70,000	96, 200	80,300	89, 100	93,055	80,950	76, 681	76, 703
Charleston, S. C	11, 181 8, 664	7,627 7,966	6, 918 7, 643	7,155 9,452	5,500 7,468	6,009	5, 860 6, 966	4,860
Charlotte. N. C	8,511	9,907	10, 160	9,649	6,737	6,538 5,757	5, 959	6 969
Columbia, S. C. Cumberland, Md	5, 430 1, 541	7,357 1,877	6, 700 2, 086	5, 896 2, 285	5,574 1,845	5,757 1,680	4, 125 1, 712	5, 668 1, 622 1, 848
Danville, Va.	1,776	2, 194	1,976	1,933	2, 204	1,820	1, 925	1,848
Durham, N. C. Greensboro, N. C.	3,677 $4,623$	4, 487 5, 358	5, 063 5, 516	4, 514 5, 036	3,310	3,309	3,298	3,36
Greenville, S. C. Hagerstown, Md.	5,700	5,076	5,600	4,900	3,669	3,820	3,404	3,300 1,789
Huntington, W. Va.	1,906 6,830	2,077 6,246	2, 275 5, 905	2,483 6,496	1,730 4,461	1,955 4,437	1,697 4,224	4,44
Huntington, W. Va Lynchburg, Va. Newport News, Va	4, 179	6,246 4,765 1,738 18,478	4,811	4,566	4,059	4,423 1,486	4,307 1,726	4,063 1,496
Norfoik, Va	1,709 15,416	1, 438	1,654 16,695	1,924 17,101	1,651 14,170	13, 886	13,733	13.73
Raleigh, N. C.	6,300	[ 6,300	8 100	8,000	4, 100 29, 518	3,500 25,585	4,300 26,373	3,800 23,624
Roanoke, Va	26, 567 4, 490	30, 896 5, 945	4, 689	30,085 5,618	4, 858	4,348	4,119	4.45
Newport News, Va Norfolk, Va. Rateigh, N. C. Richmond, Va Roanoke, Va Spartanburg, S. C. Washington, D. C. Wilmington, N. C. Winston-Salem, N. C.	2, 132 36, 986	3,189	3, 256 43, 986	3,517 47,139	1,885 39,176	1,992	1,813 41,857	1,98 44,51
Wilmington, N. C.	36,986 4,907	46, 478 6, 575	43,980 5,058	5,009	4, 475	5, 112	4,838	4, 65
Winston-Salem, N. C.	6,956	7,639	7,662	9,697	5,372	4,697	4,946	6,4

### DATA FOR EACH CITY—Continued.

		199	23			19	22	
		Week ei	nding—			Week e	nding—	
	Feb. 28.	Mar. 7.	Mar. 14.	Mar. 21.	Mar. 1.	Mar. 8.	Mar. 15.	Mar. 22.
District No. 6—Atlanta:								
Albany, Ga	$\frac{1,058}{29,117}$	1,218 33,623	$1,700 \ 31,245$	1, 133 36, 791	775 26,007	917 25, 333	896 25, 264	827 24, 726
Augustá, Ga	8,024 25,528	10, 267	9,482	9, 121 22, 653	6,088	5,382	5,556	5,544
Brunswick, Ga	617	25, 336 682	23, 272 621	636	17, 156 512	18, 801 541	17, 147 469	16, 539 485
Chattanooga, Tenn	7,439 2,368	$8,634 \\ 3,253$	8,838 3,735	10,519 $2,981$	7,127 $2,249$	$7,181 \\ 2,349$	$7,321 \\ 2,251$	7, 133 2, 301
Columbus, Ga Cordele, Ga Dothan, Ala Elberton, Ga	346	471	365	291	230	257	224	268
Elberton, Ga	676 213	617 339	615   304	482 201	477 302	475 350	400 223	460 182
Elberton, Ga Jackson, Miss. Jacksonville, Fla Knoxville, Tenn Macon, Ga	3,779 11,478	3, 213 13, 448	3, 181 13, 056	3,497 14,663	2,524 10,724	2, 155	2,339	2,529 11,007
Knoxville, Tenn	6,747	8, 208	6,728	6.973	6,104	11, 233 5, 516	10, 970 5, 774	6,482
Macon, Ga Meridian, Miss	3,865 2,038	5,008 2,325	5, 201 2, 506	5, 270 2, 794	3,513 2,042	3,288 1,941	3, 400 · 1, 549	3,758 2,200
Mobile, Ala	2,038 7,274	8,020	6,452	6,463	5,957	6,673	6, 226	5,767
Nashville, Tenn	4,654 <sup>-</sup> 14,603	6, 263 17, 928	5,605 16,335	5,639 18,112	3,311 15,379	3, 832 16, 158	3,404 15,062	3,327 15,827
Meridian, Miss.  Mobile, Ala.  Montgomery, Ala.  Nashville, Tenn Newnan, Ga.  New Orleans, La Pensacola, Fla. Savannah, Ga. Tampa, Fla Valdosta, Ga. Vicksburg, Miss. District No. 7—Chicago: Adrian, Mich	72, 188	534 75,613	558 70, 192	618 69,343	338 67,606	301	231	320
Pensacola, Fla	1,300	2,082	1,512	1,537	1,358	60, 988 1, 444	55, 995 1, 617	59, 386 1, 144
Savannah, Ga	9, 891 6, 690	10, 969 8, 036	10,310   7,614	9,514 7,606	10,053 6,633	9, 079 5, 932	8, 950 5, 543	8, 684 5, 905
Valdosta, Ga	1,134	1,484	1,174	1,041	924	1,013	992	919
Vicksburg, Miss District No. 7—Chicago:	2, 184	1, 830	1,951	1, 659	1,575	1, 291	1,364	1,382
Adrian, Mich. Aurora, Ill. Bay City, Mich. Bloomington, Ill. Cedar Rapids, Iowa	621 3, 196	785 4,062	1,008	853 3, 261	759 3,026	709	751	679
Bay City, Mich.	1,987	2,333	3, 512 1, 905	2,078	2,767	$\frac{3,065}{2,235}$	$\frac{2,681}{2,061}$	2,768 2,360
Bloomington, Ill	3,357 5,380	5,601 8,144	3, 032 6, 845	3,003 5,810	3,018 8,854	4, 183 8, 730	2,684 5,649	2, 756
Chicago, Ill.	1, 010, 107	684, 597	635, 392	705, 385	709, 703	633, 101	668, 550	4,819 656,000
Chicago, Ill. Danville, Ill. Davenport, Iowa	3, 200 9, 435	$\frac{4,000}{11,695}$	4,500 6,600	4,700 6,692	3, 100 10, 662	2,500 8,261	3, 100 7, 184	3, 200
Decatur, III	3,364	4, 205	3,452	3,544	3,406	3,615	3,201	7, 559 3, 135
Des Moines, Iowa Detroit, Mich	15,063 151,492	26, 863 126, 013	22, 843 156, 451	18,920 184,448	15, 801 115, 737	22, 320 91, 365	17,627 118,838	16,055 138,602
Detroit, Mich. Dubuque, Iowa.	3,236 7,382	4, 190 7, 787	3,559	3,551	3,852	3,501	2,857	2,929
Flint, Mich Fort Wayne, Ind Gary, Ind Gary, Ind Grand Rapids, Mich Green Bay, Wis Hammond, Ind Indianapolis, Ind Jackson, Mich Kalamazoo, Mich Lansing, Mich Mason City, Iowa Alliwaukee, Wis Moline, Ill Muscatine, Iowa Oshkosh, Wis Peoria, Ill Rockford, Ill	8, 752	9,627	7,582 8,300	7,741 8,060	4,961 8,727	4,400 7,414	4,200 6,652	5,700 6,582
Gary, Ind	4, 223 13, 729	2,832 16,026	3, 961 13, 881	2,689 16,904	2,438 14,052	2,311	2,334	1,763
Green Bay, Wis	2, 283	2,702	2,258	2,47a	14,002	12,970	12,513	14, 358
Hammond, Ind	2,970 43,679	3,520 35,270	3,000 35,197	3,719 36,925	38, 184	29, 291	30, 583	20.407
Jackson, Mich	4, 244	3,600	3,600	5, 139	3,698	3,418	2,935	30, 427 3, 076
Lansing, Mich.	4,036 6,900	5, 312 8, 800	4, 266 8, 200	4,722 10,300	4,486 5,143	3,030 4,738	4,623 4,306	3, 814 5, 372
Mason City, Iowa	2,337 57,339	3,738 68,411	2,592 59,351	2, 396 63, 102	2,040 51,898	2,765	2,063	2,065
Moline, Ill.	1,677	2,232	1,739	1,786	1,936	54,818 1,676	60,873 1,873	62, 412 1, 835
Muscatine, lowa Oshkosh, Wis	1,083 2,300	2,234 2,600	2,021 2,500	1,714 2,700	1, 250 1, 800	2,073	1,479 2,400	1,395
Peoria, ill.	9,140	9, 983	9,315	8,814	8,422	2,300 9,249	8,026	2,500 7,640
Saginaw, Mich	4,308   5,216	6,671 4,524	6,418 5,349	6,345 5,243	3,938	4,626	4, 539	4, 454
Rockford, Ill Saginaw, Mich Sioux City, Iowa South Bend, Ind Springfield, Ill.	16, 562 7, 509	23, 407 7, 772	17,447 8,034	18, 960 7, 628	13,403 6,084	19, 240	17, 454	15, 837
Springfield, Ill.	6, 787	7,088	7, 232	5, 881	6,667	5,810 6,335	5,627 6,388	6, 275 5, 746
Terre Haute, Ind	6,377 3,490	5,751 6,286	6, 024 4, 498	5, 299 4, 204	3,232	4,073	3,806	3,674
District No. 8-St. Louis: East St. Louis and National Stock Yards, Ill.	1					· ·		•
Evansville, Ind	8, 565 10, 463	8,850 6,926	9, 288   7, 504	9,770 6,994	9, 705 6, 855	7,984 7,419	7, 945 6, 701	7, 754 5, 400
Fort Smith, Ark	2,703 1,154	6,926 2,799 1,150	7,504 2,706 815	2, 840 997				
Helena, Ark	1, 317	1,548	1, 174	1, 237	1,048 828	897 864	808 860	725 914
Little Rock, Ark	15,400 33,717	14,417	14,620 37,501	1, 237 14, 000 37, 483	9, 244 34, 485	9,857 29,428	9,467	9, 332 32, 727
Memphis, Tenn	31, 159	40, 474 37, 923 1, 942	33, 890	43,576	23, 683	23, 928 1, 541	32, 032 23, 891	22, 752
Quincy, Ill.	1,482 2,330	1,942 3,453	37, 591 33, 890 1, 702 2, 972	1,752 2,819	1,737 2,137	1,541 2,491	1,435 2,162	1,302 2,087
St. Louis, Mo	136, 726	148, 727	143, 181	160, 928	138, 242	117, 306	127,069	127, 529
Springueid, Mo	3,090	3, 385	3, 193	3, 267	2,981	3,091	2,889	2,714
Little Rock, Ark. Louisville, Ky. Memphis, Tenn Owensboro, Ky Quincy, Ill. St. Louis, Mo. Springfield, Mo. District No. 9—Minneapolis: A berdeen, S. Dak Billings, Mont Dickinson, N. Dak Duluth, Minn. Fargo, N. Dak Grand Forks, N. Dak Helena, Mont	1, 142	1, 187	1, 116	991	1,014	1,109	1,220	941
Dickinson, N. Dak	1,883 295	2,466 386	1,774 275	1,673 355	1,432 183	1,552 448	1, 364 235	1,429 208
Duluth, Minn	13, 417	13, 491	14, 317 3, 076	15, 529	10, 266	12 158	15, 871	13, 479 2, 343
Grand Forks, N. Dak	2,232 1,371	2,688 1,845	1,873 1,835 380	2,484 1,694	1,910 1,214	2,423 1,384 2,307	2,005 1,345 1,742	2,343 1,361
Helena, Mont Jamestown, N. Dak	2, 255 387	2,572	1 835	2,001	2, 251	2,302	1 749	1,728

#### DATA FOR EACH CITY-Continued.

		199	28			19	22	
		Week e	nding			Week ei	nding—	
	Feb. 28.	Mar. 7.	Mar. 14.	Mar. 21.	Mar. 1.	Mar. 8.	Mar. 15.	Mar. 22
strict No. 9-Minneapolis-Continued.								
La Crosse, Wis	2,692 875	2,848 1,175	2,875 1,450	2,657 849	664	943	561	
Lewistown, Mont Minneapolis, Minn	60, 283	70, 139	63, 962	73, 107	65, 761	72,986	70, 108	68,
	1,008	1, 121	1,063	403	827	900	´80 <b>3</b>	'0
Mind, N. Dak Red Wing, Minn St. Paul, Minn Sioux Falls, S. Dak Superior, Wis Winona, Minn strict No. 10—Kansas City: Atohison Kens	395	519	457	366	468	483 35, 165	431	20
Sioux Falls S Dak	$\begin{bmatrix} 34,922 \\ 3,477 \end{bmatrix}$	43, 342 4, 980	34,854 3,898	49,771 4,210	36, 136 3, 335	35, 105	36, 046 3, 210	36, 2,
Superior, Wis	1,682	1,776	1,808	1, 974	1,640	1,674	1,885	1.
Winona, Minn.	969	1,264	´966	1,052	788	987	855	1,
Atchison, Kans	1,348	1,351	1,328	1,456	1,290	1,402	1, 182	1.
Bartlesville, Okla	2, 994	3,796	2,924	2, 431	2,743	2, 552	2, 114	i.
Casper, Wyo. Cheyenne, Wyo. Colorado Springs, Colo.	3,540	3, 959	3,455	3,709	2,368	2, 552 2, 840	2,437	2,
Cheyenne, Wyo	4,113	1,996	1,475	1,826	3, 153	2, 198 2, 516	1,481	1,
Colorado Springs, Colo	2,603 36,900	2, 955 44, 438	2, 957 31, 506	3, 340 37, 888	2,511	2, 516 32, 080	2,519	2,
Denver, Colo. Enid, Okla	3,013	3, 261	2,871	3, 073	32,658	32,000	31,678	30
Fremont, Nebr	985	2,020	1, 102	865				
Grand Island, Nebr	1, 131	1,667	1,220	1,083	1,220	1,378	1,155	1
Grand Junction, Colo	563	745	709	696	660	628	677	
Guthrie, Okla	711 3, 175	908 3,213	821 2 836	872 2 364	534 3,405	566 2,807	533 2,337	2
Independence, Kans	2,237	2,967	2,836 2,742	2,364 2,733				2
Joplin, Mo	3, 458	3,410	4, 173	3,589	2,239 3,411 75,206	2,092 3,317	2,816 3,461	1
Kansas City, Kans	4,056	4, 110	3,890	4,157	3,411	3,317	3,461	. 3
Kansas City, Kans Kansas City, Mo. Lawrence, Kans. McAlester, Okla Muskogee, Okla Oklahoma City, Okla Oknulgee, Okla Omaha, Nebr. Parsons, Kans. Pittsburgh, Kans. Pueblo, Colo St. Joseph, Mo. Topeka, Kans Tulsa, Okla Wichita, Kans.	74, 855 1, 181	89, 415 1, 190	73, 427 935	81, 695 990	75, 206 1, 022	71, 251 1, 019	64, 001 925	65
McAlester Okla	1, 131	1, 190	790	1,104	1,022	933	1,000	1
Muskogee, Okla	5, 028	6,600	5, 490	6, 140	5,734	7,076	5,360	6
Oklahoma City, Okla	16, 118	22, 330	19, 460	20, 268	19,606	19, 055	17, 122	19
Okmulgee, Okla	2,315	2,384	2,284	2,452	1,863	2,003 47,576	1,834	1 1
Omana, Nebr	46, 153 808	57, 385 1, 164	50, 517 854	45, 942 1, 028	47, 951 807	1,017	43, 217 797	45
Pittsburgh Kans	1,677	1, 542	1,415	1,380	1,757	977	1,233	1
Pueblo, Colo	2,916	4,096	2 964	2,783	3,427	4,097	3, 912	4
St. Joseph, Mo	16, 796	17, 187	13,568	13,439	12,427 3,414	13,682	9, 531	11
Topeka, Kans	3, 835 26, 778	4,971	4, 092 26, 901	3,478	3,414	3, 513 18, 394	3, 113	,2
Wichita Kons	12, 290	23, 676 12, 244	9,474	24, 816 9, 901	23, 915 11, 340	9, 683	23, 196 8, 569	18
		12,211	ĺ	0,001	11,010	2,000		
Albuquerque, N. Mex	2,092	2,543	2,408 3,829	1,973	1,976	2,140 3,437	1,710 2,988 3,567	1 2
Austin, Tex	3,569	4,327 3,714	3,829	3,628	2,552	3,437	2,988	2
Beaumont, Tex	3, 150 1, 281	3,714 1,269	3,628 1,493	3,920 1,336	3,358 985	3,559	3,567 1,198	3
Dallas. Tex	41,485	43, 127	35, 891	39,379	34,674	1, 160 36, 263 7, 662	32,504	34
El Paso, Tex.	7,024	8,961	7,460	9,098	6,858	7,662	32,504 7,747	€
Fort Worth, Tex	26, 200	25,900	25,364	24,360	30,840	31,444	32,530	31
Galveston, Tex	17, 364 23, 851	20,057 25,062	17, 128 25, 842	18,265 28,608	9,736 24,900	15,141 21,845	13,090 22,700	15 25
Roswell N. Mey	422	634	859	656	704	636	524	20
San Antonio, Tex	5,573	7,406 9,201	7,401 8,035	7,656	5,830	6,226 6,792	6,538 7,468	\ e
Shreveport, La	8,000	9,201	8,035	8,574 3,827	5,830 7,742 1,790	6,792	7,468	9
Texarkana, Tex	2,157	1,553	2,285 1,760	3,827	1,790	1,369 1,619	1,569	1 1
strict No. 11—Dalias: Albuquerque, N. Mex Austin, Tex Beaumont, Tex Corsicana, Tex Dallas, Tex El Paso, Tex Fort Worth, Tex Galveston, Tex Houston, Tex Houston, Tex San Antonio, Tex San Antonio, Tex Sinreveport, La Texarrana, Tex Tucson, Ariz Waco, Tex strict No. 12—San Francisco: Bakersfield, Calif. Bellingham, Wash Berkeley, Calif Boise, Idaho Eugene, Oreg. Fresno, Calif Long Beach, Calif Los Angeles, Calif Oadland, Calif.	1,490 3,468	1,974 4,084	3,723	1,688 3,757	3,557	4,140	1,349 3,551	2
strict No. 12—San Francisco:	]	· ·		i '		!	•	
Bakersfield, Calif	2,812	3,621 1,805	2,660	2,720 2,320	1 000	4,523	3,967	{
Berkeley Calif	1,494 3,171	1,805 4,729	2,340 3,846	2,320	1,330 4,034	1,448 4,642	1,583 5,238	
Boise, Idaho	2,868	2, 592	2,775	3,933 3,119	2,512	2.684	1,739	.  .
Eugene, Oreg	1,860	2,592 2,176	2,249	2,381	1,332	2,684 1,557	1,589	:
Fresno, Calif	11,058	12,007	12,545	10,669	10,519	9,325	9,230	1
Long Beach, Calif	14, 147	15,907 197,626	14,290 158,927	13,515 166,513	7,160 124,409	8, 103 127, 770	6,836 117,783	110
Oakland, Calif	145, 527 33, 445	37,908	29, 164	27, 327	17,615	20, 192	17,719	19
Ogden, Utah	6,687	37,908 7,691	6,912 7,481	6,554 7,668	4,041	5, 168	4,208	
Oakland, Calif. Ogden, Utah. Pasadena, Calif. Phoenix, Ariz. Portland, Oreg.	6,822	11. 239	7,481	7,668	4,840	8,279	5,673	1 .
Phoenix, Ariz	3,921	4,479	4,463 33,093	4,908 33,962	3,540	3,535 32,707	3,412 33,711	3
Reno Nev	30, 242 1, 557	36,812 2,281	1,992	33,902	33, 237 1, 989	2,056	2 249	3
Ritzville, Wash	94	147	173	2,276 182	1 2005	147	2,242 225	1
Sacramento, Calif	9,631	8,269	9,314	9.461	13,906	11,630	17,087	1-
Salt Lake City, Utah	13,708	8,269 15,116 1,749	12,955	14,269 1,391 10,311	13,906 13,397 1,378 9,290	11,961	11,752	1
San Bernardino, Calif	1,455	1,749	1,633 11,755 172,261	1,391	1,378	1,651	1,434	
San Francisco Calif	10,752 170,627	247 109	179 981	200, 695	9, <b>29</b> 0 16 <b>7,8</b> 51	8,687 193,107	9,521 160,261	16
San Jose, Calif	5,095	12,988 247,192 5,632	4.877	4,962	2.850	4.598	4,214	1
Portland, Oreg. Reno, Nev. Ritzville, Wash. Sacramento, Calif. Salt Lake City, Utah. San Bernardino, Calif. San Bergo, Calif. San Francisco, Calif. San Jose, Calif. Seattle, Wash. Spokane, Wash. Spokane, Wash.	33, 144	38,703	4,877 40,135	46,453	2,850 35,581	4,598 29,718	160, 261 4, 214 38, 312	16
Spokane, Wash	9,003		11,075	12,465	9,816 4,876	12.088	10,785	1 1
Stockton, Calif.	4, 135	5,575	4,841 8,583	5,955	4,876 8,312 2,888	4, 831 7, 534	5,083	1 4
Tacoma, Wash Yakima, Wash	7,418	8,977	1 8,083	11,374	1 51512	1 7,034	9, 193	- 1

### FEDERAL RESERVE CLEARING SYSTEM.

#### OPERATIONS DURING FEBRUARY, 1923.

[Numbers in thousands. Amounts in thousands of dollars.]

	Item	s drawn or in own d			Item	s drawn		al items	war	ns for- ded to		ns for-	Tota	l itéms du	handled, plications	including	Num mer				nonme d of m	
Federal reserve bank or branch.	reser or	Federal ve bank branch city.	eral ba	ide Fed- reserve nk or ch city.	of T	reusurer Inited ates.	exc	ndled, lusive of lications.	reserv	Federal ve banks l their nches.	or to in	t banks branches same strict.	Nun	aber.	Amo	ount.	banl	ks at l of	On pa	ır list.	Not o	n par t.1
نــ	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount	1923	1922	1923	1922	1923	1922	1923	1922	1923	1922
Boston. New York Buffalo Philadelphia Cheveland Cincinnati Pittsburgh Richmond Baltimore Atlanta Birmingham Jacksonville Nashville New Orleans Chicago Detroit St. Louis. Little Rock Louisville Memphis Minneapolis Helena Kansas City Denver Oklahoma City Omaha Dallas Lios Angeles Portland Salt Lake City Seattle Spokane Total:	560 1, 917 1, 907 1, 907 1, 610 209 485 117 125 120 51 137 63 76 63 76 64 104 104 104 118 118 118 118 118 118 118 118 118 11	568, 031 3, 493, 412 100, 478 737, 790 253, 421 297, 894 484, 916 178, 401 178, 401 176, 371 42, 050 833, 621 366, 556 315, 761 41, 008 137, 956 36, 979 98, 652 12, 387 189, 206 39, 434 46, 347 50, 404 125, 344 9, 367 33, 167 343, 128 36, 129 37, 158 38, 167 343, 128 36, 129 36, 129 37, 158 36, 129 36, 129 37, 158 36, 129 36, 129 37, 158 36, 129 36, 129	472 1,342 316 444 186 1,374 105 1,241 553 1,231 119 334 630 1,535 344	63, 511 44, 390 16, 224 20, 734 19, 517 15, 356 303, 402 45, 901 79, 038 20, 199 25, 295 12, 637 63, 537 63, 537 63, 594 31, 996 162, 486 8, 709 27, 744 39, 158 109, 556 10, 787 20, 696	1311 928 122 146 777 63 39 444 488 377 133 359 366 106 322 111 33 37 7 7 69 244 17 14 9 9 9 9 9	14, 624 91, 751 2, 653 25, 330 10, 449 4, 628 5, 684 5, 684 1, 401 2, 045 5, 035 5, 035 54, 228 3, 663 3, 054 1, 233 1, 233 1, 233 1, 234 1, 482 1, 482 1, 482 1, 483 1, 4	1, 400 2, 979 976 522 262 274 289 230 5, 004 755 1, 829 390 580 21, 668 4, 491 1, 025 2, 765 1, 469 1, 469	4, 151, 188 150, 141 1, 011, 704 405, 045 2 393, 245 586, 879 560, 147 247, 762 149, 518 63, 343 93, 370 97, 933 62, 441 1, 191, 251 415, 310	128 426 58 14 83 170 129	46, 739 125, 965 21, 080 86, 123 4, 647 5, 324 32, 929 9, 009 13, 431 1, 527 11, 527 12, 308 5, 467 4, 738 852 13, 099 17, 215 6, 664 5, 135 8, 135 1, 513 2, 528 1, 513 2, 528 1, 513 2, 513 1, 513 2, 513 2	7 1 2 1 1 65	4,526 3,917 8,017 8,017 8,017 3,672 30,018 1,741 2,663 1,544 926 92 2222 2222 2222 80 838 8,138 11,344 18,387 3,803 4,325 1,108 1,10	748 3, 627 2, 038 1, 100 1, 512 2, 282 1, 174 580 309 328 300 281 5, 366 5, 366 1, 734 1, 139 1, 606 1, 093 1, 579 1, 579	7, 273 638 4, 034 4, 034 4, 1, 549 958 1, 275 75 1, 960 958 1, 275 75 26 1, 960 1, 627 75 1, 960 1, 637 1, 765 1, 962 1, 765 1, 962 1, 765 1, 962 1, 765 1, 963 1, 765 1, 963 1, 765 1, 963 3, 355 699 277 7, 3944 364 364 364 364 364 364 364 364 364 3	189, 425 1, 097, 919 414, 218 402, 486 622, 354 287, 638 162, 199 106, 191 75, 590 1, 226, 609 422, 321 408, 718 63, 757	136, 641 290, 621 308, 686 174, 209 291, 799 362, 824 196, 272 105, 692 60, 075 44, 638 43, 334 67, 347 795, 601 157, 495 246, 076 35, 935 72, 111 33, 855 159, 169 20, 394 311, 429 77, 044 105, 613 76, 724 224, 579 19, 678	7266 866 867715 3111 3216 2277 345 345 345 345 345 345 345 345 345 345		234 78 492 517 313 254 698 263 3, 989 258 1, 690 144 410 898 187 725 58 190 110 192 197 197 197 197 197 197 197 197 197 197	255 77 470 514 319 250 717 266 96 33 41 145 51 3,975 259 1,724 231 341 187 2,421 209	561 1456 1451 148 159 224 159 176 6 6 7 7 151 153	164 188 120 134 144 154 154 154 154 154 154 154 154 15
Total: February . January	9, 872 12, 006	9, 697, 881 11, 040, 202	32, 940 38, 740	3, 187, 011 3, 926, 212	2, 587 3, 309	335, 200 631, 043	45, 414 54, 072	13, 225, 867 15, 604, 462	3, 681 4, 356	624, 694 740, 333	703 852	160, 755 199, 534	49, 798 59, 280	43, 091 47, 879	14, 011, 316 16, 544, 329	10, 690, 431 11, 534, 523	9, 917 9, 911	9, 856 9, 852	17, 724 17, 777	18, 019 18, 071	2, 282 2, 289	2,318 2,321

Incorporated banks other than mutual savings banks.

Includes items drawn on banks in other Federal reserve districts forwarded direct to drawee banks as follows: Cincinnati, 9,000 items, \$1,494,006; Minneapolis, 5,000 items, \$3,958,000; Omaha, 1,000 items, \$323,000. Total, 15,000 items, \$5,775,000.

NOTE.—Number of business days in period for Boston, Richmond, Baltimore, Atlanta, Jacksonville, St. Louis, Little Rock, Kansas City, and Oklahoma City was 23. and for other Federal reserve bank and branch cities, 22 days.

### GOLD SETTLEMENT FUND.

#### INTERBANK TRANSACTIONS FROM FEBRUARY 23, 1923, TO MARCH 22, 1923, INCLUSIVE.

[In thousands of dollars.]

Federal reserve bank.	Tran	sfers.	Daily set	tlements.	Changes in o gold throu and settle	gh transfers	Balance in fund at close of
	Debits.	Credits.	Debits.	Credits.	Decrease.	Increase.	period.
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	5, 900 18, 000 15, 000 9, 000 11, 000	102,000	638, 848 2, 140, 874 646, 338 579, 093 487, 600 256, 781 1, 045, 548 516, 864 137, 044 353, 749 225, 175 296, 192		3, 970 9, 180 3, 142 22, 723 16, 293 2, 353 949 8, 275	97, 080	68, 990 21, 542 17, 273 73, 354 6, 718 21, 348 35, 502 10, 027
Total four weeks ending— Mar. 22, 1923 Feb. 21, 1923 Mar. 23, 1922 Feb. 23, 1922	108,000 17,100 113,500 93,000	108,000 17,100 113,500 93,000	7, 324, 106 6, 182, 140 5, 518, 607 4, 883, 964	5, 518, 607	111,567		513, 49

### MONEY IN CIRCULATION, MARCH 1, 1923.

[Source: United States Treasury Department circulation statement.]

	Stock of money	Money held by the U. S. Treas-	Money in circ	ulation.
	in the United States.	ury and the Federal reserve system.	Amount.	Per capita.
Gold coin and bullion Gold certificates. Standard silver dollars Silver certificates. Treasury notes of 1890. Subsidiary silver United States notes Federal reserve notes. Federal reserve bank notes. National-bank notes.	464, 464, 404 2(378, 117, 963) 2(1, 476, 483) 268, 891, 383 346, 681, 016 2, 647, 563, 480	404, 897, 765 60, 850, 445 1, 000	\$410, 958, 462 314, 593, 081 59, 566, 639 317, 267, 518 1, 475, 483 241, 086, 562 283, 491, 363 2, 226, 694, 428 29, 981, 087 725, 522, 045	\$3.71 2.84 .54 2.86 .01 2.17 2.56 20.10 .27 6.55
Total	8,489,635,419	3 4, 941, 147, 056	4,610,636,668	41.61
Comparative totals:     Feb. 1, 1923.     Mar. 1, 1922.     Apr. 1, 1917.     July 1, 1914.     Jan. 1, 1879.	8,076,223,365 5,312,109,272	3 4,998,202,265 3 4,653,072,774 3 3,896,318,653 3 1,843,452,323 3 212,420,402	4,509,127,518 4,401,984,542 4,100,590,704 3,402,015,427 816,266,721	40. 74 40. 31 39. 54 34. 35 16. 92

¹ Does not include gold bullion or foreign coin outside of vaults of the Treasury, Federal reserve banks, and Federal reserve agents.

² These amounts are not included in the total, since the money held in trust against gold and silver certificates and Treasury notes of 1890 is included under gold coin and bullion and standard silver dollars, respectively.

³ Includes gold held in trust against gold certificates and standard silver dollars held in trust against silver certificates and Treasury notes of 1890, the aggregate of which should be deducted from the sum of money held by the United States Treasury and the Federal reserve system and money in circulation to arrive at the stock of money in the United States. The amounts of such gold and silver held in trust as of the date of this statement are shown in parentheses in the first column.

## GOLD AND SILVER IMPORTS AND EXPORTS.

#### IMPORTS INTO AND EXPORTS FROM THE UNITED STATES, DISTRIBUTED BY COUNTRIES.

		Go	ld.			Silv	ær.	
Countries.	Febru	iary—	Eight mon Febru	ths ending	Febru	ary—	Eight mon Febru	
	1922	1923	1922	1923	1922	1923	1922	1923
IMPORTS.								
Denmark	\$5, 168, 676		\$8,596,207	\$1, 115, 469	***********		\$844	\$987
FranceGermany.	1, 425, 881	\$984,406	120, 628, 690 19, 920, 823	16, 784, 133 29, 707	\$7,890 64.501	\$1,765	121, 987 5, 688, 970	77, 559 55, 764
G. eece.	1,341		5,003	4, 798, 294	04, 591	••••••	5,000,910	21, 156
Netherlands			4. 186, 976	10, 044, 247			1,669	21, 10
Norway	3,307		4, 186, 976 666, 192	543, 592			7,767	11,73
Spain	10, 265	12,473	316, 389	48,655	24, 158	24, 512	49, 439	98,62
Sweden	8, 821, 246 8, 309, 644	15	36, 832, 591	1,326,938			1,354	1,18
United Kingdom—England Canada	8, 309, 644	1,047,114	118, 618, 289	107, 520, 188	43,680 271,527	31,723	124,005	185, 73 5, 804, 62
Central America	1, 648, 525 395, 917	4,643,823 170,199	15, 798, 321 4, 400, 691	25, 554, 634 2, 014, 359	58, 597	540, 462 79, 448	2, 640, 588 1, 088, 267	1,000,77
Mexico	313, 427	315, 438	3,574,698	3,601,575	3,675,598	2, 250, 072	30, 895, 033	29, 562, 76
West Indies	229, 084	17,406	2,843,199	479, 517	470	8, 111	440, 484	179, 86
Bolivia		800	7,682	4, 234	17, 194	17,058	316, 488	542, 93
Chile	2,611	4,436	376, 542	114, 288	12,831	147, 899	1, 152, 456	1,502,05
Colombia		394, 129	7, 408, 282	3, 946, 732	21, 199	10, 520	145, 765	135, 20
Peru	116, 373	123, 384	1,224,166	1, 142, 001	575, 252	587, 323	3, 878, 107	5, 472, 31
Uruguay Venezuela		33,843	3, 966, 970 643, 870	8,959 461,418	37	70	25, 347 1, 478	2, 16 1, 81
Venezuera	131, 893 342, 479	47,000	4, 236, 999	5, 895, 896	120	10	1,702	10, 92
British India	342,415	41,000	14, 863, 765	0,000,000	120		11,718	10, 02
Dutch East Indies		170,000	1, 124, 624	1,378,612		60,000	296, 997	538, 11
Philippine Islands	56, 264	111, 786	947, 624	704, 613	803	1,467	13, 483	9, 45
British Oceania	929, 628	78,699	12, 587, 932	1,076,376	146	´ 86	1,409	1, 18
Egypt	110, 295	26,635	7, 210, 097	3.271,242	· · · · · · · , · · · · ·		227	12,73
Egypt Portuguese Africa All other		55, 925	283, 735	608, 671	11 004	13,899	15, 978	154, 57
	\	145, 225	9, 345, 512	885, 639	11,864	17,972	152, 461	147, 46
Total	28, 738, 920	8, 382, 736	400, 615, 869	193, 359, 989	4, 785, 957	3, 792, 387	47, 074, 023	45, 531, 68
EXPORTS.								
Netherlands				19,000				1,64
Spain Sweden	217,000		450, 200 2, 721, 013	20,000			····	60
Switzerland		7 497	3, 123	1, 354, 866			• • • • • • • • • • • • • • • • • • • •	"
Switzerland United Kingdom—England Canada Central America Mexico West Indies		7 959	0,120	134, 256	1,921,715	220, 928	7, 869, 528	7, 174, 88
Canada	108, 502	113, 387	1,982,832	21,770,433	240, 976	101, 297	3,719,802	1, 241, 60
Central America				1			6,543	3,95
Mexico	462,680	546, 124	3,874,595 350	3,096,839	145, 573	135,084	1,197,023	1, 190, 81
West Indies			350	899	5,625	2,360	25,360	14, 10 10, 00
Colombia Venezuela				500,000	191,000 364,000		191,000 649,000	10,00
Venezueia China				350, 200	2, 248, 328	1, 134, 121	13,777,103	14 021 21
British India	824, 057		2,003,057	6, 493, 929	1,417,323	596, 720	2,974,422	14, 021, 31 9, 625, 27
British India Dutch East Indies	021,001		2,000,001	75,000				
French Indo-China		t	'		422, 400		3, 168, 000	<u>-</u>
HongkongAll other	119, 555	719, 200	8,680,680	2,778,360	134, 725		6, 461, 496	6,471,52 2,74
All other		4, 932	79,740	7,930		549	1,563,310	2,74
Total			19, 795, 590		7,091,665	2, 191, 059		39, 758, 47

## DISCOUNT RATES OF FEDERAL RESERVE BANKS IN EFFECT MARCH 31, 1923.

	Paper maturing—										
Federal reserve bank.		Within	90 days.		After 90 days, but within 6 months.	After 6, but within 9 months.					
	Commercial, agricultural, and live-stock paper, n. e. s.	Secured by United States Government obligations.	Bankers' acceptances.	Trade acceptances.	Agricultural 1 and live-stock paper.	Agricultural and live-stock paper.					
Boston New York. Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	41, 44, 44, 44, 44, 44, 44, 44, 44, 44,	45 45 45 45 45 45 45 45 45 45 45 45 45 4	45 45 45 45 45 45 45 45 45	45 45 45 45 45 45 45 45 45 45 45 45 45 4	41 42 43 43 44 44 44 45 45 45 45 41 41	4					

<sup>&</sup>lt;sup>1</sup> Including bankers' acceptances drawn for an agricultural purpose and secured by warehouse receipts, etc.

#### DISCOUNT AND INTEREST RATES.

In the following table are presented actual discount and interest rates prevailing during the 30-day period ending March 15, 1923, in the various cities in which the 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.

A comparison of the discount and interest rates for the various centers during the 30-day period ending March 15 with the 30-day period ending February 15 shows higher rates in most centers for nearly all paper, although in some centers rates for prime commercial paper remained unchanged and in a few they were reported lower. Rates for interbank loans remained generally unchanged, but in some centers they were higher. Collateral demand loan rates were reported higher. Compared with the corresponding period ending March 15, 1922, all rates were reported lower.

#### DISCOUNT AND INTEREST RATES PREVAILING IN VARIOUS CENTERS DURING THE 30-DAY PERIOD ENDING MARCH 15, 1923.

			Prime comm	iercial paper.				cceptances, 0 days.	Collateral	loans—stock	exchange.			Ordinary
District.	City.	Custo	mers'.	Open r	narket.	Interbank loans.		Unin-	Demand.		3 to 6	Cattle loans.	Secured by warehouse receipts.	loans to customers secured by Liberty
		30 to 90 days.	4 to 6 months.	30 to 90	4 to 6	<u> </u>	Indorsed.	Indorsed. dorsed.		3 months.	months.	:		bonds.
No. 1 No. 2 No. 3 No. 4 No. 6 No. 6 No. 7 No. 8 No. 10 No. 11 No. 12	Buffalo Philadelphia Cleveland Pittsburgh Cincinnati Richmond Baltimore Atlanta Birmingham Jacksonville New Orleans Nashville Chicago Detroit St. Louis Louisville Memphis Little Rock Minneapolis Little Rock Minneapolis Helena Kansas City Omaha Denver Oklahoma City Dallas	$\begin{array}{c} C. \\ 5\frac{14}{2} - 5 \\ 5\frac{14}{2} - 5 \\ 6\frac{14}{2} - 5 \\ 6\frac{14}{2} - 5 \\ 6\frac{14}{2} - 5 \\ 6\frac{14}{2} - 6 \\ 6\frac$	C. 5\\\\ 5\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	H. L. 44 5 42 5 42 5 42 5 5 42 5 5 5 5 6 5 5 5 5 4 42 5 5 44 5 5 44 5 5 44 5 5 44 5 5 44 5 5 44 6 5 5 5 6 6 5 5 6 6 7 4 4 4 4 4 4 5 6 6 5 5 6 4 4 4 4 4 5 6 6 5 5 6 4 4 4 4 5 6 6 5 5 6 4 4 4 5 6 6 5 5 6 4 4 4 4 5 6 6 5 6 6 5 6 6 6 5 6 7 6 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	C. 44 44 55 54 44 55 55 56 57 57 56 57 57 57 57 57 57 57 57 57 57	$\begin{array}{c} \textbf{H.} & \textbf{L.} & \textbf{5.1} \\ \textbf{5.1} & \textbf{5.2.} \\ \textbf{5.2.} & \textbf{5.3.} \\ \textbf{5.3.} & \textbf{5.5.} & \textbf{5.5.} \\ \textbf{5.6.} & \textbf{5.6.} & \textbf{6.6.} \\ \textbf{5.7.} & \textbf{5.6.} & \textbf{5.6.} \\ \textbf{5.7.} & \textbf{5.6.} & \textbf{6.6.} \\ \textbf{5.7.} & \textbf{5.6.} & \textbf{5.6.} \\ \textbf{5.7.} & \textbf{5.6.} & 5.6$		H. L. C. 4½ 4 4½ 4½ 4 4½ 55 4½ 6 4 4½ 4½ 55 4½ 6 6 6 6 6 6 4½ 4 4 5½ 5½ 5½ 6 4½ 4 4 4 5½ 5½ 5½ 6 4½ 4 4 4	## C.	H. L. C. C. C. 6. 5. 5. 5. 5. 5. 6. 6. 5. 5. 5. 6. 6. 5. 5. 5. 5. 6. 6. 5. 5. 5. 5. 6. 6. 5. 5. 5. 5. 6. 6. 5. 5. 5. 5. 6. 6. 7. 7. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	H. L. 54 54 55 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	H. L. C.  6 5 5-6  7 5 5½-6  6 6 6 6  8 7 7 6 6-6½  8 7 8 6 6-6½  8 7 7 8 7 7  10 8 8 8  7 6 7  6 6 6 6  8 7 7 7  8 7 7 7	6 5 5	H. L. 51 44 65 5 66 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 6 6 5 5 6 6 6 6 6 5 5 5 6 5 5 6

<sup>&</sup>lt;sup>1</sup> Rates for demand paper secured by prime bankers' acceptances—high, 5; low, 4; customary, 4-5.

### FOREIGN EXCHANGE RATES.

[General index for March, 1923 (preliminary), 67; for February, 1923, 67; for March, 1922, 70. Noon buying rates for cable transfers in New York as published by Treasury. In cents per unit of foreign currency.]

#### COUNTRIES INCLUDED IN COMPUTATION OF INDEX.

		Par of exchange.	Low.		Hi	gh.	Ave	rage.	Index (per cent of par).1	
			March.	February.	March.	February.	March.	February.	March.	February.
Belgium	Franc	19.30	5. 2100	5. 1100	5. 9400	5. 6600	5, 4800	5, 3955	28, 39	27. 91
Denmark	Krone		19.0800	18.6400	19. 3100	19.5200	19. 1970	19.0905	71.67	71.23
France		19.30	6.0300	5.9200	6.7400	6.4500	6.3237	6.1459	32.77	31.84
Great Britain	Pound	486.65	467.6900	466.4600	470.8300	472. 1900	469. 5693	469.0809	96.49	96.39
Italy	Lira	19.30	4.7600	4.7300	5.,0200	4.8900	4.8550	4.8177	25. 16	24.96
Netherlands	Florin		39. 3600	39.1900	39, 5900	39.6900	39. 4893	39. 5273	98, 23	98.33
Norway	Krone	26.80	18.0600	18.4000	18, 4100	18.6600	18. 1578	18.5518	67. 75	69. 22
Spain	Peseta		15. 3600	15.5900	15, 6100	15. 8100	15. 4652	15.6577	80. 13	81.13
Sweden	Krona		26, 5600	26. 5200	26. 6300	26.7600	26, 6000	26. 5959	99, 25	99. 2
Switzerland	Franc	19.30	18. 4400	18.7200	18.7600	18.9100	18. 5896	18.7977	96.32	97.40
Canada	Dollar	100.00	97. 4328	98. 1094	98. 4813	98. 9201	98.0570	98. 6724	98.06	98. 67
Argentina	Peso (gold)	96.48	83, 8600	83.8200	84, 7000	84.8600	84. 1452	84, 2164	87, 22	87. 29
Brazil	Milreis	32.44	10, 7900	11.2000	11. 3700	11. 5900	11.0874	11. 4282	34. 18	35. 23
Chile	Peso (paper)	2 19. 53	12. 2200	11.7300	12. 9800	12. 2800	12.6725	11.9941	64. 89	61.41
China	Shanghai tael	2 66. 85	73, 9800	71. 2100	76. 5400	74.0400	75. 5300	71.8191	112, 98	107.43
India	Rupee	48.66	31. 3500	31. 5700	31. 8200	32.0800	31. 5659	31. 8495	64. 87	65. 4
Japan	Yen	49.85	48. 3000	48.3600	48. 6100	48. 5100	48. 4559	48. 4359	97. 20	97. 10

#### OTHER COUNTRIES.

Austria	Krone	20. 26	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.01	0.01
Bulgaria	Lev	19.30	. 6100	. 6000	. 8086	. 6900	. 6543	. 6372	3. 39	3.30
Czechoslovakia Finland	Crown		2. 9648 2. 7111	2. 8720 2. 4906	2.9795 $2.7933$	2. 9780 2. 7328	2, 9693 2, 7553	2.9580 2.6226	14. 28	13.59
Germany	Reichsmark	23.82	.0044	. 0024	.0048	. 0052	. 0047	.0038	. 02	. 02
Greece	Drachma		1.0522	1.0811	1. 1711	1. 2194	1.0962	1.1739	5. 68	6.08
Hungary Poland	Krone Polish mark	20. 26	.0203	. 0343	. 0346	. 0395 . 0029	. 0289	.0381	. 14	. 19
Portugal	Escudo		4. 1600	4. 2400	4. 8900	4.5000	4. 3430	4.3582	4.02	4.03
Rumania	Leu	19.30	. 4728	. 4208	. 4919	. 5164	. 4842	. 4769	2. 51	2.47
Yugoslavia	Dinar	19.30	1.0025	. 8875	1. 1288	1.0040	1.0417	. 9681	5. 40	5.02
Cuba		100.00	99, 9500	99. 9250	100.0156	100.0125	99. 9858	99.9554	99. 99	99.96
Mexico	do	49.85	48, 5833	48. 8958	49.0781	49. 1875	48.8605	49.0234	98. 02	98.34
Uruguay	do	103.42	84. 1400	82. 5300	85. 1200	84.7000	84. 5496	83. 1582	81.75	80.41
China	Mexican dollar	<sup>2</sup> 48, 11	53, 3100	51, 5200	55, 4400	53, 7500	54, 5333	52, 0505	113, 35	108, 19
Hongkong		<sup>2</sup> 47. 77	54.0000	52. 5200	56. 3000	54. 0200	55. 3804	52. 9691	115. 93	110.88
Straits Settlements	Singapore dollar	56.78	54. 6700	54.5800	55. 0800	55.0000	54. 8133	54. 8532	96. 54	96.61
		1	I . I	-		1		ļ	I	l

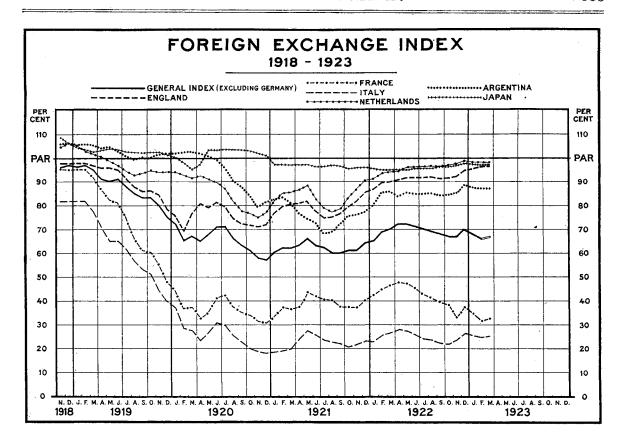
<sup>&</sup>lt;sup>1</sup>Based on average.

#### SILVER.

#### [Average price per fine ounce.]

	March.	February.
London (converted at average rate of exchange). New York.		\$0.65221 .64716

<sup>&</sup>lt;sup>2</sup> 1913 average.



## FINANCIAL STATISTICS FOR PRINCIPAL FOREIGN COUNTRIES.

A summary of banking and financial conditions abroad is presented statistically in the accompanying tables. ENGLAND.

[Amounts in millions of pounds sterling.]

		nk of l	unts Englan		Nir	e Lond ban	on clea ks.*	aring	ng house		vernm iting d		Disc	ount ra	ates.	Kingdom.	ss prices.	f foreign E.6
	Gold and silver, coin and bullion.	Bank notes in circula- tion.3	Currency notes and certificates outstanding.	Total deposits.	Money at call and short notice.	Discounts and advances.	Investments.	Total deposits.	London bankers' clearing returns—total clearings	Treasury bills.	Temporary advances.	Total floating debt.	Three months, Treasury bills.	Three months' bank bills.	Six months' trade bills.	Capital issues in United K	Index numbers of securities prices.	Statist index number of exchange value of £
Average of end of month figures: 1913	38 146 157 156	29 103 108 103	348 327 296	57 147 136 130	97 107	1,176 1,068	309 372	1,768 1,727	1,370 3,252 2,911 3,097	1,078 1,139 796	219 183 165	1,297 1,322 961	Per cent. 61 418 21	Per cent. 411 675 525 22	Per cent. 431 756 618 333	21 40 33 49	99. 2 111. 7	99. 6 110. 1 120. 6
1922, end of— March April May June. July August September. October November. December	157 157 157 157 154 154 154 154 154 154	103 102 103 103 104 103 101 101 102 104	300 303 298 295 296 293 289 287 288 301	151 134 130 131 122 124 121 125 121 133	103 107 109 113 110 105 104 105 98 106	1,097 1,065 1,061 1,070 1,056 1,020 1,007 1,033 1,031 1,030	369 378 392 388 386 390 381 370 365 360	1,747 1,737 1,745 1,755 1,730 1,688 1,660 1,686 1,667 1,684	3,452 3,305 3,307 2,917 3,236 2,885 2,690 3,124 2,989 2,769	882 758 771 760 755 715 724 740 732 719	148 193 172 205 159 153 148 179 179 222	1,030 951 943 965 914 868 872 919 911 941	278 288 288 1 1 1 1 8 2	3 252 212 212 213 212 213 213 213 213 213 21	44450000000000000000000000000000000000	40 100 52 29 43 21 7 31 19	107.3 113.4 112.8 114.4 114.7 114.0 115.1 114.1	118.3 118.0 118.2 118.2 120.3 121.3 122.7 123.0 124.6 125.8
1923, end of— January February	154 155	101 102	280 279	121 131	108 103	1,046 1,023	357 349	1,692 1,644	3,262 3,006	715 698	206 154	922 852	2 2	21 23 28	3 <del>1</del> 3 <del>1</del>	34 19	114. 2 115. 3	123.4 126.0

Held by the Bank of England and by the Treasury as note reserve.
 Less notes in currency notes account.
 Average weekly figures.

[Amounts in millions of francs.]

Statist.
Bankers Magazine.
Excluding Germany.

		Bar	ak of France	e.		Bons	Price of	Average	Savings banks,	Dona rodaco.	
	Gold reserve.1	Silver reserve.	War advances to the Govern- ment.	Note circu- lation.	Total deposits.	de la Défense Nation- ale.	3 per cent per- petual rente.	daily clearings of the Paris banks.	excess of deposits (+) or with-drawals (-).	Value.	Average rate of return.
verage of end of month											
figures: 1913	3,343	629	1	5,565	830		86. 77	59	-65		
1920	3,586	253	26,000	38,066	3.527		57.34	554	+48	702	
1921	3,568	274	25,300	37,404	2.927		56.56	550	+67	1,100	6.7
1922.	3,597	285	23,042	36,177	2,307		58.48	525	+53	574	6.4
22, end of—	1		, ,,,,	,	!						
February	3,577	281	22,500	36,151	2,429		59.55	489	+100	344	6.6
March	3,578	282	21,500	35,528	2,236	60,839	56.70	455	+49	377	6.
April	3,579	283	22,100	35.787	2,412 2,303	61,528	57.60	411	+58	459	6.
May	3,579	284	23,100	35.982	2,303	62,890	57.70	454	+55	644	6.
June	3,580	285	23,300	36,039 36,050	2,448 2,432	63,809	57.95	474	+53	947	6.
July	3,582	285	23,000	36,050	2,432	62,525	58. 25	562	+62	485	6.
August	3,583	286	23,900	36, 385	2,170	62,936	60.10	512	+66	151	6
September	3,584	287	24,000	36,603	2,199 2,170	63,404	61.10	484	+58	636	6.
August September October	3,635	288	23,600	36,694	2,170		58, 25	556	+17	421	6.
November	3,636	289	22,900	36, 114	2,184		59.00	783	+43	179	6.
December	3,670	289	23,600	36,359	2,309		59.02	630	+33	1,453	6.
23, end of—			00 100	00 700	0.000		<b>70.00</b>			!	!
January	3,671	290		36,780	2,208		58, 80	726			
February	3,671	291	23,200	37,055	2,279		<b>5</b> 8. <b>6</b> 5	792	+85		
March	3,672	292	23,100	37,188	2,066						

<sup>1</sup> Not including gold held abroad.

FRANCE.

ITALY. [Amounts in millions of lire.]

			Banks	of issue.				Leading	g private	banks.			
	Res	erve.		N circul	ote ation.			Loans and dis-	Due			Short- term	Index num-
	Gold.	Total.	Loans and dis- counts.	For account of commerce.	For account of the State.	Total de- posits.	Cash.	counts includ- ing treas- ury bills.	from corre- spond- ents.	Par- ticipa- tions.	Total de- posits.	treas- ury bills.	bers of security prices.
Average of end of month figures:												<del></del>	
1913 2	1,375 1.043	1,661 2,088	857 6,335	2, 284 7, 035	10,581	318 2,474	129 1,308	1,093 10,594	914 5, 945	55 446	1,674 15,810	13 200	
1921	1,074	2,020	7,586	9,304	9,064	2,475	1,200	10, 677	5, 575	465	16,001	10,200	87. 1
1922 921, end of—	1,120	1,998	9,466	9,734	8,214	2,759		• • • • • • • • • • • • • • • • • • • •		·			
November	1,089	1.948	7,888	9, 435	8,485	2,388	1,174	8,862	3.981	293	12,778	l.	83. 9
December	1,092	1,999	10,088	10, 304	8,505	3, 108	1,997	8,012	3,981 3,785	316	12,502	21,926	80.1
922, end of—		1 000	10.00	10 100	0 770	2 000	1 400	7 700	0.550	į			00.0
January February March	1,109 1,100	1,996 1,971	10, 225	10, 183 9, 631	8,570 8,626	3,082 2,794	1,426 1,081	7,782 8,169	3,552 3,275	317 315	11,616		96. 6 94. 1
March	1,118	1,956	9,899	9,589	8, 523	2,890	965	8, 250	3, 157	316	11,403	24, 442	88. 8
April	1.122	1,964	10, 181	9,360	8,350	2,663	908	8,572	3, 180	317	11,708		88. 4
May June	1, 104 1, 106	1,963 1,976	9,391 9,573	9,259 9,615	8,061 8,049	2,751 2,935	841 845	8,500 8,800	3, 232 3, 180	316 318	11,698 11,863	23,862	93. 1 94. 8
Inly	1 125	1,991	9,513	9,013	8,050	2,681	861	8,846	3, 272	337	11,896	23, 802	95.
August	1,125	2,024	9, 142	9,695	8,050	2,779	763		3, 286	337	11,883		103.
August September October	1, 125	2,024	8,858	9,924	8,066	2,661	769	8,706	3,460	337	11,897	25, 574	105.
November	1, 136 1, 141	2,039 2,034	9,082 8,680	9,782 9,892	8,075 8,074	2,638 2,634	781 781	8,659 8,797	3,568 3,554	339 336	11,960 12,045		109. 111.
December	1, 126	2,034	9,345	9,092	8,076	2,602	101	0, 191	0,004	990	12,040	•••••	112.

Includes Banca Commerciale Italiana, Credito Italiano, Banco di Roma, and until November, 1921, Banca Italiana di Sconto.
 Figures for 1921 based on quotations of Dec. 31, 1920=100; those for 1922 on quotations of Dec. 31, 1921=100.
 End of December figures.

#### GERMANY.

#### [Amounts in millions of marks.]

			Reich	sbank.			Darlehns-		Value of new stock and	Index of pri	security ces.
	Gold	Note cir-	Total	Disco	ounts.	Total	scheine in circu-	Treasury bills out- standing.	bond issues placed	25	10 do-
		culation.	deposits.	Treasury, bills.	Commercial bills.	clear- ings.	lation.		on Ger- man market.	stocks.	mestic bonds.
verage of end of month						7		. '		D	
figures:	1,068	1,958	668	,		6,136		1 220		Per cent.	Per cent
1913 1920		53,964	17,702	47	980	57, 898	13, 145			. <b></b>	
1920	1,056	80,952	20, 213	83,	133	89, 297	8,861	192,832	2,655		
1922	1,002	339, 677	108,633	338, 147	72,211	530,647	11,217	475, 835			
to been 000		1	,	1	i		1				Į
February	996	120,026	26,526	134, 252	1,857	109, 816 170, 357	7,977	262,817	2,101	<u>.</u> <sup>.</sup>	
March	997	130,671	33,358 31,616	146,531	2,152	170,357	8,701	271,935	6,416	••••••	
April	1,001	140,420	31,616	155,618	2,403 3,377 4,752 8,122	175,977 179,370	9,183	280, 935 289, 246	3,992 4,152	121	1
May	1,003	151,949	33,128 37,174	167,794 186,126	3,377	191,414	9,440 10,374	311,600	2,762	• • • • • • • • • •	
June	1,004	169, 212 189, 795	39,976	207, 858	9,104	243, 493	12, 234	307, 810	2,330	85	ii
July August	1,005 1,005	238, 147	56,124	249,766	21,704	374, 856	13,383	331,000	2,468	00	•
August	1,005	316, 870	110 012	349,770	50, 234	473,715	13,995	451,000	7,937		•••••
September	1,005	469, 457	110,012 140,779	477, 201	101,155	789,341	14,009	614,000	7, 187	169	1
November	1,005	754,086	240, 969	672, 222	246, 949	1,463,766	13, 809	839,000	15, 223		l
December	1,007	1, 280, 095	530, 526	1, 184, 464		2,078,969	13,450	1,495,000		1,334	3
923, end of—			•	, ,	1	1 '	,	l''	!	•	i -
January	1.005	1,984,496	762, 264	1,609,081 2,947,364 4,552,012	697, 216	3,826 206	13,395	2,082,000		1,378	1
February	1,005	3,512,788	1.582,981	2,947,364	1,829,341		12,625	3,588,000		4,668	
March	1,005	5.517.920	2, 272, 084	4,552,012	2,372,102	1	12,600	1		3,664	[ ,

<sup>&</sup>lt;sup>1</sup> End of March, 1913. <sup>2</sup> Recalculated by the Frankfurter Zeitung, using as base (100) prices for January, 1922, instead of for January, 1921, and eliminating the five bonds in foreign currencies. Figures are as of beginning of month.

#### SWEDEN.

### [Amounts in millions of kronor.]

		Riksl	oank.		Joint-sto	ek banks.	Value of	T 4	Index
	Gold coin and bullion.	Note cir- culation.	Total deposits.	Clearings.	Loans and discounts.	Bills dis- counted with Riksbank.	stock issues registered during month.	Index number of stock prices.	number of foreign exchange value of krona.
Averages of end of month figures:					:				
1913 1	102	235	108	585	2,287	139	24	258	
1920.		733	226	3,596	6,008	476	61	176	112.9
1921	280	661	193	3,596 2,715	5,948	389	31	121	121.8
1922	274	579	269	2,109	5,317	340	29	103	128. 4
1922, end of—		0.0		-,	0,011	0.0		200	120.1
February	274	579	346	2,122	5,572	429	18	94	129, 2
March	274	626	312	2,354	5,474	447	23	89	128.3
April	274	582	301	1,936	5,430	404	15	100	126.6
May	274	567	293	2,162	5,378	380	50	115	124.8
June	274	585	247	2,118	5,388	320	63	113	125, 6
July	274	551	243	2,015	5,268	307	35	113	127.0
August	274	559	213	1,803	5,221	293	22	110	128.8
September	274	605	180	1,902	5, 181	288	$\overline{14}$	103	130.5
October	274	569	178	1,995	5,149	206	15	98	131.7
November		575	191	1,979	5,099	252	59	90	132, 2
December	274	584	389	2,588	4,984	331	12	96	129.9
1923, end of-				1 -,000	-,001			•	120.0
January	274	520	321	1	4,888	214		93	129.9
February	274	538	270	1	4,903	175	· · · · · · · · · · · · · · · · · · ·		200.0

 $<sup>^{\</sup>mbox{\tiny 1}}$  End of December figures.

#### CANADA.

### [Amounts in millions of dollars.]

			Charter	ed banks.			Gold		
	Gold coin and bullion.1	Current loans and discounts.	Money at call and short notice.	Public and railway securities	Note circulation.	Individual deposits— demand and time.	reserve	Dominion note cir- culation.	Bank clearings.*
Average of end of month figures:								·	
1921	72	1,403	282	369	195	2,125	85	272	1,454
1922	75	1,272	280	332	166	2,125	90	240	
1922, end of—	10	1,212	200	. 004	100	2,009	90	240	1,353
January	70	1,287	261	361	163	1,925	81	255	1.349
February	70	1,299	273	352	164	1,925	81	235	1.149
March	70	1,301	267	354	163	1,981	81	247	
April	70	1,314	278	343	165	2,000	81	241	1.346
	70	1,285	288	313	156	2,059	83		1.193
May June	70	1,266	274	319	166	2,009		222	1.497
	70	1,248	272	323		2,053	85	233	1.323
July August	70		277		152	2,016	87	231	1.278
Contembou	71	1,248		331	158	1,979	89	229	1.172
SeptemberOctober	87	1,250	279	322	177	1,985	91	235	1.253
		1,276	301	310	179	2,020	93	240	1.497
November	92	1,255	303	317	170	2,036	96	251	1,619
December	93	1,230	284	341	176	2,061	129	257	1.555
1923, end of—				1		1		t .	•
January	91	1,197	281	356	153	1,963	132	241	1,507

<sup>&</sup>lt;sup>1</sup>Includes gold in central gold reserve but not gold held abroad.

<sup>2</sup> Total for month.

#### ARGENTINA.

#### [Amounts in millions of pesos.]

	_	Banco de	la Nación.			Commerc	ial banks.1		Caja de C	onversión.	1
1	Cas	sh.	Dis- counts and	Total deposits	Cas	Cash.		Total deposits	Gold	Note cir- culation	Clearings in Buenos Aires
	Gold.	Paper.	advances (paper).	(paper).	Gold.	Paper.	and advances (paper).	(paper).	reserve.	(paper).	(paper)
nd of—			~						The second second	:	
1913	32	180	478	541	62	435	1.541	1,464	263	823	1,4
1919	39	268	676	1, 250	66	771	1,541 2,113	3,010	2 399	1, 177	2,8 3,6
1920	25	406	804	1,412	46	1,081	2,505	3,530	470	1,363	3'6
1921	23	410	866	1,310	36	1,087	2,543	3,375	470	1,363	3,
21, end of-	1	220	1	2,020	"	1,000	2,010	0,0.0	1.0	2,000	<b>,</b> , ,
December	23	410	866	1,310	36	1,087	2,543	3,375	470	1,363	3, 4
22, end of—	20	310	300	1,010	30	1,007	2,020	5,515	310	1,300	2, ع
January	23	*419	887	1,310	. 36	1,064	2,529	3,362	470	1,363	3,0
Pohruory	23	383	913	1,310	36	994	2, 565	3,362	470	1,363	3,
February	23	383	884	1,310	36		$\frac{2,505}{2,512}$	0,004	470	1,303	2,
March			884			981	2,512	3,313		1,363	3,
April	23	393	887	1,283	30	, 999	2,489	3,304	470	1,363	
Мау	23	386	906	1,294	35	1,016	2, 461	3,278	470	1,363	3,
June	23	395	933	1,329	35	1,060	2,461	3,326	470	1,363	2,
July	23	399	920	1,322	36 35 35 35 35	1,013	2,473	3,308	470	1,363	2,
August	23	407	. 946	1,353	35	1,041	2,491	3,356	470	1,363	2,
September	23	402	950	1,346	35	1,048	2,514	3,379	470	1,363	2, 2, 2, 2,
October	23	405	921	1,328	35	1,028	2,549	3,354	470	1,363	2.
November	23	396	934	1,345	35	1,053	2,557	3,394	470	1,363	2, 2,
December.	23	340	1,036	1,389	35	1,025	2,664	3,456	470	1,363	2,
23, end of—	20	010	1,000	2,000	00	2,020	2,002	0, 400	410	1,000	Δ,
January	23	359	992	1,369					470	1,363	1

#### JAPAN.

#### [Amounts in millions of yen.]

Specie   Te-serve for notes.1   Loans and dis-counts.	Ad- vances on	Japan.	Gov-			To	kyo bani	ks.			
A verage of end of month figures:  1913  1921  1, 200  107	vances	Note	Gov-								
1913. 216 47 1921. 1,200 107	foreign bills.	cir- cula- tion.	ment depos- its in Japan.	Private deposits in Japan.	Cash on hand.	Total loans.	Total depos- its.	Total clear- ings.	Average discount rate.	Capital issues in Japan.	Index of se- curity prices.3
1922.     1,172     208       1922.end of—     1,223     172       February     1,289     248       April     1,263     267       May     1,203     178       June     1,223     179       July     1,220     133       August     1,132     241       September     1,069     134       October     1,068     160       November     1,066     183       December     1,064     375       1923.end of—     1       January     1,062     180       February     1,060     157       March     1,037     241	33 39 94 26 58 61 50 98 82 90 115 142 205	363 1, 226 1, 291 1, 246 1, 229 1, 226 1, 203 1, 344 1, 280 1, 237 1, 241 1, 590 1, 308 1, 261 1, 238	297 409 328 422 520 469 377 427 488 382 437 445 333 380 386 463	7 50 36 27 29 30 33 43 35 30 29 33 40 66	129 113 141 130 120 122 127 115 145 126 126 169 113	333 1,932 1,961 1,950 1,963 1,973 1,973 1,973 1,928 1,921 1,928 1,922 2,011 2,002 2,051	1,789 1,751 1,749 1,761 1,748 1,708 1,802 1,882 1,822 1,812 1,828 1,860	364 2, 572 2, 834 2, 438 3, 099 3, 143 3, 178 2, 766 2, 782 2, 782 2, 697 2, 971 3, 322 2, 592 2, 697 2, 971 3, 2246 2, 592	8. 38 9. 00 9. 31 9. 02 9. 09 9. 34 9. 42 9. 45 9. 38 9. 38 9. 38 9. 38 9. 34	32 186 200 163 217 110 121 101 93 150 98	194  188 182 160 168 170 165 165 165 160 160

<sup>&</sup>lt;sup>1</sup> Includes gold credits abroad, gold coin and bullion in Japan.

Includes Banco de la Nación.
 Figures for 1919 include 79,000,000 pesos, and for succeeding years 4,000,000 pesos, held in foreign legations.

<sup>&</sup>lt;sup>a</sup> Tokyo market.

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