FEDERAL RESERVE BULLETIN

(FINAL EDITION)

ISSUED BY THE FEDERAL RESERVE BOARD AT WASHINGTON

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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 he 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.

Credit developments during the past month have further emphasized the fact that current

business expansion is being ex-Business financed independently of repansion and the reserve banks. serve bank credit. In these circumstances, the weekly statement of the reserve banks is not indicative of changes in credit conditions. Changes in reserves, in earning assets, and in Federal reserve note circulation have been relatively slight since last summer and have not reflected the considerable growth in bank credit. The reserve ratio, as was pointed out last month in a discussion of the effect of gold imports on our credit situation, has at present little value as an indicator of credit movements. It was these gold imports that enabled member banks to meet the increased credit and currency demands of their customers without obtaining a corresponding amount of accommodation at the reserve banks. Thus, under immediately prevailing conditions, it is the changes in member bank loans and investments rather than any item in the reserve bank statement that roughly measure the rate of increase in the use of bank credit. This rate of growth for bank credit, compared with the rate of expansion for production and trade, affords, in the absence of such a test as the reserve ratio which is dependent upon free gold movement, an important indicator of changes in credit conditions. The fact that the recent growth of credit has been accompanied by alfurther increase in the physical volume of production is favorable evidence of the economic effectiveness of the credit in use.

Comparative stability in the volume of reserve bank credit while member bank credit increased has characterized credit develop-

ments during the past 15 months. Since the middle of 1922, when renewed demand for credit was first reflected in larger commercial loans, total loans and investments of member banks in leading * cities * have increased by \$1,300,000,000, while earning assets of the reserve banks have increased by less than \$100,000,000. At the present time the total of member bank credit is nearly as large as in 1920 and the volume of goods being produced and marketed exceeds the peak reached in that year, yet the volume of reserve bank credit is \$2,200,000,000 ess.

During the past two months Federal reserve note circulation has declined Present currency requireslightly and the growing dements. mand for currency has been met by an increase in other forms of money in circulation. In fact, the total money in circulation is now \$242,000,000 larger than a year ago, while Federal reserve notes during this period have increased by only \$52,000,000 and Federal reserve bank notes have declined by \$58,000,000. Gold and gold certificates in circulation have increased by \$127,000,000, silver and silver certificates by \$100,000,000, national-bank notes by \$11,000,000, and United States notes by \$10,000,000. More than threefifths of the year's increase in circulation occurred between February 1 and April 1 of this year. A part of this additional currency has been supplied out of the cash reserves of the reserve banks, which declined slightly during the past two months. But, like the additional demand for credit, the recent demand for additional currency has been met without substantial increase in the use of reserve bank credit.

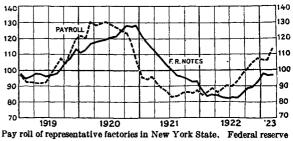
While increases in other forms of money in circulation have largely supplied the recent demand for more currency, the fact is that the

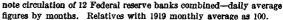
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present volume of currency is much less than in 1920, even though production, trade, employment, and member-bank credit are now at or near 1920 levels. On April 1, 1923, the total volume of money in circulation was nearly \$1,000,000,000 less than at its peak in November, 1920, and over \$600,000,000 less than on the corresponding date of 1920. Changes in the demand for hand-to-hand currency arise chiefly from the pocket-money and till-money requirements of retail trade, from pay-roll needs, and from the habit of accumulating and holding currency as savings. The volume of retail trade, taking the country as a whole, is approximately the same now as at this season in 1920, though retail prices are lower. In certain agricultural sections, however, where hand-to-hand currency is largely used and where business recovery has been slow and incomplete, the volume of business is still much below the 1920 level, and it is probable that in those sections there is a smaller demand for currency. There is also at present a much reduced amount of currency held as savings. The extent of such holdings depends less upon the current volume of employment than upon the duration of the period of full employment; in 1920 such holdings were doubtless at a record figure, since full-time employment and high wages had continued for several years. During the subsequent period of slack employment much of the currency held as savings was spent, and the present period of fuller employment has not yet continued long enough to result in similar accumulation.

Of the various fluctuating demands for currency the pay-roll requirement is probably the most important because it includes the seasonal demand at harvest time and because it influences other currency demands arising from retail trade and from savings. The accompanying chart shows for recent years the relation between the total pay roll of reporting industrial establishments in the State of New York, which may be taken as fairly representative of changes in factory pay rolls for the entire country, and the volume of Federal

fluctuation in pay roll and in currency has been similar, though the changes in the volume of currency have lagged behind the changes in pay roll. The chart shows that while the pay roll increased since the beginning of 1922, it is still much lower than at the peak in 1920. This, taken together with the lower level of retail prices, is probably the most important single fact in accounting for the smaller volume of currency now in circulation. This lesser demand for currency, together with the gold imports which have supplied member banks with a basis for loans without additional borrowings from the reserve banks, accounts for





the present reduced volume of reserve bank credit compared with 1920.

If the relation between pay roll and Federal reserve notes which held during previous years continues, the rapid increase in the pay roll since the middle of 1922 will soon result in a substantial increase in demand for currency, and in order to secure the additional currency member banks will seek accommodation at the reserve banks.

The increased use of credit, which is reflected in the larger loans and investments of member

banks, but not in the earning **Production and** assets of Federal reserve banks, credit. has been primarily in response to the increased volume of production. Thus far business expansion has been characterized by a rapid increase in the output of basic commodities. In fact, the growth in the physical volume of production since the middle of 1921 indicates a rate of industrial recovery almost without parallel in American business. Within reserve notes in circulation. The range of a year and a half after recovery began the monthly output of 21 basic commodities, as measured by the Federal Reserve Board's index of production, increased over 67 per cent. The volume of goods produced and consumed during the first quarter of 1923 probably exceeds that of any similar period in the history of the country. Fuller employment of equipment and of labor has produced the additional income from which profits and wages were realized. In fact, profits in many lines of industry have been dependent upon quantity production, the lower production cost per unit more than offsetting the increased cost of materials. It is partly in consequence of larger output that the prices of manufactured goods have not more fully reflected the increases in prices of raw materials. Larger pay rolls also until quite recently have resulted chiefly from increased employment rather than from advances in wage rates. These increases in production and employment have thus far economically justified the increases in the total volume of bank credit. For credit extension does not result in overexpansion so long as the additional credit yields proportionate results in the larger production and marketing of goods.

The current volume of wholesale and retail trade indicates that the goods now being pro-Credit condi- duced are moving satisfactorily tions, 1923 and into the channels of distribu-1920. tion. About 700 firms engaged in various lines of wholesale trade and representing practically all sections of the country are now reporting their monthly sales to the Federal reserve banks. Since the opening of the year the total volume of sales by these concerns has been about 18 per cent larger than during the corresponding period a year ago. In retail trade the sales of 306 department stores located in 100 cities throughout the country have also exceeded the sales of last year by 15 per cent. In March, 1923, sales of these stores were above the level of March, 1920, in spite of the lower retail prices now prevailing. Department-store sales are at present relatively higher in the industrial

sections of the South and West. The volume of merchandise buying in rural districts is further indicated by the sales of mail-order houses, which during recent months have been approximately 37 per cent above the sales of a year ago, though the present dollar volume of their buying is still much below the level of 1920.

The extent to which various sections of the country have shared in the current growth of business and credit may be shown in a general way by the changes in the volume of check payments and of member bank credit. For this purpose a comparison is made of the total volume of bank debits during the first quarter of 1923 with the corresponding period in 1920, and a comparison of the total loans and investments of member banks at the end of the year 1922 with similar figures for November, 1920. This comparison in the form of percentages, with 1920 figures taken as 100, is shown below, by Federal reserve districts.

Federal reserve district.	Check pay- ments.	Mem- ber bank credit.	Federal reserve district.	Check pay- ments.	Mem- ber bank credit.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago	Per cent. 105.5 99.6 100.6 97.8 85.6 80.9 94.6	Per cent. 105.0 99.2 101.4 105.4 96.4 90.7 95.9	St. Louis Minneapolis Kansas City Dallas. San Francisco System	Per cent. 96.9 88.2 81.6 87.8 101.9 97.5	Per cent. 105.0 90.5 87.5 84.6 104.0 98.6

Both in volume of business and in bank credit the more recent figures, taking the country as a whole, show but a slight reduction compared with 1920. When considered by reserve districts there is a close correspondence in the changes since 1920 in credit and in business volume. With but few exceptions, business activity in the industrial East and on the Pacific coast either approximates or exceeds that of 1920 and has been accompanied by corresponding increases in credit. In marked contrast are conditions in the South and Middle West, where both business volume and bank credit are considerably below the 1920 level.

at present relatively higher in the industrial This regional comparison emphasizes the districts of the East than in the agricultural fact that, while the total volume of business

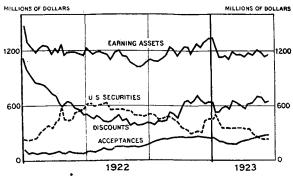
and bank credit is nearly as large as in 1920, there are important differences between the situation at that time and now. In 1920 credit expansion was more pronounced in agricultural than in industrial communities, while at the present time it is in the large cities that the volume of credit is relatively larger. Thus the reserve banks in the South and West in meeting the demands of their member banks in 1920 were obliged to rediscount large amounts with the banks in the industrial sections, while at present there are no interbank rediscounts and no Federal reserve bank approaches the limit of its lending capacity.

The lesser dependence of the member banks upon the reserve banks is reflected in the much smaller total volume of reserve bank earning assets and in the smaller proportion which paper discounted for member banks constitutes of that total. On October 15, 1920, of the total earning assets held by reserve banks, discounts for member banks constituted 81 per cent, while on April 18, 1923, the percentage was 58, and in the middle of 1922, when discounts were at low ebb, the percentage was as low as 35 per cent.

Total earning assets of the 12 Federal reserve banks combined measure **Open - market** the volume of reserve bank policy. credit in actual use and are continuously in process of adjustment to the demand for such credit. It is this total rather than any single class of assets which indicates at a given time the extent to which reserve bank credit is being utilized as a basis of member bank credit and as a source of cur-The relationship between the openrency. market operations of the Federal reserve banks and the demand for discount accommodation on the part of the members has been brought out clearly by the experience of 1922 and the first quarter of 1923. The chart shows for each week in 1922 and in 1923 to date the volume of discounts, openmarket purchases, and total earning assets.

Since the middle of January, 1923, the increase in discounts at reserve banks has been accompanied by a decline in holdings of open-

market purchases, with a consequent stability in the total volume of earning assets. This is in contrast to the situation in the early part of 1922, when member banks were rapidly liquidating their indebtedness at the reserve banks. At that time, also, the volume of earning assets remained relatively constant, because the decline in discounts was accompanied by a corresponding increase in the holdings of Government securities. Thus, for a period of more than a year the total of reserve bank credit has fluctuated around \$1,200,000,000 and has remained within a range of \$1,000,000,000 to \$1,350,000,000. During that period discounts have fluctuated between \$1,000,000,000 and



Weekly figures for 12 Federal reserve banks combined.

less than \$400,000,000, and Government security holdings between \$600,000,000 and \$225,000,000. Acceptances have shown an upward trend beginning with June, 1922, and recently have exceeded the Government security holdings. Thus, during the period covered by the chart, fluctuations in the volume of discounts and in the holdings of open-market purchases have offset each other and consequently have not resulted in corresponding changes in the total volume of reserve bank credit in use.

The relation between open-market purchases and discounts has not held true for reserve banks considered individually. There have been large purchases of Government securities by reserve banks in the interior without a corresponding decline in the discounts for their member banks. But the fact that for the 12 banks combined earning assets have remained comparatively constant indicates that a corresponding liquidation has taken place at other reserve banks.

A recognition of the desirability of coordinating more closely the open-market operations of the several reserve banks led to a discussion of open-market policy at the recent conference of the Federal Reserve Board with the governors of the reserve banks. The Federal Reserve Board's position in the matter is indicated by the adoption of the following principle with respect to open-market investment operations of the Federal reserve banks: "That the time, manner, character, and volume of open-market investments purchased by Federal reserve banks be governed with primary regard to the accommodation of commerce and business and to the effect of such purchases or sales on the general credit situation."

By providing that open-market investment operations are to be governed "with primary regard to the accommodation of commerce and business," the principle rests upon the same general considerations as those provided in the Federal reserve act for the determination of discount rates. Since in open-market operations the initiative can be taken by the reserve banks rather than by member banks, these operations may be used as a gauge of the degree of adjustment between the requirements for reserve-bank credit and the volume of it in actual use. The sale of an investment by a reserve bank is a means of testing the demand for credit by placing the initiative for and the cost of such credit directly upon borrowing member banks.

To what extent the member banks will be able to finance a further growth Administration of credit. accommodation from the reserve banks depends mainly upon the size of gold imports in the immediate future and the further possibilities of shifting from investments and loans on securities to loans for commercial and industrial purposes. Gold imports have recently been small, the net imports for February being

\$7,000,000 and for March, \$5,500,000, com-

pared with a monthly average of \$20,000,000 for 1922 and of \$55,000,000 in 1921. If the gold movement continues at the present reduced scale, the imported gold will not be sufficient to form a basis for any considerable increase in credit extension by member banks and also to meet a growth in the demand for currency. Furthermore, while member banks since the opening of the year have been able in part to increase their loans for commercial purposes by the use of funds withdrawn from investments and from loans on securities, the extent of such transfer is limited since the sale of securities in excess of current savings indirectly leads to a demand for bank credit. Since the opening of the year the monthly rate of growth in commercial loans at member banks in leading cities has been nearly 2 per cent. A continuance of this credit trend must soon result in increased borrowings by member banks at the reserve banks.

The relation between the expansion of bank credit and the expansion of business, as well as the responsibility of the banking community for the economic use of credit, is clearly set forth in a recent report of a committee on unemployment and business cycles, appointed by Secretary Herbert Hoover, as chairman of the President's Conference on Unemployment, held in September, 1921. The report states: "Expansion of bank credit is a necessary condition of expansion of business operations. * * * But an overexpansion of credit may so increase the purchasing power of business men that it will merely result in enabling them to bid against one another for limited supplies of goods and materials so as to force prices above what consumers are willing and able to pay. Bank credit often expands so rapidly that it lifts the buying or investment power of business men out of line with the general buying power of the community. Because of their strategic position the banks have an unusual duty and an exceptional opportunity to give sound information and counsel to business men. * * * While the relationship between the volume of credit and

the volume of business and the movement of prices is not always simple to interpret, it appears to be sufficiently close to make it a matter of first importance that the volume and the flow of credit should at all times be tested by the contribution which additions to the volume of credit make to the total of economic production. Additions to credit which can not be economically validated by a commensurate effect in actual production are speculative, and as such should be subjected to control, so that business and industry can be maintained in a healthy state."

The present lending capacity of the country's banking system, in view of the great growth of the reserves at the reserve banks, is now far in excess of the credit needs of the country's productive capacity. In such a situation it is the available supplies of labor and equipment and not the potential supply of credit that in the end must fix the limit which may be attained by aggregate national production. As these limits are approached credit policy must be increasingly influenced by careful consideration of the continued effectiveness of further additions to the total volume of credit in contributing to increased productivity.

NOTES.

Minutes of 1920 conference with Class A directors.

A stenographic transcript of the conference held by the Federal Reserve Board with the Federal Advisory Council and the Class A directors of the Federal reserve banks on May 18, 1920, has been issued as a Senate Docu-

ment (No. 310, 67th Cong., 4th sess.). Copies may be obtained from the Superintendent of Documents, Government Printing Office.

Report of committee on business cycles and unemployment.

The committee appointed by Secretary Hoover, as chairman of the Conference on Unemployment, which met in Washington in September, 1921, has recently submitted its report and recommendations. This report has been published with a foreword by Secretary Hoover, and copies may be obtained from the Superintendent of Documents, Government Printing Office.

Congress of International Chamber of Commerce.

The Second Congress of the International Chamber of Commerce was held at Rome, Italy, between March 17 and 25. In addition to discussing questions of industry and trade and transportation, the Congress dealt with the following important financial topics: Reparations, interallied debts, Government budgets and inflation, international credits, foreign exchange, and stabilization.

Federal intermediate credit banks.

Under the authority of the agricultural credits act of 1923, the 12 Federal intermediate credit banks, each with an initial paid-in capital of \$1,000,000, have been chartered and were formally opened for business on May 1. These banks are located in the cities in which the Federal land banks are located and, like the latter, are under the supervision of the Federal Farm Loan Board.

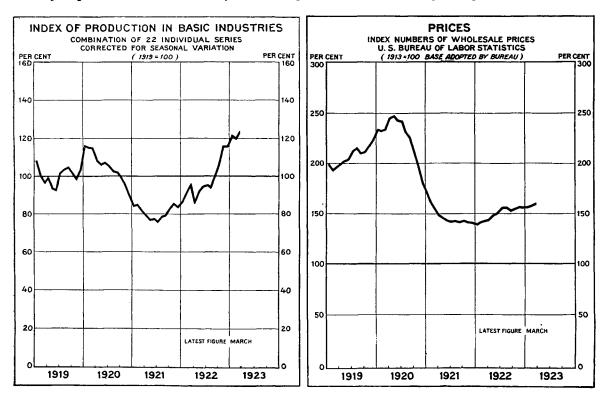
BUSINESS CONDITIONS IN THE UNITED STATES.

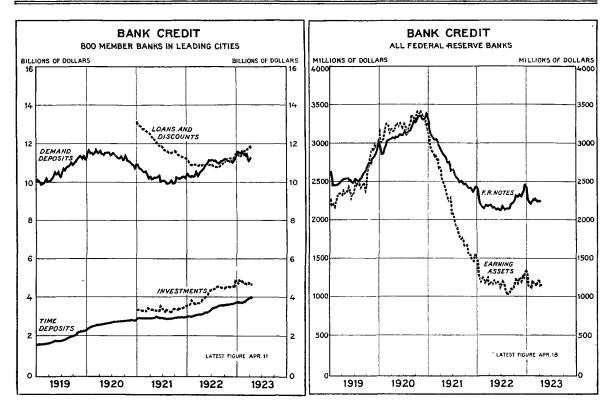
Further increases in the production of basic commodities, in wholesale prices, employment, wage rates, and wholesale and retail trade took place in March.

Production.—Production in basic industries, according to the Federal Reserve Board's index, increased 4 per cent in March to a level 8 per cent higher than at the 1920 peak and 69 per cent above the low point of 1921. The output of pig iron, steel ingots, automobiles, and crude petroleum, and the mill consumption of cotton exceeded all previously reported monthly totals. Building operations showed a further large expansion, and the value of contracts let for residences in March was the highest on record. Railroad freight shipments have been larger every week this year than in the corresponding weeks of the past four years. Car shortage has been reduced to the lowest point since September, chiefly as a result of the addition of new equipment, a decrease in the number of bad-order locomotives and cars, and a concerted effort to increase the average loadings.

Employment in the building trades and in many lines of manufacturing continued to increase in the Eastern States. The surplus of unskilled labor in the West reported in earlier months is being gradually absorbed by the seasonal increase in farm work. A number of leading textile mills, steel mills, and packing plants announced general wage advances ranging between 11 and $12\frac{1}{2}$ per cent, and numerous wage advances in other industries also were reported.

Trade.—March sales by department stores reporting to Federal reserve banks were 22 per cent above those of March a year ago, partly because Easter purchases were made in March this year, whereas last year such purchases were largely deferred until April. Stocks of goods held by department stores were 6 per cent larger than those held a year ago, but this increase





was not as large as the increase in sales, and hence the rate of stock turnover has been somewhat more rapid. Sales of mail-order houses were larger than for any month since November, 1920, and 35 per cent larger than in March, 1922. Wholesale trade in all reporting lines was larger than in March a year ago.

Wholesale prices.—Wholesale prices, as measured by the Bureau of Labor Statistics index, advanced 1.2 per cent during March and were 15 per cent above the low point of January, 1922. As in recent months, the prices of metals and building materials showed the greatest increases, while fuel prices showed a further decline from recent high levels. Compared with a year ago, metals were 37 per cent and building materials 28 per cent higher. The cost of living increased slightly more than 1 per cent during March to a level of 3 per cent higher than a year ago.

Bank credit.—During the month prior to April 11 a more moderate growth in the demand for credit from member banks in leading cities resulted in an increase of about \$48,000,000 in their loans made largely for commercial purposes, as compared with an increase of \$235,000,000 in the preceding month. Through withdrawal of funds from investments and a further inflow of gold, member banks have been able to meet demands of their customers for increased credit and currency independently of the reserve banks.

Consequently, the total volume of Federal reserve bank credit, as measured by total earning assets, has remained relatively constant during the past month, and, in fact, since the seasonal liquidation at the turn of the year. The volume of Federal reserve notes in circulation has also changed but little, as the larger demand for hand-to-hand money has been met chiefly by an increase in other forms of money in circulation.

There has been little change in money rates from those prevailing in March.

AGRICULTURE.

During the early weeks of March weather conditions were generally favorable in the agricultural and live-stock sections of the country. Crops made considerable progress after having been retarded by unsatisfactory weather conditions in February. However, the later weeks in March and the early periods of April were accompanied by excessive precipitation and abnormally cold weather, both of which were retarding factors in all Federal reserve districts. Due to these conditions little advancement was made during the early weeks of spring, but as the winter was extremely favorable for both winter growing crops and the preparations for spring plantings, farm progress is only slightly delayed as compared with the corresponding period one year ago. Spring seedings of small grains have been delayed in sections of the Chicago, St. Louis, and Kansas City districts, but the weather was not generally unfavorable for outdoor work. The truck season is gradually extending northward, although plantings were somewhat retarded in the districts of St. Louis, Richmond, and Philadelphia. In the Carolinas and sections of the Atlanta district truck crops made considerable progress, but in some sections they were somewhat damaged by the low temperatures and late frosts in the early weeks of The continued industrial expansion April. has attracted agricultural labor from the farms in all Federal reserve districts, but the shortage of farm labor is greatest in the industrial districts of Boston, Philadelphia, Cleveland, and Chicago. According to estimates by the Department of Agriculture, on April 1 the supply of farm labor was sufficient to provide for only 88.4 per cent of the demand.

Prices of principal agricultural products continued their upward movement in March, increasing slightly more than 3 per cent, but were approximately 20 per cent higher on April 1 than on the same date one year ago. The principal crops of the United States, with the exception of potatoes, which decreased in value in 1922, showed increases in value over 1921. The values and relative importance of the leading crops are shown in the following table:

VALUE OF PRINCIPAL CROPS.

	1922	1921
Corn. Cotton (lint and seed). Hay (tame and wild). Wheat. Oats. Tobacco. Potatoes. Apples.	$\begin{array}{c} 1,370,000,000\\ 1,332,000,000\\ 864,000,000\\ 479,000,000\\ 306,000,000\\ 263,000,000\end{array}$	\$1, 302, 670, 000 751, 905, 000 1, 090, 776, 000 321, 540, 000 213, 846, 000 398, 000, 000 167, 631, 000

According to reports by the Department of Agriculture of the intended plantings in 1923 of the principal spring crops, increases in acreage as compared with the previous year are noted for all crops except spring wheat and Irish and sweet potatoes. The increases vary from 26. per cent for corn and oats to 89 per cent for flax.

Grain.

While weather conditions have been generally unfavorable to the progress of the growing grain crops, the movement of grain to market showed improvement over the preceding month. In some sections, however, receipts at primary markets were somewhat retarded on account of the unseasonal weather. The movement of grain during March, as indicated by receipts of all grains at 17 interior centers, amounted to 74,078,000 bushels, a decrease of 2,924,000 bushels over February and an increase of 21,000 bushels over March one year ago. Increases were noted in all grains except corn and rye, where seasonal declines were evident.

After having been almost dormant during the winter, export demands for wheat were more active during the early weeks of spring, but American wheat in the export markets of the world is still higher than that from other grain-producing countries, a factor which is unfavorable to American exporters.

According to estimates by the Department of Agriculture, as indicated by the condition report on April 1, the production of winter wheat will be 572,317,000 bushels, as compared with the estimated production of 586,204,000 bushels in 1922, and 600,316,000 bushels in 1921. The condition of winter wheat was lower on April 1 than on December 1, 1922, or April 1, 1922, and considerably lower than the 10-year average on April 1. The detailed figures are given in the following table:

Conditions of Winter Wheat and Rye in the United States.

	Apri	il 1.	10-year average.	Decem-	
-	1923	1922		ber 1, 1922.	
Winter wheat Rye	75. 2 81. 8	78.4 89.0	84. 1 88. 6	79. 5 84. 3	

Cotton.

The weather during March and the early weeks in April was instrumental in retarding advancement in the cotton crop. Winter plowing and early preparation, combined with a few favorable days in early March, induced considerable early planting in the southern sections of the Atlanta and Dallas districts, but the cold waves occurring in the later weeks of March and early April delayed further plantings and killed considerable amounts of the early planted crop. Dry warm weather following the middle of April enabled work and seeding to be carried forward and the early plants to progress. In the Richmond district the planters are not discouraged over the lateness of the crop, as the cold weather has delayed the emergence of the boll weevil from its hibernation. Efforts are being made to concentrate on intensive cultivation on a moderate acreage. Planting has advanced rapidly in the districts of Atlanta and St. Louis, while in the Dallas district seeding has been practically completed and in many localities the young plants have been growing nicely since the temporary setback caused by the low temperatures. In the cotton areas of the San Francisco district increased planting is reported, and the increases have been made largely in medium staple cotton, partly because of the greater market prevailing for this cotton and because of larger profits realized for its culture

than for American-Egyptian or Pima cotton. The movement of the old cotton crop to market generally declines during the spring months, but sight receipts during March were larger than those in February, though less than in March one year ago. Likewise, spinners' takings increased in March over the previous month and the corresponding month in 1922. Stocks at mills and warehouses decreased from 4,826,000 bales in February to 4,413,000 bales in March and were 896,000 bales less than in

March, 1922. Stocks in consuming establishments continued greater in March than in the corresponding month a year ago, but stocks in warehouses were less, accounting for the decrease in total stocks at mills and warehouses. Exports during March were 140,000 bales less than during the corresponding month in 1922, and likewise total exports for the season were considerably lower than for the previous season, amounting to 4,057,000 bales, as compared with 4,384,000 bales one year ago. Upland spot cotton prices have undergone considerable reactions since the high figure of 31.30 cents reached in New York on March 17. The market has fluctuated around .30 cents, but the low figure of 27.60 cents was reached on April 20.

Tobacco.

The marketing of last year's tobacco crop has been practically completed, and many markets in the bright tobacco sections have The dark markets will close during closed. During the closing months of the season April. much tobacco of lower quality was handled in the markets, and the prices were somewhat lower. The average price received by the growers in the Virginia markets in March for bright tobacco was \$23.50 per hundred pounds, compared with \$26.17 per hundred in February and \$8.35 in March, 1922. Dark tobacco prices were also lower than in February, but remained higher than in March a year ago. The tobacco season has been successful from the standpoint of the growers, as the crop was larger and higher prices were received for the product, yielding the producers greater re-turns than in 1921. Up to April 1 the tobacco sold in the Virginia markets, including the re-ceipts of the Tobacco Growers' Cooperative Association, amounted to 160,918,000 pounds, compared with 96,634,000 in the 1921-22 season. In the tobacco districts of Cleveland and St. Louis approximately 250,000,000 pounds of burley tobacco were sold by the growers, and the marketing season is nearing a close. Cooperative marketing associations functioned in most of the tobacco sections during the past season, and reports indicate that they have been very successful, despite the fact that many of them were recently organized and operated for the first time. In the Richmond district tobacco beds have been prepared and some plants are up. Transplanting is being done in the southern sections of the district. Cold

weather in April the young plants will develop rapidly, and transplanting will be completed with but little delay.

Owing to the greater number of working days in March than in February, production of all tobacco products increased as compared with the preceding month, but only large cigars were produced in greater quantities than in January. Output of large cigars and cigarettes increased, as compared with March, 1922, but small cigars and manufactured tobacco decreased. In the Philadelphia district the demand for cigars improved during the early weeks of April, after a dull season lasting for several months. Cigar manufacturers report that the demand for their products is greater than in the corresponding period one year ago. The average of the operations of the district is approximately 80 to 85 per cent of capacity, although some small factories are operating at near capacity. Prices of cigars have remained firm and unchanged, while tobacco leaf prices are advancing slightly.

Fruit.

The early fruit crops in the Richmond, Atlanta, St. Louis, and Dallas districts were damaged by the cold and unsettled weather in March. In the Atlanta and Dallas districts the greatest damage was apparent in the peach sections, and estimates are approximately 50 per cent for Dallas and 37 per cent for Georgia. Losses in the St. Louis district were greater in the small fruit areas. In the fruit sections of the Philadelphia and Cleveland districts damages were less pronounced, as the season is Recent rains in Florida were beneficial later. to the citrus fruit groves, which are in bloom in all sections. A shortage of refrigerator cars was a retarding factor in the movement of both oranges and grapefruit during March, but the shipments were greater than in March, 1922, and the season's shipments of oranges and grapefruit were 34,414 cars, as compared with 28,053 cars during the previous season. Approximately 2,000,000 boxes of grapefruit and 15 per cent of the orange crop remained at the end of March in the State. In the San Francisco district stocks of apples were more than three times as large as they were at the same date a year ago. Apples that remained in storage amounted to 5,286 cars, as compared with 1,521 cars last year. Prices paid to growers continued downward and are approximately 4.4 per cent lower than they were a year ago. Shipments of oranges since Novem-

ber 1 were 20,529 cars, as compared with 19,113 in the corresponding season one year ago. Lemon shipments were slightly smaller than during the preceding season. Estimates of the final yield of the orange crop are 9,516,000 boxes. The lemon crop is estimated to be slightly in excess of 4,000,000 boxes. On account of cold weather which persisted in the eastern markets and a sluggish foreign demand, markets for California citrus fruits were depressed during March, and prices received by orange growers were approximately 46 per cent below prices received in March, 1922.

Live stock.

During March the marketing of live stock continued the downward movement which began in November. Although March contained more business days than February, the total receipts of all live stock were smaller than in February, but greater than in March, 1922. Slight increases were noted for all stock as compared with February, except sheep, which declined more than 40 per cent. Receipts of cattle, calves, and sheep were smaller than in March, 1922, but hogs, horses, and mules were greater. Detail figures for March, 1923, February, 1923, and March, 1922, are given in the table on page 170.

Live-stock prices during March showed slight changes from the preceding month. Prices for hogs increased; cattle remained fairly steady and lambs declined.

Although the cold waves in March were somewhat unfavorable to young pigs and lambs in sections of the Kansas Čity district, ranges and pastures were generally unaffected. Warmer weather, accompanied by rains in April, invigorated the grass, and sheep and cattle are beginning to show improvement. In the Dallas district grazing conditions have reacted well to the warmer weather and abundant precipitation occurring in April. Both live stock and ranges were in satisfactory condition. In the San Francisco district much of the damage suffered by pastures and ranges during the drought of February and March was repaired by the rains of early April. Lambing has been practically completed in California and Arizona and is progressing rapidly in the northern States of the district. Shipments of spring lambs from California and Arizona to both local and eastern markets increased during March, and the peak of the movement is expected in May.

MINING.

Mine output of anthracite coal and manufacture of coke reached very high levels in March, while daily average production of bituminous coal has shown a slight downward-tendency, and in the week ending April 21 reached the lowest level for the current year. This decrease in bituminous-coal production has followed a steady decline in prices since last summer, which has reduced the average price of soft coal by one-half. Shortage of shipping facilities is still claimed as the main check on production by fields in Pennsylvania, West Virginia, and Kentucky, but all the more western fields complain of lack of demand. The Philadelphia district reports the closing of some high-cost mines, while active demand is confined to steel and certain other industrial plants. Railroads and public utilities are buying cautiously. Commercial stocks of bituminous coal amounted to 36,000,000 tons on March 1, which was 2,000,000 tons less than on February 1.

Sales and shipments of domestic sizes of anthracite coal continued to be heavy in March and the first half of April. Production amounted to 9,382,000 tons, which was 21 per cent larger than in February and the largest monthly total during the past five years. Prices of steam sizes of anthracite are declining, as they are compelled to compete with bituminous coal. Coke prices also declined during April, the range for Connellsville furnace being from \$6 to \$7 on April 19, as compared with \$7.50 to \$8 on March 29. Output of by-product coke reached a new maximum rate in March, while beehive production was the largest since September, 1920.

Petroleum.

Crude petroleum output continues to break previous records and to exceed consumption by a substantial margin. The increase in stocks of both crude and refined products resulted late in March in a series of price reductions. Declines in crude-oil prices have been announced by a number of producers, but they have as yet been small when compared with the rapid rise earlier in the year. The output of heavy crude in California has been particularly great, and shipments of this oil to the East are more than sufficient to take care of the reduction in the imports of Mexican oils. The markets for refined products have likewise been weak, and some tank-wagon prices of gasoline have been reduced.

Both the total and the average daily output of crude petroleum during March exceeded that for all previous months. The number of new wells completed totaled 1,248, as compared with 1,094 during February. The daily average production in the Dallas Federal reserve district was below that for February, but the number of new wells completed was larger in both the Kansas City and Dallas districts. The increase in the daily rate of output during March for the country as a whole was chiefly due to the greater production in California fields, where there was an increase of 7 per cent over the February daily output.

Metals.

Mine output of all nonferrous metals in March reached the highest level since 1919. This was followed by a moderate reaction in prices during April, but prices of copper and lead are still substantially higher than at the beginning of 1923. An important factor in the mining situation during the past two months has been the approach of the termination of the Government purchases of silver. As the United States has now purchased at the fixed price of \$1 an ounce most of the silver for which provision was made by the Pittman Act, and the market price of silver is only 67 cents per ounce, the silver mines have accelerated their operations in order to market as much as possible at the former price. This resulted in a production of 6,110,000 ounces in March, an increase of 29 per cent.

Copper production in March totaled 122,194,000 pounds, which was about twice as large as that a year ago and the highest monthly total since January, 1919. The price of refined copper reached a maximum on March 22, and has receded about one-half a cent in the past month. This decline in price has been accompanied by a marked decrease in orders booked, but this seems a natural reaction from the heavy wave of buying during the first quarter of the year. Shipments to domestic and foreign consumers during those three months amounted to about 600,000,000 pounds, which was considerably in excess of domestic production and imports.

The price of zinc at St. Louis receded more sharply than the copper price during the first three weeks of April, but lead prices showed only a slight tendency to soften. Zinc production increased 15 per cent over February, while the output of lead increased 16 per cent. Shipments of zinc were larger than production, which resulted in a decline of stocks to about

Coal.

Food products.

six days' supply at the current rate of consumption. Operations in the Joplin district reached record proportions in March, and much prospecting has been done in search for additional lead ores.

MANUFACTURES.

Production of wheat flour during March increased over the preceding month and over the corresponding month in 1922, amounting to 10,607,000 barrels, the highest March output on record. The increase was 1,182,000 barrels over February and 949,000 barrels over March, Activity in the milling industry varied 1**9**22. from 45 per cent of capacity in the Chicago district to 59 per cent of capacity in the Kansas City district, as compared with 52 per cent and 67 per cent in the respective districts in March, 1922. The domestic flour market during March was again characterized by the inactivity which has been prevailing in the trade for several months. Increased production, accompanied by small shipments, caused increases in stocks on hand as compared with the same date last year in most districts from which reports were received. Little export demand was evident during March, but the upturn in the wheat market during the early weeks of April resulted in increased domestic and foreign trade.

Meat-packing activities, as indicated by the number of animals slaughtered under Federal inspection, increased during March as compared with February, but decreased slightly from the high points reached in December and January, when the greatest number since December, 1919, were slaughtered. The number of ani-mals slaughtered in March was 6,871,000, compared with 5,997,000 in February, 7,252,000 in January, and 5,243,000 in March, 1922. Sales by 45 meat-packing companies reporting to the Chicago Federal Reserve Bank showed a seasonal decline during March and were 3.7 per cent less than in February, but were 5.4 per cent greater than in March a year ago. Since the lenten season improvement has been noted in the domestic trade, but European demand tended to slacken after the middle of March. Lard and fats, however, continued to go abroad in volume about equal to that of February and January. Meat exports have shown a downward trend since the war, and the volume of meat exported in 1922 only totaled 1,785,967,000 pounds, as compared with 1,945,610,000 pounds in 1921.

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Textiles.

Although buying of textile products fell off to some extent during March and early April, productive activity continued unabated for the purpose of filling orders booked earlier in the year. Many plants were running overtime and new production records were established. The upward movement of prices proceeded at a slower rate and some recessions occurred. Wage increases have been announced in practically all branches of the industry, and reports of labor shortages are common.

In cotton textile manufacturing, production, as measured both by the consumption of raw cotton and by the number of active spindles, was the largest ever recorded. Dullness generally prevailed in the Philadelphia cottonyarn market in March and April, owing to the fact that customers had previously covered their requirements and were awaiting further developments in the raw-cotton market. Carded yarns, after holding firm for several weeks, declined in price during the second week in April. Yarn manufacturers reporting to the Federal Reserve Bank of Atlanta gave statistical evidence of continued good business during March, as shown by increases in production, shipments, and orders, but stated that the market had become rather dull. The weakness in raw cotton also affected the goods market in Philadelphia, but demand continued to be fairly good. Manufacturers of cloth in the Atlanta district reported declines in shipments and orders as compared with February, but production was well maintained. The industry in the Richmond district continued full-time operations, but a distinct falling off in orders was noted in March and early April. Finishers of cotton fabrics throughout the country reported rather substantial increases in business during March as compared with February. The rise in prices of cotton goods, which had continued steadily since last summer, was checked during the latter part of March, and in April all of the gray cloth markets eased off some.

In the woolen industry, plants operated during March about 90 per cent of all machinery in place, and many establishments were running overtime during March and April. Worsted spindle hours active, for example, totaled in March over 100 per cent of maximum singleshift capacity. All of the woolen and worsted machinery has not been so active at the same time since early in 1920. Consumption of raw wool was over 10 per cent greater in March

than in February. The buying season for heavyweight men's wear is now practically over and sufficient orders were taken to insure operations for some months to come. Many orders had to be limited in size. High-grade worsteds were in greatest demand, and the call for overcoatings was particularly heavy this year. The trend of prices is upward, under the influence of higher raw material costs and advancing wages. The worsted yarn market is rather dull now, as weavers have practically covered their requirements, but yarn prices have been stronger. The raw-wool clip in the West is now being marketed, and some large clips have been contracted for at about 50 cents a pound, as compared with 40 cents last year. A better demand for fine wools is developing in all markets.

Although deliveries of silk to mills during March were the smallest since December, mill operations continued at a fairly high rate of activity. Plants are still operating at considerably under capacity-about 70 per cent in Pennsylvania and above 60 per cent in the Paterson and North Hudson section, but they are much more active than they were a year Ribbon looms are less active than the ago. others. Monthly sales, according to reports received by the Philadelphia Federal Reserve Bank, are running in many cases 100 per cent of those at this time last year, and from 30 to 50 per cent of the orders are for future delivery. Raw-silk prices during April reached the highest point since January, 1920. As a result, manufacturers have curtailed purchases of raw materials and the market has become Despite reduced takings by mills inactive. during March, stocks of raw silk fell off during that month and reached the lowest figure since October 1. March imports were smaller than those of any month since last July.

Fall lines of clothing were opened by the leading manufacturers during March and April at prices generally higher than those prevailing at the last opening. Rough comparisons indicate that the new prices are about equal to those of 1921, are under the maximum quotations of 1920 by about 40 per cent, and exceed those of all previous years. The advance over last year reflects higher cloth prices and recent increases in wage rates. The demand for overcoats, so far as can be determined this early, is excellent. According to the Federal Reserve Bank of Philadelphia, manufacturers in that district are operating their plants at about 84 per cent of capacity. In April they were engaged chiefly in filling late orders for spring suits. Whole- products. Pig iron, however, was firm in spite

sale clothing dealers in the New York Federal reserve district reported substantial increases in sales during March as compared with February. Women's clothing sales were 13 per cent above sales for last March and those of men's clothing increased 52 per cent in the same period. Tailors to the trade in the Chicago district report that March business was 90 per cent above that of February and 50 per cent above March, 1922.

Knit-underwear production during March was well above the February output, but considerably below that of last March. Shipments and new orders received were likewise greater than the corresponding figures for February, but as shipments exceeded orders, the volume of unfilled orders fell off during the month. Although production was less than during last March, shipments and unfilled orders were somewhat larger. Production of summer underwear showed a greater increase than did the output of the heavy-weight garments, and according to reports from mills in the Philadelphia Federal reserve district, orders for winter underwear fell off substantially during the month, whereas purchases of summer garments increased. Manufacturers in the Philadelphia district reported that a considerable majority of orders for next fall have been booked, and the demand was so heavy that in some cases allotments were necessary. Prices are now higher than those prevailing at the opening of the season.

Conditions in the hosiery industry are somewhat spotty and demand is good for only certain grades. The call for full-fashioned silk hosiery is poor and the mixtures of wool, silk, fiber, and the like are less active. Cotton hosiery, however, is in excellent demand, according to reports from manufacturers in the Atlanta Federal reserve district, and statistics of orders, shipments, and production during March were well above corresponding figures for February and for last March. In the Philadelphia district, also, increases in these items were reported, but they were relatively smaller than for the southern mills.

Iron and steel.

Demand for both pig iron and steel products has been quieter during April than in the earlier months of 1923. The price composite of the Iron Trade Review, however, continued to advance slightly each week and was 4 per cent higher on April 19 than on March 22. Most of the advances were in the prices of finished steel

of a considerable reduction in the price of coke. Railroads, automobile companies, and building contractors have continued to be the most important purchasers of steel, and large future orders for rails, plates, and structural shapes have accumulated. In fact, manufacturers of sheets and plates in the Philadelphia district will only accept certain orders at the present time, and most mills are unable to handle further rail tonnage. Premuims are now paid for early delivery on almost all products. Unfilled orders of the United States Steel Corporation increased 119,343 tons during March and amounted to 7,403,332 tons at the end of the month.

Output of pig iron and of steel ingots both reached maximum levels in March. Pig-iron production totaled 3,521,000 tons, an increase of 18 per cent over February, while steel-ingot production aggregated 3,402,000 tons, which was 17 per cent higher than in February and 1.5 per cent above the record output of October, 1918. Additional blast furnaces have been blown in during April, and an increase of 11 per cent in wages has been announced by all leading companies in order to maintain the size of their forces and the present high level of production.

Automobiles.

Automobile production in March was much the largest of any month on record. The output of passenger cars totaled 319,527, which was 23 per cent larger than in February and 22 per cent more than in June, 1922, the month of largest output in the past Truck production also reached a new high level and aggregated 34,063 in March, which was 59 per cent higher than in February and 34 per cent higher than in June, 1922. The demand for closed cars continues to increase, except in the case of the lowest priced machines, and over one-half of the current output have closed bodies. This has resulted in great activity for the body building industry, and manufacturers of automobile bodies are receiving orders for immediate delivery in excess of their capacity.

Tire manufacturers continue to maintain the high level of production reached in March, but have not attempted to increase further their rate of output. Production has been somewhat in excess of consumption, as dealers have increased their stocks in anticipation of a heavy summer demand and in the belief that prices were likely to be higher. The price advance thus far this spring has averaged b etween 10 and 12 per cent.

Leather and shoes.

Leather and shoe markets within recent weeks have been only moderately active. These industries have been generally lagging behind others, both as to increase in business and as to price advances. Prices of hides, leather, and shoes are firm, but only a few increases have been effected.

Calfskins and packer green hides were more active at Chicago during March, and packers have sold at unchanged or higher prices the balance of their winter hides. Prices had not been established on April hides up to the middle of the month. Leather markets were generally quiet during March and early April. Sole-leather production increased during March by more than a seasonal amount and was well in excess of that of last March. Stocks of leather showed practically no change during the month. Reports from the Philadelphia reserve district indicate that sales of nearly all kinds of leather decreased during April, as shoe factories had in most cases covered their current needs and had not started ordering for fall.

Shoe production during March increased in all districts and for the country as a whole exceeded that of February by 17 per cent, and was likewise well above the output for last Manufacturers in the Philadelphia March. district report that a great majority of their orders are for delivery within the next six weeks, although some firms have secured business up to October. Factories, however, reduced operations somewhat in April. Shipments and orders received during March by manufacturers in the Philadelphia and Chicago districts increased as compared with February and with March, 1922, but fewer unfilled orders were on the books at the end of the month than a month previous. Wholesale shoe sales showed enormous increases during March in all districts, and retail sales were likewise very large during that month.

Paper.

Production of all grades of paper continues at a high rate under the impetus of a good demand. Reports from the Philadelphia Federal reserve district indicate that many mills making book and magazine papers, manila papers, building paper and boards, and cardboards were running at capacity. Prices of some grades have recently been advanced, but no general increases have occurred. Paper boards, however, which have risen considerably in recent months, declined in price at the beginning of April. Chemical pulp prices have advanced recently, whereas mechanical pulp has declined. Newsprint production and shipments during March were at a high rate and exceeded the figures for any other March on record. Stocks declined slightly and were rather low for this season. Output and shipments of all other grades of paper and of wood pulp were well maintained during February, the latest month for which statistics are available. Stocks of wood pulp at the end of February were at the lowest point recorded within the last four years.

Lumber.

Lumber markets for the last two months have been characterized by a check in demand from dealers, an increasing rate of production, moderate decline in the volume of shipments from mills, and a slight retardation in the advance of prices. Orders received weekly by mills reached a peak late in January and have tended lower since that date, until now they are slightly below the weekly cut of the same mills. Shipments, however, continue to exceed cut, and manufacturers' stocks are decreasing. In fact, the supply of dry lumber is so low that green material has been shipped in many cases. The greatest demand in recent weeks has been for building lumber, but railroads, automobile producers, furniture manufacturers, and other industrial users have been active buyers. Prices on some grades of softwood fell off slightly during April, but hardwoods continued to advance, though at a somewhat slower rate.

Lumber cut during March by 587 mills reporting to the National Lumber Manufacturers' Association totaled 1,355,082,000 feet, the largest monthly figure since 1918 and the greatest ever recorded for March. Shipments were even larger and equaled 1,479,044,000 feet, as compared with 1,132,320,000 feet by 569 mills in February. Many complaints of a car shortage are reported, but such shortage, except in a few districts, is due to the unusually large demand, as statistics of car loadings of forest products for the country as a whole show that loadings each week of this year have exceeded those of the corresponding weeks for all years since 1920. Reports from the Philadelphia Federal reserve district indicate that retailers have curtailed buying, as bad weather has prevented them from moving their heavy stocks. Buying from mills in the Atlanta district, and likewise in the St. Louis district, was

checked some during March and April, but in the Chicago district the demand continued heavy. Receipts of lumber at St. Louis during March was the largest in history. Retail yards in the Minneapolis district reported greater stocks at the end of March, although sales were large during the month. Manufacturers in that district increased cut and shipments and diminished their stocks. Many sawmills in the San Francisco district are operating on a double-shift basis, and both production and shipments have increased considerably. Both domestic and foreign markets have been exceedingly active.

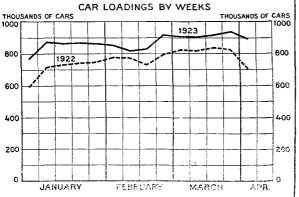
BUILDING.

Operations of building contractors expanded substantially during March and April, while both production and prices of building materials showed large increases. Contracts awarded in 10 Federal reserve districts (compiled from statistics collected by the F. W. Dodge Co.) totaled \$367,599,000 in March, which was 33 per cent higher than in February. March awards in the seven districts for which figures are available since 1919 were 18 per cent larger than a year ago and reached the third largest monthly total on record. All the northern districts showed pronounced increases in value of contracts awarded during March as com-pared with February, but the Atlanta, St. Louis, and Kansas City districts reported decreases ranging from 27 per cent to 10 per cent. Residential contracts during March reached the highest dollar value ever recorded, and amounted to almost one-half of all new contracts, as compared with one-third in February. Building of homes increased in all districts except Atlanta and Minneapolis, but most of the gain occurred in the industrial sections of the East. The value of building permits at 168 cities in March was 50 per cent larger than in March, 1922, the previous record month. Statistics of number and value of building contracts and building permits are published on page 622.

Prices of building materials advanced 3 per cent in March and were 28 per cent above the low point of March, 1922. Production of oak flooring, clay fire brick, and silica brick reached the largest monthly totals since 1920. Stocks of most kinds of building material continued to decline and there was a further accumulation of unfilled orders. A comparison of stocks at the end of March with those of a year ago indicates that the supply of building materials has been about sufficient to meet the demand during the past year and that there is as yet no evidence that the rapid rise in prices has resulted in overproduction of materials.

TRANSPORTATION.

The shortage of railroad equipment was materially reduced during March and April, due to the efforts of the railroads to secure more efficient loading of cars and trains, the delivery of much new equipment from factories, and a further substantial reduction in the number of cars and locomotives awaiting repairs. Freight-car shortage totaled 58,237 cars for the week ending April 7, as compared with 79,270 cars for the week ending March 8. During this 30-day period the shortage of coal cars was reduced 29 per cent, while the shortage of box cars was reduced 26 per cent. In the first quarter of this year 935 new locomotives and 39,172 new freight cars were put into service on United States railroads, and orders were outstanding on April 1 for 1,974 locomotives and 107,453 freight cars. The number of badorder cars amounted to 206,312 on April 1, which was only 9 per cent of the cars on line and the lowest aggregate awaiting repairs since January, 1921.



The chart indicates the consistently heavy railroad loadings during the first 14 weeks of 1923. It may be noted that the loadings in each week of the current year have not only been larger than a year previous, but have also been larger than in the corresponding week of any earlier year. March loadings reached a total of 4,124,214 cars, which was 22 per cent more than in February and 12 per cent more than in March, 1922. Loadings of forest products and coke were larger than in any previous month on record, while live-stock loadings were exceptionally large for a spring month. Load- | department-store sales throughout all sections

ings of southern railroads were particularly heavy and reached the highest aggregate ever recorded in a single month.

TRADE.

Wholesale trade.

Wholesale distribution during the quarter of the year ending March 31 showed considerable improvement as compared with the same period in 1922. Sales by wholesale firms in all lines and in almost all Federal reserve districts have surpassed each month the levels reached in corresponding months in 1922. The improvements reflect the increased purchasing power of the consuming public, as has been evidenced by demands made upon retail distributers in all sections of the country. Sales during March were greater for all lines of goods in all Federal reserve districts from which reports were received than in February, with the exception of grocery sales in the Kansas City and San Francisco districts and dry-goods sales in the St. Louis and Dallas districts. Declines in the latter of 10.8 per cent were indicated in St. Louis and 5.7 per cent in Dallas. The greatest improvements over February were in the sales of shoes, where increases ranging from 17.6 per cent in the St. Louis district to 115.3 per cent in the Philadelphia district were noted. Compared with March a year ago the greatest activity was indicated in the sales of farm implements, which ranged from an increase of 27.9 per cent in the San Francisco district to 187.8 per cent in the Dallas district. As compared with February, activity in dry goods was less pronounced than in other lines, which was due largely to active buying in earlier months and to a hesitancy to place additional orders pending developments of the new cotton crop and price movements of the old crop. Collections of wholesale firms are from "fair" to "good" throughout all districts, but deliveries were somewhat retarded, as shipments were slow and in many cases delayed. The table on page 624 gives detailed figures of wholesale trade.

Retail trade.

Retail trade maintained a high rate of activity during the first quarter of the year, each month showing improvements over the corresponding month in 1922. While the unseasonal cold weather during the last two weeks of March was a retarding factor to retail distribution in many sections, the early date of Easter accentuated the trade and March of the United States were 22 per cent greater than in March, 1922, and 38 per cent greater than in February. The greatest gains over February were in the Philadelphia, Richmond, and New York districts, and ranged from 52 points in Philadelphia to 41 points in New York.

Mail-order houses and chain stores showed considerable increases in sales in March as compared with February and also with March, 1922. Mail-order house sales increased 34 per cent over February and 35 per cent over March, 1922. The greatest chain-store gain was noted in the case of shoe chains, which increased 105 per cent as compared with February and 40.1 per cent as compared with March, 1922.

Stocks of department stores continued to increase during March and were greater than any month since November, 1922. Increases were noted in all Federal reserve districts, and for the country as a whole the index number of department-store stocks on a 1919 base stood at 124.9 at the end of March, as compared with 115.2 at the close of February and 118.2 in March, 1922. Detailed figures of retail trade are given in the table on page 625.

PRICES.

Wholesale prices increased in March at a more rapid rate than in February. The general level of prices rose 3 points according to the Federal Reserve Board's index and 2 points according to the index of the Bureau of Labor Statistics. All groups in the board's index have risen, but the increase in the prices of imported goods is more pronounced than that of produced or exported goods, and the prices of producers' goods have risen much more sharply than raw materials or consumers' goods.

In the raw materials group of the Bureau of Labor Statistics index, as subdivided by the Federal Reserve Board, mineral products declined 3 per cent in March, the same rate as in February, while agricultural products increased, though at a less rapid rate than in the month before. Forest products continued the steady increase that began in March of last year.

The most striking price increases during the month occurred in iron and steel products and nonferrous metals, which rose 12 per cent as a group, with steel billets and copper products leading.

Among consumers' goods, prices of cloths increases in their forces, while jewelry and and clothing moved upward as did foods, while hosiery factories made the greatest curtail-

prices of fuel and lighting declined. Granulated sugar advanced 18 per cent, in comparison with 9 per cent in February.

Retail prices have not as yet shown any consistent tendency to follow the upward course of wholesale prices. Retail food prices, after a rise toward the end of last year, fell again in January and February and did not change in March. The cost of living index, computed by the Massachusetts Special Commission on the Necessaries of Life, was stationary from November through January at the same level at which it stood in January, 1922.

EMPLOYMENT.

Demand for labor continues to be strong, with advancing wages at industrial establishments, in the building trades, and at western metal mines. On the other hand, the demand for farm labor is as yet only moderate and there continues to be a surplus of clerical Reports received by the Bureau of workers. Labor Statistics from 5,453 manufacturing establishments in all parts of the United States indicate that there was a 2 per cent increase in number of employees and a 3 per cent increase in average weekly earnings during March. The largest increases in number of workers were reported by fertilizer plants, brick kilns, and shipbuilding yards. The brick and shipbuilding industries also reported increases of over 5 per cent in per capita earnings, but the millinery and lace goods industries led in this respect with an advance of 9.6 per cent. During April a number of horizontal wage advances have been reported by important industries-most woolen mills which had not previously this year changed their schedules announced increases of 121 per cent, all leading steel companies increased wages of unskilled workers 11 per cent, cotton mills at Fall River and other important centers announced increases of $12\frac{1}{2}$ per cent, and meat packers at Chicago and other western cities advanced all schedules by about 11 per cent.

Investigations of employment conditions by Federal reserve banks and State departments of labor agree closely with the results of the Bureau of Labor Statistics. Reports to the Massachusetts Department of Labor and Industry indicate that industrial employment in that State increased 0.6 per cent during March. The men's clothing, electrical machinery, and textile machinery plants reported the largest increases in their forces, while jewelry and hosiery factories made the greatest curtailment. The New York State Department of Labor reports a 2 per cent increase in factory employment during March, while average weekly earnings increased about 4 per cent. The most important increases of employment occurred at metal and machine plants. Reports from 501 establishments in the Philadelphia district showed an increase in number of employees of 2 per cent during March, and the number on pay rolls was 17 per cent greater than the average in 1922. The Chicago Federal Reserve Bank reports the number employed by 198 concerns increased 3 per cent in March, and that the number of man-hours was 8 per cent more than in February. Steel mills and building contractors made the largest additions to their forces.

COMMERCIAL FAILURES.

Although the number of commercial failures was greater in March than in February, the total reported during the first three weeks in April was slightly less than for the same period in March. As compared with corresponding periods of last year, the number of insolvencies during March showed a decrease of 32 per cent, and those during the first three weeks of April were fewer by 30 per cent. The liabilities involved in the March failures were also greater than those of February and only slightly less than the January figures, but were 33 per cent below those reported for last March. The volume of failures are still rather large, particularly when compared with the years of wartime prosperity. In making comparisons with years prior to the war allowances must be made for growth in the volume of business and

for higher prices, which affect liabilities. Failures, by Federal reserve districts, are shown in the table on page 615. The number of failures during March were smaller than during the same month last year, except in the San Francisco district, but liabilities were greater in the Philadelphia, Cleveland, and Dallas districts. In fact, the liabilities in the Philadelphia district were the largest on record, totaling \$10,622,911, whereas the monthly average for that district during 1921 and 1922 equaled only about \$2,600,000. By branches of business, the liabilities among the miscellaneous group of manufacturers were unusually large. The indebtedness of the manufacturing group as a whole was larger than that of last March, whereas liabilities involved in failures among traders were smaller than during both February, 1923, and March, 1922.

FOREIGN TRADE.

According to the reports of the Department of Commerce, imports of merchandise into the United States have been growing steadily for some months past. To some extent the larger totals recently reported are due to higher commodity valuations, but at the same time the quantities of certain classes of goods imported have considerably expanded. This is particularly true of raw materials and semifinished products entering into manufacture, for which there has been a growing demand as a result of the activity of domestic industry. The latest import figures are for January and show an inward movement of merchandise totaling \$319,000,000. In December, 1922, imports amounted to \$293,000,000, and in January a year ago they were only \$217,000,000.

Exports also are higher than they were either a year ago or in most months recently, but the increase during the last three or four months has not been pronounced, and exports have fallen as compared with the high level of last November. The result has been to reduce very materially the amount of our favorable merchandise trade balance, so that in January it amounted to only \$17,000,000, in contrast to \$51,000,000 in December and \$88,000,000 in November. In March preliminary estimates place the value of our export trade at \$350,-000,000, a moderate increase over January and February of the present year and some \$20,000,000 in excess of the March, 1922, total. The figures made public in the past few months thus indicate the maintenance of exports somewhat above the levels 6 to 12 months earlier. There is no evidence, however, that foreign demand for American goods has had much connection with the great expansion of production which has recently taken place in this country.

GOLD AND SILVER MOVEMENTS.

Net gold imports for the month of March totaled \$5,559,000, marking a further decline from the unusually low total of \$6,984,000 for the preceding month. Both imports and exports of gold proceeded in larger volume than in February, the decrease in net imports being due to the considerable increase in the gold exports for the month under review. Gross imports of gold totaled \$15,951,000, of which 35 per cent came from the Netherlands and about 25 per cent each from Canada and France. About two-thirds of the total of \$10,392,000 of gold exported during March was consigned to India, about 25 per cent to France, and over 5 per cent to Mexico.

Net imports of gold since August 1, 1914, totaled \$1,817,275,000, as shown in the following exhibit:

	Imports.	Exports.	Excess of imports.
Aug. 1, 1914, to Dec. 31, 1918 Jan. 1 to Dec. 31, 1919 Jan. 1 to Dec. 31, 1920 Jan. 1 to Dec. 31, 1921 Jan. 1 to Dec. 31, 1922 Jan. 1 to Dec. 31, 1922 Jan. 1 to Mar. 31, 1923	1, 776, 616 76, 534 417, 068 691, 248 275, 170 57, 154	705, 210 368, 185 322, 091 23, 891 36, 875 20, 263	$\begin{array}{r} 1,071,406\\ 1291,651\\ 94,977\\ 667,357\\ 238,295\\ 36,891 \end{array}$
Total	3, 293, 790	1, 476, 515	1, 817, 275

[In thousands of dollars.]

¹ Excess of exports.

Silver imports during March, \$4,626,000, while higher than in February, continued at a low level as compared with the average monthly imports for the past calendar or fiscal years. Over 90 per cent of the total imported during the month came from Mexico, Peru, and Canada. Silver exports for the month, \$4,-732,000, were slightly in excess of the imports and in the main showed about the same distribution as in February, i. e., about 90 per cent going to China, British India, and England.

Net silver exports since August 1, 1914, totaled \$434,651,000, as is seen from the following table:

[In thousands of dollars.]

	Imports.	Exports.	Excess of exports.
Aug. 1, 1914, to Dec. 31, 1918 Jan. 1 to Dec. 31, 1919 Jan. 1 to Dec. 31, 1920 Jan. 1 to Dec. 31, 1921 Jan. 1 to Dec. 31, 1921 Jan. 1 to Dec. 31, 1922 Jan. 1 to Mar. 31, 1923	203, 592 89, 410 88, 060 63, 242 70, 807 14, 243	483, 353 239, 021 113, 616 51, 575 62, 807 13, 844	279, 761 149, 611 25, 556 111, 667 18, 000 1399
Total	5 29, 354	964, 216	434,862

1 Excess of imports.

FOREIGN EXCHANGE.

Foreign exchange rates during April showed unusual stability. The pound sterling con-tinued to decline slowly and stood at \$4.63 on April 27, compared with \$4.72, the peak figure reported on February 21. French and Belgian francs and Italian lire showed little change. The rate on the French franc, after its rapid rise in March, ranged between 6.49 and 6.78 cents in April; that on the Belgian franc between 5.62 and 5.88 cents, and that on the Italian lira between 4.92 and 5.02 cents.

The German mark, after being stabilized at 48 and 47 cents per ten thousand since the early part of March, dropped on April 18 to 32 cents per ten thousand, but rallied to 38 cents on April 20. At the end of the month the rate was 34 per ten thousand.

Other European currencies as well as those of South American and oriental countries, remained fairly constant.

State Banks and Trust Companies.

The following list shows the State banks and trust companies which were admitted to membership in the Federal reserve system during the month ending April 28, 1923, on which date 1,644 State institutions were members of the system:

		Surplus.	Total re- sources.
District No. 1. Union Trust Co., Ellsworth, Me. ¹ District No. 2.	\$1 00, 000	\$100,000	\$2, 506, 858
Long Branch Banking Co., Long Branch, N. J. Amherst Bank, Williamsville, N. Y District No. 4.	150, 000 50, 000	100,000 15,000	2, 418, 711 65, 000
Farmers State Bank, Lyons, Ohio District No. 6.	25,000	2,000	203, 172
Evangeline Bank & Trust Co., Ville Platte, La.	75,000	37, 500	764, 272
District No. 8.			1
Grant State Bank, St. Louis, Mo District No. 11.	200,000	50 , 00 0	674, 413
Slaton State Bank, Slaton, Tex First State Bank, Idalou, Tex First State Bank, Rochester, Tex	25,000 25,000 25,000		453, 193 156, 669 305, 769
District No. 12.			
Yakima Trust Co., Yakima, Wash	200,000	50, 00 0	1,692,490

¹ Admitted Jan. 8, 1923, but not previously published.

¹ Admitted Jan. 8, 1923, but not previously published. Correction.—In the A pril BULLETIN the capital and surplus of the Wat-sessing Bank, Bloomfield, N. J., was given as \$1,000,000 each. This should have read \$100,000 in each instance. Absorbed by national bank.—Bank of Eufaula, Ala.; Bank of Fergus County, Lewistown, Mont. Bank closed.—First State Bank, Clyde Park, Mont. Bank reopened.—Edgar State Bank, Clyde Park, Mont. Bank reopened.—Edgar State Bank, Clyde Park, Mont. Change of name.—Commercial Trust Co., Philadelphia, Pa., to Bank of North America and Trust Co.; Morton Park State Bank, Cicero, Ill., to Cicero Trust and Savings Bank. Consolidation.—Beaverhead State Bank, Dillon, Mont., and Security State Bank, Dillon, Mont., member banks, have consolidated. Illi-nois Trust & Savings Bank, Chicago, Ill., and Merchants Loan & Trust Co., Chicago, Ill., both member institutions, have consolidated under the name "Illinois Merchants Trust Co." Converted into national bank.—Southwest State Bank, Wichita, Kans. Withdrawals.—Moline Trust & Savings Bank, Moline, Ill.; Peoples Savings Bank & Trust Co., Moline, Ill.; State Savings Bank & Trust Co., Moline, Ill.; Polk County Trust Co., Lakeland, Fla. Insolvent.—First State Bank, Malone, 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 March 24 to April 20, 1923, inclusive:

	Num- ber of banks.	Amount of capital.
New charters issued	23 0 24	\$3,275,000 0 3,130,000
Aggregate of new charters, banks restored to solvency, and banks increasing capital	47	6, 405, 000
Liquidations Reducing capital ¹	$\frac{12}{2}$	760,000 60,000
Total liquidations and reductions of capital	14	820,000
Consolidations of national banks under act of Nov. 7, 1918.	1	300,000
Aggregate increased capital for period Reduction of capital owing to liquidations, etc		6, 405, 000 820, 000
Net increase		5, 585, 000

¹Includes one reduction in capital of \$25,000 incident to a consolida-tion under act of Nov. 7, 1918.

RULINGS OF THE FEDERAL RESERVE BOARD.

Nonnegotiable paper ineligible for rediscount by Federal reserve banks.

The board has been requested to rule upon the eligibility for rediscount of nonnegotiable paper. The note in question contained a clause giving the payee the right to confess judgment before maturity, and it was stated that the highest court of the State in which the question arose had held such a note to be nonnegotiable. For the purpose of the ruling, therefore, the board assumed that the note was nonnegotiable and ruled substantially as follows:

Although negotiability is not required in specific terms by the Federal reserve act or by the board's regulations as a condition of the eligibility of notes, drafts, or bills of exchange for rediscount, it has always been contemplated by the board as one of the primary requisites of eligibility. A promissory note is defined by the board's Regulation A as follows:

A promissory note, within the meaning of this regulation, is defined as an unconditional promise in writing, signed by the maker, to pay, in the United States, at a fixed or determinable future time, a sum certain in dollars to order or to bearer.

This definition incorporates substantially the requirements of a negotiable promissory note as set forth in the negotiable instruments law; in fact, the definition of a note eligible for rediscount is, with certain additional limitations, an adoption of the definition of a negotiable promissory note. A note eligible for rediscount must not only meet the requirements of a negotiable promissory note, but must also possess the additional characteristics required by the definition in Regulation A as above. Notes eligible for rediscount are thus merely a restricted class of negotiable promissory notes as defined in the negotiable instruments law. The definition of a draft or bill of exchange contained in the board's Regulation A is substantially the same as the definition of a bill of exchange set forth in the negotiable instruments law, thus indicating clearly that these instruments also must be negotiable in order to be eligible for rediscount.

All nonnegotiable notes, drafts, and bills of exchange, therefore, are ineligible for rediscount at Federal reserve banks. Government deposits in member banks as exempt from the reserve requirements of section 19 of the Federal reserve act.

The board has recently had occasion to pass upon the question as to whether certain deposits made in member banks should be considered as Government deposits and therefore exempt from the reserve requirements of section 19 of the Federal reserve act.

Section 7 of the first Liberty bond act and corresponding sections of the second and third Liberty bond acts provide that the reserve requirements of the Federal reserve act "shall not apply to deposits of public moneys by the United States in designated depositaries." In construing this provision the board, after consultation with the Treasury Department, has ruled that the following classes of deposits are not "deposits of public moneys by the United States," and are therefore not exempt from the reserve requirements set forth in section 19 of the Federal reserve act:

- (1) Deposits of Philippine funds made by the Philippine Government and carried under the title "Treasurer of the Philippine Islands currency reserve fund account."
- (2) Deposits of Porto Rican funds made by the Porto Rican Government.
- (3) Deposits of Indian funds under the control of the Department of the Interior.
- (4) Deposits of States, counties, or municipalities.
- (5) Deposits of the United States Shipping Board and deposits of the Emergency Fleet Corporation. (See FEDERAL RESERVE BULLETIN for November, 1919, page 1054.)

In the same connection, however, the board has held that deposits made by United States postmasters of Government funds, other than postal savings deposits, collected by them or which have come into their possession by virtue of their official position, should be deemed to constitute "deposits of public moneys by the United States," and, when made in designated depositaries, such deposits are exempt from the reserve requirements specified in section 19 of the Federal reserve act.

LAW DEPARTMENT.

Pennsylvania.

There is printed below the opinion of the Supreme Court of Pennsylvania, rendered April 9, 1923, in the case of the Estate of Edna Frisbie Turner upholding the right of national banks to act in fiduciary capacities in the State of Pennsylvania. This decision affirms that of the Superior Court of Pennsylvania, which was published in the FEDERAL RESERVE BULLETIN for January, 1923 (page 23 of the first edition and page 20 of the final edition).

IN THE SUPREME COURT OF PENNSYLVANIA, EASTERN DISTRICT.

In the matter of the Corn Exchange National Bank of Philadelphia. No. 272. In the matter of the petition of Estate of Edna Frisbie Turner, deceased. Nos. 273 and 274, January term, 1923. Appeals of Common-wealth of Pennsylvania. Appeal from the decision of the Superior Court of Pennsylvania, reversing decree of the Orphans' Court of Philadelphia County.

OPINION.

FRAZER, J.: These three appeals involve the same question, namely, whether a national bank has the right to act as a fiduciary under the laws of Pennsylvania; they were argued together and will be decided in a single opinion.

In settling the account of executors of the estate of Edna F. Turner a fund was awarded to minor children, beneficiaries under the will of decedent. The court appointed The Rittenhouse Trust Company, of the city of Philadelphia, guardian of their estate and before the account was called for audit that company was converted into a national bank and consolidated with the Corn Exchange National Bank, with power granted by the Federal Reserve Board to transact a fiduciary business. The latter applied for and secured a certificate from the State banking department authorizing it to do fiduciary's business in Pennsylvania and presented a petition asking that funds belonging to the minors be paid to it. This the court refused to do until the bank secured the approval of the Orphans' Court of Philadelphia County, under rule 21 of that court relating to approval of fiduciaries. Accordforth the fact of petitioner's incorporation under the with The Rittenhouse National Bank, formerly The Rittenhouse Trust Company, stating it was authorized by the Federal Reserve Board to transact a fiduciary business and had complied with the law of Pennsylvania governing the transaction of such business; had conformed with the acts of May 9, 1889, P. L. 159, and May 20, 1921, P. L. 991, agreeing to be subject to supervision and examination by the banking department of Pennsylvania in the same manner as corporations of Pennsylvania; and stipulated, pursuant to requirements of the before mentioned rule of court, that "securities and other property received by the corporation both in a fiduciary capacity and from the person or persons for whom it is surety, shall not be taken out of the jurisdiction of the court and shall be kept separate and apart from all moneys, securities and property of the said bank, so that the same can, at all times, be easily

Exercise of fiduciary powers by national banks located in | identified as belonging to the estate of the person for whose account the same has been received, and that trust funds received by said bank, either as fiduciary or for the person or persons for whom it is surety shall be deposited in a or persons for whom it is surety shall be deposited in a separate account" in another bank or trust company of good standing. This application was refused by the Orphans' Court, whereupon the bank filed a petition, as guardian of the minors, asking that, notwithstanding the funds in question to approve its application to act as fiduciary, the funds in question be awarded to it as guardian. This funds in question be awarded to it as guardian. petition was also dismissed and an appeal taken to the Superior Court which reversed the court below and from that decree we have the present appeals.

The act of Congress, approved December 13, 1913, (38 Stat. 251), gave the Federal Reserve Board power, inter alia, "to grant by special permit to national banks applying therefor, when not in contravention of State or local law, the right to act as trustee, executor, administrator or registrar of stocks and bonds under such rules and regulations as the said board may prescribe." It was thus left to the courts to ascertain whether in any given case, the exercise of the powers granted would be in contravention of State or local law. Difficulties arose in the construction of the act, resulting in its amendment in 1918 (act September 26, 1918, 40 Stat. 867) by permitting national banks to act as executor, administrator, trustee, guardian, etc., in all cases where 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 national bank is lo-cated," and also providing that "whenever the laws of such State authorize or permit the exercise of any or all of the foregoing powers by State banks, trust companies or other corporations which compete with national banks, the granting to and exercise of such powers by national banks shall not be deemed to be in contravention of State or local law within the meaning of this act." The statute contained a further provision that banks exercis-ing fiduciary powers should "segregate all assets held in any fiduciary capacity from the general assets of the bank and shall keep a separate set of books and records showing in proper detail all transactions engaged in under authority of this section * * * but nothing in this act shall be construed as authorizing the State authorities to examine the books, records and accounts of the national bank which are not held in trust under authority of this subsection." It also required that "funds deposited or held in trust by the bank awaiting investment shall be carried in a separate account and shall not be used by the bank in the conduct of its business, unless it shall first set aside in its trust department, United States bonds or other securities approved by the Federal Reserve Board." Numerous other administrative provisions are found in the Federal act that need not be referred to here.

The contention of the Commonwealth is that, to permit a Federal bank to act in a fiduciary capacity in this State, under the statutory provisions referred to, would amount to a violation of our laws. The act of May 21, 1919, P. L. 209 provides, inter alia, that the banking department shall have supervision of all corporations or persons receiving money on deposit for safe keeping, including banks in-corporated under the laws of the United States, which shall, pursuant to Federal law or regulations, be permitted to act in any fiduciary capacity and makes all such corporations subject to inspection and examination by the banking commissioner. By act of May 20, 1921, P. L. 991, it was provided that no person should have the right to appoint, in a fiduciary capacity any corporation other than a corporation organized and doing business under the laws of Pennsylvania and subject to the supervision and examination of the banking department of the State, or a corporation organized under the laws of the United States and doing business in Pennsylvania by resolution of its board of directors agreeing to place itself under and subject to the supervision and examination of the State banking department "in the same manner and to the same extent as corporations organized and existing under the laws of this State."

A comparison of the foregoing Federal and State acts shows the main points of difference are that the Federal statute allows inspection of the books and records of only that part of the assets of national banks as are received in a fiduciary capacity and requires them to segregate all assets held in a fiduciary capacity and prohibits commingling them with other assets in its business, unless it shall first set aside in the trust department United States bonds or other securities approved by the Federal Re-serve Board, while on the other hand the State acts authorize the supervision by the banking department of all assets of the corporation and forbids substitution of securities for the funds, but requires the companies, in all cases, to keep trust funds separate from its other assets and to indicate all investments made as fiduciaries, so that the trust to which the investment belongs shall be clearly known. It is argued this difference in the two provisions produces a conflict, making the Federal reserve act in direct violation of State law by permitting unin-vested funds to be mingled with the general assets and removing such funds from the inspection and supervision of State authorities. The Corn Exchange National Bank has complied with every provision of the State rules, regulations and laws, by consenting to the examination of all its assets by the State bank examiners and agreeing to keep trust securities on deposit in a separate bank. This voluntary compliance with State rules would, in itself, seem to render unnecessary a further discussion of the questions raised. Appellant contends, however, that the national bank can not, validly, agree to be bound by State law or by local rule of court, which is contrary or inconsistent with the Federal law and that, consequently, the question still remains whether it was not beyond the power of the bank to agree to comply with the State regulations where they are in conflict with Federal practice.

The answer to this contention is that insofar as the State law is inconsistent with the Federal act, the former must yield to the latter, even though the result may be to place upon Federal banks a benefit or burden not received or assumed by the State banks and trust companies.

The definition given in the Federal act as to what constitutes a violation of the State law takes no cognizance of the fact that certain administrative details in the regulations of Federal banks were different from those governing State institutions. The existence of these differences, however, is not sufficient to deprive a national bank of the enjoyment of its powers under the Federal law. The establishment of the Federal reserve bank was a matter within the scope of Federal power and a State can not, in any way interfere with the powers of such banks, except insofar as Congress has permitted it to do so. When the Federal act was passed Congress had knowledge of the fact that various States had adopted different laws and systems governing persons or corporations acting in a fiduciary capacity. Having this knowledge, they gave to the Federal Reserve Board power to prescribe regulations for the government of Federal banks. Regulations thus established are paramount to State rules and the latter must yield whenever a conflict arises. It was with knowledge of this situation and the existing difference between rules governing State and Federal banks that Congress undertook to define, by the act of 1918, what would be considered "in contravention of State law." It will be observed the definition refers

to "powers" only and not the rules governing the exercise of such powers. It is the right itself, not the rules governing the exercise of the right, to which reference is made. Concede the existence of the right in the State banks and trust companies and we have the same right bestowed upon national banks. Had Congress intended the latter to be governed by State laws in the exercise of the right given, surely expression of that intention would be found in the statute. In the absence of such utterance, we must assume Congress was satisfied with the rules already prescribed by the Federal Reserve Board. If these rules happen to conflict with State regulations on the subject, the latter must yield to the former because the right being conceded the power to regulate the exercise of the right would follow as a necessary incident. We believe this view is fully supported by the opinion in First National Bank v. Union Trust Company, 244 U. S. 416, and cases therein cited.

The decrees of the Superior Court are affirmed.

Fiduciary Powers Granted to National Banks.

During the month ending April 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.

3. 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.
Boston, Mass	1	Federal National Bank	1 to 9.
Newport, R. I	1	Aquidneck National Bank	5 to 9.
Rockvillé, Conn Rutland, Vt	1	Rockville National Bank.	1 to 9.
Rutiand, Vt	1	Clement National Bank	1 to 3, 5
Trimeter NI 37		State of New York No.	to 7.
Kingston, N. Y	2	State of New York Na- tional Bank.	1 to 9.
Long Beach, N.Y	2	National Bank of Long	1 to 8.
Long Deach, N. 1	2	Beach.	1 10 5.
Middletown, N.Y	2	First National Bank	1 to 9.
Utica, N. Y	$\tilde{2}$	First National Bank	
Carlstadt, N. J	2	Carlstadt National Bank.	
Jersey City, N. J	$\tilde{2}$	Bergen National Bank	
Summit N I	$\tilde{2}$	First National Bank	1 to 9.
Summit, Ň. J Orange, N. J	2	Brick Church National	1 to 9.
orange, meeting	-	Bank.	
Chester, Pa	3	Pennsylvania National	1 to 9.
,		Bank.	
Philadelphia, Pa	3	National Bank of North	1 to 9.
		Philadelphia.	
Cynthiana, Ky	4	The National Bank	1 to 5, 7
			to 9.
Mount Vernon, Ohio	4	The Knox National Bank.	1 to 7
			and 9.
Parkersburg, W. Va	5	Second National Bank	1 to 9.
De Funiak Springs, Fla.	6	First National Bank	
Gallatin, Tenn	6	First & Peoples National	1 to 9.
		Bank.	
Sycamore, Ill	7	Citizens National Bank	
Rising Sun, Ind	7	The National Bank	
Little Falls, Minn	9		
Houston, Tex	11		
Santa Ana, Calif	12	First Naitonal Bank	1 to 9.
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VELOCITY OF BANK DEPOSITS.¹

For 40 years bank clearings have been used as an index of business activity. They were among the earliest of the statistics of business to be compiled on a monthly basis and for this term of years they have furnished perhaps the most accurate single index available of the comparative volume of business transactions at different periods.

These bank clearings figures have had, however, a number of limitations to their usefulness, especially when one considers them as an index of changes in the banking and credit situation. In the first place their scope has left room for question as to their meaning. They include only checks passing through clearing houses and do not include counter checks. They include drafts drawn by bankers against their own balances, which do not reflect business activity as directly as do checks drawn by individuals. These defects in the returns were corrected in the middle of 1918, when the Federal Reserve Board and banks inaugurated a series of weekly reports, from the banks of clearing-house centers, of the total amount of checks drawn and other debits to individual accounts. The actual change in the magnitude or movement of the figures reported as compared with clearings was smaller than might have been anticipated, but the inauguration of the new form of report gave us much more clearly defined figures.

A second hindrance to a complete interpretation of clearing-house figures from the banking point of view is found in the fact that clearings and the new debits reports also reflect two different elements-changes in the amounts of bank deposits and changes in the velocity or rate of turnover of such deposits. When we wish to consider the possibility of credit expansion existing in any situation it makes a good deal of difference whether a high figure for bank clearings is due to large bank deposits, or whether it is due to an exceptionally rapid turnover of deposits. The distinction becomes of still greater importance when the subject under consideration is the relation of the volume of credit to the price level.

The desirability of measuring velocity more accurately may be gathered from the following quotation from an address to the stockholders of his bank made in January, 1922, by the Hon. Reginald McKenna, chairman of the London Joint City and Midland Bank:

If it were possible accurately to measure the velocity of circulation of money in 1921, as compared with 1920, I think it would be found that there was a decline last year of at least 40 per cent, a diminution which, while it did not affect the total of bank deposits, caused a fall in prices and was largely responsible for the great reduction in trade and trade profits.

Until recently there has been no instrument for measuring currently the velocity or rate of turnover for bank deposits. The most comprehensive study of the subject is contained in Prof. Irving Fisher's "Purchasing Power of Money." On the basis of the incomplete data available at that time, Professor Fisher made an estimate of the velocity of deposits in the United States in the years 1896 and 1909, and on the basis of these figures interpolated data for the intervening years and in later articles extrapolated the figures for a number of succeeding years. This study was entirely on an annual basis, however, and depended on a number of hypotheses which were not at that time verifiable.

A more precise and more current measure is now made possible by the comprehensive statistical returns received each week by the Federal reserve banks from a selected group of 800 member banks in principal centers. Utilizing these figures, a computation has been made of the velocity of deposits for several groups of banks.

METHOD OF COMPUTATION.

The final figure desired was the annual rate of turnover of deposits or the following fraction:

Annual amount of debits to individual accounts

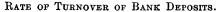
Average demand deposits of individuals

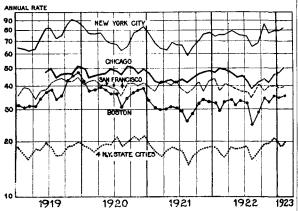
The first step in the computation was to select groups of banks which reported to the Federal reserve banks both the figures for debits to individual accounts and net demand deposits. Reports of debits to individual accounts are made by members of clearing houses in the different cities, while the available reports of net demand deposits are for selected member banks in the different cities. The banks in these two groups are not identical, and hence it was necessary to deal with the figures for individual banks.

¹ This article, by W. Randolph Burgess, of the Federal Reserve Bank of New York, presents the results of a study made by the reports department of the Federal Reserve Bank of New York, with the help of the statistical offices of the Federal reserve banks of Boston, Chicago, and San Francisco. Acknowledgment is made to Prof. Irving Fisher and Prof. E. W. Kemmerer for counsel, to Mr. J. H. Riddle, and to Mr. Clark A. Warburton. Summary results of the study have been reported currently in the Monthly Review of the Federal Reserve Bank of New York.

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In order to secure a comparable series of figures showing changes from time to time, it was desirable to have these figures on a monthly basis. Two major steps were necessary to yield the equation given above for each month. In the first place, debits to individual accounts are reported by weeks and have to be converted to an annual rate for each month, taking account of holidays and the length of the month. In the second place, certain sub-tractions had to be made from both the debits and the demand deposits in order to make them strictly comparable with each other. Figures for debits include withdrawals of time deposits and also Government withdrawals. An estimate was made of the amount of withdrawals against time deposits each week by securing from six New York City banks, for a number of different periods, records of their withdrawals of time deposits. It was found that time deposits in these banks were turning over about twice a year. The debits were corrected on the assumption that about this rate of withdrawal of time deposits is maintained consistently. Figures for Government withdrawals were secured from the records of the Federal reserve banks and these figures subtracted from the debits.





The adjustments necessary in the debits to individual accounts figures were comparatively small in size, and fluctuations one way or the other have but little effect on the final results. There is considerably more room for differences of opinion and for error in computing the figure to be used for demand deposits. The figure desired to compare with debits to individual accounts is the amount of individual deposits, and for the purpose of the current computation the figure has been limited to demand deposits. There is no figure reported currently showing segregated the demand deposits of individuals.

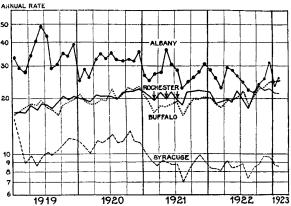
The figure which comes nearest is that for net demand deposits. The make-up of this figure is best shown by quoting the method of computation from the weekly condition report:

Net demand deposits on which reserve is com- puted	 	
Individual deposits subject to check, certifi- cates of deposit due in less than 30 days, divi- dends unpaid, State and municipal deposits, and other deposits subject to notice of less than 30 days, exclusive of United States Government deposits.		
Plus excess of total of— (a) Balances due to all banks other than Federal reserve bank, foreign banks		
included. (b) Amount due to Federal reserve bank— Deferred credits.		
 (c) Cashier's, secretary's, or treasurer's checks on own bank outstanding. (d) Certified checks outstanding. 		
Over the total of— (e) Balances due from banks other than Federal reserve bank and foreign		
banks. (f) Items with Federal reserve bank in proc- ess of collection.		
(g) Exchanges for clearing house.(h) Checks on other banks in the same place.		

NOTE.—In case the sum of items (e) to (h), inclusive, is in excess of the sum of items (a) to (d), disregard items (a) to (h) in making up total of net demand deposits.

Since debits to individual accounts do not include checks drawn against bank balances, such figures must be excluded from the de-

RATE OF TURNOVER OF BANK DEPOSITS.



posits as well. The amounts due to banks and due from banks are reported separately; so that a deduction can be made for these items.¹ No adequate allowance, however, can be made for items b, c, and d, and f, g, and h, which are used in computing net demand deposits. The procedure has been to deduct from net demand deposits the net amount due to banks—that is, the excess, if any, of due to banks over due from banks. No attempt has been made to

 1 In the case of New York City these figures were available for individual banks. For other centers they were estimated from the percentage of the net amounts due to banks to net demand deposits for all the banks reported.

correct for the items b, c, d, and f, g, h, but a study of the results of not making any such correction indicates that in those cities where the amount due to banks exceeds the amount due from banks, the adjusted net demand deposits figure which is used for this computation tends to be slightly lower than the true figure for demand deposits of individuals. The amount by which it is lower is the excess of items f, g, and h over items b, c, and d, or, to put it another way, demand deposits are reduced by a part of the uncollected checks and other similar items which the bank holds or has presented for collection. This reduction may be justified by the fact that such uncollected checks may not in theory be drawn against and hence are a proper deduction from deposits subject to check. The practice of different banks in this matter is so varied that no safe estimate can be made of the proportion of uncollected items which should be deducted from deposits, but the deduction made in this computation appears to be a reasonable one.

In cities where the item "Due to banks" is not as large as the item "Due from banks," the figures for net demand deposits are under ordinary circumstances the same as total demand deposits. This condition held in only two of the cities studied, Rochester and Syracuse, and tends to make the velocity figures computed for these cities slightly smaller than they would be if the computation could be made on exactly the same basis as the figures for the larger centers.

The various steps in the computation of velocity are shown in the accompanying working sheet for 42 New York City banks. VELOCITY IN EIGHT CITIES, 1919-1922.

P The annual rate of turnover of individual demand deposits for representative groups of banks in eight cities is shown in the accompanying diagram and table. The diagrams are drawn on a logarithmic scale in order that the percentage fluctuations in the lines representing velocity in different cities may be directly comparable. The use of this scale tends to distort somewhat the contrast in rate of velocity between the different cities, but shows more truly the relative size of fluctuations.

It is notable that the rate of turnover in New York City is much more rapid than in any other city reported, ranging from about sixty times a year to about ninety times a year. Chicago ranks second among the cities reported, with a rate of turnover of deposits between forty and fifty times a year. San Francisco, Boston, and four up-State New York cities follow in the order named. Syracuse shows the slowest rate of turnover, reaching, in August, 1921, a rate as low as seven times a year. It is clear that the rate of turnover bears some relation to the size of the city and its population, although there are a number of cases in which the order of ranking of the cities in velocity is different from their order in size of population. The population of Boston, for example, is considerably larger than that of San Francisco and the population of Buffalo is practically as large as that of San Francisco. The velocity of deposits in both Boston and Buffalo is less than in San Francisco. There are clearly other influences affecting the rate

WORKING SHEET FOR COMPUTING VELOCITY OF BANK DEPOSITS IN 42 NEW YORK CITY REPORTING BANKS.

	1	2	3	4	5	6	7	8		9	10	11	12
Week ended.	Debits to individual accounts; total for each week.	÷26	drawals each week (to be	Revised debits for each week.	Total debits each month,	Num- ber of work- ing days in each. month.	A verage daily debits.	Annual rate of debits, col. 7×302 (working days in year).	Date.	Net demand deposits.	Net due to banks (to be sub- tracted).	Revised demand deposits (average).	Annual rate of turn- over of deposits (col. 8+ col. 11).
1922. Jan. 4 Jan. 11 Jan. 18 Jan. 25 Feb. 1	\$4, 529, 355 4, 592, 367 4, 766, 247 3, 933, 296 4, 233, 272	\$ 7, 120 7, 370 7, 196 7, 367 7, 333	\$5, 884 16, 884 6, 233	\$4, 522, 235 4, 579, 113 4, 742, 167 3, 919, 696 4, 225, 939	\$18,571,486			\$224,343,418	1922. Jan. 4 Jan. 11 Jan. 18 Jan. 25	\$3,866,822 3,850,902 3,788,338 3,754,903	799.187	\$3,023,130	74.2

[000 omitted, except columns 6 and 12.]

COMMENTS.—Column 2: An investigation in 6 New York City banks showed that time deposits turned over on an average about twice a year. Checks drawn against time deposits each week therefore amount to about 2/52, or $\frac{1}{12}$, of the amount of time deposits. Column 5: In arriving at the monthly figures, the debits for weeks at the beginning and end of the month are included in proportion to the number of working days falling within the month. For example, $\frac{1}{2}$ of the debits of the week ended January 4 and $\frac{1}{2}$ of the debits of the week ended February 1 are included in January. Column 10: This column is the excess of "Due to banks" over "Due from banks." If there is no excess, no correction is made.

of turnover besides size of population. Among the most important of these factors should probably be listed the size of the population in the immediate environment of the city and the character of the city as a financial center. The factor which correlates most closely with velocity is the amount of bank deposits. This relationship will be presented more fully later in this paper.

A second striking feature of the figures is the distinct seasonal movement in the velocity of deposits. In New York, for example, deposits turn over most rapidly in November and December, accompanying the heavy volume of retail trade preceding Christmas. In most years there is a secondary peak early in the summer, at the time when summer purchases are being made. The seasonal movement in Boston is closely similar to that in New York. In Chicago and San Francisco there is apparently no distinctive seasonal movement. The four up-State New York cities combined show a movement somewhat like that in New York City, but with less violent fluctuations. The diagram, which segregates the figures for these four different cities, indicates that the most striking fluctuations are in the case of Albany, which appears to experience a high peak of velocity in May or June of each year and a secondary peak in December.

The fluctuations shown in the diagrams for the past two years are clearly the result not simply of seasonal changes, but also of changes in the business situation. In most of the cities for which figures are available, velocity was at its highest in the latter part of 1919 or in the latter part of 1920. The figures for 1921 were almost universally low, and the greatest inactivity appears to have been reached in mid-summer of 1921. A considerable recovery has taken place since that time, particularly in the past few months.

VELOCITY IN THE UNITED STATES AS A WHOLE.

From the figures which have been computed for the velocity of deposits in eight cities it is possible to learn something of the velocity of deposits in the country as a whole, although the eight cities are not sufficiently representative to give a basis for anything more than an approximate figure for the country.

For the eight cities the average velocity, weighted by the amount of total bank deposits as reported in the Bankers' Encyclopedia, was 61 for the year 1920 and 56.9 for the year 1921. Even a casual inspection of the figures, however, makes it clear that this average is too high | as a whole reported in the Bankers' Encyclo-

to be representative of the country as a whole. The cities included in the computation are mostly large cities, which are to a considerable degree financial centers, and it is clear that the rate of deposit turnover tends to be more rapid in large cities and financial centers than in smaller communities.

In an effort to discover some general relationship, the rate of turnover in these eight cities has been compared with other factors, such as population, bank deposits, and bank deposits per capita. Of these three factors, the one showing the highest correlation with velocity was bank deposits. For seven of the cities (excluding Albany, which appears to be an exceptional case) the correlation between velocity and deposit figures was very close.

On the basis of the data for the seven cities (excluding Albany), an attempt has been made to estimate the velocity of deposits in other cities for which the only available data are those for bank deposits. The largest group of cities for which we have these figures is that published in the Bankers' Encyclopedia including 282 clearing-house centers and giving deposit figures for about December, 1921. The list includes 107 of the 134 cities of 50,000 or more inhabitants and includes also 175 cities of less than 50,000 inhabitants. Any average velocity computed from this list would un-doubtedly be too large to be representative of the country as a whole, but it would be one step nearer to a country-wide figure than the weighted average computed simply from the eight cities.

On the assumption that velocity in these 282 clearing-house centers bears the same relation to deposits as in the seven cities studied, velocity figures have been estimated. The The bank $\mathbf{24}$ cities reporting deposits over \$100,000,000 were treated individually. The remaining cities were divided into seven groups and a velocity figure for each group estimated. An average velocity for all the 282 cities was then computed, weighting the velocity of each group in accordance with the total amount of bank deposits in the group. The resulting figure is 36. The large amounts of bank deposits in such centers as New York, Chicago, and Boston give a weight to the high velocity in those cities which offsets in considerable degree the very low velocity for cities with deposits under \$100,000,000.

The 282 clearing-house centers used in this computation showed on December 31, 1921, total deposits of about \$26,000,000,000, as compared with total deposits for the country

pedia at \$40,600,000,000. A minimum estimate of velocity for the country as a whole may be secured by assuming that the velocity in all centers not included in our tabulations was zero. The computation on this basis gives a velocity figure of 23.6.

On the basis of the foregoing computations it is probable that in 1920 and 1921 the velocity of circulation of individual demand deposits was at a rate somewhere between 25 and 35 a year.

SUMMARY.

(1) Figures now collected by the Federal reserve banks make it possible to separate the two elements entering into the volume of checks drawn, changes in the amount of individual bank deposits, and changes in the rate of turnover of deposits.

(2) The rate of turnover of deposits computed for groups of banks in 8 cities, for each month since January, 1919, ranges from a minimum of seven times a year in Syracuse to ninety times a year in New York City.

(3) Different cities reflect quite differently changes in seasonal demands for funds and cyclical changes in business.

(4) Velocity for the country as a whole in 1920 and 1921 is estimated at somewhere between twenty-five and thirty-five times a year.

ANNUAL RATE OF TURNOVER OF BANK DEPOSITS.

Year.	New York City.	Al- bany.	Buf- falo.	Roch- ester.		Total 4 up- State cities.	Bos-	Chi- cago.	San Fran- cisco.
	39 banks.	3 banks.	10 banks.	3 banks.	6 banks.	22 banks.	11 banks.	14 banks.	6 banks.
1919. January February March April May June July August September October November December	64. 7 63. 6 62. 1 63. 7 72. 4 81. 2 81. 3 72. 6 74. 5 85. 4 91. 3 89. 5	33. 0 29. 1 27. 4 34. 2 40. 6 49. 0 43. 1 28. 9 30. 3 35. 0 33. 8 39. 2	16.5 17.0 17.8 18.8 18.4 19.4 17.9 17.5 16.5 18.4 19.0 19.7	$\begin{array}{c} 16.7\\ 17.0\\ 16.7\\ 18.4\\ 17.5\\ 18.9\\ 18.5\\ 17.7\\ 19.2\\ 20.6\\ 19.6\\ 20.4 \end{array}$	$\begin{array}{c} 15.3\\ 11.4\\ 9.0\\ 9.8\\ 8.6\\ 9.7\\ 10.2\\ 9.9\\ 10.4\\ 11.5\\ 12.2\\ 12.1 \end{array}$	18.8 17.1 16.0 18.2 18.0 19.8 18.6 16.6 16.8 18.7 18.8 19.7	$\begin{array}{c} 31.7\\ 30.5\\ 31.4\\ 31.2\\ 34.2\\ 37.3\\ 38.2\\ 33.8\\ 35.4\\ 42.9\\ 45.1\\ 47.6 \end{array}$	47. 8 50. 2 44. 3 46. 4 47. 0 46. 5 51. 3	$\begin{array}{c} 35.5\\ 39.6\\ 39.0\\ 34.0\\ 38.0\\ 38.5\\ 41.9\\ 43.1\\ 44.2\\ 42.8\\ 42.5\\ 44.9\end{array}$
1920. January February March April May June July August September Occober November December	83.1 77.0 76.6 77.3 70.6 68.7 67.1 62.7 66.0 77.5 79.1 83.8	24.6 28.7 32.5 34.6 32.9 35.0 32.1 31.8 32.6 31.8 31.8 35.9	21.0 19.4 18.6 18.8 19.9 19.4 22.3 19.9 21.1 22.8 22.2 23.1	20.0 19.6 19.2 20.9 20.5 20.6 20.4 19.8 21.4 21.9 21.9 22.5	$\begin{array}{c} 11.6\\ 10.8\\ 10.0\\ 11.7\\ 11.4\\ 11.7\\ 12.8\\ 11.4\\ 11.6\\ 13.2\\ 11.6\\ 11.5\\ \end{array}$	$18.9 \\18.5 \\17.4 \\18.9 \\19.5 \\19.2 \\21.0 \\19.9 \\21.2 \\20.5 \\21.3 \\$	42.5 37.4 38.0 39.4 38.0 36.1 36.2 30.8 34.4 37.0 38.0 39.0	$50.0 \\ 44.1 \\ 45.3 \\ 46.3 \\ 47.0 \\ 49.7 \\ 48.2 \\ 46.3 \\ 51.5 \\ 50.8 \\ 46.9 \\ 49.4 \\ 19.4 \\$	40.9 42.6 43.1 40.3 40.7 39.4 38.5 35.4 41.6 41.6 40.2 41.8

ANNUAL RATE OF TURNOVER	OF BANK	DEPOSITSCon.
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Year.	New York City.	Al- bany.	Buf- falo.	Roch- ester.		Total 4 up- State citics.	Bos- ton.	Chi- cago.	San Fran- cisco.
	39 banks.	3 banks.	10 banks.	3 banks.	banks.	22 banks.	11 banks.	14 banks.	6 banks.
1921. January February March April May June July August September October December	$\begin{array}{c} 76.3\\ 68.0\\ 64.1\\ 62.9\\ 68.7\\ 66.2\\ 66.2\\ 58.7\\ 65.7\\ 70.4\\ 75.7\\ 77.1 \end{array}$	26. 4 24. 8 27. 0 27. 4 36. 8 30. 5 28. 1 22. 5 24. 4 26. 0 27. 7 30. 5	20. 9 19. 2 16. 9 18. 2 18. 0 18. 3 19. 2 16. 1 17. 8 19. 9 19. 9 20. 2	21.7 20.3 19.3 21.5 19.8 21.4 19.6 18.3 21.4 21.8 22.0 21.8	10.1 9.2 8.6 9.1 8.9 8.6 8.8 7.0 8.1 9.0 9.8 9.1	19. 1 17. 8 16. 7 17. 9 18. 6 18. 0 17. 8 14. 9 16. 7 18. 1 18. 5 18. 8	33. 5 30. 9 30. 0 31. 1 29. 3 25. 9 28. 2 32. 2 33. 6 32. 8	$\begin{array}{r} 46.4\\ 42.4\\ 41.3\\ 42.7\\ 43.3\\ 42.0\\ 43.6\\ 41.5\\ 44.1\\ 46.6\\ 47.4\\ 48.4\end{array}$	39. 4 37. 7 42. 8 42. 4 40. 2 42. 3 38. 9 36. 7 38. 6 42. 2 37. 4 42. 8
1922. January February March April May June July August September Docember	$\begin{array}{c} 74.2\\ 75.2\\ 75.4\\ 79.9\\ 77.8\\ 75.7\\ 74.2\\ 65.2\\ 68.6\\ 86.3\\ 77.4\\ 79.9\end{array}$	28.5 25.4 22.4 29.4 28.6 26.2 24.3 22.1 21.6 24.0 25.8 31.4	$\begin{array}{c} 20.1\\ 18.9\\ 18.0\\ 19.5\\ 19.7\\ 20.2\\ 21.9\\ 18.3\\ 20.4\\ 22.6\\ 23.0\\ 24.5\\ \end{array}$	21.7 18.9 19.2 19.9 19.1 22.0 19.7 17.8 21.1 23.6 22.3 22.7	8.3 8.2 9.2 8.4 8.5 8.8 7.3 8.4 8.8 7.3 8.4 9.7 9.6	$\begin{array}{c} 18.6\\ 17.3\\ 16.4\\ 18.6\\ 18.1\\ 18.3\\ 18.7\\ 15.9\\ 17.5\\ 19.3\\ 19.6\\ 21.0 \end{array}$	$\begin{array}{c} \textbf{32.4}\\ \textbf{29.6}\\ \textbf{32.7}\\ \textbf{33.6}\\ \textbf{33.4}\\ \textbf{32.3}\\ \textbf{24.7}\\ \textbf{28.6}\\ \textbf{34.3}\\ \textbf{32.5}\\ \textbf{35.4} \end{array}$	$\begin{array}{r} 47.3\\ 49.7\\ 49.3\\ 47.1\\ 44.5\\ 45.6\\ 41.7\\ 38.4\\ 41.9\\ 43.7\\ 41.4\\ 45.9\end{array}$	43.9 37.7 41.2 39.4 37.3 37.6 37.1 34.4 40.7 37.4 39.7 39.9
1923. January February March	79.9 82.3 84.0	23, 5 26, 0 23, 9	$24.6 \\ 25.1 \\ 24.2$	21.4 21.4 21.4	8.7 8.6 9.7	19.2 20.0 19.8	34.7 35.7 38.0	47.0 50.3 46.4	39.0 39.7 42.6

COTTON FINANCING.

IV. FINANCING AMERICAN COTTON EXPORTS.¹

Methods of financing the production of cotton and its marketing within the United States were described in previous sections of this study. It is the purpose of this article to analyze the importance of cotton in American foreign trade; to describe the methods of financing the exporter and of supplying credit in the importing country as the cotton awaits consumption; and to discuss the changes that were introduced during and since the war to facilitate the movement of cotton to foreign consumers.

A. COTTON IN AMERICAN FOREIGN TRADE.

The United States produces on the average about 60 per cent of the world's cotton crop. Approximately 35 per cent of the cotton pro-

articles appeared in the BULLETINS for February, March, and April, 1923. Data upon which this study is based were obtained largely from information furnished by banks in the leading cotton-exporting cities, cottonexporting firms, sections of the reports of the World Cotton Conferences, New Orleans, 1919, and Liverpool and Manchester, 1921, and reports of Government agencies. To all of the contributors acknowledgment is due, especially to Mr. John J. Sample, of the Guaranty Trust Co. of New York, whose cooperation was very valuable.

¹ This is the fourth of a series of articles describing the methods of financing the production and distribution of cotton. The preceding articles appeared in the BULLETINS for February, March, and April, 1992

duced within the United States prior to 1913 was consumed by domestic mills and 65 per cent was exported. Since the beginning of the war domestic consumption has increased and the average consumption for the nine years, 1913–1922, was approximately one-half of the cotton produced and the remainder was exported.

Raw cotton has been one of the chief exports from the United States since the beginning of the producing industry. Small quantities had been sold to foreign countries from time to time before the Revolutionary War, but regular commerce did not begin until 1784. In that year 8 bags were exported to England. The development of the cotton-manufacturing industry in Great Britain during the last decades of the eighteenth century caused an increased demand for cotton, and exports increased gradually from 1784 to 1793, when more than 3,000 bales were exported. The invention of the cotton gin in 1793, combined with inventions and improvements in the cotton-manufacturing industry in England, gave a renewed impetus to the cotton-producing industry, and since that time cotton has been one of the chief commodities in American foreign trade. In 1800 the value of cotton exported was \$5,000,000, or 15.7 per cent of the total American exports; in 1913 cotton constituted 22.5 per cent of the value of all exports, but in 1921 the percentage exported, due mainly to disturbed economic conditions in Europe and to a rapid shrinkage in the value of raw cotton, was only 12.2 per cent. The value of all exports, cotton exports, and percentage of cotton to total exports, for selected years 1800-1921, are shown in the following table:

VALUE OF COTTON EXPORTS,	ALL EXPORTS,	AND PERCENT-
age of Cotton to Total, S	ELECTED YEAR	s 1800–1921. ¹

Year.	Value of cotton ex- ports (000 omitted).	Value of all exports (000 omitted).	Percentage of cotton to total.
1800 1810 1830 1830 1830 1870 1900 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920	15, 108 71, 985 227, 028 241, 833 450, 447 585, 319 567, 357 610, 475 376, 218 374, 186 543, 075 665, 025 1, 137, 371 1, 136, 409	\$31, 841 42, 367 134, 900 376, 616 1, 370, 764 4, 2013, 549 2, 170, 320 2, 428, 506 2, 229, 684 2, 716, 178 6, 227, 164 5, 338, 652 7, 749, 816 8, 080, 481 4, 378, 928	15. 70 35. 66 53. 36 60. 28 17. 64 29. 07 22. 54 26. 20 13. 85 8. 76 8. 72 11. 39 14. 68 14. 66 12. 20

¹ Fiscal years to and including 1918; subsequently, calendar years.

While the domestic cotton-manufacturing industry has developed rapidly and is consuming yearly large quantities of domestic cotton, foreign markets are still the principal consumers of the American crop and, therefore, are important in determining the economic situation of the cotton producers of the Southern States. The cotton-producing industry has expanded to meet the increased demand from cotton manufacturers, and the economic welfare of both is closely interwoven. The early expansion of the industry and the development until the beginning of the Civil War were to meet the increased demand from abroad. From 1870 to 1913 exports were approximately 65 per cent of the annual production, but since 1913 domestic consumption has been increasing and total exports have been slightly smaller. The importance of foreign markets to the cotton-producing industry is indicated in the following table, which shows the yearly production, exports, and percentage of cotton exported for selected years from 1800 to 1921:

AMERICAN COTTON PRODUCTION, EXPORTS, AND PER-CENTAGE OF COTTON EXPORTED, SELECTED YEARS 1800-1921.1 ſ

Year.	Produc- tion (000 omitted.)	Exports (000 omitted).	Percentage
	Bales.	Bales.	
1800	73	42	57.5
1810	178	124	69.
1850	2,136	1,854	86. 8
1870	4,025	2,923	72.0
1900		6,807	66.
1910		8,206	66.
1911		10,681	68.
1912	14, 313	9, 199	64.
1913		9,256	62,
1914		8,931	52.
1915	12, 123	6,406	52.
1916	12, 781	5,964	46.
1917		4,587	36.9
1918	12, 970	5,664	43.
1919		6, 761	56.
1920	13, 880	6,026	43.
1921	8,351	6, 476	2 77.

¹ Statistical Abstract, Bureau of Foreign and Domestic Commerce; and Cotton Production and Distribution Bulletins, Bureau of the Census. ³ The high percentage in 1921 is due largely to the small crop of that year, as total exports showed an increase over the preceding year.

As foreign spinners were the most important consumers of American cotton prior to the World War, customary methods of exporting had their inception in the early days of the industry, and the machinery for handling the exports was gradually developed to meet the needs. The yearly exporting period had closely followed harvesting and movement to mar-kets within the United States. A study of the periods of exporting for the 10 years, 1912-13

to 1921–22, shows that prior to the war more than 65 per cent of the cotton was exported during the months of September, October, November, December, and January; that during the war the percentage exported in these months was approximately 55 per cent, and since the war the exports have tended to become more regular, as 45 per cent was exported during the five corresponding months. The percentage of cotton exported, by months, from 1912–13 to 1921–22, inclusive, is shown in the following table:

PERCENTAGE DISTRIBUTION OF COTTON EXPORTS, BY MONTHS, 1912-13 TO 1921-22.

[Linters included.]

	191213	1913–14	1914-15	191516	1916-17
August	2.84	2, 81	0.25	2,62	7.41
September	8,30	10.17	1.47	8,10	9.40
October	17.24	16.59	5,82	10, 91	13.88
November	19.73	16.40	8.91	8.47	12.78
December	15.82	13.45	14.07	9.02	13.34
January	10.24	11.50	16.06	8.71	10.47
February	6.04	8.21	17.57	11.37	6.23
March	4.23	7.60	14.14	7.49	6.19
April	6.08	4.35	7.87	8.44	4.74
May	5.33	4.31	7.20	8.24	6.55
June	2.55	3.23	3.78	8.88	4.28
July	1.60	1.38	2.86	7.75	4.73
	1917-18	191819	1919-20	1920-21	1921-22
August	10.27	5.08	7.26	2.53	6.70
September	10.14	6.47	3.59	3.93	8.26
October	11.86	6.78	5.34	10.07	13.85
November	9.35	6.18	14.01	11.79	10.27
December	10.66	10.39	13.29	13.62	10.13
January	10.33	11.62	14.09	10.44	7.53
February	8.04	7.94	9.70	8.51	5.36
March	6.96	8.90	12.04	6.47	7.31
April	4.87	$7.27 \\ 7.85$	8,28	5.52	9.47
	6.52		5.53 3.66	8.24 8.55	7.43
May June July	$\begin{array}{c} 6.11 \\ 4.89 \end{array}$	$12.18 \\ 9.34$	3.00 3.21	10.33	5.91

Principal export markets.—The principal export markets for American cotton before the war were England, Germany, France, Italy, Austria, and Spain. Other countries of Europe were important consumers of cotton, but the ones mentioned were the most important and the South looked to them to consume her surplus of raw material. At the outbreak of the war the regular channels of commerce were disorganized and central Europe, including Germany, was almost entirely cut off from the American markets, and since then new markets have been sought to take the surplus that was formerly taken by Germany and Central Europe. Although Japan did not begin taking American cotton until the last decade of the nineteenth century, she gradually increased her takings until 1910, but it was during the years 1910 to 1922 that her American cotton imports

increased from 95,000 bales to 895,000 bales. The increased exports to Japan since the beginning of the war have partly offset the reduced demands of Germany and central Europe. In addition, larger quantities of cotton were taken by the neutral countries of Europe during the war than before that period, a factor which further tended to reduce the surplus caused by decreased consumption in belligerent Europe.

In spite of the fact that Germany has increased her cotton imports since the war, almost all countries of Europe are suffering from disturbed economic conditions, and as a result cotton has been imported and financed under conditions which are quite different from those in pre-war years. Since 1920 exports to the United Kingdom have decreased from 3,445,000 bales in that year to 1,787,000 in 1921 and 1,807,000 bales in 1922. This has been due partly to the decreased demand from Europe for English yarns and cloth resulting from reduced purchasing power of continental consumers, and also to increased imports of cotton into English markets from other producing countries of the world.

Methods of shipping cotton abroad.—Methods of distributing cotton abroad have developed with the growth of the producing and manufacturing industries. Prior to the Civil War, when cotton was grown by large planters, consignments for sale were often made to English merchants who had extended credit to the producers. The planter would thereby liquidate his obligations to the merchant and receive additional supplies or build up credit with the merchant, to be used in producing the next crop. The plan was similar to that in use in some sections by planters and factors in marketing and financing the crop under present conditions. conditions. Cotton was also distributed through factors who consigned it to agents abroad, who in turn disposed of it to spinners. After the war between the States the cotton exchanges of Liverpool, New York, and New Orleans were organized, and as new methods of marketing cotton in the United States developed changes in the methods of exporting were evolved.

The English spinners procure their cotton through channels similar to those by which the raw fiber makes its way into the hands of American spinners. Cotton is shipped to Great Britain by three classes of dealers: (1) By American shippers, who consign it to Liverpool merchants; (2) by buyers sent out from Liverpool and Manchester houses; or (3) by American firms which have branch offices in England.²

The importing merchant does not always deal directly with the spinner. The customary method of disposing of cotton in Liverpool is through a selling broker. The spinner usually employs a buying broker, who assembles samples of the required grade to be inspected by the spinner on his weekly visit to Liverpool. The spinner who purchases cotton in this manner usually has one or two buying brokers with whom he deals. The selling broker, repre-senting the importer, and the buying broker, representing the spinner, each receive a commission, generally of one-half of 1 per cent of the value of the cotton. In Manchester the importers, who have head offices there, usually serve as merchants and deal directly with the spinners. Importers of Liverpool often have agents at Manchester and the method of dealing with spinners is similar to that used in Liver-While some merchants sell several kinds pool. of cotton, others handle only a special type, such as long-staple cotton from the Mississippi Delta, or some other special grade.

Unless the market is very favorable the English spinner seldom buys a large stock of cotton early in the season. He usually buys to cover yarn sales, and few mills have warehouse accommodations for more than one or two months' consumption. Importers and merchants maintain large warehouses at Liverpool and Manchester, where cotton is held pending delivery. Spot cotton is usually bought by the spinners for immediate delivery, although contracts for future deliveries of so much per month are often made. These contracts for future delivery often extend over several months. Price for spot cotton is generally determined by the current quotations, but for future deliveries it is often arranged that the spinner shall pay a certain number of points "on" or "off" the Liverpool cotton exchange quotation at the time he receives the cotton or at whatever time he designates. The actual payment for the cotton may not be made until 60 days after delivery, but shorter terms are more commonly used.

Formerly European spinners obtained large quantities of cotton through Liverpool, but the markets of Bremen and Havre have become important distributing points on the Continent. The German and central European mills are supplied mainly through Bremen,

while the French mills purchase most of their cotton through Havre. While prior to the war some German spinners bought part of their material directly in America and some was consigned to Bremen by American shippers to be sold on commission, the bulk of the cotton was handled by Bremen importers and merchants who disposed of it through agents located in the manufacturing centers. French spinners also formerly bought part of their supply directly from American shippers, but the bulk of the American cotton is now bought from Havre merchants through agents residing in the mill districts. Havre merchants buy the cotton from importers and American shippers, generally through the medium of brokers. In view of the disturbed financial conditions which have prevailed in Europe since the war, the old-established methods of importing and financing cotton have been changed. Some cotton is still consigned by American shippers to agents and importers, but mills have been unable to take large quantities of cotton, and consequently new methods of selling and distributing cotton have been introduced, with which the problem of financing is closely interwoven.

B. FINANCING COTTON EXPORTS.

The problem of financing American cotton that enters international trade can be divided into two parts-(1) that which relates to the handling of the transaction in the exporting country, and (2) that which deals with the credit arrangement that is used by the importer in establishing credit to make cotton purchases and financing the shipment until it reaches the spinner. Shipments from the United States follow demands from abroad and the initial steps in arranging credits are taken by the importer with his bank in the importing country. But, as the problem is largely one of exports from the standpoint of the United States, it is advisable to analyze, first, the steps in financing exports and, second, the methods used by importers in establishing financial connections to make their purchases and to finance the cotton after it arrives and while it awaits consumption. In order to discuss the problem from the standpoint of the exporter it must be assumed that the initial steps for financing the transaction have been taken by the importer.

As England is the greatest consumer of American raw cotton the methods of financing exports have developed from practices that had their inception in the London discount

² This description of the methods of distributing cotton in Great Britain and on the Continent is based in part upon "The Cotton Manufacturing Industry of the United States," Chapter XXI, p. 354, by M. T. Copeland.

market and the Liverpool cotton market. Formerly three principal plans were used in financing cotton to the United Kingdom and to the Continent, namely, (1) bankers' commercial credits; (2) importers' acceptances; and (3) spinners' acceptances. These methods are still used in financing sales to England and to a large extent to some countries on the Continent, but new methods have been established to finance sales to the countries of Europe that have been undergoing disturbed financial conditions resulting from rapidly depreciating currencies.

Bankers' commercial credits.-Bankers' credits are still the universal system of financing sales to the United Kingdom and are the most important methods used. Under this method the importer arranges with his bank in England to accept drafts drawn on it by the American cotton exporter for the account of the importer. The importer and exporter then enter into a sales contract concerning a given number of bales of cotton of specified grade. At the same time the importer notifies the exporter of the name of the bank upon which the draft is to be drawn. The exporter prepares the cotton for shipment; if it is at a port he delivers it to the steamship company and secures an ocean bill of lading, insurance policy, and other shipping documents, but if the cotton is at an inland city the exporter delivers it to the transporta-tion company and secures a "through" bill of lading. The cotton is then moved to the port and loaded on the steamship.

The exporter then draws a sterling draft at 60 or 90 days' sight upon the importer's bank and discounts his sterling bill with a bank. In many cases, however, where the exporter's local bank does not deal in foreign exchange, he draws a dollar draft on a bank in New York which has consented to buy the sterling draft. If the shipment is made from a southern port the exporter presents the New York dollar draft to his southern bank, accompanied by the sterling draft, bill of lading, marine insurance certificate, and other documents. The southern bank applies the amount of the draft in repayment of the advances, in case some were made in purchasing the cotton, and credits the remainder to the account of the exporter. The dollar draft, accompanied by the sterling bill and documents, is forwarded to the southern bank's correspondent in New York, who presents it to the bank that has contracted to purchase the exchange and upon payment of same surrenders to it the sterling draft and accompanying documents.

The bank that has bought the sterling draft sends it forward immediately to its agent in London, who presents it to the importer's bank for acceptance. The accepting bank retains the bill of lading and insurance certificate as security against its acceptance, which is then held until maturity for account of the American bank with its agent or correspondent in London. If funds are needed the acceptance is disposed of in the London discount market. Under this method of financing cotton the entire transaction, from the standpoint of the English importer and his bank, is based entirely on credit, as no funds are advanced by either of them.

Importers' trade acceptances.-While the bulk of cotton going to the United Kingdom is financed largely in the manner outlined, some cotton is moved on bills drawn directly on the The original steps in preparing the importers. shipment are taken in the same manner as in the case of bankers' commercial credits, except that the foreign buyer notifies the American exporter at the time the cotton is ordered to draw a sterling draft on him (the importer) covering the shipment. The draft, accom-panied by the shipping documents, is then forwarded to the correspondent of the southern bank in New York and the same method of procedure as in the case of bankers' credits in handling the exchange is followed. The bank which has purchased the draft sends it forward to its agent in London, and the agent presents it to the importer for acceptance. The banking agent presenting the draft is generally requested to retain the shipping documents until the cotton arrives in England. In case the importer takes up the acceptance before its maturity a rebate is allowed, but if the bank advances funds to take up the acceptance under rebate or at maturity the bank generally holds the documents as security for the advance.

Spinners' acceptances.—Some cotton is exported directly to spinners, the shipments and bills arising in the same manner as those described for importers, but this method is only used to a limited extent. Spinners generally prefer to purchase cotton through cotton merchants or importers, but on account of disturbed financial conditions a few American exporters have exported some cotton to Europe in this manner. Exports to continental spinners under spinners' acceptances are usually insured against loss through indemnity insurance companies making a specialty of this type of business. They usually insure the payment for about 75 per cent of its amount, and the American exporter carries the remaining 25 per cent. Some of these bills have been discounted by American banks, but this method of exporting has not made much progress and is not considered a very favorable method of financing cotton exports by American bankers. The extent to which they have been willing to discount such acceptances has depended upon the financial standing of the American exporter, the drawer of the bill.

Currencies used in drawing bills.—Before the war interrupted the machinery used in financing exports, it was customary for the exporter to draw his reimbursement draft in foreign cur-This was due to the lack of a discount rency. market in the United States and to the fact that American banks, with few exceptions, had no authority to grant acceptance credits. The pound sterling was the principal currency used for the drawing of cotton bills, and these were sold in the London discount market, where they were considered generally as credit instruments of the highest type. In addition, franc and mark bills were used freely in financing sales to the Continent. This custom continued mainly in the trade with Great Britain and with the principal cotton-consuming countries on the Continent. However, during the war France found it necessary to purchase large quantities of cotton, but as the franc and pound sterling had become unstable, the French commission in charge of purchases arranged for reimbursement in United States dollars for cotton purchased in the United States.³ Since the war this method has been followed by most continental countries, as the continued fluctuations of continental exchanges have made it desirable for American exporters to do business with Europe on a dollar basis. Cotton is quoted in cents per pound landed at a European port. The European importer, when he contracts by cable for an order of cotton, contracts in his country for dollars in New York in order to meet the draft drawn in dollars by the American exporter. Some cotton is sold to England and reimbursement made by way of New York bank credit in dollars, but the extent to which exports to England are financed on this basis is very small; the old basis of sterling credits has continued.

C. FINANCING COTTON IMPORTING.

The problem of financing cotton imports concerns primarily the importer and his bank in financing cotton after it arrives in the importing country and as it awaits sale to the spinners.

Arrival of cotton in England.—Having traced the movement of cotton, the origin of the documents in the United States, and the methods used by the exporter and the American banks in handling the sterling drafts, the next problem that arises is the handling of the cotton after it arrives in England. When the cotton arrives the importer receives the shipping documents from the bank that accepted the draft, or holds them for his account, with instructions to claim the cotton from the steamship company and warehouse it in the name of the bank or hold it in trust for the bank pending sale. The importer gives a trust receipt to the bank on receiving the bill of lading and becomes the trustee for the bank in handling the cotton, which is generally held by the importer, properly insured, in warehouses at Liverpool or Manchester for the account of the bank. If the goods are sold to a spinner immediately, the proceeds are surrendered to the bank in liquidation of the acceptance or to reimburse the bank for advances that were made to the importer to enable him to take up the acceptance under rebate.

Unlike the American manufacturer, the English spinner does not purchase large quantities of cotton in advance. On the other hand, the importers of Liverpool and Manchester usually keep large quantities of raw cotton in warehouses in these cities in order to meet the demands from the spinners. In order to keep the necessary supplies of raw cotton on hand the importers must sometimes hold it for long periods of time, varying from several months to a year. This necessitates financing over long periods.

financing over long periods. Financing stored cotton in England.—Most of the cotton shipped to England is financed by means of acceptance credits furnished either by banks in England or by cotton importers of strong financial standing. These bills are made to mature generally within 60 to 90 days, but as cotton is often stored for longer periods, additional financing is necessary. Acceptances under which cotton is moved from the United States are usually discounted in the London money market at a comparatively low rate, but it is customary to liquidate the bills at maturity and use other methods for carrying the cotton.⁴

³ FEDERAL RESERVE BULLETIN, September, 1921, p. 1066.

⁴ This and the following paragraphs are based upon "Finance of the Cotton Trade," prepared by Peter Forrester, managing director, Union Bank of Manchester (*Ltd.*), and director of Barclays (*Ltd.*), and printed in Oldham and District Journal of Commerce, April, 1920.

If the importer has ample means of his own, he provides the bank with funds to meet the acceptance when due and carries the cotton himself until it is sold. But, as few importers are thus situated, one of the following three plans is used: (1) A bill is drawn by the im-porter on an "accepting house," and the cotton is stored in a warehouse in the name of the "accepting house." The bill accepted by the "accepting house" is discounted by the importer with his bank, or elsewhere. This is the cheapest form of financing, practically controlling the charges on all other methods, and is used generally for large operations. The cost of this method is, accepting commission (usually one-fourth to three-eighths of 1 per cent for 3 months' bill), plus bill stamp (equal 4 s. per 100 pounds per annum), plus cost of discounting the bill. (2) The importer draws a bill, generally at 3 months, on the broker to whom he intrusts the cotton for sale, and discounts this bill with his bank and stores the cotton to the bank's order as security for the payment of the bill. The importer who is financing the cotton is willing to pay a little more to the bank for this accommodation than he would have to pay under method (1), as the broker does not charge a commission for accepting. Also it is more convenient, as it can be carried out locally without the intervention of the London "accepting house." In cases where the importer is selling cotton himself, and does not employ a broker, he can not avail himself of (3) The importer goes to his this method. bank and takes a loan for 3 months and stores the cotton in the bank's name, and thus avoids the intervention of any third party, and he will usually pay a little more for this than he would under methods (1) and (2), as it is less troublesome and is entirely between him and his bank.

In all three cases the cotton, or some of it, will usually be sold before the period of the advance has elapsed, and it is customary for the bank to receive these payments and make an interest allowance for them.

Hedging.—While the marketing and dis-tribution of cotton is a gigantic financial task for the financial institutions in the United States and those of all the principal cottonconsuming countries of the world, the ease and effectiveness with which the crop is handled is due in a large measure to the organized cotton exchanges of the world and the facilities which they offer for insuring against the risks which accompany fluctuations in the cotton market, resulting from daily price changes. Use is made of the buyer of the contract. In New York pay-of exchanges in the United States and Liverpool ment of such differences may be called for daily,

in buying and selling futures throughout the year. When a cotton merchant buys a lot of 100 bales of cotton during the marketing season he either sells it immediately to another merchant, spinner, or exporter, or sells in one of the principal cotton markets a future contract for the same number of bales of cotton in order to protect himself as far as possible in the event of a decline in the value of his purchased cotton. If cotton is bought in October the merchant may immediately sell a January or any other future-month contract against it. This transaction is known as a "hedge" and serves as a method of protecting the merchant against losses in case of a decline in the market. If the cotton is sold in the meantime the merchant cancels the "hedge" by buying in the future contract.

In the United States two future-contract markets-New York and New Orleans-are used by merchants, brokers, exporters, and others, but the principle of hedging is of even greater importance to the importers in England and on the Continent. When an importer buys cotton in the United States in 100-bale lots he immediately sells a future contract in the Liverpool market covering the amount purchased to protect himself against price declines while the cotton is en route from the exporting country. Thus, if an importer buys cotton in October or November in the United States, he usually sells a January or March future contract against it in Liverpool, the future month being determined by the approximate date of arrival or sale of the cotton.

The problem of hedging is of great importance to the banks that extend credit to the merchants who handle cotton in the United States as well as to the banks that finance its importation. If the American cotton merchant keeps his cotton hedged through the sale of future contracts the loans are more secure and business can be transacted on a much narrower margin than on cotton that is unprotected. In England the banker is primarily interested in keeping cotton hedged, because he has accepted the bills under which it is moving, and if it was not thus protected the margin maintained on cotton loans would have to be much larger to insure the bank against loss.

Payment of differences.—An important problem in connection with hedging is that of the payment of "differences." As cotton rises in value the seller of a future contract is required to pay "differences" for the protection of the buyer of the contract. In New York paybut in Liverpool it is called for once a week, and the banker holding the actual cotton that has been hedged often has to furnish the importer with money required to meet the differences. Oftentimes the bank is called upon to provide differences for a greater number of bales of cotton than the number against which it has made advances or given acceptances. Differences may even represent cotton that has been shipped to England but not yet arrived. In such cases the bank is less eager to provide money to meet the differences than when the cotton is actually in its possession.

In a falling market the opposite conditions prevail, and the importer will receive differences in respect of hedges. Such differences enable him to keep up the margin which his banks require in the value of the cotton held by them as a security.

D. CHANGES BROUGHT ABOUT BY THE WAR.

At the close of the war the established practices of distributing and financing cotton were found to be in many respects impracticable, partly because they had grown up during a period when the United States was a debtor country and cotton exports had been an important means of settling international balances. As a consequence of changes brought about by the war, which have made the United States into a creditor nation, the burden of financing American cotton for export has been largely shifted to financial institutions within the United States.

Consignment of cotton abroad.—As has been indicated, cotton is often consigned to Europe by American exporters and held in storage in the ports to meet the demands from the spinners. This method, although not an entirely new departure, is used extensively in distributing cotton to continental consumers. Such cotton is consigned to a representative of the American exporter located in one of the principal European ports and is financed en-tirely in dollars. The exporter contracts with an American bank, generally in New York, to finance his transaction. At the time of consignment the exporter usually draws a sight draft of 90 days with documents attached, on the New York bank for 80 per cent of the value of the cotton. The draft is accepted, documents detached, at an agreed commission, and the drawer (the exporter) then discounts it in the open market and obtains dollars, with which he reimburses the bank in the South that financed the cotton up to the port. The New the exporter and the documents covering the

York bank then forwards the documents to its correspondent in the European port, with instructions to receive and warehouse the cotton on arrival and hold the warehouse receipts under control. The receipts are delivered against sales contracts made by the agent or representative of the American exporter, but documents are delivered to the purchaser only against payment. The proceeds are remitted by the European bank direct to the bank in New York that accepted the original draft. The funds are then held pending maturity of the exporter's obligation and finally used for liquidating the original loan, the excess being credited to the account or paid to the exporter. During the last few years this method has been used extensively and has been a great relief to the European spinners who have been unable to finance their requirements as formerly. The plan has necessitated the keeping of stocks of cotton by American exporters in the principal European ports in order to supply the spinners who have been forced to purchase their consumption requirements weekly or monthly. The furnishing of cotton in this manner to Europe and, of late, also to Japan, has necessitated the development of efficient organizations by export concerns for handling

cotton in the importing country. *Dollar credits.*—In view of the disturbed financial conditions existing in Europe since the war, many American exporters who are still selling cotton on the pre-war plan demand that their reimbursement credits be opened with New York banks, to which they may deliver the shipping documents and receive the amount of their invoice in dollars. In some cases the exporter draws on the New York bank in dollars at 60 or 90 days' sight against delivery of the documents. The exporter then has a prime New York bank acceptance which he can sell in the open market at favorable rates. Such credits are generally opened in New York by European banks for due payment, so that when drafts are paid or accepted the New York bank forwards the documents direct to the European bank, which disposes of them to the importer.

Within the last few years many European importers have been buying cotton in dollars, payment to be made at the foreign port on arrival of the vessel carrying the cotton. Exporters doing business on this basis have been financed by New York banks and a large volume of business has been handled in this manner. The banks generally depend upon

shipments, which are hypothecated for their security. Banks report that the plan has worked very satisfactorily, and it is estimated that approximately 65 per cent of the total American cotton exports are financed by means of dollar credits.

Insurance.—In connection with the methods that have been introduced in financing cotton under present conditions the problem of insuring cotton that is consigned abroad has likewise undergone changes. Before the war all risks affecting cotton were covered by foreign insurance companies, and such methods continued for a time after the beginning of the war. However, when the American banks, on ac-count of the violent fluctuations in foreign currencies, began to finance exports on a dollar basis, it became necessary for the cotton to be insured in dollars, so as to protect those making advances on it. American companies began to enter the field, and now practically all of the cotton stored abroad is insured immediately after discharge from the steamer against loss by fire, civil riots, strikes, lockouts, and general disturbances. The risks are carried in dollars. In addition, American companies are also insuring against marine risks, but a large volume of these risks are still carried by British companies.

Banking legislation .- While the war was instrumental in causing changes to be made in methods of exporting and financing cotton, American banking laws have been amended and changed to permit greater participation by American institutions in handling the transactions. Through the passage of the Federal reserve act acceptances were introduced into American banking practice, but later legislation was enacted that permitted the establishment of additional institutions to facilitate American foreign trade.

Edge law banks.—While national banks were permitted under the Federal reserve act to grant acceptance credits, additional institutions to facilitate foreign trade were provided for through the Edge Act, which was approved in December, 1919. According to the Federal Reserve Board's regulations, Edge law banks were empowered, under certain conditions, to accept drafts or bills of exchange growing out of transactions involving the importation and exportation of goods, and having a maturity not in excess of six months except with the approval of the Federal Reserve Board. Several of these corporations have been organized and have aided in financing cotton exports along new lines required by post-war conditions.

The Federal International Banking Co. of New Orleans, organized about the close of 1920 under the Edge Act, for the accommodation of southern foreign commerce, has been instrumental in facilitating the export of more than 700,000 bales of cotton.⁵ In order to use the facilities offered by the Edge corporations the exporter establishes his credit with the corporation, and the bank agrees to finance the transaction within certain limits and upon certain terms. Having established a credit, the exporter sends to the Edge bank his "documentary drafts" (the draft or bill on the foreign customer with consular invoice, ship's bill of lading, and insurance contract attached), which the bank sends to a foreign correspondent bank to collect. The exporter then draws a draft upon the bank payable on the date agreed upon (usually the date when the money from the foreign collection will reach the Edge law bank) for the amount which the exporter wants advanced against the shipment. The second draft is accepted by the bank and discounted by the exporter in the open market.⁶

War Finance Corporation .- In the autumn of 1920, when the collapse of commodity markets became acute and likewise exports failed to move in the usual manner, emergency legislation appeared necessary to relieve the situa-The War Finance Corporation was retion. vived in January, 1921, after having suspended its activities in May, 1920, "with the view of assisting in the financing of the exportation of agricultural and other products to foreign countries." Cotton being the country's greatest agricultural export, attention was given immediately to the conditions affecting its export.

Financing cotton through the corporation.—In order to aid the exportation of cotton, the first step taken by the corporation was to make advances to finance the carrying of stocks of American cotton in foreign warehouses. This did not seem sufficient to meet the needs at the time and the corporation then began to make advances on cotton stored in the United States. but under contract for sale abroad. Under its export powers the corporation financed cotton and other agricultural commodities for export under the following conditions:⁷

(1) For prompt shipment against deferred payments.

(2) · For future shipment within a reasonable time, against either prompt or deferred payments, where the products are under a definite contract of sale.

- ⁵ Federal International News, February, 1923.
 ⁶ Todd, Frederick, "The First Year of Edge Law Banking." Economic World, Feb. 26, 1921.
 ⁷ Annual report of War Finance Corporation, Nov. 30, 1921.

(3) For prompt shipment to warehouses in foreign distributing points, to be held there for account of American exporters and bankers for marketing out of warehouses.

(4) For shipment within a definite period, the products to be held in warehouses in this country until they can be marketed abroad in an orderly manner, the applicant to give definite assurance that the agricultural products pledged as security for the advance will be exported before the maturity of the advance, to an aggregate amount (including insurance and freight if paid by the exporter to domestic insurers and carriers) not less than the amount of the advance.

Loans were made to exporters who were engaged in the business of exporting domestic products to foreign countries and to banks that were engaged in the financing of exports. The corporation from January, 1921, to November, 1922, inclusive, advanced \$38,654,000 for export purposes, of which advances for the exporting of cotton totaled \$26,561,000. Of the total loans for exports purposes \$7,547,000 were advanced to exporters, \$2,638,000 to cooperative marketing associations, and \$28,469,000 to banking and financing institutions.⁸

While the corporation originally offered to make advances for cotton exports under certain conditions, it soon became evident that applications for advances were not being made on a sufficiently large scale to become an important factor. A further step became necessary. Early in July, 1921, the corporation agreed to advance funds to cooperative associations to finance the carrying of cotton until it could be exported. Methods used by cooperative associations in financing their cotton transactions will be described in a subsequent article.

Finishing credits.—In addition to the plans which were introduced to extend credits to aid the financing of the exportation of cotton, other methods were developed for shipping cotton abroad. At the Brussels Financial Conference in September, 1920. a "finishing credits" plan was adopted. Under this plan it was thought that cotton could be exported to Europe by American firms to be manufactured into yarns and cloth and be sold in the world's markets, and the proceeds distributed to the original owners of the cotton.

Operation of plan.—The plan was an entirely new departure in American export methods, and necessitated the working out of considerable details in the methods of handling the transaction. The plan adopted and put

into operation was known as the "toll plan" of exporting and financing. The owner who desired to dispose of his cotton under this plan shipped it to the company handling the transaction at the nearest American port. The cotton was inspected and classified and all that was suitable for manufacture under the contract was accepted irrevocably for account of the foreign mills by an agent of the The owner received in return for his mills. cotton a trust receipt and participation certificate, and his particular cotton was combined in lots of 100 or more bales with other cotton of like staple and grade. The cotton was then exported to Hamburg, where it was received by the agent of the mills, principally in Czechoslovakia. The mills received the staple under a trust receipt, guaranteeing to manufacture the cotton into such yarns and cloth as directed. Thus, the cotton was held and manufactured by the mills as trustees for the owners, and the banks in Prague and Vienna guaranteed the transaction.

The yarns and cloth made from the cotton were redelivered by the mills to the warehouses of the company, usually at Hamburg or other European ports, where it was sold. The proceeds of the sales, after deducting the cost of manufacture, handling, shipping, commission for services both in America and abroad, were distributed in proportion to the amount and value of the cotton shipped by each individual owner.

In order to complete the cycle of manufacture and to resell the goods it was estimated that from 6 to 9 months would be required. Funds for financing the process during this period were obtained through the agencies handling the cotton. The documents representing the cotton during the entire period were pledged with banking companies against which acceptances were issued. Loans were made to the owners of the cotton up to a certain percentage of its value, against which the company had a first lien on the cotton. From the proceeds borrowed it was estimated that approximately \$20 per bale (1921) were needed to meet expenses arising from handling the cotton. This was retained and the remainder was advanced to the owner of the cotton.

More than 20,000 bales of cotton have been exported in this manner, and a considerable part of such cotton was of very low grade. The returns are reported to have been profitable. The plan has been reasonably satisfactory and the yield to the owners was more than could have been received for the cotton in the domestic market at the time the shipment

⁸ Annual report of War Finance Corporation, Nov. 30, 1922.

was made. However, the continued demoralized conditions in Europe have caused delays in final liquidation recently, though it is stated that such liquidation will be made within a few months and on a satisfactory basis. The rise in the spot-cotton market in the United States has made it attractive for owners to sell in local markets, and further efforts at the present time to export cotton for fabrication have not been attempted.

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

Since the publication in the April FEDERAL RESERVE BULLETIN of the consolidated statement of condition as of the middle and end of 1922 of State banks and trust companies, figures have been received from the Missouri State Banking Department showing the conbanks in most of the other States.

dition on December 6 of the past year of the banks subject to State supervision.

In the following table are shown comparative figures of the principal assets and liabilities of the Missouri State banks and trust companies (including 3 private banks) on April 3, as given in the report of the Comptroller of the Currency and on December 6, the date of the most recent condition report published by the State Banking Department, also amended middle and end-of-year figures for State banks and trust companies in the Middle West section of the country and in the United States as a whole. The inclusion of figures for over 1,500 additional banks does not cause sufficient changes in the totals to call for new comment or discussion. In making comparisons between developments in Missouri and elsewhere one should remember, however, that the interval between the two condition statements for the Missouri banks in the following tabulation is about 9 months, as against 6 months for the

PRINCIPAL RESOURCES AND LIABILITIES OF STATE BANKS AND TRUST COMPANIES IN MISSOURI AS OF APRIL AND DECEMBER, 1922, ALSO TOTALS FOR MIDDLE WESTERN STATES AND GRAND TOTALS FOR THE UNITED STATES. In thousands of dollars.]

	Missouri.		Total Middle Western.		Total Uni	ted States.			
	Apr. 3.	Dec. 6.	June.	December.	June.	December			
RESOURCES.									
Number of banks reporting	1, 516	1, 501	8, 267	8, 271	20, 894	20, 901			
Loans and discounts. Overdrafts United States Government securities. All other securities Total investments. Banking house, furniture, and fixtures. Other real estate owned. Due from banks. Reserve with Federal reserve or other banks. Checks and other cash items, including clearing-house exchanges. Cash on hand.	984 116, 731 116, 731 18, 920 4, 241 109, 947 13, 734	620, 106 1, 204 192, 000 21, 035 4, 740 139, 938 10, 605 21, 653 34, 720	4, 536, 466 6, 216 313, 441 1, 211, 915 1, 525, 356 177, 559 37, 952 488, 895 299, 956 125, 972 154, 837 167, 738	$\begin{array}{r} \textbf{4,724,766}\\ \textbf{8,962}\\ \textbf{358,702}\\ \textbf{1,361,882}\\ \textbf{1,720,584}\\ \textbf{1,80,053}\\ \textbf{41,706}\\ \textbf{547,571}\\ \textbf{247,421}\\ \textbf{165,353}\\ \textbf{213,448}\\ \textbf{177,709} \end{array}$	$\begin{matrix} 13,280,121\\ 21,421\\ 731,302\\ 4,278,447\\ 5,009,749\\ 572,559\\ 118,811\\ 1,272,337\\ 1,174,624\\ 674,067\\ 449,966\\ 540,424 \end{matrix}$	$\begin{array}{c} 13, 489, 420\\ 30, 702\\ 739, 502\\ 4, 969, 872\\ 5, 709, 374\\ 611, 326\\ 120, 086\\ 1, 357, 918\\ 1, 137, 384\\ 688, 833\\ 597, 849\\ 589, 754 \end{array}$			
Total	851,765	1, 046, 001	7, 520, 947	8, 035, 583	23, 114, 079	24, 332, 646			
LIABILITIES.									
Capital stock paid in Surplus. Undivided profits. Due to all banks. Certified and cashiers' checks Individual deposits, including dividends unpaid and postal savings. United States deposits (exclusive of postal savings). Notes and bills rediscounted. Bills payable. Other liabilities.	41,507 12,691 53,472 1615,182 221,441	80, 517 45, 990 16, 298 65, 418 1 775, 115 2 26, 414 36, 249	$543, 513 \\ 303, 046 \\ 137, 335 \\ 213, 967 \\ 45, 055 \\ 5, 886 \\ 152 \\ 4, 764 \\ 47, 981 \\ 138, 073 \\ 201, 061 \\ \end{cases}$	$\begin{array}{c} 557,016\\ 311,041\\ 131,487\\ 239,207\\ 65,192\\ 6,296,494\\ 15,917\\ 25,653\\ 167,185\\ 226,391 \end{array}$	100,414	$1, 623, 695 \\1, 230, 337 \\344, 241 \\839, 885 \\106, 791 \\18, 943, 205 \\17, 892 \\107, 443 \\433, 790 \\685, 367 \\$			
Total	851,765	1,046,001	7, 520, 947	8, 035, 583	23, 114, 079	24, 332, 646			

¹ Includes cashiers' checks.

² Includes rediscounts.

BUSINESS AND FINANCIAL CONDITIONS ABROAD.

Great Britain.—Employment continued to increase in March, the percentage of insured persons out of work falling from 11.8 to 11.1 per cent. The improvement was most marked in iron mining, shipbuilding, and the metal trades, while in cotton manufacturing the number of unemployed increased nearly 4 per cent. Coal and iron production has been expanding as a result of the lowered output in Germany and France, but the British textile trades are feeling the effect of heavy cancellations of continental orders. Prices of iron and steel and other metals have risen sharply since the beginning of the year and have been reflected in a 5-point advance in the Federal Reserve Board index for March to a level of 175 (1913=100). Food prices, on the other hand, have declined and prices of textiles have changed but little.

Money rates in the London market continue low. The slightly tighter credit situation during February and March—largely due to heavy tax payments—became easier in April through Government disbursements for interest and maturing treasury bills. With the further easing of short-term money rates, the yield of high-grade bonds has become lower. During April sterling exchange dropped to \$4.63, the lowest point since the opening of the year. The decline of the pound has been attributed chiefly to the larger adverse trade balance in the first quarter of 1923, to recent increases in British commodity prices, and to the transfer of funds from London to New York.

France.—No general decrease in employment seems to have occurred in France, although unemployment resulted in the French steel industry on account of the interruption in the usual supply of coke obtained from Germany. For some months unemployment in Paris has been declining slightly, and the shortage of labor throughout the country is shown by the steady increase in the weekly reports of the number of situations vacant. The latest business statistics available for France continue to show great activity, except in the metal industry. Freightcar loadings rose from a daily average of 54,432 in January to 56,528 in March, an increase of 14 per cent over March, 1922. Receipts from the turnover tax in March have been exceeded only once since October, 1920, and average daily clearings in Paris continued high.

Deposits, bank notes, and discounts of the Bank of France showed further reduction during April. Open-market rates in Paris have remained slightly above 4 per cent for several months past. The recovery of French exchange during March and April checked the rise in the prices of numerous imported commodities and consequently the rapid rise in the general level of prices.

Germany.—The decrease of business activity in Germany following the occupation of the Ruhr continued during March and April. Coal and coke output has been reduced to small proportions, and unemployment throughout the country has further increased. As a result of the stabilization of the mark and reduced consumption of most commodities, wholesale prices as measured by the Frankfurter Zeitung index declined from 715,881 (July, 1914 = 100) on February 1 to 677,000 and 639,300, respectively, at the beginning of the two following months. Prices of domestic commodities, however, which previously had been considerably lower than those of imported articles, showed much smaller declines than did those of foreign goods, so that the difference between the prices of the two classes of merchandise was narrower in March than in any recent month.

With the decline in business activity the demand for credit has diminished. The rate of increase in note circulation has been reduced, the output of paper notes during the first three weeks of April being 578 billion marks, as compared with 1,442 billion marks in the corresponding weeks of March. The German mark, which up to April 17 had been stabilized for over two months at about 21,000 to the dollar, declined to 32,000 to the dollar at the end of April. Following the break in mark exchange, the Reichsbank on April 23 raised its discount rate from 12 to 18 per cent in order to further its program for the support of the mark, and also to bring the bank rate closer to the far higher rates prevailing in the open market.

bring the bank rate closer to the far higher rates prevailing in the open market. Scandinavia.—Credit and banking in the Scandinavian countries have been affected by the depressing influence of the recent bank failures, which in Denmark assumed a character so serious that Parliament on April 26 adopted the Government's proposal to guarantee the liabilities of such solvent banks as were in distress. In view of the situation the Bank of Denmark and the Bank of Norway raised their discount rates from 5 to 6 per cent.

THE TREND OF BUSINESS ABROAD.¹

	111				USINESS ADROAD.				
Items.	United King- dom.	France.	Ger- many.	United States.	Items.	United King- dom.	France.	Ger- many.	United States.
I. CREDIT. ²					III. PRODUCTION AND TRADE.				
COMMERCIAL BANK LOANS:					PIG IRON PRODUCTION (relatives 5):				
1921—March	1,145	13,058	• • • • • • • • •	12,599	1921-March	45	69		62
1922—March	1,097	12,558	•••••	10,842	1922March	46 43	89 96		80 92
June September	1,070	13,676 13,354		10,783 10,988	June September	43 50	107		92 79
December	1,007 1,031	13,268		11, 329	December	62	118		121
1923—January	1,046	13,361		11,425	1923-January	66	112		126
February	1,023			11,639	February	64	70		117
1923—January February March	992			11,783	Marcn	74			138
COMMERCIAL BANK DEPOSITS:					COAL PRODUCTION (relatives 5):				
1921-March	1,715	12,775 12,374		10, 186	1921—March	74	87	79	76
1922-March	1,747	12,374		10,309 11,124	1922—March	89 72	112 100	93 63	126 56
June	1,755	13,583	••••	11,124	June	93	100	70	99
September	1,660	13, 167		11,080	December	94	112	67	117
December	1,685 1,693	$13,250 \\ 13,744$		$11,085 \\ 11,255 \\ 11,537 \\$	1923-January	96	123	12	126
1923—January. February. March.	1,644			11, 525	February	101		(6)	106
March	1,596			11,082	March	100		(6) (8)	117
CENTRAL BANK DISCOUNTS:	_,		l		UNEMPLOYMENT: 7	1		100	61
1921—March	113	3,052	67	2,287	1921—March	11.0	43,037	188	81
1922-March	98	2,914	149	636	1922-March	14.6	3,546	113 103	86
June	76	2,332	191	469	September	12.7 12.0	958 410	103	88 91
September	71	2,104	400	420	December.	12.0	414	165	98
December	78	2,401	1,607	630	1923—January	12.7	684	195	99
1923—January	66	2,662 2,684	2,306 4,777	597 596	February	11.8	666		101
February March	79 80	2,685	6,924	700	March	11.1	588		103
	00	2,000	0,021		BANK CLEARINGS (actuals 2):				
CENTRAL BANK NOTE ISSUES: 1921—March	454	38,435	68	2 031	1921—March	2,941	556	74	16,526
1922-March	404	35, 528	131	2, 182	1922—March	3,452	455	170 191	16,535 17,173
June	399	36,039	169	2, 931 2, 182 2, 124 2, 243 2, 464 2, 204 2, 247 2, 232	June September	2,917 2,690	474 484	474	16,553
September	390	36,603	317	2,243	December.	2,090	630	2,079	19,586
December	405	36, 359	1,280	2,464	1923—January.	3,262	726	3,828	19,666
1923—January February	381	36,780	1,984	2,204	February.	3,006	792	7,444	16,905
February	381	37,055	3, 513	2,247	March	3,315	755		19, 567
March	388	37, 188	5, 518	2,232	SHIPPING ACTIVITY (relatives 5):		ļ.		
CENTRAL BANK DISCOUNT RATE (per				i .	1921—March	52	73	56	100
cent):		,			1922—March	85	89	82	108
1921—March 1922—March	7	6	5	7	June	88	114	109 102	126 145
June	41- 31-	55	5	41 <u>1</u> 4	September December.	101 91	108 109	88	145
September	32	5	Š Š	4	1923-January	93	99	97	102
December	3	5	10	4	February	88		89	92
1923—January	3	5 5	12	4	February				
February	3	5	12	41/2 41/2 41/2	1921—March	66,809	1,712		386,680
March	3	5	12	41	1922-March	64, 581	1,877	324	329,980
April	3	5	18	43	June.	52,146		428 291	335,117 313,197
I BRIGRA AND BROUNDE	1		1		September	62, 511	1,741	423	313, 197
II. PRICES AND EXCHANGE.					1023-January	58,883 66,939	2,779 1,696	311	335, 539
WHOLESALE PRICE INDEX (relatives 3):					December. 1923—January. February.	57,510	2,329	361	307, 194
1921—March	213	345		152	March	60,921	2,474		341, 162
1922—March	168	287	5,420	147	VOLUME OF EXPORTS (relatives 9):				
June	169	304	7,851	161	1921—March	54	64		93
September December	165	294		164	1922—March	67	85	35	107
1022 Jonuory	166 167	315 324	166, 495 205, 417 715, 881	164	June September	65 70	98 142	31 26	107 96
1923—January February	167	324 355	715 881	165 166	December	70	132	26 29	90 97
March	175	372	677,000	169	1923-January.		103	21	96
	1.5		,	1 100	February		135	18	84
RETAIL PRICE INDEX (relatives 4): 1921—March	241	358	1,028	153	March	75	99		87
1921—March	186	294	2,639	136	VALUE OF IMPORTS (actuals ⁸):				
June	180	307	3,779	138	1921—March	93,784	1,743		251,969
September	179	291	11,376	137	1922-March	87,879	1,932	563	256, 178 260, 461
December.	180	305	61, 156	144	June September	84,298	1,851	565 422	200, 401 298, 497
1923—January February	178	309	103, 400	141	December	76,944 94,912	2,923	590	293, 810
February	177	316	240, 800	139	1923-January	99,700	2,923	564	329, 844
March	176	321	262, 700	139	February.	83,855	2,343	446	296,000
FOREIGN EXCHANGE (per cent of par):	1		}	}	March	90,022	2,487		
1921—March	80.37	36.45	6, 696		VOLUME OF IMPORTS (relatives ⁹):	1			
1922—March	89.92	46.65	1.505		1921—March	71	81		170
June	91.48	45.41	1.370		1922-March	80	120	44	207
September	91.04	39.68	. 287		June	92	117	66	191
December	94.73	37.46	. 062		September	87	112	80	· 197
1923—January		34.60	.031		December		132 112	71 78	224 242
February March	96.39 96.49	31.84 32.77	.016		1923—January February		105	52	242
April			.020		March.				
					annears in the BUILETIN for Febru				

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AGRICULTURAL CREDIT IN GREAT BRITAIN.

The recent agricultural credit legislation in the United States lends unusual interest to the report of the parliamentary committee on agricultural credit in Great Britain. British farmers, like those in the United States, have been suffering from the protracted decline of agricultural prices, and relief is sought in both countries through improvement of credit facilities. The present strike of agricultural laborers in the northeastern counties of England aggravates the depression there. It is generally agreed that the wages of these laborers, commonly 25s. a week, are too low, but that the farmers are in no position to raise them. In order to understand the critical conditions which British farmers face and the relation of agricultural credit to these conditions, it is necessary to survey briefly the agricultural situation and the Government's agricultural policy during and since the war.

Unlike the case in this country, agriculture does not rank among the most important British industries from an economic point of view, but the vital necessity of the homegrown food supply in case of any interference with foreign trade gives it a peculiar political significance. It is estimated by the London Joint City and Midland Bank that the following percentages of farm products consumed in the United Kingdom were imported in 1922:

-		_	
Per C			
Wheat Barley	73 37	Beef and veal	$57 \\ 63$
Oats			

The desire to minimize the nation's dependence upon foreign food and the consequent governmental responsibility for past and future encouragement of agriculture have undoubtedly influenced the proposals now brought forward with regard to agricultural credit.

AGRICULTURAL PRICES AND PRODUCTION IN UNITED KINGDOM, 1914-1922.

It will be remembered that as foreign supplies of food became more and more difficult to obtain during the war, every effort was bent toward an increase in food production in Great Britain itself. While agricultural prices had been rising in the preceding decade with the general rise in prices, and farmers were relatively prosperous, the cultivated acreage in England and Wales had been decreasing, and in 1916 was actually less than in 1914. The

and their number was continually depleted by the attraction of high wages in munition factories, as well as by army enlistments.

With the corn-production act of 1917, the Government began a definite policy of en-couraging cereal production. The cultivation of unused land was enforced, minimum wages for farm labor were established, and minimum prices for wheat and oats were guaranteed by In addition, temporary minimums were law. fixed for these and other farm products from time to time by the Government. These guaranties were not effective, however, because market prices were above the minimum, and it was the maximums established by the food controller which determined prices until March, 1920. The significance of the guaranties up to the fall of 1920 lay in whatever assurance of protection against future price declines farmers drew from them. For wheat sold after November, 1920, however, farmers were paid by the Government the difference between the price received and a fixed minimum; and the agriculture act, which went into effect on January 1, 1921, continued the system of statutory guaranties for wheat and oat acreage on a sliding scale based on relative costs. The act included a provision that four years' notice should be given of its repeal. On October 1, however, the corn-production (repeal) act annulled the legislation of 1917 and 1920 and substituted a flat payment of £3 and £4 an acre, respectively, of wheat and oats produced in The steady fall in English grain prices 1921. since that time has outrun the general price decline and has not been definitely checked yet. The prices of sheep, cattle, and hogs have been rising for the last six months, however, so that live-stock farmers are somewhat better off recently.

The effect of the course of prices upon agricultural production in the United Kingdom may be seen in the increase of the acreage of arable land from 11,058,000 acres in 1913 to 12,309,000 in 1919 and its fall to 11,311,000 acres in 1922. The numbers of live stock decreased after 1916 when grain acreage was increasing, and although they later increased, they have never reached their pre-war position.

AGRICULTURAL LAND OWNERSHIP.

The financial difficulties in which English farmers have been involved by the fall of agricultural prices have been aggravated in England even more than in the United States in 1916 was actually less than in 1914. The by the transfer of land at peak prices during wages of agricultural laborers were still low the war. The tendency toward the sale of FEDERAL RESERVE BULLETIN.

estates which had been evident since 1911 grew with the rise in the price of land without equivalent increases in rents and the development of opportunities for more remunerative investments with the rise in interest rates. Land prices rose about 50 per cent above their pre-war value and landowners, burdened by war taxes and high costs of maintaining their estates, took advantage of the situation to put their land on the market. Farmer-renters often faced the alternative of purchasing their holdings or leaving them, and the relatively high prices of farm products encouraged them to buy. To what extent the expectation of continued Government protection for agriculture actuated them, it is impossible to say. At any rate, over 21,000 more holdings, amounting to 2,250,000 acres, were owned by their occupiers in England and Wales in 1921 than in 1914 according to the statistics of the Ministry of Agriculture. By June, 1922, this number had been reduced to 13,500 holdings (1,700,000 acres).

According to the findings of the committee on agricultural credit, in order to buy their holdings, these men obtained loans from banks, individuals, solicitors (as an investment for trustee funds), the vendors themselves, insurance companies, and the Farmers' Land Purchase Company after its incorporation in 1920. The amount borrowed was various but often equaled two-thirds of the value of the property, at interest rates ranging from 4 per cent, in the case of some individual loans, to 7 per cent, sometimes charged by solicitors. Since 1920 the value of agricultural real estate has fallen from 15 to 30 per cent, and except for those who paid off a large proportion of the purchase price before the slump in prices, these farmers are obligated for a considerable part of the value of their farms. The committee finds that banks have not pressed for repayment of principal, even though the period of the loans was often 6 to 12 months, but their right to do so and their need of liquid funds in case of reviving industrial demand puts the farmers in a precarious position. Their indebtedness and consequent lack of capital of course fetters their productive and employment-giving capacity, to the general social detriment in a time of general unemployment.

AGRICULTURAL GREDIT.

The committee has not confined its recommendations to the subject of credit for land purchase, although the situation of these new owner-occupiers has evidently received the mendation as to this sort of credit is that this

most careful consideration. The report discusses the existing facilities and unsatisfied requirement of long-time credit for improving as well as buying land, and for intermediate and short-time credit.

Credit for permanent improvements.—The requirements of British agriculturists for longterm credit to be used for productive capital works, such as drainage, farm buildings, and water supply, have been met in the past by two companies established about 70 years ago under statutory authority-the Land Improvement Co. and the Scottish Drainage and Improvement Co. These companies advance money to landowners after the issue of a provisional order by the Minister of Agriculture or the Board of Agriculture for Scotland and are protected by certificates issued by one of these departments which make the loan a charge on the property prior to existing mortgages. According to the statute these original loans are repayable by an annuity running from 15 to 40 years, with a maximum interest rate of 5 per cent after deduction of the tax. A 5 per cent commission to the company and one-half per cent fee to the department is added to the principal borrowed. The companies have found their mortgages readily assignable to insurance companies, so that they have not lacked for resources. Thus in Great Britain these land companies, with the aid of insurance companies, have performed the functions which are in the United States assigned to the Federal land banks and joint stock land banks created under the act of 1916. They differ from our Federal land banks in being private companies, while their loans are more directly subject to governmental approval, and the terms prescribed by statute are somewhat similar. About 7 per cent of the loans made by the Federal land banks since their organization have been made for permanent improvements, such as are covered by the two British companies.

The English company described above has advanced some £13,000,000 since its existence, but after the rise in interest rates during the war period its business was hampered, as was that of our land banks, by the legal restrictions on its charges. The American maximum rate on loans is 6 per cent and the maximum rate on bonds put out by the banks 5 per cent, raised last year to $5\frac{1}{2}$ per cent in the case of the joint stock land banks. A modification of the restriction was obtained in the case of the English company in 1920, allowing it to charge such rates as the Minister of Agriculture should approve, and the committee's chief recommendation as to this sort of credit is that this modification be extended to other similar companies. Otherwise, it considers that this method of meeting the demand for credit for capital improvements is satisfactory and only suggests that the companies be urged to encourage the wider use of their facilities.

Credit for band purchases.—No special agen-cies have existed in England for the purpose of extending credit for the purchase of land, except the Farmers' Land Purchase Co., a private concern organized in 1920, which has advanced £500,000 and was obliged to refuse applications amounting to £5,000,000 or £6,000,000, owing to lack of resources. The lack of previous development of this sort of business may be attributed partly to the prevalence of tenancy in Great Britain, and the committee hesitates actively to encourage ownership at the expense of the older system of land tenure. It restricts its recommendations concerning this type of credit to provisions for loans to farmers who purchased their holdings between the passing of the corn-production act in 1917 and the repeal act of 1921. It recommends that special State aid be extended to approved mortgage societies loaning to such farmers, both by the advancement of capital, in the first instance, through the Public Works Loan Board and by the guarantee of issues of debentures which are to be put out by these societies as soon as the amount of their loans is suffi-cient to justify such an issue. The supposition seems to be that the societies may later extend their loans to other purchasers without the State guarantee, if they so desire. Loans are to be made up to 75 per cent of the present value of holdings at an interest rate not more than one-half per cent above the rate at which the society can borrow, and the loan is to be repaid in half yearly installments on an annuity basis, while the debentures are to be redeemed by drawing as the mortgages are repaid. Onehalf of the one-half of 1 per cent margin is to go to the State as a reserve fund against its guarantee until all debentures have been redeemed, and the other half is to be used to defray the expenses of the society.

Thus the English Government would have a more direct financial interest in these societies than has the Federal Government in our Federal land banks, but unlike the latter they would be organized as private institutions under private management, with the proviso that the treasury must approve the constitution and capitalization of the society and the rate of interest or dividends payable on its bonds or stock. The committee estimates that these

societies would be able to loan at not over 5 per cent, which is 1 per cent below the maximum which our Federal land banks may charge, and that an annual charge of £6 8s. 3d. for 40 years would repay the loan with interest. Those farmers who are in debt to more than 75 per cent of the present value of their holdings would not be helped by the plan, but the others would thus be given an opportunity to substitute for debts, which are callable at any time, obligations bearing a relatively low interest rate, on which definite payments may be spread over a long period.

Short-term credit.—The committee also deals with short-term and intermediate credit to agriculturists, the subject of recent Federal legislation in the United States. These requirements have been met in England by the joint stock banks and by auctioneers, merchants, and dealers who sell cattle, seeds, fertilizer, etc., to farmers, as well as by merchants who buy their crops from them in advance. The committee approves these sources of credit, in general, and does not consider that the banks have been backward in extending aid to farmers so far as the canons of sound bank-ing permit. The complaint that the branches of the large joint stock banks controlled from London, which have taken the place of the old country banks, are less sympathetic and adaptable to the needs of farmers than their predecessors is held to be without foundation. It is pointed out that there is keen competition among the banks for agricultural business, that relatively more agricultural loans are outstanding now than in the days of country banking, and that through the spreading of risks the branch banks are better able to carry their customers through a period of depression than were the country banks. No less than £46,500,000 are out on loan to farmers by the banks at present and £20,000,000 of this represents loans for current needs. The arrangements for such loans are elastic and are governed by custom and the circumstances of the individual case rather than by law. The usual form of current loans is the overdraft. unspecified as to purpose, bearing an interest rate of 1 per cent above the bank rate, but not less than 5 per cent. With many farmers the overdraft is a routine arrangement, being reduced or extended with the fluctuations of their receipts and expenditures. It is true that the applications for such loans are supposed to be referred to the head office for approval, but experienced managers have considerable freedom of action and so far as possible they are retained permanently in the districts with which they are familiar. Nevertheless, the committee recognizes that commercial banks can not be entirely adapted to agricultural credit needs, and points out certain directions in which further facilities are required.

Further credit facilities required.—In the first place farmers who are out of close touch with banks, either because they do not have bank accounts or live in thinly populated areas, are unable to obtain loans on personal credit. The banks are not possessed of the technical knowledge necessary to appraise the value of a farmer's business, particularly in the absence of accurate accounts, while the credits granted by merchants and dealers are inadequate in periods of depression.

In the second place the banks have been reluctant to advance money for the purchase of seasonal stock, and credit is granted by dealers during periods of depression on very unfavorable terms.

Finally, facilities are lacking for meeting the farmer's need of intermediate credit loans running for a few years—for the purchase of equipment, including machinery, permanent breeding stock, fencing, etc. The treasury regulations relating to the land settlement facilities act of 1919, which encourages the taking up of small holdings by ex-service men, provides for advances up to three years for such purposes, but otherwise such loans are difficult to obtain on easy terms. This is like the gap in agricultural credit facilities in the United States, which the new Federal intermediate credit banks and national agricultural credit corporations are expected to fill.

The committee recommends that both shortterm credit and intermediate credit be supplied in Great Britain by local cooperative credit societies, formed in accordance with Government regulations under the general direction of the Department of Agriculture, and aided by Government capital to the extent of £1 for every £1 of share capital raised by the society. It is further suggested that the State funds loaned should be raised by the sale of savings certificates in the rural districts, thus applying the savings of the rural population to rural needs. In the opinion of the committee, the societies should be left free to make loans for any agricultural purpose, with the hope, however, that they would be specially directed toward increasing the food supply. The precise details of the

plan are left for future consideration, but it is evident that these societies would differ from the agricultural credit corporations contemplated by recent American legislation chiefly in their cooperative character, the lack of statutory limitations on their powers, and their receipt of State financial aid.

Summary.-In brief, the proposals of the agricultural credit committee for the relief of English agriculture consists of direct State advances to private mortgage societies aiding farmers who purchased land during the war period, and to cooperative credit societies extending short-term and intermediate credit to any farmers or landowners. The former is expected to bring some immediate relief to a certain class, but, in general, the proposals are for permanent but slow improvement of agricultural credit facilities, whose usefulness will be largely dependent upon the initiative of farmers and landowners themselves. The fundamental difficulty with agriculture is believed to be the uncertainty of the economic outlook, and a change in this outlook can not be made by the creation of credit.

There is some dissatisfaction with the small extent of the relief thus offered, and a Scotch member of the committee makes a reservation in favor of some special arrangement to enable the farmers to meet their wages bills. The counterpart of unemployment in towns in the country is too low wages, and it is suggested that some form of mutual insurance should meet the difficulties of the agricultural laborer in times of depression as it does those of the industrial employee.

A tribunal of agricultural experts, appointed by the Government to consider not only agricultural credit but the whole question of the means to agricultural prosperity, has just issued an interim report which approves the proposals outlined above. It especially urges the extension of these credit facilities to cooperative marketing or buying associations of farmers, and emphasizes the importance of encouraging cooperation among farmers, as various investigating commissions in this country have done. In addition, the tribunal proposes the reduction of railway rates on farm produce, even at the expense of the State, the reduction of local taxes on farm property, and certain restrictions upon trade.

opinion of the committee, the societies should be left free to make loans for any agricultural purpose, with the hope, however, that they would be specially directed toward increasing the food supply. The precise details of the

COMMODITY PRICES IN ITALY.

In Italy the movement of wholesale prices since the war has been quite different from that of other leading countries. Italy did not experience the severe and prolonged decline in prices which proved so difficult for business in the United States, England, and France; nor, on the other hand, have her industries been stimulated, as in Germany, by the uninterrupted rise in prices which accompanies a continuous depreciation of the currency. Yet, through the decline of the exchange, Italian prices have now been brought nearly to the level of gold prices in the United States and England. Further, in Italy the prices of commodities and groups of commodities have drawn closer to the relationships of 1913 than in the United States. From these observations the conclusion can be drawn that, at least temporarily, a working adjustment of commodity prices is quite possible not only within a country whose currency has considerably departed from a gold basis, but also between such a country and others which are on a gold basis. At the same time, while Italy has effected such an adjustment of wholesale prices, a study of the cost of living in comparison with pre-war years raises the question whether or not the people of Italy can purchase commodities either at home or abroad in amounts equal to those before the war.

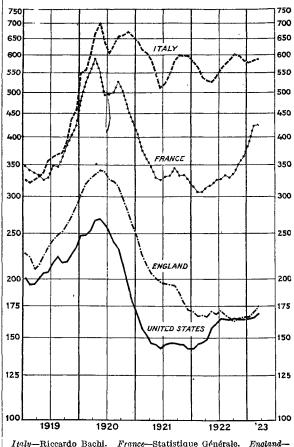
THE COURSE OF ITALIAN PRICES SINCE 1919.

In Italy, as in the United States, England, and France, prices rose until April, 1920; but whereas in the United States and England prices dropped rapidly to a lower plane, in Italy they remained at a high level, moving within comparatively narrow limits and showing a continued tendency toward stability. (See Chart I.) It is most natural to contrast price movements of Italy and France, because of numerous similarities in the two countries, and particularly because before the war they had equivalent monetary units. In January, 1919, the price levels in the two countries were close together, Professor Bachi's index for Italy standing at 324 and that of the Statistique Générale for France at 348. In 1919 and early 1920 prices in the two countries moved upward, though the rise in prices was much sharper in Italy than in France, reaching, in April, 1920, an index of 664 for Italy against 588 for France. From that date prices in France have passed through two major movements-

a violent decline to February, 1922, followed by a sharp rise to March, 1923-while in Italy there has been relative stability within a limited range where prices have moved in a series of short fluctuations, evidently seasonal.



[1913=100.]

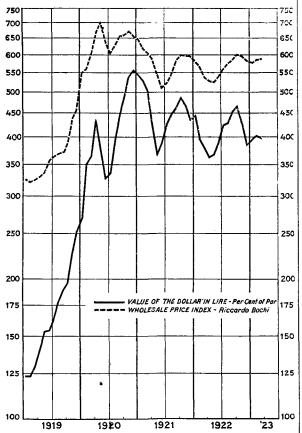


Italy-Riccardo Bachi. France-Statistique Générale. England-Federal Reserve Board. United States-Federal Reserve Board.

Seasonal fluctuations of Italian prices.—For three successive years Italian prices have regularly declined in the spring and risen in the fall. This phenomenon appeared imperfectly in 1920, and recurred in 1921 and 1922; but the course of prices so far in 1923 raises a question as to the probability of its repetition this year. As this is almost exactly parallel to the course of exchange, there is evidently a close relation between the two. The price index is an expression of the internal depreciation of the currency in terms of goods; the exchange measures the depreciation in foreign currencies and gold. Both are expressions of the same thing,

namely, the value of the lira. (See Chart While the internal depreciation of the lira 11.) preceded its external depreciation, since the index had risen to 324 in January, 1919, with exchange "pegged" near par, it is now a question whether the fluctuations of the exchange occasion the fluctuations of prices, or vice versa. An element in determining the exchange value of the lira is the direction and size of the current trade balance, in which seasonal influences play an important part.

CHART II. ITALIAN PRICES AND EXCHANGE.



The rate of the lira depends on the supply of and demand for Italian bills of exchange. The principal effective source of these bills is in the visible and invisible trade of the country. The visible balance is heavily against Italy, but this is offset by invisible items, of which the chief are the purchases by tourists, the remittances of emigrants, and the receipts of the carrying trade. For a considerable time past the trade balance of Italy has been virtually in equilibrium. Italy has not only met the enormous visible prices both at home and abroad. The general

adverse balance without resort to foreign loans, but also without the loss of gold. On the contrary, the gold imports of Italy, though small, have exceeded her gold exports. But, although the balance, considered over a period of time, is evidently in equilibrium, the exchange market has not been free from seasonal influ-In the fall Italy makes heavy purchases ences. of raw materials, such as cotton and wheat, which cause the dollar to appreciate in terms of lire, carrying prices up in Italy. In the spring a contrary movement sets in.

A study of the exchange over a period of months offers strong evidence of the very small influence of speculation in determining the movements of the exchange. As there has been, in months past, an enormous volume of speculative trading in lire, it has been popular to consider speculation as a major factor. The bulk of exchange speculation concerns itself with the day-to-day fluctuations, and in these it certainly exercises no little influence. But in the long run these minor fluctuations are so inconsequential that they are not reflected in a chart covering an extended period.

While the seasonal fluctuation of prices and exchange appeared during 1920, 1921, and 1922, in the current year there has not appeared the usual rise of Italian exchange, with its attendant decline of prices. Until the trade figures for the first quarter are available, it is impossible to state positively the cause of this stability. It is probably due to the necessity of purchasing abroad larger quantities of raw materials, notably coal, required by the revival of Italian industry. While the increased demand for foreign bills may have been instrumental in preventing a repetition of the rise of the lira this spring, it has not been sufficient to depress the rate, though political considerations may also have strengthened it. Whether or not this is the cause of the stability of the lira, the fact is that the lira has for many weeks been notably steady in foreign exchange. At the same time its domestic purchasing power has remained equally steady, and commodity prices have remained practically unchanged for the past three months.

RELATION OF ITALIAN PRICES TO WORLD PRICES.

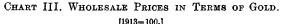
The general level of the price index in Italy measures the depreciation of the paper lira in terms of gold plus the depreciation of gold in terms of commodities. But prices derive their chief significance from their relation to other

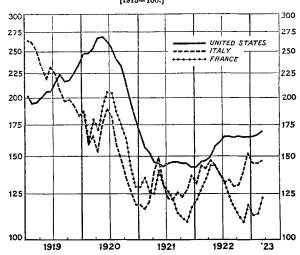
price level in Italy, whose currency is at present inconvertible, should be compared with prices in the United States which has a gold currency. A gold index of prices is obtained by multiplying the commodity index by the rate of exchange, expressed in per cent of its parity. From a study of gold prices (see Chart III), it is apparent that the purchasing power of the gold dollar is nearly the same in the United States and Italy, and, conversely, that the purchasing power of the lira is about equal in both countries. Gold prices are somewhat higher in the United States, in March about 15 per cent, if the Bachi index for Italy is compared with the Federal Reserve Board index for the United States. This spread is greater than that between American and British prices, but far less than that between French and American prices at the same time. In March the Federal Reserve Board index for the United States was 169, the gold index for England the same, for Italy 147, and for France, only 122.

So close a relation exists for Italy because the rate of exchange is fairly well adjusted to the respective price levels obtaining in Italy and the United States. This is demonstrated by comparing the purchasing power parity with the rate of exchange. The purchasing power parity is the rate of exchange at which a given number of lire will buy the same amount of commodities in the United States as in Italy. In January the purchasing power parity was \$0.0554, the average rate of ex-change for the month, \$0.0488; in February, \$0.055 and \$0.0482; in March, \$0.0556 and \$0.0485. Considering that the two indexes employed—that of the Federal Reserve Board for the United States and that of Professor Bachi for Italy-are widely different in construction, it would not be expected that the figures representing the purchasing power parity and the actual rate of exchange would be identical, even if actual prices in the two countries were the same.

The close relation between the internal value of the lira and its external value is also demonstrated by reducing them both to percentages of the pre-war purchasing power of the lira. In March, 1923, the lira in New York had 14.9 per cent of its pre-war purchasing power, in Italy it had 17 per cent of its pre-war purchasing power. The external and internal purchasing power of the lira are much closer together than are the external and internal value of the franc, but not so close as the external and internal values of the

pound sterling, which in March were identical so far as the board's index numbers show.





It is clear that the internal and external purchasing power of a currency tend to draw together, if not to coincide, as they actually did in England in March. So long as they are materially apart, the process of adjustment causes fluctuations of commodity prices or exchange rates, or both. The further apart, the more violent are likely to be the fluctuations; but as they draw nearer these fluctuations will diminish, provided always that no extraneous factor is introduced. As the fluctuations diminish, speculation in the exchanges becomes less and less profitable. When speculation in exchanges no longer affords much expectation of profit to the casual speculator, it will be reduced to mere arbitrage and cease to be a factor in causing material variations in the rate. For the past three months the opportunities for profitable speculation in Italian exchange have been very small.

THE RELATIONS OF PRICE GROUPS WITHIN ITALY.

With the exchange at present rates, commodity prices in general are approximately at American levels. As for the prices of various commodities within Italy, the degree of disparity when compared with 1913 relationships, while considerable, is less than in the United States.

and internal purchasing power of the lira are much closer together than are the external and internal value of the franc, but not so close as the external and internal values of the 125 commodities, divided into ten groups. In March, 1923, the general index number stood at 547.47, taking 1913 as 100. The following table shows the position of the groups for that month and their relation to the general average.

GROUP INDEX OF THE MILAN CHAMBER OF COMMERCE IN MARCH, 1923.

[125 commodities, 1913-100.]

0	Index	Relation to the general index.		
Group.	number. Per cent above.		Per cent below.	
1. Vegetable food products (21)	560. 57 559. 08 672. 95 424. 38 558. 15 518. 51 610. 30 537. 33	2. 4 2. 1 22. 9 2. 0 11. 5	22.5 5.3 1.9	
Average of groups 3 and 2—Foods Average of groups 3 to 8—Industrial materials.	559.92 542.31	2.3	1.9	
General index	547.47			

This is more nearly a return to 1913 relationships than has been experienced in the United States. Several of the groups composing the Bureau of Labor Statistics index are comparable to groups in the index of the Chamber of Commerce of Milan. For instance, in March, when the Bureau of Labor Statistics general index stood at 159, the index of "foods" was 143, or about 10 per cent below the general index; the index of "cloths and clothing" was 201, or 26 per cent above; of "building materials," 198, or 24.5 per cent above; and chemicals, 135, or 15 per cent below.

The two groups in Italy which are furthest removed from the general index are the textiles, 23 per cent above the average, and chemicals, 22 per cent below it. This phenomenon is not peculiar to Italy; it is general. The same relationship exists in the United States, as the Bureau of Labor Statistics index shows. There is, however, no reason for a general assumption that the relationships which existed in 1913, the year upon which the index numbers are based, are those toward the reestablishment of which development must necessarily tend.

THE COST OF LIVING.

While wholesale prices of commodities in

to the prices prevailing in other countries, the items which go directly into the cost of living still show less harmony. It is a question if the increase in wholesale prices since 1913 has yet been completely communicated to the cost of living. In December, 1922, the wholesale index of Prof. Riccardo Bachi stood at 580. For the same month, the retail food index of the Municipal Labor Office of Rome (1914 = 100) was only 475. The Rome costof-living index, which represents the food, clothing, lodging, heat, light, and miscellaneous items of a family of five, was 439. For the same month the cost-of-living index of Milan was 504.

This Milan index represents the cost of living of a workman's family of five, and is based on the prices of the first half of 1914. In February, 1923, this index stood at 497. Inasmuch as the wholesale index computed by the Chamber of Commerce of Milan for that month was 534, it seems upon first examination that the cost of living is in general harmony with the wholesale price index.

Analysis of the composing items, however, raises some doubts on this point. The index for the item of food was 500, and it is estimated that the worker must allot 62 per cent of his budget for food-the same proportion as before the war. The index of clothing, however, was 653, and for miscellaneous items 672, both over 150 points above the general index and above the item of food. "Light and heat" stood at 548, but these items account for only 4.98 per cent of the family budget, against 4.51 in 1914. The widest discrepancy occurs in the items of "housing," which stood at only 208, requiring 4.77 per cent of the budget, against 11.40 per cent before the war. In other words, the Milan family is paying propor-tionately for its rent about half as much as in 1914, and is spending the amount saved in this manner on clothing and miscellaneous items. The reason for the relatively low rents is to be found primarily in legal restrictions. But, with the index of construction materials at 519, such relatively low rents evidently not only retard new construction, but even discourage repairs to existing dwellings. The conclusion is therefore reached that as far as consumers' prices are concerned, there are possibilities of further readjustments. Food prices are low compared to those of the manufactured articles which the worker buys, and his rent is low even in proportion to his food. Italy are well adjusted both to each other and As this rent situation is so anomalous, it may

not prove lasting, and an adjustment of rents toward the general price level would reduce the general purchasing power of the population.

CONCLUSION.

The observations made in this article lead to four conclusions. First, though Italian prices have remained very near the high levels reached in 1920, the decline of the rate of exchange has effected an adjustment to world prices. With prices in Italy and the United States at or near their present levels, the rate of exchange is almost exactly representative of the mutual price relation existing between the two countries; or, conversely, with the exchange near present rates, gold prices are nearly the same in the United States, England, and Italy. Consequently the rate of exchange, at or near present levels, offers little obstacle to the free purchase of goods abroad.

The adjustment is not quite perfect, for while gold prices in England and the United States are statistically identical, they are somewhat lower in Italy. In part, this spread may be due to shortcomings in the indexes used; more likely, it is the result of a still imperfect adjustment between Italian prices and the rate of exchange. If so, it may be expected eventually to be corrected by a movement of prices, or of the exchange, or both. The present relation, however, is so close that there is no reason to apprehend that this process of adjustment by itself would cause very wide fluctuations in either prices or exchange.

Second, although Italy has taken no definite steps toward a restoration of a gold basis for her currency, in recent months both prices and exchange rates have achieved a very high degree of stability. The fluctuations have been very slight. This is due to an almost perfect balance of payments. Since a decline in the exchange would impede the importation of raw materials, while a rise in the exchange would precipitate a domestic price decline, a continuance of stability near present levels seems likely to facilitate Italian foreign commerce.

Third, commodity prices in Italy seem to be well adjusted to each other. They are nearer 1913 relationships than are prices in the United States. The United States has achieved great business activity and prosperity with commodity price relationships very different from 1913; it remains to be seen whether the different regrouping of prices in Italy will persist during the present period of greater business activity.

Fourth, the items of the cost of living index are not in harmony with each other, owing to the fact that rentals do not yet reflect the increases in construction costs. But it is possible that the remaining necessary adjustments in retail prices will be accomplished without great friction, especially as so small a fraction of the family income is normally needed for rent.

With the exchange at present rates, Italian prices are almost equal to American and British prices, or stated the other way, the present rate of exchange is almost exactly representative of the prices prevailing respectively in Italy and the United States. This fact gives promise of continued stability. Within Italy, the prices of various groups of commodities seem to be fairly well adjusted to each other, though individual commodities show considerable variation in their percentage of increase over 1913. On the whole, while the adjustment of commodity prices in Italy may not be perfect or final, it has proceeded far enough to offer little hindrance to normal trade, whether foreign or domestic.

MEXICO.

REVIEW OF THE YEAR 1922.

Economic conditions in the Mexican Republic during 1922 continued unsatisfactory because of the political uncertainty and the serious impairment of the credit structure necessary to the financing of industry and farming. The curtailment of agricultural expansion was due to the uncertainty created by agrarian reform laws. No signs of improvement appeared at the close of the year. It is hoped in Mexico, however, that the situation may be improved by the establishment of a central bank of issue, the capital for which has been authorized but as yet not subscribed, and by the proposed changes in the constitution of 1917, affecting the property rights of foreigners.

1917, affecting the property rights of foreigners. Industrial conditions.—The precarious situation of the farming and mining industries, the effects of which were felt throughout the entire country, has been given as the principal reason for the unsatisfactory economic progress made during the year. Notwithstanding the fact that the crop estimates for 1922 made by the Mexican Department of Agriculture indicate in some cases marked increases over 1921, general conditions affecting farming changed but little. The following table compares the 1922 crop estimates of the Mexican Government with the 1921 crop:

[In thousands of kilos.]

Products.	1921 crop.	1922 crop estimate.
Corn		2,127,674
Wheat		233,342
Rice Beans		21,148 137,374
Sugar		2,328,417
Barley		88,157
Chick peas	18,336	59,805
Potatoes		22,971
Pepper		22,643
Coffee		29,263
Tomatoes		11,959
Bananas		26,829
Hemp ¹		461,515
Cotton 1		99,548

¹ In bales of 250 kilograms.

It is of importance to note that the sigal hemp crop, practically the only industry on the peninsula of Yucatan, has been gradually and substantially decreasing from year to year. In 1920 the crop amounted to 936,136 bales as compared with 565,424 bales in 1921, and 461,515 bales estimated for 1922. The political uncertainty during the last decade has undoubtedly handicapped the Mexican hemp industry. A considerable number of plantations were abandoned last year following the confiscation of lands for purposes of agrarian reform. The sugar industry of the country as elsewhere was likewise depressed during The industries of the State of Morelos, 1922. which in prerevolutionary years was the largest producer of sugar in the country, showed no signs of revival in 1922, and the labor disturbances in the State of Veracruz brought about a considerable reduction in the sugar production of that State. The 1922 production of wheat was estimated by the Government about 85 per cent higher than for the previous year, but even if the actual crop should come up to the expectations of the estimators, a considerable amount of wheat must still be imported from foreign countries to supply the needs of the country, estimated at 293,642,500 kilos per annum. Conditions in the cotton industry remain unsatisfactory, and a substantial decrease in production is expected because of the lack of adequate financial help for the planters, and on account of the damages caused by the recent appearance of the boll weevil in some of the most productive sections.

The mining industry in Mexico appeared to be in a more favorable condition during 1922 than during the previous three or four years. It was noted, however, that the increase in production was due to the enlarged activities

of the larger enterprises, while a substantial decrease in production was shown by the small concerns. Prices of silver were maintained during the year at prices which, in spite of periodical labor disturbances, rendered its production in Mexico quite profitable.

According to information from official Mexican sources, on December 31, 1922, there were in the country 21,686 mines legally authorized to operate, which yielded the Government 2,473,216 pesos in taxes. The production of silver in Mexico in 1922 amounted to 2,521,832 kilos. This is an increase over that of the previous year of 516,289 kilos, or 25 per cent. Gold production in 1922 has been placed at 23,276 kilos, an increase over the 1921 production of 2,001 kilos, or 9.4 per cent. Production of lead was given as 110,455,912 kilos, against 60,513,332 in 1921, and that of copper at 26,977,786 kilos, against 15,228,075 kilos in the previous year. The following table shows the total production of the principal metals in Mexico during 1922, and their value:

	Kilograms.	Value, in pesos.
Gold. Silver Lead. Copper Zinc Mercury. Molybdenum Graphite. Arsenic. Antimony.	$\begin{array}{c} 2,521,832\\ 110,455,912\\ 26,977,786\\ 6,141,937\\ 41,826\\ 3,153\\ 2,054,279\\ 271,718\\ \end{array}$	31, 034, 322 112, 961, 418 27, 661, 976 16, 385, 305 1, 749, 490 140, 669 11, 193 124, 993 99, 686 94, 681

Operations of the Mexican oil fields in 1922 were limited in the greater part to fields already proven, not so much being accom-plished in new districts, most of which are located far from the old fields. Many test drillings were made in an endeavor to locate extensions of the old fields, and some of these proved successful. During 1922, the fields of Pánuco and Topila of the Pánuco River region were joined and these fields were also extended to the north and south. Other important sections such as Tuxpan, Cerro Azul, Toteco, etc., were likewise extended during the year. Outside of these zones experimental work was carried on in other parts of the country, indicating the possibility that further new discoveries may be made in 1923. The field operations in 1922 may be summed up in the following figures: By December, 31 1922, there had been completed a total of 251 wells, of which 61 per cent were productive and 39 per cent were abandoned. The productive wells drilled were 154 with a total initial daily

production of 1,410,319 barrels, or an average per well of 9,158 barrels. Abandoned wells numbered 97, of which 70 had become dry. Twenty-six were abandoned because of the invasion of salt water and one because of excessive expense involved in its exploitation.

Considering the fact that most of the activity was in oil fields previously exploited, some of which had begun to decline, the results obtained during the year were con-sidered as satisfactory by the Mexican Department of Industry, Commerce, and Labor. The total amount of all classes of oil in storage in Mexico on January 1, 1922, was 28,840,000 barrels as compared with 19,445,000 barrels on January 1, 1923. Production during 1922 totaled 185,712,000 barrels, of which the Panuco district furnished 46,978,000 barrels and the southern district 138,734,000 barrels, including the output of the Isthmus fields. Shipments from the Tampico district during the year totaled 185,049,079 barrels, of which shipments to Vera Cruz amounted to 1,841,334 barrels, other coastwise shipments for domestic consumption 794,035 barrels, and ships' bunkers 5,892,952 barrels, leaving a net export for the country, including reexports of coastwise shipments of 176,520,768 barrels. The total quantity of oil in storage on January 1, 1923, was 19,445,000 barrels, leaving a balance of 12,693,280 barrels representing the domestic consumption for the year. During the period from January 1 to March 13, 1923, in all the oil sections of Mexico, 39 productive wells were drilled. From these wells there was obtained a total daily production of 129,442 barrels, or an average production per well of 3,319 barrels per day. The total number of wells drilled was 66, of which 27 were abandoned, 19 being dry wells, 7 con-taining salt water, and 1 producing only a very small quantity of oil.

According to a statement of the Secretary of Commerce of Mexico, more than \$500,000, 000 United States currency has been invested in oil development in Mexico, of which it is estimated that 58 per cent has been American capital. A résumé of the figures published by the Mexican Government follows:

Source of capital.	Amount invested.	Per cent.
American. English. Dutch. Maxican All other	35, 598, 654	57.7 33.8 6.7 1.1 .7
Total	525, 296, 716	100.0

Oil-production taxes paid to the Government of Mexico during 1922 amounted to 58,374,156 pesos, as against 50,604,049 pesos in 1922. Export duties amounted in 1922 to 27,605,989 pesos, as compared with 12,280,911 pesos during the previous year.

The past year has not been satisfactory to the manufacturing industries of Mexico, with the exception of shoe manufacture. Labor troubles and political disturbances have been mainly responsible for the situation prevailing. The textile industry reached a state of almost total inactivity at the end of the year, which was due not only to labor troubles but also to the scarcity of raw material. The railroad industry showed signs of improvement during the year, which were especially pronounced in the case of the privately owned systems. Signs of railroad development on the west coast have appeared in the first months of 1923. A special Federal tax of 10 per cent on the gross receipts of railways, including express, Pullman, and other services connected with railroad operation, was created by virtue of a decree published on January 22, 1923.

Foreign trade and foreign exchange.-Complete Mexican foreign-trade figures for 1922 have not yet been issued. For the first nine months of last year exports were placed at 144,753,898 pesos. Imports into that country were estimated substantially lower than those of 1921. Decreases were more noticeable in the imports of foodstuffs, due to the improvement in the farming industries. In 1921 Mexico imported about \$5,000,000 worth of corn, whereas in 1922 this amount was reduced to about \$1,000,000. Imports of wheat and flour continue at a high level, notwithstanding the high tariff established by the Government in order to encourage domestic production. This has been explained by the necessity of mixing the foreign flour with the domestic product in order to produce a good quality of bread. Imports of the principal foodstuffs into Mexico during 1922 were as follows:

	Pesos.
Lard and greases	
Corn	2, 472, 512
Flour	1, 546, 205
Eggs	2,039,734
Eggs Rice	39,066
Hams	
Milk	404, 272
Butter	381, 683
Cheese	286, 861
1	

United States exports to Mexico in 1922 were considerably reduced. Exports, valued at \$109.884,917, were \$112,000,000 or 51 per cent

below those in 1921. On the other hand, imports into the United States showed remarkable improvement. The value of imports during 1922 was placed at \$132,000,000, as compared with \$119,000,000 for the previous year. This increase was due principally to larger shipments of coffee, hides, and crude petroleum. Trade between the United States and Mexico was facilitated by the inauguration of through bills of lading from United States ports to Mexico City through the port of Vera Cruz and over the Mexican Railway. The same arrangement is in operation through the port of Tampico and over the National Railway of Mexico.

Exchange fluctuations during 1922 were within narrow limits. The embargo on gold exports is still in force, but the increasing supply of silver currency gave rise to a gold premium on silver. The average value of the Mexican gold peso in terms of American cur-

rency for the year was 48.715 cents. Banking.—The two outstanding features during 1922 in the banking activities in Mexico were the banking crisis in November and the approval by the Mexican Congress of the establishment of a single bank of issue. It is generally understood that the privately \mathbf{It} owned banks of the country conducted their affairs during the year in a careful and conservative manner. Nevertheless, the difficulties under which the banks had to labor, due to the uncertain economic and political conditions, as well as other factors, such as the scarcity of circulating media and the discount on silver, gave rise in November to a banking crisis which extended all over the country. Of considerable importance was the failure of the Banque Française de Mexique, which occurred on November 15, 1922. A detailed account of these banking difficulties was given in the January (1923) issue of the BULLETIN (page 73).

The establishment of a central bank of issue. to be called the Banco de México, was approved by the legislative bodies of Mexico on January 20, 1923. This step became apparently necessary ever since the total breakdown of the Mexican banking system during the Carranza administration. The few privately owned institutions left to operate were without any connection with the Government. This fact, coupled with the absence of an elastic circulating medium issued by a central bank, since the present monetary system is metallic only, called for the establishment of an official amounted to 238,243,127 pesos and 279,832,933

banking institution. Scarcity of gold for circulation, depreciation of the silver currency, absence of rediscount facilities, the uncertain political situation, lack of supervision and large reserves necessitated by public distrust, emphasized the evident necessity for a bank of this character.

The bank as proposed will be chartered for a period of 15 years, subject to renewal by legislative decree. It will operate with an initial capital of 50,000,000 pesos, which may be increased to 100,000,000 pesos. The Government will subscribe to 51 per cent of the capital stock and the profits are to be distributed in a like proportion. The board of directors will be elected by the private stockholders, but the Government will appoint the managers, and the Secretary of the Treasury will act as chairman of the board regarding transactions involving 5 per cent or over of the bank's capital when the transaction is of such a nature that it may affect the economic status of the country and also in matters entailing new issues of bank notes. The Government will be responsible for the notes issued by the bank and is to have the right to purchase all shares in the hands of private individuals after 15 years of operation. The total amount of notes issued, added to deposits payable on demand or at 3 days' sight, is not to exceed twice the amount of cash and bullion on hand. As a compensation for the privilege of note issue, the proposed Banco de México is to pay the Government interest on deposits at an annual rate equal to one-third of the discount rate fixed by the bank whenever such rate does not exceed 12 per cent per annum. In case the rate exceeds 12 per cent, the Government will be entitled to receive one-third of the profit obtained by the bank in any transaction made at such rate.

The opinions expressed about the establishment of the new bank have been of a very contradictory nature. A commission was sent from Mexico to Europe to make arrangements for securing the initial capital, but no definite advices have been received as to the final outcome of the matter. A difficult banking situation still prevails in Mexico, and outside of the opening of branches of the Bank of Montreal in Veracruz and Puebla, no new banks were opened during 1922.

Public finance.-According to official statements, the total receipts of the Mexican National Government for 1920 and 1921

pesos, respectively. These amounts were made up as follows:

[In Mexican	pesos.]
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Items.	1920.	1921.
Foreign commerce and navigation Internal revenue taxes. Public services Federal real property. Other Federal property. Miscellaneous.	134,010,216 13,277,050	98, 301, 882 138, 094, 325 16, 862, 212 1, 807, 593 203, 911 24, 563, 009
Total	238, 243, 127	279,832,933

Official data published by the comptroller's office of Mexico show that Federal revenues, not including those from petroleum, decreased considerably in 1922. In the first five months of that year such revenues amounted to only 76,000,000 pesos, equal to an average monthly income of 15,000,000 pesos, or 180,000,000 pesos for the year, against an estimated revenue of 255,000,000 pesos for the year 1922. The revenues of the Republic in 1923 have been estimated at about 260,000,000 pesos. Discrepancies exist in reports as to the amount and distribution of disbursements. Total expenses of the Federal Government of Mexico for the fiscal year 1922 were 226,246,243 pesos, according to the annual report of the comptroller general. In a statement credited to the minister of foreign affairs, total expenditures for 1921

are given as 277,043,852 pesos. The total amount of the Mexican public debt as of July 10, 1922, was calculated at 528,287,000 pesos, of which 333,232,416 pesos constituted the amount of the foreign debt and 166,857,000 the total of the internal indebtedness of the country.

The outstanding feature of the year with regard to the Mexican foreign debt was the agreement entered into between the Mexican Government and the International Committee of Bankers for resumption of payments in cash on account of current interest on Mexican obligations. This plan, drawn up on June 16, 1922, and approved by President Obregon on August 7, 1922, provides that a minimum fund, to be increased annually, be set aside by the Mexican Government for each of the five years beginning January 2, 1923. At the end of this period full payments in cash of the service on all obligations are to be resumed and all provisions of the contracts under which the various bonds in question were issued are to be restored. The plan further provides that the Mexican Government shall set aside toward payment of such current interest coupons on bonds as mature after January 2, 1923, the entire proceeds National Railway system.

of the oil export tax, 10 per cent of the gross revenues of the National Railways of Mexico, and the entire net operating revenues of these railways.

The Mexican Government agreed to provide for such current interest no less than 30,000,000 pesos during the calendar year 1923; and an additional 5,000,000 pesos each year for the ensuing four years, bringing the fund up to 50,000,000 pesos in the fifth year. These cash interest payments on coupons maturing after January 2, 1923, were during the first year to have been made on a scale varying from 50 per cent to 100 per cent on the external loans; at the rate of 25 per cent on the internal 3 and 5 per cent bonds; 50 per cent on the State bonds, and, in general, from 50 to 65 per cent on the railway loans, except that the railway notes secured by Government bonds were to receive 100 per cent. After 1923 the increases in the minimum fund provided by the Government for current interest should permit an increase in the scale of cash payments on all bonds receiving less than 100 per cent in the first year, and should permit payment of full current interest in cash in the fourth year upon all bonds, except the internal 3 and 5 per cent bonds and the State issues guaranteed by the Mexican Government. At or prior to the completion of the five-year period beginning January 1, 1923, the interest coupons maturing on or before January 2, 1923, are to be detached and lodged with special depositaries against the issue of receipts of certificates to an equivalent face amount. Such receipts or certificates are to be purchased or redeemed by the Government from a fund sufficient to retire them in full, extending over a period of forty years, beginning January 1, 1922. Certificates for arrears of interest will be of two kinds—class "A" and class "B"; class "A" to be com-pletely retired prior to class "B." All sinking funds are to be postponed for a period not to exceed five years from January 1, 1923.

The plan of adjustment deals with all external Mexican debts, direct or guaranteed, the National Railway debt, and certain so-called internal Government debts largely held outside of Mexico. The total face value of the securities covered is more than 500,000,000 pesos, on which the interest in arrears amounts to approximately 200,000,000 pesos. A detailed report in connection with the railway obligations of the Mexican Government was given in the November, 1922, BULLETIN (page 1323), containing also the text of the agreement in connection with the reorganization of the

GOVERNMENT CONTROL OF BANKING AND FOREIGN EXCHANGE IN BRAZIL.

The monetary system of Brazil, although nominally on a gold basis, has been since 1918 composed principally of inconvertible paper currency. In order to provide for the conversion of paper currency into gold at a fixed rate the Government in 1906 established the Conversion Office, which was empowered to redeem Brazilian paper notes at the rate of 15 pence gold per paper milreis. This rate was changed to 16 pence per milreis in 1910. successful operation of the Conversion Office was interrupted at the outbreak of the war, when a sudden demand for a great quantity of gold was made upon that office, with the result that its operations were suspended. This suspension is still in force. A law enacted in April, 1918, authorized the National Treasury to issue against the gold transferred from the Conversion Office five times its value in inconvertible notes. As a consequence of this procedure and of the emission of large amounts of inconvertible notes for various purposes on the authority of different decrees, the amount of inconvertible paper currency increased from a total of 601,488 contos in 1913 to 1,679,176 contos in 1918, 1,730,000 contos in 1920, and 2,226,276 contos on November 30, 1922. The Institution for the Permanent Protection of Coffee and Other Produce is also empowered by law to issue paper currency guaranteed by that part of the gold reserves held as security for paper currency, under certain conditions, as well as by 80 per cent of the value of coffee purchased by the commission, or by warrants in favor of other parties. The gold reserves of Brazil amounted in 1922 to about 85,203 contos. Thus the ratio of gold reserve to total circulation amounts to about 4 per cent. It is clear, therefore, that the fluctuations in the value of the Brazilian currency are to a very large extent affected by the total amounts of paper outstanding, which in turn change according to the condition of trade and exchange.

According to statements from official sources, the principal reason for Government control over bank operations in Brazil was that certain banks were responsible for the speculation in exchange which started soon after the declaration of war, and which was accompanied by rapid fluctuations in the rates of exchange. Before the enactment of the final law of March 16, 1921, providing for permanent value of the currency, the milreis rising from official control of banking and exchange in a low quotation of 23 cents in September,

Brazil, several laws had been passed directed toward the governmental regulation of bank transactions in foreign exchange. The most important of these laws went into effect on December 18, 1917, soon after the declaration of war between Brazil and Germany. Under the terms of that law banking transactions in exchange were subject to the daily inspection of commissions composed of officials of the Treasury in Rio de Janeiro and of officers of the Banco do Brasil in the different States of the Union.

Although speculation in exchange was partially checked after the enactment of the above law, its effect upon the value of the milreis does not seem to have accomplished the results expected by the promulgators of the law. The table on pages 594-595 indicates that, while the value of the Brazilian milreis rose slightly in January, 1918, one month after the first official control law was enacted, a downward trend started in February and continued even after the enactment of a new decree on July 19, 1918. This decree prohibited the exportation of securities and remittances to foreign countries except when payments were intended to cover obligations contracted by the Federal Government, the States, municipalities, or corporations, or when used as coverture for merchandise of free importation or when destined for the support of Brazilians or non-

enemy aliens who possessed property in Brazil. As a means of properly enforcing the provisions of the above laws, the Government imposed a certain number of rules for the regulation of exchanges, several of which gave rise to considerable criticism on the part of bankers, on the ground that their operations were hampered thereby to a great extent. Some of the most important of these rules were: (1) All contracts for the sale or purchase of foreign exchange were to contain the names of the purchaser and the seller and this information was to be transmitted to the proper supervising committee; (2) all time exchange transactions were prohibited; (3) bank to bank exchange operations were suspended; and (4) remittances of securities were considerably curtailed by the committee and shipments were strictly controlled by it.

The close of the year 1918 marked the beginning of a period of exceptional commercial activity and speculation in Brazil. Demands made by the buying nations for Brazil's staple products had a considerable effect upon the 1918, to a high mark of 33 cents in December of the following year.

After the close of the war the Minister of Finance considered it expedient to continue the official control of banking and exchange operations, and on January, 1920, a commission was appointed to frame a law having for its object the permanent official regulation of foreign exchange. In May, 1920, a draft of the bill was submitted to the Minister. The framers of this bill reported that permanent control was deemed necessary for the following reasons: That the banking establishments in Brazil were under no official supervision whatsoever; that it was a difficult task to ascertain whether or not the credit institutions were duly complying with the tax laws; that domestic institutions were organized in accordance with requirements of law, while the foreign banks were established by virtue of Executive concessions granted them, and that no measures were taken to determine whether either were complying with the laws under which they operated. With regard to foreign exchange, the commission reported that official control was necessary in order to prevent the circulating media of Brazil from being subject to speculative fluctuations, and to place the domestic currency in a position where economic forces would be the only ones to affect its value in terms of foreign currencies.

After a series of parliamentary discussions and amendments of the original project of the banking control law, it was finally approved on March 16, 1921. The Banco do Brasil, the semiofficial bank of the country, was given by the provisions of the law full control over foreign exchange.

The principal provisions of the official banking control law may be summarized as follows:

Banks and banking houses, agencies of banks, domestic and foreign, to be under the supervision of the Inspector General of Banks under the Ministry of Finance. Establishment of banks permitted only by authorization of the Government upon application.

Application of banks must prove: Organization according to law of Brazil or of the country of head office. Foreign establishments must present their by-laws, a complete list of shareholders, and certificate containing a declaration of amount of capital.

Obligations imposed on foreign banks: To maintain a representative in Brazil; to be subject to the Brazilian law; to conduct transactions only as authorized by the approved by-laws; to realize within a maximum of two years from date of published authorization at least twothirds of their capital; the opening of other agencies in Brazil besides those named in decree of authorization to be dependent on permission of the Government; to contribute annually to the expenses of supervision; to submit to cancellation of their authorization in case of violation of the country's laws; capital and assets of branch not to be

liable for obligations contracted by agencies in other countries; the decree of authorization may institute for the foreign establishment the principle of reciprocity, and may grant it in the Republic the same advantages and privileges as are granted to Brazilian banks in the country of origin; minimum capital of 9,000 contos of reis required for establishment of branch of foreign banks; deposit of 50 per cent of the capital in Bank of Brazil required before authorization, money to be returned after authorization.

No money in form of precious metals coined, in dust, bars, or any form may be exported without a permit viséed by the office of the inspector.

Banks, domestic and foreign, dealing in exchange required to deposit currency in the treasury for each city where they operate; deposits to be in gold or Brazilian gold securities; amount of deposit shall equal one-tenth per cent of total exchange transactions, purchases and sales combined, of the previous year and calculated according to the official average of exchange for the preceding year, and shall not be in excess of 1,000 contos for the principal establishment, its agencies and branches jointly, and not less than 100 contos. In places where volume of exchange transactions is less than 1,000 contos of reis annually, deposit may be reduced; establishments beginning operations shall deposit 100 contos of reis.

Whenever required by public interest, the Ministry of Finance shall have the right to suspend the previous authorization of the inspector's office for all remittances such as drafts, checks, letters of credit, bills of exchange, etc.—all of which have for their purpose the export of securities or the transfer of funds abroad; all transactions connected with the purchase of exchange; to prohibit exportation of securities and remittances abroad other than: Payments of obligations of the Government, etc.; charitable remittances; support of Brazilians or foreigners abroad; payment of goods of unrestricted importation; to suspend or postpone exportation of securities to avoid depreciation in price or fluctuations in exchange; to prohibit or restrict purchase or sale of exchange and time export bills and exchange transactions among banks of the country.

The enactment of the permanent official aw was immediately followed by a sharp fall in the value of the milreis, which dropped $1\frac{1}{2}$ points in terms of United States currency during the course of the month following that in which the law was passed. The downward trend thus started was not checked until July, when the milreis had reached the lowest mark since its par value was fixed at 32.45 cents in 1910.

During 1922, with the exception of a slight improvement in the value of the milreis in March, the downward trend of the Brazilian exchange continued unchecked. In September the milreis declined to 11 cents during the short-lived prohibition of interbank exchange transactions provided for by a law enacted about the middle of that month. This law was rescinded by the Minister of Finance early in the following month, because of a protest filed by the local banks and the commercial associations of Rio de Janeiro. The withdrawal of the above law was followed by a rise in the rate of exchange, which may be taken as an indication that the present exchange situation FEDERAL RESERVE BULLETIN.

in Brazil is considerably affected by the official Those who condemn the policy control laws. of official control contend that official speculation has been substituted for private speculation with the result that legitimate commercial operations have been seriously hampered. Were the Banco do Brasil in a position to

satisfy the market requirement for exchange, it is said, the general situation would be likely to present a different aspect, but at times the Banco do Brasil itself requires more exchange for its own operations than it can sell.

It appears that the official-control law directed to curb speculation in exchanges has resulted in limiting the supply and demand of exchange necessary for the requirements of the importers and exporters, but its provisions are not sufficiently broad to regulate the supply demand at times of seasonal need. and Under present conditions, in certain periods several millions in sterling bills are offered monthly and no takers are to be found in Brazilian exchange markets, except for remittances against imports or payments for account of the Government. At such times the efforts directed toward disposing of the large surplus of bills force rates on milreis up, but in other periods, bills being scarce, demand for foreign bills forces Brazilian exchange downward, and the fall is always more violent than the rise. Such violent fluctuations have most harmful effects upon the general economic status of the country. In the case of Brazil, it is very difficult to maintain a fixed relation between gold and paper currency, since the paper money of the country is largely secured not by gold but only by domestic products, such as coffee, the value of which may fluctuate widely. Inconsequence, the value of the milreis rises and falls largely in accordance with the variations of the trade balance. The function of the Brazilian banks in this connection would seem to be to use part of their resources and those of their clients to keep the supply of and the demand for exchange bills fairly well balanced. To attain this end, it is evident that the purchase and sale of "futures" in exchange would have to be widely practiced. The laws providing official control, on the other hand, place heavy restrictions on operations of this character since they are considered highly speculative. The conclusion reached by a number of prominent Brazilian authorities is that in the case of Brazil it seems necessary to find some means of placing a check upon exchange speculation by credit institutions, perhaps by rigid inspection,

but that the total elimination of speculation could not be effected without seriously hampering the country's trade.

The profits realized by the Banco do Brasil during the first 18 months of permanent official control have been very considerable. In a recent report of the bank the amount is given as about 25,865,000 milreis. An analysis of the situation shows that the shareholders of the Banco do Brasil and consequently the Government, have been highly benefited by the official control.

The attitude of the new administration toward banking and exchange control has not yet become definitely known. However, in order to facilitate exchange transactions, the minister of finance has instructed the inspector general of banks to limit the official control of exchange transactions to compliance with the three following regulations, while consideration is being given to definite modifications of the law in force: (1) the forwarding of statements showing in detail the exchange operations of every bank during the previous day; (2) the legalization of exchange contracts which are to be stamped and signed by the fiscals or inspectors, and, (3) the prohibition of the opening of current accounts in foreign currencies. This has been taken by many as an indication that the present administration is inclined to modify to a great extent the system of official control at present in operation. Notwithstanding the fact that the above in-structions would indicate that the present administration is disposed to facilitate exchange transactions, the value of the milreis has not improved during the first quarter of the current year, but, on the contrary, the milreis shows a tendency to fall still further.

MONTHLY RANGE OF BRAZILIAN EXCHANGE IN NEW YORK, 1917-1922.

[In cents per milreis. Par of exchange: 1 milreis=32.44 cents.]

	19	17	19	18	1919		
Month.	High.	Low.	High.	Low.	High.	Low.	
January	23.6	23.2	27.1	26,6	26.8	25.0	
February	23.5	23.0	26.7	25.8	26.1	25.5	
March	23.2	22.9	26.4	25.8	26.4	25.8	
April	24.4	23.0	25.8	25.3	27.0	25.8	
May	26.8	24.9	25,6	25.2	28.3	27.0	
June	26.9	25.6	25.6	24.9	28.3	27.6	
July	26.8	24.7	24.9	23.0	28.8	26.5	
August	25.6	24.8	24, 2	23.5	27.5	24.9	
September	25.2	24.7	24.0	23.0	25.0	24.5	
October	25.6	25.1	25.0	23.5	25.7	25.0	
November	26.3	25.2	27.0	24.8	25.3	25.0	
December	26.9	25.9	27.2	26.5	33.0	27.8	

Monthly	RANGE	OF	BRAZILIAN	EXCHANGE	IN
Nev	VYORK,	, 19	17-1922-Co	ntinued.	

Month.	19	20	19	21	1922			
Month.	High.	Low.	High.	Low.	High.	Low.		
January February March April May June June July August September October October November December	$\begin{array}{r} 27.1 \\ 26.4 \\ 26.1 \\ 23.8 \\ 21.8 \\ 19.5 \end{array}$	27.3 25.8 25.8 26.4 26.1 23.8 21.4 17.6 16.4 16.8 15.4 13.9	15.8 15.6 15.7 14.0 14.1 13.5 11.5 12.5 13.0 13.3 13.0 13.3	14. 4 14. 5 13. 7 13. 1 13. 1 10. 9 10. 0 12. 0 12. 4 12. 9 12. 8 12. 8	12.9 13.8 14.3 13.7 13.9 14.1 13.6 13.6 13.6 13.6 11.6 12.1 12.2	12.8 12.8 12.6 13.4 13.6 13.9 13.5 13.2 11.5 11.0 11.3 11.6		

From the foregoing exposition of facts it may be concluded that, although there have been in Brazil several causes which have been instrumental in bringing about a gradual depreciation of the Brazilian currency, the official control of banking and exchange has not been successful in preventing the continued fall in exchange and in itself has probably contributed to bring about the decline. In point of fact, the value of the paper milreis stood in the neighborhood of 15 cents when the regulations for permanent supervision of banks and exchange came into force, and later fell to 13 cents, where it was successfully pegged for some time, but finally collapsed to 10 cents during the shortlived prohibition of interbank exchange transactions in September, 1922. A slight improvement was felt, however, during the last two months of that year, but in the first four months of 1923 the quotations of the milreis stood again in the neighborhood of 11 cents. In relating the fluctuations of the milreis to the trade balance, it must be considered that the money of Brazil is not gold or silver, but an arbitrary unit of value termed "milreis," by which all operations of exchange, domestic and foreign, are conducted. Consequently, if a foreign bill of exchange rises in value measured in the currency of the country, the value of that currency appraised by a sterling standard must have depreciated proportionately, as happens to every class of commodity when demand exceeds supply. The factors of value of the milreis are twofold-first, the relation of the supply of the circulating medium to demand or the proportion of the currency actually in circulation to the requirements of the people; and, secondly, the relation of the supply to the de-mand of foreign bills for the liquidation of ence on the Brazilian currency.

foreign engagements. With regard to the first factor, there has been an emission of 466,338 contos, or about 26 per cent of the currency in circulation since 1920. Such an increase would have naturally tended to depress the value of the milreis, but not to the extent of the present level. The paper money in circulation in Brazil since 1913 and the average annual rate of the milreis in terms of pence follows:

	Milreis.	Average exchange (in pence).
End of— 1913	$\begin{array}{c} 601, 488, 303\\ 822, 496, 018\\ 982, 098, 527\\ 1, 122, 559, 761\\ 1, 339, 414, 967\\ 1, 679, 176, 058\\ 1, 729, 061, 523\\ 1, 730, 000, 000\\ 1, 900, 000, 000\\ 2, 226, 276, 000\\ \end{array}$	$15.61 \\ 14.21 \\ 12.29 \\ 11.59 \\ 12.23 \\ 12.55 \\ 14.15 \\ 14.15 \\ 8.9 \\ 7.5$

The relation between the average exchange rates and the amount of paper in circulation appears to be quite consistent from 1913 to 1916. After that date the average quotation rose year by year, notwithstanding the in-creased amount of paper emissions. In 1920, however, a reaction took place which was not due to increased emissions. This break was due, therefore, to a different cause. That the recent decline in milreis was not due to an unfavorable balance of payments is shown in the following table:

Years.	Balance of trade.										
	Ing	oounds ster	ling.	In pence.							
1919 1920 1921 1922	+51.908 -17.484 -1.881 +19.000	$10.000 \\ 11.500 \\ 13.500 \\ 15.600$	+41.908 -28.984 -15.381 +3.400	14.15 14.1 8.95 7.5							
Total	+51.543	50.600	+943								

¹ Estimates.

Since the decl ne in value of the milreis can not be accounted for adequately either by the growth of circulation or by the balance of international payments, it has been widely held that official control, with its restrictions upon dealings in futures, has had a depressing influ-

PRICE MOVEMENT AND VOLUME OF TRADE.

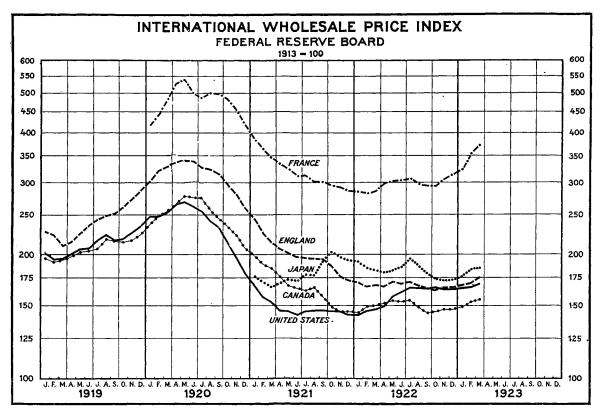
INTERNATIONAL WHOLESALE PRICE INDEX.

Wholesale prices in the United States and foreign countries were still rising in March, according to the board's index numbers, which showed that the increase was more rapid than during February in this country and England, but less rapid in the other three countries, Canada, Japan, and France. The tables on the following page show the movements in number of points.

The gold-basis figures indicate higher levels also, as there were no downward movements of exchange to offset rising prices. In England and the United States gold prices during March were at the same level, showing that between these two countries a closead justment of foreign exchange and domestic price levels has been attained.

In general, prices of commodities entering into foreign trade moved more noticeably than domestic goods. Particularly in Japan and the United States imported goods rose rapidly. There has been a very general upward trend in imported goods in all countries since March, 1922.

In England minerals and metals took the leading place in the rise of domestic goods, causing raw materials to advance more rapidly than producers' or consumers' goods. Farm products showed very slight changes as compared with February. In Canada both producers' and consumers' goods have shown a parallel upward movement since the fall of last year. During March these trends continued. In France the advance of consumers' goods, which was so great in February, slackened in March. On the other hand, the raw materials group, including minerals and metals, raw textiles, grains, and animal products, and the group of producers' goods, including chemicals and steel products, continued to advance as in February.



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The tables below give in full from 1919 to date the all-commodities and group index numbers of wholesale prices in the five countries included in the Federal Reserve Board's index. Figures have not been computed for France prior to 1920, nor for Japan prior to 1921. In the first table the all-commodities index for each country is shown both in terms of the respective currencies and "converted to a gold basis." The latter figures take into account the deprecia-tion of foreign currencies in terms of the American dollar and indicate relative price levels in the several countries when all prices are expressed in dollars.

INTERNATIONAL WHOLESALE PRICE INDEX-FEDERAL RESERVE BOARD.

	Bas	ed on price	s in respect	tive curren	Converted to gold basis.						
Year and month.	United States.	England.	France.	Canada.	Japan.	United States.	England.	France.	Canada.	Japan.	
1913 average	100	100	100	100	100	100	100	100	100	100	
1919 average	211	241		207		211	218		199		
1920 average	239	314	478	250		239	237	174	223		
1921 average	148	201	321	167	181	148	159	124	150	175	
1922 average	157	167	298	149	182	157	152	126	147	175	
1010		1	}))]	1	
1919.	201	227		196		201	222		192		
January February	194	222		190		194	217		187		
March.	195	210		193		195	203		189		
April	200	214		198		200	205		193		
May	206	224		202		206	215		196		
June	207	234		204		207	222		198		
July	216	242		207		216	220		200		
August	223	249		218		223	218		208		
September	217	251		216		217	215		208		
September October	218	261		214		218	224		206		
November	225	272		217		225	229		208		
December	233	287		223		233	225		206		
1090							1	1			
1920.	248	305	417	239		248	231	183	218		
January February	248	320	417 441	239		240	231	161	215		
March.	245	329	441	253		253	252	179	210		
April	205	334	525	203		255	232	170	242		
May	269	340	537	205		269	269	191	251		
June	269	339	500	276		263	205	205	243		
July	254	326	485	274		254	259	200	241		
August	240	320	500	258		240	239	186	228		
September	232	315	497	244		232	228	174	220		
October	214	297	483	234		214	212	163	212		
November.	196	280	456	221		196	198	142	197		
December	179	260	420	208		179	187	129	179		
1001										1	
1921.	100		0.07	100	170	100	100	129	175	172	
January	168	244	387	199	176	168	188	129	175 166	167	
February March April	157 152	226 213	364 345	189 184	· 171 167	157 152	180 171	135	160	163	
Marcii	152	213	333	177	169	132	166	120	157	164	
May	140	208	323	168	173	140	164	140	150	168	
June	145	197	311	165	173	145	153	130	147	166	
July	142	197	312	163	178	145	146	126	144	171	
Angust	146	195	302	166	177	146	147	121	150	172	
September	146	194	301	158	192	146	149	113	141	1.86	
August September October	145	187	295	149	202	145	149	111	136	193	
November	145	177	292	145	197	145	144	109	133	189	
December	142	172	287	145	193	142	147	117	135	186	
1922.			[1	1	1	1		1	
	142	170	286	144	191	142	147	121	137	181	
January February	142	167	280	149	185	142	150	121	145	176	
March	140	168	287	150	183	140	151	134	145	173	
April	149	167	287 299	152	180	149	152	143	148	173	
May	158	171	302	154	183	158	157	143	152	174	
June	161	169	304	153	187	161	155	138	151	179	
July	165	171	307	154	195	165	156	131	152	187	
August	165	168	298	149	187	165	154	123	149	179	
September	164	165	294	144	179	164	150	117	144	171	
October	165	163	294	145	174	165	148	112	145	168	
November	164	165	307	147	172	164	152	109	147	167	
December	164	166	315	147	173	164	157	118	146	170	
1923.											
January	165	167	324	148	176	165	160	112	147	172	
February	166	170	355	152	183	166	164	113	150	178	
March.	169	175	372	155	185	169	169	122	152	180	
								1			

UNITED STATES.

ENGLAND.

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		[19)13=100.	1						[1913=100.]					
Year and month.	Goods pro- duced. (82)	Goods im- ported. (19)	Goods ex- ported. (39)	Raw ma- terials. (37)	Pro- ducers' goods. (31)	Con- sum- ers' goods. (33)	All com- modi- ties. (101)	Year and month.	Goods pro- duced. (55)	im-	Goods ex- p orte d. (40)	Raw ma- terials. (38)	Pro- ducers' goods. (35)	Con- sum- ers' goods. (24)	All com- modi- ties. (97)
1919 average 1920 average 1921 average 1922 average	*214 242 148 154	174 191 108 123	221 235 136 157	209 235 141 166	198 237 142 139	221 244 160 157	211 239 148 157	1919 average 1920 average 1921 average 1922 average	238 315 207 169	247 294 171 155	275 438 183 155	226 291 197 168	261 355 178 145	241 292 219 181	241 314 201 167
1919. January February March April June June Juny August September October November December	198 203 208 209 219 226 220 221 221 228	$\begin{array}{c} 168\\ 163\\ 163\\ 165\\ 172\\ 180\\ 176\\ 174\\ 170\\ 174\\ 179\\ 203\\ \end{array}$	207 199 201 218 221 232 227 219 233 250 254	195 190 196 201 208 217 217 217 211 213 220	192 191 185 181 184 192 200 206 203 207 213 223	212 201 200 208 214 213 223 237 231 230 236 243	201 194 195 200 206 207 216 223 217 218 225 233	1919. January February March June June July August September October November December	221 215 202 208 220 231 240 250 253 262 273 283	244 240 233 230 234 241 247 246 246 259 269 280	242 231 222 233 265 278 302 332 345 399	$\begin{array}{c} 210\\ 208\\ 206\\ 207\\ 211\\ 216\\ 222\\ 234\\ 239\\ 250\\ 255\\ 261 \end{array}$	238 229 200 213 237 257 269 277 277 277 288 310 331	241 234 226 229 236 244 243 241 249 260 267	227 222 210 214 234 234 242 249 251 261 272 287
imit 1920. January February. March April May June. July August September. October November. December.	255 269 270 265	$\begin{array}{c c} 212\\ 216\\ 218\\ 242\\ 246\\ 226\\ 208\\ 182\\ 164\\ 142\\ 127\\ 112\\ \end{array}$	$\begin{array}{c} 264\\ 260\\ 266\\ 272\\ 271\\ 265\\ 256\\ 236\\ 219\\ 187\\ 168\\ 151\\ \end{array}$	245 242 246 263 258 249 237 233 211 192 176	236 247 263 274 265 251 235 225 209 190 171	257 255 255 270 273 267 263 245 234 221 206 187	248 248 253 267 269 262 254 240 232 214 196 179	1920. January. February. March. April	302 316 327 332 341 344 330 322 319 301 285 266	298 314 319 324 322 306 299 304 288 272 253 230	452 478 483 486 484 469 452 439 421 392 369 328	270 281 292 306 308 307 307 307 301 290 282 265	358 392 406 409 396 363 352 341 , 309 278 244	$\begin{array}{c} 289\\ 291\\ 300\\ 306\\ 310\\ 311\\ 202\\ 297\\ 296\\ 282\\ 267\\ 255 \end{array}$	305 320 329 334 340 339 326 322 315 297 280 260
1921. January February April. May June July August September October November December	155 148 148 140 143 144 144	114 113 114 109 105 102 103 104 106 107 108 111	$147 \\ 140 \\ 129 \\ 125 \\ 129 \\ 126 \\ 126 \\ 127 \\ 149 \\ 146 \\ 143 \\ 141 \\ 141$	$164 \\ 152 \\ 146 \\ 136 \\ 139 \\ 133 \\ 133 \\ 133 \\ 133 \\ 138 \\ 140 \\ 141 \\ 140 \\ 140 \\ 141 \\ 140 $	$166 \\ 158 \\ 153 \\ 148 \\ 145 \\ 140 \\ 136 \\ 133 \\ 133 \\ 132 \\ 128 \\ 127$	$173 \\ 162 \\ 159 \\ 155 \\ 152 \\ 154 \\ 162 \\ 167 \\ 162 \\ 158 \\ 157 \\ 153 $	$168 \\ 157 \\ 152 \\ 146 \\ 145 \\ 145 \\ 145 \\ 146 \\ 146 \\ 146 \\ 145 \\ 145 \\ 145 \\ 145 \\ 142 $	1921. January February March April. May June July August. September October November. December.	252 234 219 209 206 204 202 199 192 182 176	$\begin{array}{c} 207\\ 190\\ 182\\ 180\\ 167\\ 161\\ 164\\ 165\\ 170\\ 163\\ 154\\ 152\end{array}$	246 201 189 185 182 179 174 168 171 175 164 158	233 213 202 201 198 196 192 193 195 187 177 173	$\begin{array}{c} 231 \\ 213 \\ 198 \\ 184 \\ 179 \\ 173 \\ 165 \\ 165 \\ 166 \\ 153 \\ 147 \end{array}$	261 246 231 225 216 213 222 223 212 200 191 186	$\begin{array}{c} 244\\ 226\\ 213\\ 206\\ 201\\ 197\\ 196\\ 195\\ 194\\ 187\\ 177\\ 172\end{array}$
1922. January February March April. May June June July August September October November	146 155 158 162 162 161 161 161 160	110 110 111 115 119 124 128 127 128 127 128 135 137 138	$139 \\ 142 \\ 144 \\ 145 \\ 163 \\ 165 \\ 162 \\ 157 \\ 163 \\ 163 \\ 173 \\ 173 \\ 174$	141 145 147 150 164 167 177 184 181 179 177 177	$127 \\ 127 \\ 126 \\ 129 \\ 137 \\ 141 \\ 143 \\ 144 \\ 147 \\ 150 \\ 150 \\ 150 \\ 149 \\ 149 \\ 149 \\ 149 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 126 \\ 127 \\ 127 \\ 126 \\ 127 \\ 127 \\ 126 \\ 127 $	$ \begin{array}{r} 150 \\ 155 \\ 157 \\ 156 \\ 160 \\ 164 \\ 163 \\ 156 \\ 156 \\ 156 \\ 156 \\ 157 \\ \end{array} $	$142 \\ 146 \\ 147 \\ 149 \\ 158 \\ 161 \\ 165 \\ 165 \\ 165 \\ 164 \\ 164 \\ 164$	1922. January. February. March. April. June. June. July. August. September. October. November. December.	$174 \\ 171 \\ 172 \\ 171 \\ 175 \\ 172 \\ 172 \\ 172 \\ 172 \\ 165 \\ 160 \\ 161 \\ 164$	$149 \\ 148 \\ 147 \\ 148 \\ 153 \\ 154 \\ 158 \\ 155 \\ 157 \\ 161 \\ 165 \\ 163 \\ 163$	$158 \\ 151 \\ 153 \\ 152 \\ 155 \\ 158 \\ 158 \\ 159 \\ 154 \\ 149 \\ 154 \\ 157 \\ 157 \\ 157 \\ 157 \\ 157 \\ 158 \\ 157 $	$171 \\ 168 \\ 170 \\ 167 \\ 169 \\ 167 \\ 168 \\ 170 \\ 166 \\ 165 \\ 166 $	$147 \\ 144 \\ 142 \\ 143 \\ 146 \\ 148 \\ 147 \\ 143 \\ 143 \\ 143 \\ 144 \\ 146 $	181 183 183 191 186 190 183 177 170 172 177	$\begin{array}{c} 170 \\ 167 \\ 168 \\ 167 \\ 171 \\ 169 \\ 171 \\ 168 \\ 165 \\ 163 \\ 165 \\ 166 \\ 166 \end{array}$
1923. January February March	$ \begin{array}{r} 162 \\ 162 \\ 164 \end{array} $	139 146 154	180 187 193	182 182 184	150 156 165	$156 \\ 154 \\ 155$	$\begin{array}{c} 165\\ 166\\ 169\end{array}$	1923. January February March. A pril.	165 168 174 176	164 166 169 170	165 172 185 191	167 171 178 180	151 153 158 161	175 177 179 180	167 170 175 177

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			ANCE.							JAPAN	—Conti	nued.			
Year and month.	pro-	Goods im- ported.	ex-	Raw mate- rials.	Pro- ducers' goods.	Con- sum- ers'	All com- mod-	Year and month.	Goods pro- duced.	-	ex- ported.		goods.	Con- sum- ers' goods.	
	(66)	(32)	(34)	(39)	(36)	goods. (23)	ities. (98)		(62)	(28)	(21)	(18)	(35)	(37)	-
1920 average 1921 average 1922 average 1920.	466 322 295	536 313 310	512 288 295	506 341 324	433 248 235	474 348 309	478 321 298	1922. AugustSeptember October November December	192 183 176 173 175	160 156 159 166 165	189 189 195 194 192	161 159 166 173 171	187 177 171 168 167	202 190 179 173 177	
January February March April May June	401 419 458 498 512 484	495 542 579 651 655 574	489 535 563 633 653 539	455 483 510 549 559 518	373 408 437 482 498 482	398 409 468 522 535 488	417 441 479 525 537 500	1923. January February March	176 183 184	175 184 193	199 214 212	178 192 194	176 186 190	174 177 178	
July August September	477 494 493	$524 \\ 532 \\ 517$	496 500 501	503 523 520	459 453 441	481 503 506	485 500 497				NADA. 13=100.]				
October November December	481 454 422	489 466 408	463 400 373	508 496 452	417 396 350	496 447 430	483 456 420		pro-	Goods im- ported.	Goods	Raw mate- rials.	Pro- ducers'	Con- sum- ers'	
1921. January February		383 349 330	352 330 305	406 382	304 276 269	422 444	387 364	Year and month.	(63)	(38)	(37)	(34)	goods. (29)	goods. (38)	
March April May June July August	334 330 317 317	326 285 279 282 290 314	280 269 256 261 261 261 276	358 354 335 332 328 328 322 328	209 259 240 226 232 229 240	384 361 368 347 348 330 200	345 333 323 311 312 302 301	1919 average 1920 average 1921 average 1922 average 1919.	168	$204 \\ 253 \\ 164 \\ 160$	220 268 181 145	197 235 155 138	188 255 174 151	$227 \\ 270 \\ 183 \\ 164$	-
September October November December 1922.		314 314 304 303 295	270 291 294 283 277	328 319 315 313 308	240 238 233 230 229	309 304 305 294 299	295 292 287 286	January February March April May	190 193 199 204	201 198 198 193 193	209 207 209 211 213	183 175 179 186 192	186 185 181 175 177	219 216 219 224 226	
January. February. March. April May. June. July. August.	282 288 302 305 305 305 306	295 286 282 282 288 295 308 309	277 275 272 274 279 292 292 297 296	308 300 305 318 322 327 332 332 329	229 227 229 228 226 231 237 238	299 300 306 327 333 327 325 303	283 287 299 302 304 307 298	June July. August. September October. November December	205 208 220 217 214 217 223	196 201 205 208 212 219 228	216 226 228 228 228 226 230 233	1 95 203 209 208 207 212 219	181 186 194 193 196 198 203	225 220 239 236 230 232 232 237	
September October November December 1923.	289 286 296	303 320 333 362 361	301 308 336 333	323 328 348 352	238 238 248 253	296 290 296 310	294 294 307 315	1920. January February March April	238 248 251 263	245 254 263 276	262 270 271 274	231 242 247 252	226 231 234 253	255 266 268 289	
January February March	312 342 359	384 419 440	346 384 399	366 396 418	262 293 318	312 343 349	324 355 372	May June July August	277 275 274 258	288 283, 273 255	296 296 295 286	261 258 257 250	268 276 274 268	309 302 299 267	
			JAPAN. 913=100					September October November December	234 221	$247 \\ 231 \\ 218 \\ 208$	270 252 231 215	230 215 195 187	266 267 260 242	258 250 245 229	
Year and month.	pro-	Goods im- ported.	ex-	Raw mate- rials.	Pro- ducers' goods.		All com- mod- ities.	1921. January February March April	200 190 186 178	194 180 174 169	212 208 202 192	182 174 170 162	222 210 190 185	217 203 202 196	
4	(62)	(28)	(21)	(18)	(35)	(37)	(90)	May June	166	164 • 160	193 190	159 157	177	178 176	
1921 average 1922 average 1921.	186 187	154 159	173 189	154 165	188 181	$\begin{array}{c} 193 \\ 192 \end{array}$	181 182	July. August September October.	167 158 148	158 158 155 153	185 188 175 149	153 155 147 136	164 162 159 153	177 182 174 166	
January February March April	177 173 170 173	170 158 148 146	175 173 167 167	161 155 149 148	192 184 173 179	179 174 174 174 177	176 171 167 169	November December 1922. January		151 151 151	138 137 139	131 131 132	152 149 147	164 164 161	
May June July August September October November	179 178 186 184 197 208 204	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{r} 165 \\ 163 \\ 166 \\ 166 \\ 175 \\ 185 \\ 183 \\ 183 \end{array} $	147 142 141 142 159 171 167	180 181 184 187 199 209 193	185 185 197 193 207 217 215	137 172 178 177 192 202 197	February. March April. May. June. July. August.	148 150 152 153 151 153	$ 150 \\ 150 \\ 151 \\ 157 \\ 162 \\ 165 \\ 166 $	$152 \\ 151 \\ 153 \\ 154 \\ 149 \\ 154 \\ 144$	138 140 142 145 143 143 136	$ \begin{array}{r} 147 \\ 146 \\ 146 \\ 147 \\ 150 \\ 152 \\ 154 \\ \end{array} $	164 166 169 168 168 171 166	
December 1922 January February	201 198 192	154 153 151	192 197 186	167 168 163	192 191 183	209 203 198	193 191 185	September October November December	140 141 143	170 171 165 167	133 134 138 138	133 134 135 135	154 155 157 159	157 158 160 161	
March April May June. July	187 186 188 191	153 151 157 166 167	175 176 183 192 196	157 157 164 168	183 183 182 191 195	195	182 180 183 183	1923. January February March	. 149	170 170 173	140 146 151	136 139 141	160 164 169	163 167 173	

All com-mod-ities.

(90)

176 183 185

All com-mod-ities.

(101)

 $148 \\ 152 \\ 155$

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COMPARATIVE WHOLESALE PRICE LEVELS IN PRINCIPAL COUNTRIES.

The following series of index numbers covering the last four years are the latest corrected figures available, and have been obtained in most cases directly from the statistical offices computing them. There are many small changes from the figures as previously published.

ALL-COMMODITIES INDEX NUMBERS.¹

	EUROPE.													
Year and month.	Bel- gium; Minis- try of Labor. ²	Bul- garia; General Statis- tical Bu- reau.	Czecho- slo- vakia; Central Bureau of Sta- tistics.	Den- mark; Finans- tid- ende. ³	France; General Statis- tical Bu- reau.4	Ger- many; Frank- furter Zei- tung. ⁵	Ger- many; Federal Statis- tical Bu- reau. ⁶	Italy; Ric- cardo Bachi. ⁷	Nether- lands; Central Bureau of Sta- tistics. ⁸	tiania):	tical	Spain; Insti- tute of Geog- raphy and Sta- tistics. ¹⁰	Sweden; Gote- borgs Han- dels- tid- ning. ¹¹	Sweden; Board of Trade.
	(128)	(38)	(126)	(33)	(45)	(98)	(38)	(100)	(53)	(92)	(58)	(74)	(47)	(160)
1913 1914 1915 1916		100			100		26 1. 0	100	100			100	12 100	\$7 100
1914	18 100	103	15 100	14 100	101	25 1.0	1.1	95	105	16 115	17 1	101	116	
1915	• • • • • • • •	137 18 268		138	137		1.4	133	145	18 159		119	145	
1910	•••••	18 208		164 228	187 262		1.5 1.8	202 299	222 286	18 233		141 166		
1917. 1918. 1919. 1919. 1920.	•••••	18 830		293	339		2.2	409	392	18 345		207	339	
1919		18 1, 166		294	356		4.2	364	297	18 322		204	330	
1920		1,940		382	510	19 19.7	14.9	631	281	382		221	347	359
1921 1922		2.000		250	345	19 21.3	19.1	578	181	298		190	211	218
		2, 473	1,355	179	327	327.2	341.8	562	160	233	1,376	176	162	173
1919.		ł	1			ļ		1				1		1
1919. January	• • • • • • • •	• • • • • • • • •		292	348 340		2.6	324 320					369	
March	•••••	•••••			340		2.7 2.7	320					358 354	•••••
April.					332		2.9	329			1		339	
May					325		3.0	336					330	
June					329		3.1	356		314			324	
July	. 	• • • • • • • •		. 295	349		3.4	361					320	
August	• • • • • • • • •	•••••			347 360		4.2 4.9	368 370				•••••	321 319	
October	••••••				382		4.9	388	1				319	·····
November.					405		6.8	436					308	
December					423		8.0	455		322				
					1								1	
January. February. March A pril. May.		1,739		340	487	19.7	12.6	550	287	333			319	343
February		2,025	1	Į.	522		16.9	557	283	342			342	357
March	• • • • • • • • •	1,842			555		17.1	602	286	351		•••••	354	366
April	• • • • • • • • •	1,401			588 550		15.7 15.1	664 700	292 293	354 368			354 361	371 374
June	•••••	1 828			493			632	293	382			366	374
July		1,947	1	383	496		13.7	604	296	409			363	376
August		2,052		385	501		14.5	625	288	417			365	375 370
September		2,052 2,072 2,086		. 394	526		15.0	655	287	425		• • • • • • • •	362	370
October	•••••	2,080			502 461			659 670	283 260	419 403			346	358 338
May June July August September October November December	•••••	2,074 2,392			401			655	200	403			299	306
							1	000	200				200	000
1921. January. Pebruary. March. April. May. June. July.		2 302		. 341	407	21.3	14.4	642	213	344		219	267	272
February.		2,392 2,135			377		13.8	613	197	319			250	256
March		2,437		. 280	360		13.4	604	188	312		193	237	249
April		2,006		. 270	347	····	13.3	584	176	297		191	229	239
May		1,945		257 254	329 325		13.1 13.7	547 509	182 182	294		187 186	218	230 223
June		1,080		254	330	1	1 14 2	520	182	294		180	218 211	223
August September October	347	1,721 1,730 1,758		254	331		19.2	542	180	297		183	198	211
September	368	1,758		. 224	344		20.7	580	180	287		183	182	201
October	372	2,052			331		24.6	599	169	286			175	194
November December	: 01±	2,051			332 326		34.2 34.9	595 595	165 165	276 269		. 184 183	174	189
	509	2,100		. 188	320		. 34.9	- 595	100	209		185	112	188
1922.	366	0 170	1 075	170	014	10	07		101	000	700	100	1 170	
January	300	2,172 2,272 2,287	1,675	178	314 306	42	37	577 562	161 162	260 253	592 634	180 179	170 166	181
February March	350	2 287	1,552	182		54	54	533	161	233	737	177	164	179
April	344	± 2.514	1.491		314	67	64	527	161	236	751	180	165	175
May	348	2,695	1,471	177	317	74	65	524	165	231	786	178	164	175
June July	356	2,436 2,489	1,471	179			70	537	167	230	877	178	164	174
July	360 360	2,489	1,464	180		91	101	558 571	162	232 227	1,016	175	165	173
August	360	2,020	1,386	180 178				571	155 153	227	1,358 1,524	175 174	163 158	173 170
October	385	2.558	1,059	176	337	432			155	223	2 013	174	155	169
October November	408	2.564	1,017	180			1,151	596		221	2.756	174	154	163
December	407	2,520 2,531 2,558 2,564 2,630	999	182	362	1,665	1,475	580		220	2,013 2,756 3,464	172	155	163
1923.			1											
January	434	2,657	1,003	181	387	2.054	2,785	575	159	220	5,487	170		
T.1 *	474	2 666	1 028	192	422		5,585	• 582	158	224	8,591	170	158	
February														
March April	482	2,828	1,031	199 200		6,770 6,393	4,888	. 586 588		229 231	9,885 10,589	171		

See following page for footnotes.

			ALL-	COMM	ODITIES	INDEX	K NUMBERS—Continued.							
	E	UROPE—	continue	d.	NORTH .	AMERICA.			ASLA AN	D OCEAN	[A .	-	AFRICA.	
Year and month.	Switzer- land; Dr. J. Lorenz. ³	dom; Board	United King- dom; Econo- mist	United King- dom; Statist.4	United States; Bureau of Labor Sta- tistics.	Canada; Depart- ment of Labor. ¹¹	Aus- tralia; Bureau of Cen- sus and Sta- tistics.4	Minis-	Indies; Statis- tical Bu-	India (Cal- cutta); Depart- ment of Statis- tics.4	Japan (Tokyo); Bank of Japan. ⁶		Egypt (Cairo); Depart- ment of Statis- tics.	Canena
	(71)	(150)	(44)	(45)	(404)	(271)	(92)	(147)	(17)	(75)	(56)	(106)	(23)	(187)
1913. 1914. 1915. 1916. 1917. 1918. 1919. 1919. 1920. 1921. 1922.			100 99 123 161 204 225 235 283 181 159	100 101 126 159 206 226 242 295 188 155	100 98 101 127 177 194 206 226 226 147 149	100 101 110 135 177 206 217 246 182 165	15 100 141 132 155 170 180 218 167 154	21 100 133 140 145 146	22 100 22 107 22 139 22 187 18 232 18 281 18 226 186 164	²³ 100 112 128 147 180 198 204 181 180	100 95 97 117 147 193 236 259 200 196	100 104 123 134 151 175 178 212 201 177	24 100 102 124 168 207 225 299 171 145	100 127 145 158 170 231 166 133
1919. January February March May June July September October November December			217 215 212 214 222 230 239 241 245 252 259 273	224 220 217 229 235 243 250 252 264 271 276	199 193 196 199 202 203 212 216 210 211 217 223	212 207 205 206 210 218 223 223 222 227 238	169 171 172 173 176	133 133 134 129		188 171 180 190 215 204 200 205 210 214	209 208 202 202 210 223 241 245 251 266 280 289	183 179 173 172 171 171 173 177 181 183 184 187	227 236	163 160 166
1920. January February March. April May. June July. August. September. October. November. December.		322 317 313 311 302 287	288 303 310 306 304 291 292 287 284 266 245 220	288 306 307 313 305 300 299 298 292 282 282 263 243	233 232 234 245 247 243 241 231 226 211 196 179	248 254 258 261 263 258 256 244 241 234 225 214	203 206 209 217 225 233 234 236 236 236 236 236 215 208 197	$131 \\ 136 \\ 141 \\ 142 \\ 143 \\ 146 \\ 144 \\ 141 \\ 140 \\ 138 \\ 139 \\ 130 $	319 299 292 226	218 209 198 200 210 206 209 209 209 209 208 206 194 180	301 313 321 300 272 248 239 235 230 226 221 206	194 198 206 209 219 219 219 220 222 218 218	318 354 338 293 292 283 279 279 279 279 300 287 287 238	221 230 240
1921. January February. March. April. May. June. July. August. September. October. November. December.	230 219 208 186 185 179 177 181 184 182	246 225 211 205 202 198 194 190 187 181 173 168	209 192 189 183 182 179 178 179 183 170 165 162	232 215 208 199 191 183 186 181 175 163 161 157	$170 \\ 160 \\ 155 \\ 148 \\ 145 \\ 142 \\ 141 \\ 142 \\ 141 \\ 142 \\ 141 \\ 140 \\ 140 \\ 140 \\ 160 \\ 100 $	208 199 194 187 183 179 176 174 172 169 168 170	196 192 181 171 166 162 159 160 160 156 151 148	138 142 143 144 145 148 145 149 148 146 144 146	214 197 194 188 187 183 183 183 183 184 188 175 170 166	178 174 175 183 184 178 183 184 187 184 180 180	201 195 191 190 191 192 196 199 207 219 214 209	216 210 208 205 201 200 200 197 197 195 191 188	204 180 171 172 170 161 159 158 169 180 171 160	186
1922. January February March April May June. July August September October November December	171 171 163 161 160 161 163 163 163 163 169	$\begin{array}{c} 164\\ 162\\ 160\\ 160\\ 160\\ 160\\ 160\\ 156\\ 154\\ 155\\ 157\\ 156\end{array}$	$\begin{array}{c} 159 \\ 158 \\ 160 \\ 159 \\ 162 \\ 163 \\ 163 \\ 158 \\ 156 \\ 158 \\ 159 \\ 158 \end{array}$	156 155 157 158 159 159 157 152 150 153 153 152	$138 \\ 141 \\ 142 \\ 143 \\ 148 \\ 150 \\ 155 \\ 155 \\ 155 \\ 153 \\ 154 \\ 156 $	$\begin{array}{c} 168\\ 169\\ 166\\ 166\\ 167\\ 165\\ 166\\ 164\\ 163\\ 162\\ 164\\ 165\\ \end{array}$	147 146 148 155 156 157 155 158 159 162 161	149 150 152 148 146 144 145 142 139 143 143 143	$\begin{array}{c} 164\\ 163\\ 164\\ 164\\ 166\\ 167\\ 168\\ 163\\ 159\\ 163\\ 164\\ 163\end{array}$	178 179 182 182 187 183 181 178 176 177 178 176	206 204 201 197 194 197 201 195 193 190 188 183	186 181 180 177 175 177 177 177 174 174 175 172	156 152 153 148 141 139 138 139 138 139 138 140 144 147	135 132 131 133
1923. January February. Mareh April.	181 186	157 158 160	161 163 163 164	153 155 156	156 157 159	165 166 167	163 161 163	153 162 159 158		179 180 181	184 192 196	171 172 173	141 137 136 133	135

ALL-COMMODITIES INDEX NUMBERS-Continued

The number of commo lities or quotations used in the computation of each index is indi-cated by figures in parenthesis at head of each column.
 A verage of last half of month.
 First of month.
 End of month.
 Beginning of month.—not always the 1st.
 A verage for the month.
 38 commodities prior to 1920; 76 commodities during 1921. End of month.

⁸ Based upon price of 52 commodities during 1920; 53 during 1921.
⁹ End of year and end of month.
¹⁰ 15th of the month.
¹¹ Middle of month.
¹³ July 1, 1913, to June 30, 1914–100.
¹⁴ July 1, 1914–100.
¹⁵ July 1, 1914–100.
¹⁵ July 1, 1914–100.
¹⁶ Dec. 31, 1913, to June 30, 1914–100.
¹⁷ 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.
²³ End of July, 1914=100.
²⁴ Jan. 1, 1913, to July 31, 1914=100.
²⁵ July, 1914=1.
²⁶ 1913 average=1.
³⁷ Corresponding month in 1913=100.

The foreign index numbers published on the two preceding pages are constructed by various foreign statistical offices and are sent to the Federal Reserve Board by cable. The Swedish Board of Trade index was described in the July, 1922, BULLETIN, page 816; references to BUL-LETINS in which other indexes are described may be found in the issue for January, 1923. Index numbers showing the price levels of

Index numbers showing the price levels of appears on page 597. Group index separate groups of commodities in the United States and many foreign countries are pre- will be found on pages 598 and 599.

sented below and on the following pages. These group index numbers are published only occasionally, but the most recent 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 597. Group index numbers, computed as part of this international series, will be found on pages 598 and 599.

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

		$\mathbf{R}_{\mathbf{a}}$	aw materia	als.					
Year and month.	Agricul- tural products.	Animal products.	Forest products.	Mineral products.	Total raw ma- terials.	Pro- ducers' goods.	Con- sumers' goods.	All commodi- ties.	
	(21)	(21)	(11)	(35)	(88)	(117)	(199)	(404)	
1913. 1919. 1920. 1921. 1922.	$100 \\ 251 \\ 255 \\ 134 \\ 145$	100 221 186 110 125	$ \begin{array}{r} 100 \\ 211 \\ 311 \\ 165 \\ 185 \end{array} $	100 179 236 184 207	100 217 228 142 158	100 179 215 135 128	100 211 231 159 151	100 206 226 147 149	
1922. January	140 141 145 152 146 147 138	109 121 122 120 122 123 130 127 132 132 132 129 129	167 166 165 167 174 186 188 191 199 204 207 210	178 177 178 180 202 211 241 241 261 236 218 209 208	139 146 147 148 157 159 171 173 168 166 166 166	123 118 120 122 125 127 129 129 132 135 136	$146 \\ 148 \\ 150 \\ 151 \\ 151 \\ 152 \\ 149 \\ 150 \\ 152 \\ 149 \\ 150 \\ 152 \\ 155 \\ 157 $	$\begin{array}{c} 138\\141\\142\\143\\148\\150\\155\\155\\155\\153\\154\\156\\156\\156\end{array}$	
1923. January . February . March	164 170 174	125 123 123	215 220 227	213 207 202	168 167 167	136 141 148	155 155 156	156 157 159	

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

Year and month.	Farm prod- ucts. (56)	Foods. (110)	Cloths and clothing. (65)	Fuel and lighting. (20)	Metals and metal products. (37)	Building mate- rials. (41)	Chem- icals and drugs. (43)	House furnish- ing goods. (31)	Miscel- laneous. (25)	All commod- ities. (404)
· · · · · · · · · · · · · · · · · · ·										
1913	100 231 218 124 133	100 207 220 144 138	100 253 295 180 181	100 181 241 199 218	100 162 192 129 122	100 201 264 165 168	100 169 200 136 124	100 184 254 195 176	100 175 196 128 117	100 206 226 147 149
1922.			}					1.0		
January. February. March. April. May. June. July. August. September. October November. December.	$\begin{array}{c} 122\\ 131\\ 130\\ 129\\ 132\\ 131\\ 135\\ 131\\ 133\\ 138\\ 143\\ 145\\ \end{array}$	131 135 137 137 138 140 142 138 138 138 140 143	176 174 172 171 175 179 180 181 183 188 192 194	195 191 191 216 225 254 271 244 226 218 218	$\begin{array}{c} 112\\ 120\\ 109\\ 113\\ 119\\ 120\\ 121\\ 126\\ 134\\ 135\\ 133\\ 131\\ \end{array}$	157 156 155 160 167 170 172 180 183 185	$\begin{array}{c} 124\\ 123\\ 125\\ 124\\ 122\\ 122\\ 122\\ 121\\ 122\\ 124\\ 124$	178 177 175 175 176 176 173 173 173 173 173 179 182	$\begin{array}{c} 117\\ 117\\ 117\\ 116\\ 116\\ 114\\ 114\\ 115\\ 116\\ 120\\ 122\\ 122\\ 122\\ \end{array}$	$138 \\ 141 \\ 142 \\ 143 \\ 148 \\ 150 \\ 155 \\ 155 \\ 153 \\ 154 \\ 156 $
1923.	1	1	1			1				1
January. February. March	143 142 143	141 141 143	196 199 201	218 212 206	133 139 149	188 192 198	131 132 136	184 184 185	124 126 127	156 157 159

GROUP INDEX NUMBERS-BELGIUM-MINISTRY OF LABOR.¹

Year and month.	Food prod- ucts. (15)	Fuel. (4)	Metals. (15)	Petro- leum prod- ucts. (7)	Pot- tery. (10)	Glass- wares. (2)	Chem- ical prod- ucts. (12)	Fertil- izers. (4)	Fats.	Tex- tiles. (21)	Build- ing mate- rials. (13)	Hides and leather. (9)	All com- modi- ties. (126)
1922. JanuaryFebruary. March	359 346 342 347 337 344 326 326 349 339 339 353 407	447 443 430 407 392 392 400 405 405 462 462 462 462 514 579	330 311 306 313 318 319 329 329 334 343 368 390 390 390 467 525	436 422 384 359 357 360 366 352 347 333 349 337 360 383	528 520 526 518 533 525 530 531 575 600 605 596 617 619	415 386 360 325 325 337 337 337 360 378 378 378 378 378 378	345 341 326 321 321 322 322 322 339 358 377 397	339 342 369 358 348 333 328 352 364 374 374 385 388 407 443	303 302 292 279 283 293 307 298 303 334 349 349 349 379 422	394 380 360 399 432 440 444 444 477 523 521 563 598	361 357 355 351 346 358 351 358 365 361 375 377 377 390 405	301 295 286 282 282 282 286 286 293 302 322 322 322 317 334	366 356 350 344 348 356 360 360 360 364 385 408 407 434 474

GROUP INDEX NUMBERS-DENMARK-FINANSTIDENDE.2

Year and month.	Foods.	Other com- modi- ties.	All com- modi- ties.	Year and month.	Foods.	Other com- modi- ties.	All com- modi- ties.	Year and month.	Foods.	Other com- modi- ties.	All com- modi- ties.
1920—January 1921—January 1922—January February March April May	319 175	374 356 180 180 186 181 178	340 341 178 177 182 178 178 177	1922—June July September October November December	182 186 186 179 182 178 181	178 177 176 177 172 181 183	179 180 180 178 176 180 182	1923—January February March April May	179 184 190 191 197	183 197 204 207 209	181 192 199 200 204

GROUP INDEX NUMBERS-FRANCE-GENERAL STATISTICAL BUREAU.³

Year and month.	Animal foods.	Vegetable foods.	Sugar, coffee, cocoa.	All foods.	Minerals.	Textiles.		All in- dustrial materials.	All commod- ities.
	(8)	(8)	(4)	(20)	(7)	(6)	(12)	(25)	(45)
1919, April. 1920, April. 1921, April.	436 522 396	277 511 348	236 447 359	336 506 372	243 507 281	335 953 314	387 598 371	330 653 328	332 588 347
1922.	000	000	000		0.00				
January February	309 303	289 288	306 318	302 301	258 242	363 345	350 341	324 311	314 306
March	341	285	326	317	242	326	328	300	307
April	362	310	320	335	245	319	324	297	314
Мау	362 363	310 318	319 334	334 341	249 255	338 372	323 322	303 313	317 325
June July	359	293	339	330	200	392	326	313	325 325
August	354	292	336	327	275	421	330	334	331
September	346	279	333	318	279	418	341	339	329
October November	$ 341 \\ 365 $	283 289	$311 \\ 345$	313 331	309 305	446 468	347 363	357 369	337 352
December.	387	300	364	349	311	473	365	373	362
1923.								1	
January	388	322	412	367	346	533	377	404	387
February	420	332	508	402	399	553	410	439	422
March April	413 413	333 322	491 498	397 393	426 390	541 530	417 416	447 433	424 415

GROUP INDEX NUMBERS-GERMANY-FEDERAL STATISTICAL BUREAU.³

Year and month.	Domestic goods. (16)	Imported goods. (22)	All com- modities. (38)	Year and month.	Domestic goods. (16)	Imported goods. (22)	All com- modities. (38)
1919, April 1920, April 1921, April	1,192	302 3,441 1,560	286 1,567 1,326	1922. August September October.	16,545 25,815 49,853	32, 491 43, 113 90, 343	19, 202 28, 698 56, 601
1922. January. February. March.	3,763	5,075 5,800 7,463	3,665 4,103 5,433	November	95,290 128,330	214, 150 243, 230	115,100 147,480
April. May. June. July	5,985 6,026 6,540	7,463 8,203 8,617 9,479 13,854	6,355 6,458 7,030 10,059	January February Mareh	239,005 494,200 450,300	475,832 879,600 681,600	278, 476 558, 500 488, 800
¹ Apr. 15, 1914 = 100.	2	July 1, 1912	-June 30, 1914 = 100.	1913 = 100.			

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GROUP INDEX NUMBERS-GERMANY-FRANKFURTER ZEITUNG.4

Foodstuffs Industrial finished Textiles Miscella-neous. All com-modities. and luxuries. and leather. Minerals. Year and month. products. (26)(16)(18) (17) (21)(98) 1,972 2,019 2,611 2,325 2,7492,7801,465 1,704 $1,965 \\ 2,130$ 1,101 1,776 1922. 5, 178 5, 525 6, 810 8, 585 9, 305 10, 141 12, 168 18, 355 42, 648 54, 905 128, 982 219, 305 3, 149 3, 492 4, 201 5, 288 5, 961 6, 413 10, 993 21, 605 32, 134 72, 038 134, 177 $\begin{array}{c} 3,347\\ 3,581\\ 4,060\\ 4,972\\ 5,982\\ 6,341\\ 7,292\\ 10,001\\ 22,664\\ 35,025\\ 57,683\\ 118,385\end{array}$ 4, 217 4, 599 5, 420 6, 703 7, 384 7, 851 9, 102 13, 978 29, 116 43, 223 94, 492 166, 495 3,840 4,300 5,211 6,330 6,649 6,967 8,323 13,691 29,175 38,959 88,980 $\begin{array}{c} 5,789\\ 6,281\\ 6,805\\ 8,551\\ 9,228\\ 9,626\\ 11,001\\ 19,661\\ 32,184\\ 66,157\\ 153,896\\ 266,622 \end{array}$ March April May June. July August September October November. December December 144, 753 219,395 1923. $\begin{array}{c} 175,845\\555,005\\536,100\\535,000\end{array}$ $\begin{array}{r} 320,632\\ 1,413,673\\ 945,000\\ 834,900 \end{array}$ 262, 212 931, 239 829, 800 782, 200 $\begin{array}{c} 177,752\\534,734\\694,900\\643,400 \end{array}$ $\begin{array}{c} 151,793\\ 476,564\\ 551,400\\ 531,500 \end{array}$ 205, 417 715, 881 677, 000 639, 300 January..... February. March April

GROUP INDEX NUMBERS-ITALY-RICCARDO BACHI. 5

Year and month.	Vege- table foods. (25)	Animal foods. (13)	Chemi- cals, (11)	Textiles.	Minerals and metals. (16)	Building mate- rials. (6)	Other vegetable products. (5)	Sundries.	All com- modities. (100)
1920, March	93 108	83 117	97 87	116 64	105 72	82 113	102 123	93 104	96 97
1922. January February March. April. May June. June. July August. September. October November. December.	112 109 107 105 106 109 112 115 112 113 113 112 110	114 112 96 103 94 97 100 100 110 114 112 110	73 73 72 70 67 67 68 69 70 72 71 69	72 68 65 63 66 74 76 78 80 85 85 82 78	64 62 59 58 58 57 61 63 65 69 67 65	92 91 84 82 79 76 79 81 81 86 88 88	$\begin{array}{c} 112\\ 111\\ 103\\ 92\\ 96\\ 105\\ 113\\ 119\\ 120\\ 134\\ 127\\ 129\end{array}$	94 92 87 88 88 87 91 93 95 96 100 94	92 90 85 84 86 89 92 93 96 96 93
1923. January February. March April.	109 109 109 111	108 108 110 114	69 70 70 70	81 83 90 83	63 64 67 66	88 86 85 83	125 130 129 128	91 92 92 93	92 93 94 94

GROUP INDEX NUMBERS-NORWAY-ØKONOMISK REVUE.

Year and month.	Animal foods.	Vege- table foods.	Feed- stuffs and fer- tillizers.	Coal and coke.	Petro- leum and benzine.	Iron.	Metals.	Building ma- terials.	Textiles.	Hides and leather.	Pulp wood.	Paper.	All com- modi- ties.
1920, April 1921, April	299 283	301 304	289 279	871 317	196 343	603 295	232 166	386 329	396 329	279 199	295 289	365 413	354 297
1922. January February March. April May June July August. September October November December	213 209 227 248 238 238 223	256 250 245 241 237 241 244 216 208 201 200 200	226 224 220 217 214 215 215 215 206 203 199 200	279 279 263 250 250 250 258 258 258 258 258 258 258	276 256 203 203 203 203 203 193 193 186 186 186	268 263 232 230 233 248 253 248 248 248 248 248 224 233 224 215	$\begin{array}{c} 183\\ 165\\ 161\\ 159\\ 160\\ 165\\ 165\\ 162\\ 161\\ 166\\ 157\\ 157\end{array}$	279 274 262 260 180 182 179 179 179 185 185 185 185	$\begin{array}{c} 316\\ 310\\ 289\\ 286\\ 177\\ 141\\ 141\\ 141\\ 141\\ 141\\ 141\\ 161\\ 161$	219 219 190 185 245 242 240 239 242 234 234 244 244 245	183 183 177 177 287 280 280 279 272 272 272 272 272 272 270	332 327 309 304 293 266 266 266 266 266 266 266	260 253 240 236 231 230 232 227 225 221 221 221 220
1923. January February March April	210 215 208 208	198 200 202 205	198 199 202 205	252 278 354 345	165 150 178 184		157 170 179 179	179 179 177 177	177 179 179 179	251 252 264 268	268 263 257 262	264 264 264 264	220 224 229 231

4 July, 1914=100.

⁵ 1920=100; new series beginning January, 1922.

⁶ Dec. 31, 1913-June 30, 1914=100.

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GROUP INDEX NUMBERS-SPAIN-INSTITUTE OF GEOGRAPHY AND STATISTICS.7

Year and month.	Animal foods. (11)	Vegetable foods. (16)	Liquors. (9)	Total food. (36)	Fuel and lighting. (8)	Textiles and leather. (6)	Metals. (8)	Building materials. (10)	Chemi- cals. (16)	Total industrial materials. (38)	All com- modities. (74)
1920, March 1921, March	219 197	193 178	191 163	200 180	289 238	252 145	184 178	222 255	230 214	238 210	193
January February March. April May June July August. September October November December	202 200 • 194 187 203 202 197	$\begin{array}{c} 168\\ 165\\ 168\\ 170\\ 168\\ 169\\ 166\\ 164\\ 159\\ 158\\ 160\\ 162\\ \end{array}$	155 157 158 169 170 166 165 163 160 159 158	175 175 174 179 178 176 172 175 173 171 174 173	188 177 181 188 186 186 179 172 173 173 169 169	151 145 141 140 144 148 151 147 148 153 161	$158 \\ 158 \\ 153 \\ 154 \\ 149 \\ 151 \\ 152 \\ 151 \\ 151 \\ 151 \\ 151 \\ 149 \\ 149 \\ 154 \\ 154 \\ 149 \\ 140 $	247 247 251 249 245 242 244 242 242 242 230 232 232	$\begin{array}{c} 168\\ 167\\ 164\\ 166\\ 163\\ 163\\ 158\\ 158\\ 158\\ 156\\ 152\\ 150\\ 144 \end{array}$	184 181 180 181 179 180 178 175 175 175 173 173 171	180 179 177 180 178 178 175 175 174 174 172 174
1923. January. February	192 191	161 161	155 152	169 168	166 167	166 165	149 151	229 232	143 144	171 172	170 170

GROUP INDEX NUMBERS-SWEDEN-GÖTEBORGS HANDELS OCH SJÖFARTSTIDNING.8

Year and month.	Vegetable foods.	foods.	Raw materials for agri- culture.	Coal.	Metals.	Building materials.	Wood pulp.	Hides and leather. (5)	Textiles.	Oils. (2)	All com- modities.
	(6)	(7)	(5)	(2)	(5)	(7)	(3)	(3)	(5)		(47)
1919, March. 1920, March. 1921, March.	276 270 238	438 304 229	356 318 240	814 960 279	317 291 185	288 367 298	323 682 510	174 268 85	380 134	275 268	354 354 237
1922. January. February. March. April. May. June. July. August. September. October. November. December.	110	$\begin{array}{c} & 173 \\ 159 \\ 153 \\ 156 \\ 154 \\ 165 \\ 164 \\ 168 \\ 179 \\ 166 \\ 171 \\ 165 \end{array}$	202 170 168 169 170 170 167 162 160 158 159 162	179 186 170 177 179 155 160 167 169 169 169 175 178	131 130 129 128 124 121 121 123 119 117 117	228 226 225 229 212 219 215 213 215 216 208 208 209	$189 \\ 178 \\ 167 \\ 159 \\ 147 \\ 144 \\ 149 \\ 154 \\ 160 \\ 178 \\ 181 \\$	104 97 91 90 86 87 88 90 90 91 89 89 89	144 138 140 140 156 172 179 170 171 176 194 198	$179 \\ 179 \\ 179 \\ 162 \\ 154 \\ 154 \\ 154 \\ 154 \\ 150 $	$170 \\ 166 \\ 164 \\ 165 \\ 164 \\ 165 \\ 163 \\ 153 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 154 \\ 155 \\ 155 \\ 154 \\ 155 \\ 155 \\ 154 \\ 155 \\ 155 \\ 154 \\ 155 \\ 155 \\ 156 $
1923. January February March	137 141 142	161 156 147	163 159 159	184 214 267	117 118 130	211 206 206	185 190 190	89 89 89	205 213 216	150 150 150	156 158 162

GROUP INDEX NUMBERS-SWITZERLAND-DR. J. LORENZ.*

Year and month.	Con- sumers goods. (33)	Agricul- tural products. (12)	Indus- trial products. (26)	All com- modities. (71)	Year and month.	Con- sumers goods. (33)	Agricul- tural products. (12)	Indus- trial products. (26)	All com- modities. (71)
1921, April. 1922. January. February. March. April. May. June. June.	181 179 171	166 155 151 151 145 148 140 140	197 170 169 173 165 165 165 170 171	219 176 171 171 163 161 160 161	August September October November December 1923. January February March	167 168 173 174	148 153 150 155 155 162 181 206	168 166 166 175 176 180 193 172	163 163 163 169 170 175 181 186

⁷ 1913=100.

⁸ July 1, 1913-June 30, 1914 = 100

July, 1914=100.

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GROUP INDEX NUMBERS-UNITED KINGDOM-BOARD OF TRADE.¹⁰

Year and month.	Cereals. (17)	Meat and fish. (17)	Other foods. (19)	Total food. (53)	Iron and steel. (24)	Other metals and minerals. (20)	Cotton (16)	Other textiles. (15)	Other articles. (22)	Total not food. (97)	All commod- ities. (150)
1920, March 1921, March	266 206	233 251	297 230	$\begin{array}{c} 265\\ 228\end{array}$	344 250	243 192	612 173	444 178	293 204	353 202	319 211
1922. January. February. March. April. May. June. July. August. September. October. November. December.	156 160 157 159 155 156 151	$176 \\ 178 \\ 166 \\ 171 \\ 174 \\ 172 \\ 170 \\ 169 \\ 174 \\ 169 \\ 173 \\ 174$	$182\\188\\187\\187\\181\\179\\181\\161\\152\\157\\162\\156$	$\begin{array}{c} 169 \\ 174 \\ 171 \\ 172 \\ 172 \\ 169 \\ 160 \\ 156 \\ 157 \\ 160 \\ 156 \end{array}$	147 143 140 139 138 137 133 132 131 131 131	149 145 143 143 142 139 138 142 140 139 139 138	180 168 172 173 179 187 191 186 185 184 193 189	167 162 158 158 164 165 166 165 168 170 172 172	$\begin{array}{c} 173\\ 168\\ 166\\ 164\\ 162\\ 164\\ 161\\ 160\\ 163\\ 165\\ 168\\ 168\\ 168\end{array}$	$\begin{array}{c} 161 \\ 156 \\ 154 \\ 155 \\ 155 \\ 155 \\ 155 \\ 154 \\ 153 \\ 154 \\ 156 \\ 156 \\ 155 \end{array}$	164 162 160 160 160 160 156 154 155 157 157
1923. January February March	141 138 138	175 165 154	156 157 160	157 153 151	134 140 152	138 142 152	195 197 200	176 177 176	167 165 164	157 160 166	157 158 160

GROUP INDEX NUMBERS-UNITED KINGDOM-STATIST.¹⁰

Year and month.	Vege- table foods.	Animal foods.	Sugar, coffee, tea.	Food- stuffs.				Materials.	modities.
	(8)	(7)	(4)	(9)	(7)	(8)	(11)	(26)	(45)
1919, March 1920, March 1921, March	240 342 214	205 237 262	238 393 182	223 300 232	154 263 179	235 360 171	246 318 221	213 312 193	217 307 208
1922.									4
January	160	170	140	162	123	175	159	152	156
February March	167 164	173 190	138 147	166 174	117 118	172 162	158 157	149 146	155 157
April	164	206	147	183	120	156	152	140	157
May	167	199	147	179	123	163	154	147	159
June	166	196	154	178	122	167	155	147	152
July	165	187	156	174	125	166	151	147	159
August	141	186	156	165	124	166	146	144	157
September	137 143	178 175	151 161	159 161	126 129	166 173	146 146	145 148	150 153
October November	143	175	161	161	129	173	140	148	153
December.	140	181	164	163	127	171	140	145	152
1923.									
January	138	177	167	161	132	172	144	148	153
February	134	178	188	163	141	164	147	150	155
March	133	173	209	163	146	161	148	151	156

GROUP INDEX NUMBERS-CANADA-DEPARTMENT OF LABOR.¹⁰

Year and month.	Grains and fodder.	Animals and meats.	Dairy prod- ucts.	Fruits and veg- etables.	Other foods.	Textiles.	Hides, leather, etc.	Metals.	Imple- ments.	Build- ing ma- terials, lumber.	Fuel and lighting.	Drugs and chemi- cals.	All com- modi- ties.
	(15)	(17)	(9)	(20)	(25)	(20)	(11)	(23)	(10)	(14)	(10)	(16)	(271)
1919, April 1920, April 1921, April	217 291 154	210 200 169	184 196 161	197 316 162	213 264 189	284 328 191	166 239 116	162 214 145	223 237 241	$ \begin{array}{r} 153 \\ 268 \\ 229 \end{array} $	206 246 226	210 201 180	206 261 187
1922. January. February. March. April. May. June. July. August. September October. November. December.	133 145	129 135 138 143 144 144 143 138 132 131 125 127	$\begin{array}{c} 149\\ 141\\ 122\\ 127\\ 116\\ 115\\ 122\\ 120\\ 128\\ 141\\ 152\\ 160\\ \end{array}$	186 204 203 202 185 178 156 137 139 155 155	$155 \\ 155 \\ 158 \\ 157 \\ 154 \\ 153 \\ 154 \\ 152 \\ 156 \\ 153 \\ 154 $	176 174 174 175 180 184 181 181 183 185 185	99 97 96 95 95 99 100 105 105 103 106 102	$142 \\ 141 \\ 137 \\ 135 \\ 136 \\ 137 \\ 138 \\ 142 \\ 144 \\ 146 \\ 147 \\ 148 $	231 216 213 213 213 213 213 216 216 216 218 218 218 218 218	180 179 174 173 173 173 173 178 179 179 180 181 181	206 204 206 218 221 234 257 243 232 221 225	$\begin{array}{c} 163\\ 164\\ 166\\ 165\\ 166\\ 162\\ 160\\ 161\\ 160\\ 159\\ 160\\ 160\\ 160\\ \end{array}$	$\begin{array}{c} 168 \\ 169 \\ 166 \\ 165 \\ 165 \\ 165 \\ 165 \\ 164 \\ 163 \\ 162 \\ 164 \\ 164 \\ 164 \\ 165 \\ \end{array}$
1923. January February March	125 129 129	126 128 125	151 150 151	155 162 162	159 163 161	184 185 186	102 102 102	150 150 159	218 218 213	184 184 186	226 221 222	159 159 158	165 166 167

10 1913=100.

Year and month.	Metals and coal.	Textiles.	Agricul- tural products.	Dairy products.	tobacco.	Meat.	Building materials.		All com- modities.
	(14)	(10)	(16)	(9)	(21)	(5)	(10)	(7)	(92)
1919, March 1920, March 1921, March	200 205 203	185 281 107	161 226 176	136 162 207	142 160 198	147 146 178	261 298 303	309 280 234	169 209 181
1922.)				
January	185	139	140	118	188	92	196	200	147
February	184	136	142	119	187	93	195	194	147
March	182	137	144	121	186	91	187	190	146
April	181	140	144	134	184	92	190	192	148
May	179 178	150 159	149 148	155 152	184 183	109 116	180 169	190 188	155 156
June	176	159	148	152	181	110	169	199	157
July August		147	156	144	181	113	168	199	155
September.	171	157	160	145	180	124	169	192	158
October	170	164	156	140	181	132	179	188	159
November	169	188	168	134	169	118	191	184	162
December	169	181	169	126	170	113	204	184	161
1923.									
January.	169	190	164	134	170	122	198	188	163
February.	168	198	157	140	170	116	190	194	161
March	165	199	160	151	171	117	185	193	163
	1								1

GROUP INDEX NUMBERS-AUSTRALIA-BUREAU OF CENSUS AND STATISTICS.¹¹

¹¹ July, 1914=100.

GROUP INDEX NUMBERS-DUTCH EAST INDIES-STATISTICAL BUREAU.¹²

Year and month.	Grains and meats.	Other food- stuffs.	Textiles.	Miner- als.	Mis- cella- neous.	All com- modi- ties.	Year and month.	Grains and meats.	Other food- stuffs.	Textiles.	Miner- als.	Mis- cella- neous.	All com- modi- ties.
1919, January. 1920, January. 1921, January. 1922.	256	220 248 225	252 380 185	169 233 230	233 254 211	223 281 214	1922. May June July August	178	185 191 188 190	168 177 174 175	145 141 145 141	155 155 157 155	166 167 168 163
January February March April	168	185 181 194 188	166 162 162 157	149 142 143 145	$162 \\ 164 \\ 156 \\ 156$	164 163 164 164	September October November December	155 157	192 197 198 199	174 180 187 185	142 145 143 144	143 142 142 142 141	159 163 164 163

¹² Jan. 1, 1914=100.

GROUP INDEX NUMBERS-INDIA (CALCUTTA)-DEPARTMENT OF STATISTICS.¹³

Year and month.	Cereals.	Pulses.	Tea.	Other foods.	Oil seeds.	Raw jute.	Jute manu- fac- tures.	Raw cotton.	Cotton manu- fac- tures.	Other textiles.	Hides and skins.	Metals.	Other articles.	All com- modi- ties.
1919, March 1920, March 1921, March	151	$155 \\ 160 \\ 122$	109 87 71	186 192 136	150 166 122	88 118 81	125 150 91	202 179 98	300 351 301	151 159 143	159 211 86	266 222 255	181 218 239	180 198 175
1922. January. February. March. April. May. June. July. August. September. October. November.	137 153 145 147 141 142 135 130 133	177 174 173 166 152 149 149 145 145 141 143 130 121	$161 \\ 146 \\ 146 \\ 146 \\ 144 \\ 137 \\ 136 \\ 154 \\ 152 \\ 179 \\ 204 \\ 200$	$150 \\ 175 \\ 167 \\ 172 \\ 183 \\ 182 \\ 191 \\ 196 \\ 199 \\ 200 \\ 203 \\ 206$	$132 \\ 143 \\ 148 \\ 143 \\ 161 \\ 156 \\ 155 \\ 145 \\ 146 \\ 149 \\ 145 \\ 142 $	85 82 90 107 120 123 121 109 118 113 130 126	110 107 120 133 172 164 165 157 160 138 149 149	165 172 189 189 206 209 208 187 189 190 188	275 266 271 296 292 290 284 276 271 270 269	$156 \\ 162 \\ 150 \\ 150 \\ 163 \\ 159 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 \\ 174 \\ 189 \\ 166 $	126 131 126 114 109 110 113 112 110 128 132 133	220 193 187 183 165 163 164 165 163 162 162 160	236 241 260 259 261 251 225 213 214 218 212 212 221	178 179 182 182 187 183 181 178 176 177 178 176
1923. January. February. March	114 121 119	118 112 111	209 204 204	$225 \\ 234 \\ 224$	134 138 139	119 115 111	153 153 151	216 216 228	272 270 267	$160 \\ 162 \\ 160$	137 136 149	171 159 160	219 226 229	179 180 181

13 July, 1914=100.

COMPARATIVE RETAIL PRICES IN PRINCIPAL COUNTRIES.

In the following tables are presented statistics showing the trend of retail food prices and cost of living in the United States and certain other countries. Descriptions of these index numbers were given in the BULLETINS for January and April, 1923. 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.

					1	EUROPE	AN COU	NTRIES.								D STATE R COUN		
Year and month.	Aus- tria (Vi- enna).	Bel- gium.	Bul- garia.	Czecho- slo- vakia.	France (Par- is). ²	Ger- many (71 cities).	Ger- many (Ber- lin).	Italy.	Neth- er- lands (Am- ster- dam).	Nor- way.	Spain (Mad- rid).²	Swe- den.	Swit- zer- land. ²	United States.	Can- ada.	Aus- tralia.	New Zea- land.	South Africa.
1914, July. 1920, July. 1921, July.	⁸ 1	100 459 410	100 1,694 1,612	100	100 373 306		⁸ 1 14 15	1 100 452 501	100 210 180	100 319 295	100 191 184	100 297 232	100 239 207	100 215 145	100 227 148	100 194 161	100 167 164	100 197 139
1922. Jan Feb Apr May June June July Aug Sept Oct Nov Dec	748 871 904 1,043 1,374 2,421 3,282 7,224 13,531 11,907 11,145 10,519	417 399 382 378 379 384 381 377 386 406 432 429	2,259 2,364 2,380 2,456 2,632 2,379 2,431 2,475 2,478 2,506 2,520 2,575	1,4671,4611,4141,4151,4441,4751,4301,2901,1051,016984962	319 307 294 304 317 297 289 291 290 297 305	25 30 36 44 47 51 68 97 154 266 550 807	26 31 36 43 45 48 71 111 176 288 605 831	576 559 546 524 530 522 531 537 555 561 557	148 149 143 137 136 137 140 139 141 143 136 137	257 245 238 234 230 227 233 232 228 220 216 215	179 179 181 190 188 183 179 178 179 178 178 178 177	190 189 185 182 178 179 179 181 180 178 170 168	176 173 162 153 152 153 153 153 155 155 156 156	139 136 136 136 138 138 139 136 137 140 142 144	149 143 142 138 138 137 138 141 139 138 139 140	142 140 141 143 147 146 148 149 149 149 146 145 146	147 145 141 144 145 143 144 141 139 139 139 138	121 119 129 120 118 116 116 116 117 119 120 118
1923. Jan Feb Mar	10, 718 10, 784	426 439 439		941 934 926	309 316 321	1, 366 3, 183 3, 315	1,336 3,319	542 527 523	140	214 214 214	180 181	166 165	155 154	141 139 139	142 142 145	145 144	138 139 141	117

INDEX NUMBERS OF RETAIL FOOD PRICES.

¹ Average for 1913.

² Includes, in addition to foodstuffs, certain items of fuel and light.

³ July, 1914=1.

COST OF LIVING INDEX NUMBERS.

					EUR	OPEAN (COUNTR	ies.					UNITE	D STATES	S 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,	United States (32 cities).	United States (Mass.).	Can- ada.	India (Bom- bay).		South Afri- ca.
1914, July 1920, July 1921, July	11 	² 100 404	100 931 1,214	100 341 307	* 1 9 11	4 1 11 11	100 441 449	5 100 217 208	100 302 302	¹ 1 257	° 100 205	100 252 219	7 100 217 180	100 198 158	100 190 155	100 190 177	⁸ 100	• 100 133
1922. Jan Feb Mar June June July Sept Oct Nov Dec	669 770 792 875 1,093 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	$\begin{array}{c} 1,124\\ 1,120\\ 1,107\\ 1,109\\ 1,111\\ 1,137\\ 1,142\\ 1,159\\ 1,160\\ 1,178\\ 1,169\\ 1,158\end{array}$	291 302 289 300	18 22 26 32 35 38 50 70 114 195 400 612	$\begin{array}{c} 19\\ 22\\ 27\\ 32\\ 35\\ 41\\ 103\\ 164\\ 261\\ 565\\ 868 \end{array}$	$523 \\ 522 \\ 503 \\ 490 \\ 492 \\ 488 \\ 488 \\ 491 \\ 498 \\ 504 \\ 505 \\ 504$	192 187 175 176	266 255 249 238	469 481 524 586 639 684 788 908 1,077 1,284 1,710 2,310	186 175 170 162 156 155 159 154 154 154 155 158 158	192 188 186 182 181 180 184 181 180 184 181 179 178 180 180	167 167 166 166	$154 \\ 154 \\ 152 \\ 152 \\ 152 \\ 152 \\ 153 \\ 152 \\ 152 \\ 152 \\ 153 \\ 154 $	149 148 146 145 145 146 146 147 147 147 147 147	$\begin{array}{c} 173\\ 165\\ 165\\ 162\\ 163\\ 163\\ 165\\ 164\\ 165\\ 162\\ 162\\ 160\\ 161\end{array}$	157 156 153 152 152 151 150 150 150 149 149 148	122 120 120 122 122 121 120 120 120 120
1923. Jan Feb Mar April	9,454 9,601 10,238	425 436 434	1,150 1,149		1,034 2,408 2,627 2,764	1,291 2,814 2,608	505 497		237	3,527 5,713	158 157 158	178 177 176 174	 	154 155 154	149 150 152	156 155 154	148	120

¹ July, 1914=1. ² Apr. 15, 1914=100. ³ 1913-14=1. * August, 1913–July, 1914=1. 5 1910–11=100. 8 June.

⁷ July, 1913=100. ⁸ 1909-1913=100. ⁹ 1910=100.

¹⁰ Average for year.

vorage for year

INDEXES OF INDUSTRIAL ACTIVITY IN FOREIGN COUNTRIES.

UNITED KINGDOM.

	P	RODUC	TION.			F	XPORTS	•	J	MPORT	s.	т	RANSPO	RTATIO	N.	Unem-		
Year and month.			Steel in-	Fin-	Raw cot- ton, visible	Iron and	Cot- ton		Raw		Raw	Ves- sels	Ves-		tish vays.	ployed among 12,000,- 000 in-	Unem- ployed among trade	Net profits of indus- trial
	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.	under con- struc- tion.	sels clear- ing.	Net ton- miles	Total freight re- ceipts.	sured per- sons.	union- ists.	com- panies.
Manthlaran	Long tons.1	Long tons.1		Long tons.1	Bales.1	Long tons.1	Square yards.2		Lbs.2	Lbs.2	Lbs.1	Gross tons.1	Tons.1	Ton- miles.2	£ ster- ling.1	Per cent.	Per cent.	Per cent.
Monthly av: 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, 0 64	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	7,757 4,508 5,368 5,500	2,003 3,603 3,313 1,810	5,652 3,049 3,032 4,974	1,546 1,108	•9,074	1 3. 8 13.3	2.1 2.4 15.3 15.4	11.7 15.2 10.3 7.0
1922. March May June July August September October November December	15,827 23,135 19,050	390 394 408 369 399 412 430 482 494 534	$\begin{array}{r} 549\\ 404\\ 462\\ 400\\ 473\\ 528\\ 556\\ 565\\ 601\\ 546\end{array}$	369 294 334 316 345 338 386 393 410 407	1, 112 1, 181 1, 143 1, 143 1, 111 890 864 853 882 1, 056 1, 138	296 258 272 236 252 270 279 347 372 341	307 305 345 315 447 381 400 357 402 364	5,201 4,097 5,057 4,794 5,064 6,146 7,083 6,196 6,571 5,955	83 101 120 127 111 81 60 128 183 205	$123 \\ 117 \\ 138 \\ 97 \\ 79 \\ 107 \\ 52 \\ 60 \\ 60 \\ 70$	5,116 3,543 3,353 3,105 8,277 8,154 8,220 5,701 6,160 5,711	2,236 1,920 1,617 1,469	$\begin{array}{r} 4,814\\ 4,187\\ 5,104\\ 4,975\\ 4,828\\ 5,855\\ 5,731\\ 5,590\\ 5,653\\ 5,145\end{array}$	$\begin{array}{c} 1,527\\ 1,236\\ 1,379\\ 1,160\\ 1,369\\ 1,455\\ 1,464\\ 1,545\\ 1,568\\ \end{array}$	11, 143 9, 198 10, 442 8, 903 9, 561 9, 398 9, 204 9, 922 9, 954	14.6 14.4 13.5 12.7 12.3 12.0 12.0 12.0 12.4 12.2	$\begin{array}{c} 16.3\\ 17.0\\ 16.4\\ 15.7\\ 14.6\\ 14.4\\ 14.6\\ 14.0\\ 14.2\\ 14.0\\ 14.2\\ 14.0\end{array}$	7.2 5.9 9.1
1923. January February March	21, 219 22, 247 5 27, 577	568 543 634	634 707 8 03	480	1,123 1,104 1,024	353 318	404 346	5,612 5,903	135 130	98 84	5, 041 3, 955	 1, 492	5, 281 4, 985			12.7 11.8 11.1	13.7 13.1 1 2.3	9.9

¹ In thousands; 000 omitted. ² In millions; 000,000 omitted.

Figures for end of the month.
Expressed in yards.

⁵ Figures for 5 weeks.
⁶ 11 months average.

FRANCE.

PRODUCTION. EXPORTS. IMPORTS. TRANSPORTATION. Unemployed receiving Cotton Average daily Year and month. Raw Raw Receipts stock at municipal aid in Paris. Coal for of princi-pal rail-ways.³ Crude steel. Havre.² cotton for consumpsilk for consump Vessels consump-tion. freight car Pig iron. Total. Total. cleared. tion. tion. loadings. Metric tons.¹ 5 434 286 280 Metric tons.¹ ⁵ 391 254 255 373 Metric tons.¹ 1,840 1,071 1,333 1,885 $\begin{array}{c} Metric \\ tons.^1 \\ 3,685 \\ 4,211 \\ 3,165 \\ 4,281 \end{array}$ Metric tons.1 1,558 2,005 1,472 1,861 Metric Metric Metric tons. 27,428 19,577 16,666 21,923 Tons.¹ 2,176 1,412 1,803 2,229 Francs.¹ 6 165, 892 479, 894 516, 397 557, 194 Bales.1,4 274 225 169 tons. 629 Monthly average: 1913..... Number. Number. 3,022 20,671 1,679 1920. 1921. 1922. 390 206 51,107 427 148 480 1922 47,741 49,676 47,225 49,055 49,585 50,031 50,875 54,431 57,185 56,046 481,088 472,779 608,764 472,607 504,431 651,720 546,310 720,210 563,314 532,152 691 539 1922. February..... March..... April..... May..... June..... 323 386 $\begin{array}{r} 4,385\\ 3,546\\ 2,447\\ 1,636\\ 958\\ 602\\ 606\\ 410\\ 272\\ 285\\ 414 \end{array}$ 317 $1,520 \\ 1,570 \\ 1,794 \\ 1,538 \\ 1,799 \\ 1,936 \\ 1,788 \\ 2,616 \\ 2,034 \\ 2,034 \\ 2,429 \\$ $\begin{array}{r} 4,126\\ 4,434\\ 3,787\\ 4,396\\ 4,307\\ 4,223\\ 4,512\\ 4,138\\ 4,543\\ 4,577\\ 4,930 \end{array}$ $\begin{array}{c} 14,714\\ 20,978\\ 17,391\\ 18,090\\ 32,380\\ 26,325\\ 16,291\\ 17,302\\ 27,877\\ 20,387\\ 36,468 \end{array}$ 467 2,153 2,081 1,538 2,058 1,829 1,631 1,767 1,692 1,768 1,965 2,177 $1,744 \\ 1,934 \\ 2,088 \\ 2,340 \\ 2,473 \\ 2,523 \\ 2,359 \\ 2,359 \\ 2,356 \\ 2,455 \\ 2,366 \\ 2,455 \\ 2,366 \\ 2,455 \\ 2,366 \\ 2,455 \\ 2,366 \\ 3,56$ ${ \begin{array}{c} 163 \\ 127 \\ 138 \\ 169 \\ 145 \\ 153 \\ 135 \\ 99 \end{array} } }$ 408 207 404 391 367 380 383 442 416 428 447 324 364 358 369 397 407 430 410 414 566 579 550 722 July..... August September..... October November..... 462 503 513 131 158 197 526 December 513 436 55,848 691, 539 1923. January..... February..... March..... $1,896 \\ 2,490 \\ 1,822$ 486 408 290 2034,111 33,275 2381,888 2,14654,432 484, 566 684 169 125 55, 890 56, 528 666 588 305496, 581 516, 463 3.8844,087

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 5 kilograms.
 Figures do not include Lorraine.

⁶ Excludes the Alsace-Lorraine and Guillaume-Luxembourg Railways.

	PRODU	CTION.		EXPO	DRTS.1			IMPO	RTS.1		SHIPI	PING.	UNEM ME	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. ²	Raw wool.	Half manu- fac- tured silk.	Cot- ton. ³	Iron ore.4	Arriv vesse Hami	lsin	Appli- cants for every 100 avail- able posi- tions.	Unem- ployed persons receiv- ing State aid.	Busi- ness fail- ures during month.
Monthly av.: 1913 1920 1921 1922	Metric tons. ⁵ 17,003 13,043 13,664 10,863	<i>Metric</i> <i>tons.</i> ⁵ 7,266 9,303 10,241 11,432	Metric tons. 541, 475 145, 883 203, 681 220, 803	<i>Metric</i> <i>tons.</i> 60, 919 46, 772 39, 037 49, 147	Metric tons. 21,812 8,462 8,530 12,731	Metric tons. 2,881,126 608,749 518,937 421,835	Metric tons. 16,608 4,025 11,860 15,910	Metric tons. 920 6 232 393 407	Metric tons. 43, 424 12, 490 30, 894 21, 483	Metric tons. ⁵ 1,225 538 619 1,003	Num- ber. 1,256 401 700 907	Tons. ⁵ 1, 182 374 794 1, 084	Num- ber. 169 165	Num- ber.5 366 310 77	Num- ber. 331 744 84
1922. February March April May June July August September October November December	$\begin{array}{r} 13,655\\15,931\\13,800\\14,669\\11,416\\11,972\\12,780\\12,623\\13,329\\12,986\\12,251\end{array}$	$\begin{array}{c} 10,091\\ 12,260\\ 10,634\\ 11,437\\ 10,487\\ 11,411\\ 12,147\\ 11,823\\ 12,078\\ 11,896\\ 11,897\\ \end{array}$	$\begin{array}{c} 172,709\\ 211,979\\ 200,677\\ 209,432\\ 213,220\\ 212,265\\ 198,408\\ 244,012\\ 246,074\\ 233,553\\ 285,464 \end{array}$	45, 689 48, 813 46, 112 47, 354 49, 347 44, 162 50, 978 40, 150 50, 699 41, 644 85, 350	9,332 12,299 11,095 12,629 16,335 12,671 12,616 13,477 15,187 11,110 16,472	669, 433 795, 200 795, 940 701, 941 528, 766 199, 961 121, 359 110, 245 125, 670 137, 341 123, 826	26, 202 26, 988 24, 091 25, 619 15, 723 14, 119 11, 011 8, 708 10, 023 9, 198 8, 828	383 440 462 486 436 435 459 342 371 425 297	17,915 26,130 24,070 26,112 22,037 26,085 20,915 13,959 10,584 20,622 25,942	493 810 866 1,519 1,159 997 1,090 1,316 842 1,038	461 894 972 1,143 1,092 793 1,005 945 1,016 877 936	716 969 1,112 1,244 1,287 1,065 1,171 1,208 1,272 1,046 1,041	145 113 113 107 103 106 109 122 129 155 165	203 213 116 65 29 20 15 12 17 25 43	123 151 107 95 91 81 59 45 28 28 42
1923. January February	1,987 (⁷)	9,104 (⁷)	236, 709 209, 965	42,209 34,438	13,651 12,077	90, 626 120, 947	11,448 10,240	254 244	26, 382 19, 035	867 269	993 900	1,142 1,047	195	82	23 15

GERMANY.

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

SWEDEN.

_	PRODU	CTION.	EXPO	RTS.	IMPORTS.	ŤR	ANSPORTATIC	N.	Unem-	Desein cor
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.	Business failures during month.
Monthly average: 1913 1920 1921 1922	Metric tons. ¹ 61 39 26 22	Metric tons.1 49 37 17 26	Cubic meters.1 328 306 162 320	Metric tons. ¹ 71 73 40 87	Metric tons. ¹ 408 234 122 220	Net tons.1 1,147 677 519 594	Net tons. ¹ 1, 147 692 482 642	Metric tons. ¹ 830 991 589 681	Number. 112 107 276 290	Number. 317 196 432 388
1922. February. March. April. June. July. August. September. October. November. December.	19 24 21 20 22 22 22	17 22 21 31 24 27 27 31 31 31 34 29	25 63 66 99 500 608 539 508 494 465 384	11 36 21 76 80 89 104 113 144 189 156	62 197 206 230 172 214 229 270 302 302 346	285 617 524 600 596 625 694 684 699 705 655	255 509 485 633 738 787 836 808 822 751 671	630 730 622 578 645 715 765 776 799 796 635	479 381 368 257 215 203 172 155 177 269 321	398 513 400 430 362 374 300 371 335 353 309
1923. January February March	22 6	15 0.4	97 45 38	41 12 9	227 201 218			557 669	346 308 231	387 338 322

¹ In thousands; 000 omitted.

	PRODU	CTION.	Re- ceipts of wheat at	Receij stock y Toroni Winn	ards in to and		EXP	DRTS.		1	IMPORTS.		Rail-	Unem- ploy- • ment	Busi-
Year and month.	Pig iron.	Crude steel.	Fort Wil- liam and Port Ar- thur.	Cattle.	Hogs.	Planks and boards.	Pre- served fish.	Wood pulp.	Wheat.	Coal.	Raw. cotton.	Ma- chin- ery.	road re- ceipts.	among trade union mem- bers.	ness fail- ures.
1921 average 1922 average	Tons.1 50 32	Tons.1 56 41	Bush- els,1 14,447 20,363	Num- ber. 39,904 49,832	Num- ber. 34, 165 40, 473	<i>Feet.</i> ² 85 166	<i>Lbs.</i> ¹ 11,007 9,488	<i>Lbs.</i> ¹ 87, 871 136, 375	Bush- els. ¹ 12, 238 17, 462	Tons. ¹ 1, 525 1, 085	Lbs.1 7, 269 9, 229	Dol- lars.1 2,292 1,895	Dol- lars. ¹ 33, 885 34, 021	Per cent. 12.5 7.1	Num- ber. 47 74
1922. January February April June June July August September October November December	32	33 42 30 22 17 33 63 59 36 53 51 47	$\begin{array}{c} 7,693\\ 4,163\\ 8,993\\ 6,128\\ 11,684\\ 5,597\\ 5,420\\ 3,681\\ 36,986\\ 65,120\\ 56,847\\ 32,044 \end{array}$	32, 105 25, 561 29, 101 30, 845 37, 367 34, 856 52, 473 75, 212 67, 579 87, 092 80, 084 45, 705	47, 974 38, 205 41, 310 36, 584 46, 432 41, 445 32, 812 29, 381 26, 154 39, 806 56, 328 49, 244	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	$\begin{array}{c} 124,012\\ 87,039\\ 117,543\\ 62,153\\ 105,197\\ 168,169\\ 155,502\\ 169,611\\ 180,068\\ 154,019\\ 173,180\\ 140,001 \end{array}$	$\begin{array}{c} 6,103\\ 5,602\\ 6,042\\ 1,940\\ 14,207\\ 11,760\\ 9,487\\ 11,587\\ 9,233\\ 37,593\\ 37,593\\ 55,316\\ 40,669 \end{array}$	$1,069 \\ 1,148 \\ 1,857 \\ 896 \\ 548 \\ 412 \\ 427 \\ 440 \\ 663 \\ 1,465 \\ 2,127 \\ 1,964$	11,007 8,758 12,538 7,320 9,788 8,438 7,518 8,459 4,276 4,383 11,284 16,980	$1,685 \\1,600 \\2,410 \\1,637 \\1,999 \\2,008 \\1,559 \\1,963 \\1,918 \\1,931 \\2,114 \\1,986$	26,706 20,053 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 67 64 64 65 72 76 82
1923. January February	41 44	48 47	11, 574 3, 176	42, 126 31, 323	64, 219 45, 554	168 124	7,325 7,272	139,749 100,929	9,740 7,129	1,876 1,601	20,026 12,426	1,981 2,033	30,686	7.8 6.4	88 82

CANADA.

¹ In thousands; 000 omitted.

² In millions; 000,000 omitted.

JAPAN.

	PR	ODUCTIO	N. ¹	Raw		EXP	ORTS.		1	MPORTS.		TRAN	ISPORTẠT	ION.1
Yesr 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.	Re- ceipts of State rail- ways.
Monthly average: 1913. 1920. 1921. 1922.	Bales. 126 151 151 185	Hiki. ² 149 145	Pounds. 44, 538 52, 445	Bales. 53,111 58,477 44,832	Piculs. ³ 16, 857 14, 557 21, 836 28, 697	Piculs. 2,302 2,264 1,702 1,721	Piculs. 113, 374 74, 839 73, 065 98, 516	Yards. ¹ 7, 921 28, 465 23, 210 24, 260	Piculs. ¹ 537 648 720 716	Piculs. 13, 162 46, 918 22, 277 47, 096	Piculs. ¹ 132 528 312 545	Tens. 2,075 2,216 2,324 2,969	Tens. 2,923 4,548 4,342 4,768	Yen. 11,723 27'589 31s182 33,864
1922. January February March April May June July August September October November December December	191 194 192 181	$\begin{array}{c} 166\\ 129\\ 153\\ 110\\ 160\\ 173\\ 159\\ 116\\ 120\\ 118\\ 123\\ 117\\ \end{array}$	$\begin{array}{r} 46, 488\\ 46, 605\\ 49, 644\\ 52, 687\\ 53, 975\\ 52, 791\\ 53, 734\\ 54, 553\\ 53, 326\\ 54, 892\\ 54, 340\\ 56, 306\\ \end{array}$	$\begin{array}{r} 40,561\\ 32,213\\ 44,701\\ 40,777\\ 18,293\\ 18,547\\ 45,848\\ 56,032\\ 48,810\\ 48,472\\ 75,419\\ 68,304 \end{array}$	16, 924 18, 102 16, 647 27, 380 35, 147 29, 569 34, 541 36, 196 35, 959 35, 970 26, 804 31, 133	$1,080 \\ 1,551 \\ 2,003 \\ 1,669 \\ 1,977 \\ 2,176 \\ 1,793 \\ 2,017 \\ 1,686 \\ 1,839 \\ 1,253 \\ 1,608 \\ 1,608 \\ 1,608 \\ 1,608 \\ 1,800 \\ 1,00$	$\begin{array}{c} 61,414\\ 63,719\\ 123,605\\ 138,226\\ 146,354\\ 139,057\\ 51,660\\ 40,075\\ 68,773\\ 118,431\\ 101,406\\ 129,466 \end{array}$	19, 124 24, 990 24, 194 24, 725 25, 821 29, 713 25, 284 22, 343 17, 662 25, 259 22, 537 29, 463	$1,161\\1,168\\1,084\\707\\580\\433\\731\\766\\330\\339\\805$	$\begin{array}{c} 41,724\\ 93,411\\ 64,865\\ 76,416\\ 24,753\\ 68,415\\ 37,431\\ 29,936\\ 17,559\\ 16,994\\ 47,469\\ 46,182 \end{array}$	462 594 637 582 752 890 872 697 351 332 240 131	$\begin{array}{c} 2,749\\ 2,817\\ 3,094\\ 2,971\\ 3,287\\ 3,024\\ 2,987\\ 3,119\\ 2,784\\ 2,895\\ 3,049\\ \end{array}$	$\begin{array}{c} 4,102\\ 4,261\\ 5,066\\ 4,968\\ 5,225\\ 4,965\\ 4,641\\ 4,489\\ 4,502\\ 4,920\\ 4,884\\ 5,189\end{array}$	$\begin{array}{c} 23,576\\ 28,036\\ 36,337\\ 42,074\\ 38,486\\ 32,180\\ 32,977\\ 33,944\\ 32,464\\ 35,374\\ 32,882\\ 33,041 \end{array}$
1923. January February	175 18 3	116	57,119	47, 394 30, 900	14,985 25,399	718 1,129	$73,769 \\ 54,298$	22,989 24,431	885 916	53,280 35,093	152 239	2,771 2,589	 	

¹ In thousands; 000 omitted.

² One hiki equals two pieces.

³ 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.		-			EXPORTS.				
Year and month.	Food, drink, and tobacco.	Raw mate- rials and articles mainly unmanu- factured.	mainly		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.	Re- exports.	Total exports and re- exports.
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 3, 027	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. April. May. June. July. August. September. October. November. December.	45, 261 40, 097 43, 075 39, 936 38, 817 37, 762 35, 555 38, 617 45, 501 42, 292	22, 095 21, 404 25, 358 25, 242 24, 237 24, 141 21, 848 26, 409 30, 223 32, 499	20, 309 18, 962 20, 207 18, 857 18, 579 20, 326 19, 244 19, 726 19, 587 19, 838	215 199 176 263 151 432 296 262 290 283	87, 879 80, 661 88, 814 84, 298 81, 784 82, 661 76, 944 85, 015 95, 600 94, 912	3,270 3,011 3,045 3,044 2,806 3,105 3,154 3,066 3,408 2,796	8, 465 7, 376 8, 757 7, 671 8, 900 10, 999 9, 211 10, 101 9, 493	51, 760 44, 336 45, 073 40, 556 48, 455 47, 149 48, 361 47, 010 51, 964 44, 932	1,085 785 1,171 875 1,117 878 897 1,112 1,018 1,662	64, 581 55, 508 58, 045 52, 146 60, 419 60, 032 62, 511 60, 399 66, 491 58, 883	10, 154 9, 200 8, 965 8, 720 8, 317 7, 504 6, 381 8, 277 9, 148 8, 479	74, 735 64, 708 67, 010 60, 866 68, 736 67, 536 68, 892 68, 676 75, 639 67, 362
1923. January February March	47, 398 37, 141 40, 726	30, 288 26, 739 27, 732	21, 707 19, 462 21, 226	307 513 338	99, 700 83, 855 90, 022	3, 364 2, 864 2, 646	9,372 9,470 11,564	53, 135 44, 324 45, 935	1,068 852 776	66, 939 57, 510 60, 921	9, 798 9, 823 9, 9 86	76, 737 67, 333 70, 007

FOREIGN TRADE OF FRANCE.¹

			IMPORTS.					EXPO	RTS.		
Year and month.		In thousan	ds of francs		In thou-		In th	iousands of	francs.		In thou-
	Food.	Raw materials.	Manufac- tured articles.	Total.	sands of metric tons.	Food.	Raw materials.	Manufac- tured articles.	Parcel post.	Total.	sands of metric tons.
Monthly average: 1913 1920 1921 ² 1922	151, 465 989, 576 517, 158 483, 334	412, 144 2, 096, 379 1, 033, 170 1, 170, 678	138, 169 1, 072, 787 412, 045 337, 705	701, 778 4, 158, 741 1, 962, 373 1, 991, 717	3, 685 4, 211 3, 165 4, 2 81	69,908 217,733 161,031 160,067	509, 485 463, 219	301, 421 1, 413, 548 1, 067, 413 988, 349	47, 182 100, 479 104, 430 118, 094	573, 351 2, 241, 245 1, 796, 092 1, 720, 166	1, 840 1, 071 1, 333 1, 885
1922. ⁴ March	476, 813 510, 597 473, 000 570, 395	$\begin{array}{c} 1,005,463\\983,000\\996,000\\1,082,371\\1,200,764\\1,096,903\\1,087,000\\1,189,564\\1,478,424\end{array}$	465, 737 323, 000 310, 000 285, 448 318, 169 352, 229 333, 000 348, 913 353, 235	1, 931, 965 1, 743, 640 1, 810, 125 1, 851, 184 1, 995, 746 1, 959, 729 1, 893, 000 2, 108, 872 2, 348, 245	4, 396 4, 307 4, 223 4, 512 4, 138 4, 543 4, 577	130, 595 136, 000 132, 000 113, 435 179, 407 141, 000 195, 467 196, 112	461,000 498,000 374,959 408,005 477,000 493,804 537,370	1, 189, 712 1, 231, 000 1, 127, 000 885, 029 931, 066 1, 055, 000 1, 098, 983 856, 421	99, 431 134, 000 111, 000 	1,876,668 1,962,997 1,886,964 1,433,042 1,676,000 1,741,000 1,937,467 1,706,499	1,570 1,794 1,538 1,799 1,936 1,788 2,616 2,034 2,034
December 1923. January February March	,	1, 903, 975 1, 374, 222 1, 445, 000 1, 508, 000	390, 616 312, 096 347, 000 365, 000	2, 923, 296 2, 144, 294 2, 343, 000 2, 487, 000	4, 930 4, 111 3, 884 4, 087	ŕ	730,000	1, 119, 980 944, 740 1, 236, 000 1, 380, 000	224, 292 129, 368 121, 000 123, 000	2, 778, 947 1, 695, 898 2, 329, 000 2, 474, 000	2,429 1,896 2,490 1,822

¹ Not including reexport trade. ² Calculated on 1919 value units.

^a Imports calculated on basis of actual declared value.
 ⁴ Value of exports not available. Beginning with June, exports calculated on 1921 value units.

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

Year and month.	Denr (In mil kron	nark. lions of ter.)	(In mil	ly. lions of e.)	Nether (In mil guild	lions of	Swe (In mil kron	lions of	Can (In mil doll	lions of	Bra (In mil milı	lions of	Inc (In mil rupe	lions of	Jap (In mil yei	
	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.	71 262 136 126	60 151 121 10 3	304 1,322 ¹ 1,041 1,311	$210 \\ 650 \\ 1 \\ 657 \\ 775$	(2) 278 187 169	$(2) \\ 142 \\ 114 \\ 102$	71 281 106 97	68 191 91 97	$56 \\ 89 \\ 103 \\ 63$	31 107 101 74	84 174 141 142	82 146 142 194	134 173 280 201	$205 \\ 272 \\ 214 \\ 244$	61 195 135 156	$53 \\ 162 \\ 104 \\ 136$
1922. January	103 126 159 142 117 134 134 134 148	80 76 100 76 113 126 107 90 122 112 122 120 109	1,3161,0561,3111,1571,2451,6621,1011,0801,2361,3951,2541,915	620 720 716 689 592 861 672 732 747 889 1,046 1,014	152 152 180 167 194 151 164 179 165 187 172 163	$\begin{array}{c} 86\\ 84\\ 113\\ 93\\ 108\\ 101\\ 105\\ 99\\ 116\\ 112\\ 104\\ 100\\ \end{array}$	77 49 109 97 93 83 105 109 118 111 110	61 38 71 60 90 104 113 132 123 123 122 128 120	51 54 79 48 66 62 61 67 60 67 76 70	47 61 33 70 73 72 74 73 104 104 112	92 101 131 127 127 129 109 147 132 226 170 208	199 161 172 187 141 149 154 182 202 209 237 250	276 189 215 178 191 164 182 212 182 289 206 192	232 222 277 239 273 192 244 252 216 216 216 288 278	179 198 208 185 174 157 142 137 135 105 105 116 143	87 101 115 129 155 146 144 144 150 161 139 158
1923. January February March		108 118	1,056 1,571	789 751	173 162	92 95	88 88	65 49	68 65	66 59	•••••		214	295	150 154 197	95 122 121

¹ Italian yearly figures for 1921 based on average for six months only. ² Dutch figures for 1913 not comparable with later figures.

FOREIGN TRADE OF UNITED STATES.

[In thousands of dollars.]

		IMPORTS.									*****	EXP	ORTS.			
					Merch	andise.				1			Merch	na n dise.		
Year and month.	Gold.	Silver.	Crude mate- rials for use in manu- factur- ing.	in crude condi- tion and food	manu-	Manu- fac- tures for further use in manu- factur- ing.	Manu- fac- tures ready for con- sump- tion.	Total mer- chan- dise. ¹	Gold.	Silver.	Crude mate- rials for use in manu- factur- ing.	condi- tion	stuffs partly or wholly	further	Manu- fac- tures ready for con- sump- tion.	Total mer- chan- dise. ²
Monthly average: 1913. 1920. 1921. 1922.	5, 309 34, 756 57, 606 22, 919	7,338	145,995 71,090	48,136	103,178 30,737	66.871	$73,060 \\ 51,587$	149, 383 439, 873 209, 929 259, 397	7,650 26,841 1,991 3,073	9,468 4,298	155,897 82,002	76,499 57,681	93,050 55,809	33, 323	64,998 267,071 135,450 107,692	207,002 685,668 373,760 319,316
1922. March May June July August. September 3. October 5 November December	42,987	6,957 4,944 6,370 3,940 5,855	69, 804 88, 088 91, 146 87, 366 110, 304 86, 818 137, 651 111, 145	31,264 26,170 27,596 22,481 18,729 37,465	32,482 34,785 37,346 38,513 42,404 24,023 30,290 31,771	$ \begin{array}{c} 39,398\\ 46,471\\ 47,960\\ 48,386\\ 41,776\\ 65,674 \end{array} $	50,820 58,254 58,439 49,475 55,857 54,037 71,745 58,309	217,023 252,817 260,461 251,772 281,376 228,795 345,083 291,805	$\begin{array}{c c} 963\\ 1,579\\ 3,407\\ 1,601\\ 644\\ 956\\ 1,399\\ 17,592\\ 3,431\\ 2,710\end{array}$	5,109 5,677 6,004 6,289 3,861 3,735 3,269 6,599	133,700 144,333	$\begin{array}{c} 31, 162 \\ 34, 151 \\ 40, 998 \\ 41, 959 \\ 61, 314 \\ 55, 149 \\ 40, 798 \\ 33, 615 \end{array}$	47,770 50,369 55,472 49,225 46,071 43,229 47,921 51,471	37,999 40,423 39,465 35,625 35,735 34,964 32,940 33,850	$113,846 \\112,161 \\121,319 \\109,596 \\104,853 \\107,254 \\110,190 \\110,275$	329, 980 318, 470 307, 569 335, 117 301, 157 313, 197 370, 719 380, 000 344, 328
1923. January 4 February 4 March 4	32, 820 8, 383 15, 951	3,792		28, 569	31, 264 	65, 241	63, 929	329, 844 296, 000	8,472 1,399 10,392	2,191	77, 323	24, 217 27, 169 19, 364	49, 747	39, 406	109, 609 107, 775 132, 361	335, 539 307, 194 341, 162

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.¹

		EXPO	ORTS.			імро	RTS.	
Year and month.	Raw mate- rials.	Pro- duc- ers' goods.	Con- sum- ers' goods.	Total.	Raw mate- rials.	Pro- duc- ers' goods.	Con- sum- ers' goods.	Total.
	(12)	(10)	(7)	(29)	(10)	(12)	(5)	(27)
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 June Juny August September . October . November December .	82.6 68.5 89.8 90.5 78.3 86.3 79.1 88.8 91.2 122.9 112.6 86.7	$\begin{array}{c} 104.3\\ 86.0\\ 121.7\\ 120.9\\ 128.8\\ 124.3\\ 124.3\\ 124.0\\ 90.0\\ 98.9\\ 96.8\\ 101.6\\ 109.9 \end{array}$	$\begin{array}{c} 129.\ 7\\ 127.\ 6\\ 156.\ 5\\ 150.\ 5\\ 155.\ 4\\ 169.\ 2\\ 133.\ 5\\ 126.\ 3\\ 111.\ 5\\ 121.\ 0\\ 117.\ 2\\ 122.\ 8 \end{array}$	94.5 82.6 106.9 106.0 99.4 107.4 95.0 96.7 96.2 119.8 112.4 96.5	$118.4 \\ 123.3 \\ 148.1 \\ 125.5 \\ 144.6 \\ 148.7 \\ 146.9 \\ 174.2 \\ 183.5 \\ 155.0 \\ 195.1 \\ 219.1 \\$	$\begin{array}{c} 228.\ 7\\ 281.\ 3\\ 306.\ 8\\ 236.\ 1\\ 227.\ 9\\ 273.\ 3\\ 266.\ 3\\ 255.\ 5\\ 244.\ 0\\ 241.\ 6\\ 244.\ 0\\ 263.\ 0 \end{array}$	$\begin{array}{c} 135.\ 2\\ 133.\ 5\\ 161.\ 1\\ 152.\ 0\\ 168.\ 0\\ 137.\ 3\\ 137.\ 5\\ 120.\ 3\\ 133.\ 4\\ 138.\ 8\\ 144.\ 4\\ 153.\ 9\end{array}$	$\begin{array}{c} 160.1\\ 183.4\\ 206.5\\ 169.1\\ 177.9\\ 191.0\\ 187.7\\ 194.2\\ 196.7\\ 172.4\\ 204.1\\ 224.0 \end{array}$
192 3. January February March	78.8 62.2 61.9	126.5 133.6 143.6	137.3 129.6 144.4	95.8 83.5 87.3	220.4	312.2	155.3	242.3

¹ 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. TIN, and 2 additional commodities in the November, 1921, BULLETIN. Exports of gasoline have been altered to include naphtha.

The index of the volume of exports for March rose 3 points, from 84 to 87, thus showing only a slight recovery from the decline in export volume during the short month of February. The principal increases occurred in consumers' goods, with larger exports of cotton cloth, lard, and kerosene. Among producers' goods leather and gasoline led in the matter of increased exports. Steel products also acted to offset last month's decline. The March condition in raw materials was not so favorable, due to declines in grain and cotton exports. On the other hand, exports of coal and metals increased.

Figures for volume of imports in January showed small increases in raw materials and consumers' goods, and a large increase in producers' goods, which caused the general index of imports to rise 18 points. Nitrate of soda, manila hemp, burlap, india rubber, and cane sugar all came in greatly increased quantities during January.

Comparing the volume of imports and exports for January with the condition of trade in 1913, it appears that 1923 is beginning with imports 142 per cent greater than in the pre-war year and exports 4 per cent lower.

SAVINGS DEPOSITS.

Savings deposits, as reported by 899 banks distributed throughout all sections of the United States, increased during March in all Federal reserve districts except in the Kansas City district, where a slight decrease was indicated. For the entire country the increase was \$53,456,000, or 0.8 per cent over March 1, 1923, and \$576,407,000, or 9.8 per cent over April 1, 1922. The increases reflect the general industrial expansion and agricultural development in almost all sections of the country, both of which have resulted in improved employment conditions. A comparison of savings deposits on April 1, 1923, with deposits on March 1, 1923, and April 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, BY FEDERAL RESERVE DISTRICTS.

[000 omitted.]

District.	Num- ber of banks.	Apr. 1, 1923.	Mar. 1, 1923.	Apr. 1, 1922.
No. 1—Boston No. 2—New York No. 3—Philadelphia. No. 3—Philadelphia. No. 4—Cleveland No. 5—Richmond No. 5—Richmond No. 6—Atlanta. No. 7—Chicago No. 8—St. Louis. No. 9—Winneapolis. No. 10—Kansas City. No. 11—Dallas No. 12—San Francisco.	$99 \\ 210 \\ 35 \\ 15 \\ 62 \\ 118$	\$1, 165, 719 1, 825, 991 449, 252 415, 526 287, 828 210, 955 834, 622 126, 838 87, 987 96, 619 89, 244 885, 590	\$1, 158, 610 1, 809, 394 446, 773 412, 811 285, 829 207, 897 827, 691 125, 774 86, 892 96, 756 87, 175 877, 113	\$1,085,788 1,699,534 426,470 374,773 255,034 185,064 758,258 111,675 79,057 86,511 76,136 761,464
Total	899	6, 476, 171	6, 422, 715	5, 899, 764

COMMERCIAL FAILURES DURING MARCH.

District	Num	ber.	Liabilities.			
District.	1923	1922	1923	1922		
No. 1—Boston	143	217	\$2,996,492	\$8,066,696		
No. 2-New York	316	478	8, 883, 184	14,656,044		
No. 3—Philadelphia	73	96	10,622,911	6, 848, 734		
No. 4-Cleveland	130	202	5,156,589	4, 159, 463		
No. 5-Richmond	100	215	2,847,909	3, 787, 550		
No. 6-Atlanta	117	221	2,788,463	5, 559, 986		
No. 7-Chicago	203	336	5, 360, 490	13, 189, 340		
No. 8-St. Louis	107	173	1, 508, 844	2, 529, 541		
No. 9—Minneapolis	76	103	1,415,434	3, 764, 602		
No. 10-Kansas City	97	100	1,361,100	1, 720, 146		
No. 11-Dallas	91	107	2, 474, 504	2, 121, 725		
No. 12-San Francisco	229	215	2, 977, 218	5, 204, 365		
Total	1,682	2,463	48, 393, 138	71, 608, 192		

REPORT OF ASSOCIATED KNIT UNDER-WEAR MANUFACTURERS OF AMERICA.

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

March		ber of portin		Production (in dozens).					
Month.	Total.	Win- ter	Sum- mer.	Total.	Winter.	Summer.			
1922. March. April. May. June. July. August. September. October. November. December.	53 47 47 50 49 52 47 49	36 38 34 38 41 41 42 38 38 38 36	34 31 28 25 23 24 27 25 28 27 25 28 27	756, 247 522, 035 518, 150 564, 893 422, 872 519, 511 513, 572 524, 486 599, 891 461, 695	392, 595 275, 911 298, 080 345, 605 269, 223 341, 713 318, 220 283, 242 321, 944 233, 459	363, 652 246, 124 220, 070 219, 288 153, 649 177, 798 195, 352 241, 244 277, 947 228, 236			
1923. January February March	50	37 38 35	28 32 32	558, 845 564, 708 593, 020	269, 026 269, 950 275, 552	289, 819 294, 758 317, 468			

Forty representative mills which reported for February and March furnished the data for the following table:

	February, 1923.	March, 1923.	Loss.	Gain.
Unfilled orders (end of month) New orders	1, 755, 566 308, 822 565, 455 6, 779 454, 026	1, 525, 172 395, 116 618, 567 6, 943 530, 968	230, 405	86, 294 53, 112 164 76, 942

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 European Trade.

		United States Atlantic ports to											
Month.	United King- dom.	French Atlantic.	Nether- lands and Belgium.	Scandi- navia.	Medi- terra- nean.	All Europe.							
January, 1920 January, 1921	100. 0 60. 7	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 June June June June September October December	$\begin{array}{c} 31.7\\ 34.7\\ 33.1\\ 27.9\\ 27.5\\ 28.8\\ 29.2\\ 27.0\\ 25.3\\ 28.0\\ 27.1\end{array}$	$\begin{array}{c} 22.\ 7\\ 25.\ 9\\ 26.\ 5\\ 24.\ 8\\ 25.\ 5\\ 26.\ 1\\ 25.\ 9\\ 23.\ 4\\ 24.\ 1\\ 23.\ 9\\ 23.\ 4\\ 25.\ 6\end{array}$	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. 4 23. 4 22. 4 22. 6 22. 9 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. 7 24. 0 24. 4							
1923. January February March April	25.3 21.8 23.1 22.6	24.7 22.6 23.6 24.2	19.8 18.6 20.0 21. {	22. 3 22. 3 22. 3 22. 3 22. 3	21. 2 20. 6 19. 5 22. 0	22. 9 21. 1 21. 9 22. 6							

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PRODUCTION AND SHIPMENTS OF FINISHED COTTON FABRICS.¹

		Februa	ry, 1923.			March	, 1923.	
	White goods.	Dyed goods.	Printed goods.	Total.	White goods.	Dyed goods.	Printed goods.	Total.
Total finished yards billed during month: District 1	12,781,525 5,076,248 8,332,926 7,069,422 999,168	27, 458, 764 3, 800, 797 6, 515, 980 89, 897	10, 397, 550 4, 791, 188	53,886,334 21,055,176 14,848,906 7,159,319 999,168 1,501,075	15, 191, 927 7, 279, 971 9, 695, 150 7, 991, 994 1, 000, 476	31, 431, 586 2, 706, 942 8, 188, 215 186, 330	11, 304, 273 5, 837, 900	62,078,420 24,803,738 17,883,365 8,178,324 1,000,476 1,511,455
Total	34, 251, 289	37,865,438	15,188,738	99,441,978	41, 159, 518	42, 513, 073	17, 142, 173	115, 455, 778
Total average per cent of capacity operated: District 1	58 57 107 62 75	95 66 80	62 46	73 74 93 62 75 63	69 67 115 68 76	104 79 92	72 51	83 84 101 68 76 61
Average for all districts	67	88	59	74	76	98	69	84
Total gray yardage of finishing orders re- ceived: District 1	13,980,547 6,298,129 8,305,886 7,079,637 991,168	29, 618, 028 5, 480, 804 6, 809, 102 355, 186	9,481,922 4,698,309	56,770,679 20,779,723 15,114,988 7,434,823 991,168 1,735,325	$14,784,681\\8,364,644\\9,463,354\\7,259,301\\1,000,476$	35,758,255 6,586,940 7,690,597 241,072	14,098,725 5,321,823	68,704,569 24,637,983 17,153,951 7,500,373 1,000,476 1,443,653
Total	36,655,367	42, 263, 120	14, 180, 231	102, 826, 706	40,872,560	50, 276, 864	19, 420, 548	120, 441, 005
Number of cases of finished goods shipped to eustomers: District 1	5,834 3,198 6,166	8,537 375 3,223	2,729	29,687 11,577 9,389 3,985	7,247 3,285 6,273 1,674	8,719 588 3,346	2,306	34, 377 12, 574 9, 619 3, 884
8				454				373
Total	16,852	12,135	2,729	55,092	18,479	12,653	2,306	60, 827
Number of cases of finished goods held in storage at end of month: District 1		4,377 447 374	2,304	20, 817 11, 446 7, 211 1, 243 	5, 165 3, 530 327	4,659 633 331	2,621	22,061 10,504 7,018 11,353
Total	8,283	5,198	2,304	40,935	9,022	5,623	2,621	41,142
Total average work ahead at end of month (expressed in days): District 1	5.4 10 14.1 5.3	17.2 9.8 13.1	17.4	13.3 11.3 13.6 5.3	6, 6 11. 9 16, 6 4, 8	23 13.6 14.3	23.9	17. 2 9. 9 15 4. 8
8				7				6.8
A verage for all districts	7.2	15.4	16.5	12.1	8.5	20.1	21.8	14.

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 of 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, 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. 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.

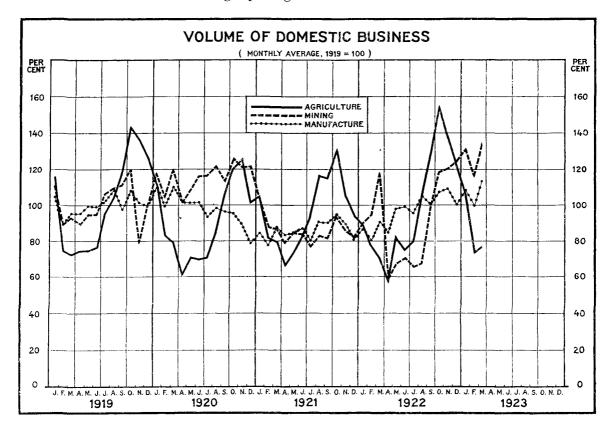
PHYSICAL VOLUME OF TRADE.

Large increases in business activity occurred during March, and many records were broken in the production and movements of goods. Output of manufactured goods, as shown by the index given in the table and on the chart which follow, reached the highest point attained in postwar years. Mineral production, after a seasonal decline in February, continued its upward trend and likewise exceeded that of all previous months covered by the index. Agricultural movements, in accordance with seasonal custom, were at a low point during March, but were on the whole greater than in February, whereas the March movement is usually downward.

Receipts of all the main groups of agricultural products, except tobacco, increased during March as compared with February, and all but cotton and tobacco were greater than during March of the four preceding years. Cotton sight receipts were, in fact, rather low even for this season of the year, as the earlier heavy movement has practically accounted for the greater part of the relatively small crop. Live-stock movements were slightly larger

during March than in February, and receipts of hogs were exceptionally heavy for that month. Grain movements, except corn, were also unusually large during March. Shipments of citrus fruits from California continued to increase in accordance with usual seasonal trends, but the figures indicate that the crop began its movement this season somewhat earlier than in previous years. Tobacco sales at loose-leaf warehouses fell off as compared with February, but were slightly greater than during the same month last year.

Mineral output for March, as indicated by the mining index, was at a maximum, owing to record-breaking production of pig iron and petroleum, accompanied by a high rate of output of the other products. The amount of anthracite coal mined equaled the highest figure previously reported, and copper output was the largest since January, 1919. Mining of bituminous coal was maintained at practically the same rate as during February. Extraction of zinc and lead reached high points during March, but comparable data extend only to January, 1920, in case of zinc, and to January, 1921, for lead.



FEDERAL RESERVE BULLETIN.

New maximum figures were also reported in factory output during March. Steel-ingot production, automobile output, and cotton consumption were the most important series which broke all previous records. The amount of lumber cut was the greatest since some time in 1918, and the output of all building materials was maintained at a high rate. The index for textile products, shown in the following table, was also at a high point, owing to the influence of large consumption of both cotton and wool. Sole-leather production increased rather substantially during March and was the largest since December, 1921. The output of food products, although not as great as during November, showed some improvement as compared with January and February, but cigar and cigarette factories continued at about the same rate of activity during March as in the two preceding months.

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 March	100.3 96.2	114.8 114.5	84.3 81.0	90.5 94,9	120.1 125.7
April May	98.8 92.9	107.6 105.4	78.6	85.3 92.1	
June	92.9	106.8	76.7	94.2 94.8	
July August	103.4	102.1	78.5	93.9	•••••
September October	104.6 101.1	101.7 99.0	79.1 82.7	99.9 106.9	•••••
November December	97.9 103.3	95.3 89.6	85.6 83.3	115.5 115.6	

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 February. March A pril June July. July. August September. October. Docember.	77.7 70.7 57.4 82.6 75.1	91.8 76.5 79.2 71.8 90.2 88.7 81.2 96.5 106.6 132.0 122.2 104.6	$\begin{array}{c} 83.8\\ 92.3\\ 73.0\\ 49.6\\ 92.5\\ 77.1\\ 106.4\\ 153.8\\ 150.6\\ 135.7\\ 118.2\\ 128.5 \end{array}$	$\begin{array}{c} 76.8\\ 43.3\\ 42.8\\ 37.0\\ 50.1\\ 43.0\\ 33.4\\ 48.3\\ 139.2\\ 227.8\\ 204.1\\ 139.2 \end{array}$	96. 1 55. 5 130. 4 103. 0 105. 7 93. 8 59. 3 43. 1 38. 0 40. 6 49. 0 100. 1	113. 2 101.2 27. 5 5. 5 3. 9 1. 5 12. 3 55. 2 85. 7 144. 7 96. 3 97. 3
1923. January February March	106.6 73.3 77.7	107.7 84.4 88.1	116. 4 75. 7 82. 6	80. 2 37. 4 39. 8	99.7 117.7 158.9	75. 1 45. 1 31. 0

¹ Combination of 14 independent series.

MINERAL PRODUCTS.

Date.	Total min- eral prod- ucts. ¹	Bi- tumi- nous coal.	An- thra- cite coal.	Crude petro- leum.	Iron.	Cop- per.	Zinc.	Lead.
1922.								
January	91.3	98.5	85.1	137.1	64.3	24.1	60.3	100.7
February	95.4	107.3	92.0	129.7	63.9	34.8	57.3	93.2
March	117.5	131.5	119.1	149.1	79.9	58.0	67.5	92.8
April	59.5	41.3	.3	141.9	81.3	71.7	65.6	88.7
May	67.9	53.1	.6	147.7	90.5	83.7	69.8	88.8
June	70.6	58.4	1.1	143.8	92.6	89.0	72.6	88.9
July	65.4	44.5	1.6	148.0	94.2	85.0	81.2	88.2
August	67.5	58.3	2.2	147.1	71.1	93.9	79.9	96.5
September.	99.9	107.3	67.7	143.8	79.8	89.8	84.3	95.1
October	118.5	118.3	116.1	150.1	103.5	96.2	101.6	108.1
November.	120.1	118.6	114.1	152.1	111.8	94.6	102.3	113.0
December	124.5	121.7	114.7	159.3	121.1	97.5	109.0	108.6
1923.								
January	131.5	131.4	118.5	163.5	126.7	104.6	117.8	112.5
February	116.6	110.5	105.8	153.8	117.5	95.5	108.0	103.6
March	134.2	122.6	127.6	178.3	138.1	113.8	124.0	120.7
)	J ,]	J	l .	1]

¹ Combination of 7 independent series.

PRODUCTION OF MANUFACTURED GOODS.

Date.	Total man- ufac- ture. ¹	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	112.2	88.2	91.3	90.6
February									
March	90 9								
April				99.9					
May	98.1			112.3					
June	99.1			110.6					119.8
July	95.3			99.9					114.8
August	104.6			110.7					134.1
September .				107.8					121.6
October	107.5			112.8	147.2	120.0	82.7	106.7	115.0
November	109.4			113.4		125.0	79.1	114.0	112.4
December	100.0	110.5	103.6	106.8	152.7	113.3	78.5	107.1	89 . 4
1923.									
January	108.7	129.3	105.8	117.3	156.8	128.0	88.9	104.1	115.3
February	99.9		95.8	109.0					101.3
March	112.7		128.7	120.4					

L Combination of 34 independent series.

COMMODITY MOVEMENTS.

	March, 1923.	February, 1923.	March, 1922.
Grain and flour.	· · ·		
Receipts at 17 interior centers (000 omitted):			
Wheat (bushels)	24,230	22,099	20,396
Corn (bushels)	25,672	31,557	30,651
Oats (bushels)	21, 124	16,041	16,465
Rye (bushels)	3, 679	16,041 4,749	3, 254
Barley (bushels)	3, 403	2,556	3, 291
Total grain (bushels)	78, 108	77,002	74, 057
Flour (barrels)	2,328	1,738	2,054
Total grain and flour (bushels)	88, 584	84, 823	83, 302
Shipments at 14 interior centers (000			
omitted):			
Wheat (bushels)	13, 521	10, 936	14,719
Corn (bushels)	14,677	14,377	22,999
Oats (bushels)	17, 083 945	13,438	16,826
Rye (bushels)		2,476	882
Barley (bushels)	1, 887	1, 747	1,920
Total grain (bushels)	48,115	42,975	57,346
Flour (barrels)	4,007	3,055	3,878
Total grain and flour (bushels)	66, 147	56,723	74,797

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COMMODITY MOVEMENTS-Continued.

COMMODITY MOVEME.	NTS-000	annueu.		
	March, 1923.	February, 1923.	March, 1922.	
Grain and flour-Continued.				
Stocks at 11 interior centers at close of month (000 omitted): Wheat (bushels)	37, 952 22, 974 20, 647 13, 368 1, 778 96, 719	36, 096 18, 492 24, 155 10, 711 1, 825 91, 279	26, 561 29, 883 54, 041 6, 666 1, 317 118, 468	E
Visible supply of grain east of the Rocky Mountains (000 omitted): Wheat (bushels) Corn (bushels) Oats (bushels)	48, 911 31, 011 26, 180	51, 500 29, 585 29, 937	38, 258 50, 036 68, 920	Re
Receipts at 9 seaboard centers (000 omitted): Wheat (bushels)	14,932 5,848 2,114 2,495 1,290	10,7678,3951,2353,7941,632	14, 219 21, 395 3, 931 865 1, 296	Co
Total grain (bushels) Flour (barrels) Total grain and flour (bushels)	26,679 2,034 35,883	25,823 1,621 33,116	41,706 2,090 51,110	
Stocks at 8 seaboard centers at close of month (000 omitted): Wheat (bushels)	8, 549 4, 131 2, 428 4, 012 1, 902 21, 022	9, 601 4, 795 2, 791 2, 559 2, 077 21, 823	8,360 10,510 2,087 1,840 1,731 24,528	Fi Co
omitted)	10,607	9,425	9,658	c
Live stock. Receipts at 57 principal markets (head, 000 omitted): Cattle and calves	1, 475 4, 831 761 59	1,401 4,393 1,343 52	1,581 3,329 1,390 45	O T
Total	7,126	7,189	6,345	
Shipments at 52 principal markets (head, 000 omitted): Cattle and calves	546 1,680 637 57	550 1,648 634 51	$624 \\ 1,156 \\ 655 \\ 45$	s
Total	2,920	2,883	2,480	Т
Shipments of stockers and feeders from 33 markets (head, 000 omitted): Cattle and calves. Hogs. Sheep.	195 61 114	206 165 50	278 67 143	F V
Total	371	411	488	
Slaughter at principal centers under Federal inspection (head, 000 omitted): Cattle. Calves. Hogs. Sheep.	688 368 4, 838 977	634 297 4,231 836	674 391 3,340 837	Si L
Total	6,871	5,998	5,243	
Meats, cold-storage holdings first of fol- lowing month (pounds, 000 omitted): Beef Pork products Lamb and mutton	102, 811 837, 636 5, 758	113, 415 686, 825 5, 283	73, 782 608, 747 2, 863	-

COMMODITY MOVEMENTS-Continued.

	March, 1923.	February 1923.	March, 1922.
Live stock-Continued.			
Exports of certain meat products (pounds, 000 omitted): Beef—			
Canned. Fresh Pickled and other cured Hog products—	104 348 2,312	253 320 1, 929	280 274 2, 798
Bacon Hams and shoulders Lard. Pork, pickled	40, 549 25, 892 109, 187 3, 325	36, 296 28, 192 89, 055 3, 863	31, 180 23, 583 64, 377 2, 953
Dairy products.			
Receipts at 5 principal markets (000 omitted): Butter (pounds) Cheese (pounds) Eggs (cases) Cold-storage holdings first of following	50, 409 15, 573 2, 124	40,662 12,575 1,025	44, 919 14, 586 1, 947
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 13
Fishery products.			
Fish landed by American fishing ves- sels, total catch (pounds, 000 omitted). Cold-storage holdings frozen and cured fish, on 15th of month (pounds, 000	30, 056	12, 499	19, 215
omitted)	34, 518	50, 645	40,112
Other agricultural products.			
Cottonseed (tons): Received at mills Crushed Stocks at mills at close of month Cottonseed oil (pounds, 000 omitted):	57, 595 200, 504 159, 922	92, 200 317, 182 302, 381	65, 107 214, 911 107, 058
Production	62, 170 60, 137	110, 403 83, 667	72, 237 60, 089
Oleomargarine consumption (pounds, 000 omitted) Tobacco sales at loose-leaf warehouses	19, 722	19, 722	15, 263
Dark belt-Virginia	2, 955	5, 541	862
Bright belt- Virginia North Carolina Burley. Western dark. Sale of revenue stamps for manufacture of tobacco, excluding Porto Rico and Philippine Islands (000 omitted):	8, 514 5, 256 5, 082	3, 451 4, 728 12, 832 8, 263	2,712 4,302 4,579 7,189
Cigars (large) Cigars (small) Cigarettes (small) Manufactured tobacco ((pounds) Evit ebiernante (carloado).	574, 515 49, 955 5, 043, 327 32, 269	507, 266 43, 539 4, 623, 431 29, 083	529, 162 59, 535 3, 636, 032 34, 395
Grapefruit. Oranges. Lemons. Apples. Vegetable shipments: Webits excitons (carloade)	2,686 668 8,090 5,362	1, 877 626 8, 009 6, 257	2, 079 925 5, 945 2, 987
Vegetable shipments: White potatoes (carloads) Onions (carloads) Rice (pounds, 000 omitted)	22, 917 1, 392 15, 448	13, 758 1, 398 56, 178	22, 104 724 119, 813
Sugar, all ports (long tons): Receipts	676, 245 505, 300 499, 543	421, 370 383, 100 434, 556	652, 803 533, 200 655, 280
Forest products. Lumber:			
Number of mills— National Lumber Manufactur-	587	569	480
ers' Association Southern Pine Association Western Pine Association West Coast Lumbermen's Asso-	180 51	179 51	169 54
ciation	127	124	129

COMMODITY MOVEMENTS-Continued.

COMMODITY MOVEMENTS-Continued.

COMMODITY MOVEME	NTS-Co	ntinued.		COMMODITY MOVEME	NTS-Con	tinued.	
	March, 1923.	February, 1923.	March, 1922.		March, 1923.	February, 1923.	March, 1922.
Forest products-Continued.				Textiles—Continued.			
Lumber-Continued.				Cotton (bales,000 omitted)-Continued.			
Production (feet, 000,000 omitted)				Stocks at mills Stocks at warehouses	2,035 2,378	2,022 2,804 2,734	1,557 3,752
ers' Association Southern Pine Association	1,355 431	978 359	885 395	Visible supply. Consumption by mills.	2,335	2,734	3, 593
Western Pine Association West Coast Lumbermen's	121	59	67	Spindles active during month (num-	623	567	518
Association	495	303	307	ber, 000 omitted)	35, 501	35, 308	31, 873
National Lumber Manufac-				Consumption (pounds, 000 omitted)	62,859	57, 916	60, 368
turers' Association Southern Pine Association	1,479 438	1,132 386	$^{900}_{199}^{100}_{17}$	Percentage of active machinery to total reported—			
Western Pine Association	148	117	1^{99}_{17}	Looms wider than 50-inch reed space	86.3	83.4	65.1
West Coast' Lumbermen's Association	567	360	2 ₈₀	Looms 50-inch reed space or less.	86.1	85.7	72. 2
Naval stores at 3 southeastern ports: Spirits of turpentine (casks)—			80	Sets of cards	90.7	88.4	83.6
Receipts.	5,431	5,814	3,3 19,201	Combs Spinning spindles, woolen	91.4 90.0	87.4 87.0	76.3 82.5
Stocks close of month Rosin (barrels)—	14,596	29, 238	00	Spinning spindles, woolen Spinning spindles, worsted Percentage of active hours to total	93.7	91.3	74.7
Receipts	48,445 222,501	46,644 282,610	44,0 82,469	reported-			
Fuel and power.	222,001	202,010	28	Looms wider than 50-inch reed space	92.9	79.7	63. 1
Coal and coke (short tons, 000 omitted):				Looms 50-inch reed space or		74.3	63. 5
Bituminous coal production Anthracite coal production	46,823	42, 130 7, 773	49, 976 8, 757	less	85.7 103.9	95.0	88.4
Anthracite coal shipments	9, 382 7, 183	5,952	6, 779	Combs Spinning spindles, woolen	117.2 98.6	93.3 94.6	82. 3 85. 9
Coke	1,749	1, 482 2, 810	732	Spinning spindles, woolen Spinning spindles, worsted Raw silk:	102.1	95.8	70. 8
By-product coke production Petroleum, crude (barrels, 000 omitted):	3,256	2,810	2,137	Consumption (bales	33, 515	36, 231	26,651
Production	56, 132	48, 413	46,634	Stocks at close of month (bales)	39,436	44,615	22, 077
Stocks close of month. Production oil wells completed	258, 738	252, 275	221, 588	Hides and leather.			
(number) Oil refineries:	1,248	1,094	1,323	Sales of raw hides and skins during month (number, 000 omitted):			
Production (000.000 omitted)-		10		Cattle hides	2,518	1,697	1,499
Crude-oil run (barrels) Gasoline (gallons)	47 631	43 569	39 472	Calfskins Kipskins	702 156	725	608 137
Keresene (gallons)	191 971	180 903	179 849	Goat and kid	1,236	$1,089 \\ 113$	1,230
Karseine (gallons). Keresene (gallons). Gas and fuel oils (gallons). Lubricating oils (gallons). Stocks (000 omitted)	91	77	73	Kipskins Goat and kid Cabretta. Sheep and lamb	$102 \\ 3,262$	2,902	1,276
Stocks (000 omitted)— Crude-oil run (barrels)	31	28	31	Stocks of raw hides and skins at close of month (number, 000 omitted):			
Gasoline (gallons) Kerosene (gallons)	$1,259 \\ 283$	1,130 273	854 321	Cattle hides	$6,749 \\ 2,689$	6,650 2,648	5,662 2,965
Gas and fuel oils (gallons) Lubricating oils (gallons)	254	1,277 239	1,250 237	Canskins Goat and kid. Cabretta Sheep and lamb. Production of leather (000 omitted):	1,010	1,068	916
	235	239	237	Goat and kid Cabretta	7,779 966	7, 950 968	8,044 361
Electric power produced by public utility plants (000,000 kilowatt-hours):				Sheep and lamb Production of leather (000 omitted):	8,510	9,058	11,941
Produced by water power	1,697	1,467 2,857	1, 470 2, 353	1 Sole leather (sides)	1.419	1,465	1,539
Produced by fuels	3,013	-		Skivers (dozens) Oak and union harness (sides stuffed)	$ 41 \\ 146 $	37 139	19 78
Total	4,710	4,321	3,823	Boots and shoes output (pairs, 000			
Metals.				omitted):		0 400	7 796
Iron and steel: Pig-iron production (long tons, 000				Men's Women's	10,713 11,614	8,688 9,576	7,732 10,529
	3,548	3, 521	2,072	Other	14,129	11,008	11,089
omitted) ² Steel-ingot production (long tons, 000 omitted) ² Unfilled orders, U. S. Steel Corpora- tion (long tons, 000 omitted) ² Fabricated structural steel orders	3,321	3,402	2,445	Total	35,792	29,272	29,350
tion (long tons, 000 omitted) ²	7,289	7,403	5,097	Building materials.	1		
Fabricated structural steel orders (tonnage)	210	179	139	Brick (000 omitted):			
Steel barrels (number)— Shipments	251, 573	103 002	168 476	Clay fire brick— Production	66,456	56,075	42,620
Unfilled orders	627,148	193,992 603,774	168,476 281,794	Shipments Stocks, close of month	70, 624 159, 180	$53,222 \\ 163,426$	42,620 38,694 149,034 43,098
Steel castings-bookings (net tons) Silver production (troy ounces, 000	143,564	90, 152	47, 893	New orders	99,330	67,164	43,09
omitted) Copper production (pounds, 000 omitted)	6,110 122,194	4,729 102,641	4,186 62,305	Unfilled orders Face brick—	118, 284	88, 713	51,05
Zine (nounds 000 omitted):				Production	$33,522 \\ 32,674$	$32,473 \\ 26,679$	42,13 37,99
Production	97,462	21,728	53,064 120,524	Stocks in sheds and kilns	102,741	134,175	156,900
Shipments Tin (pounds, 000 omitted):	99, 148	96, 306	60, 788	Unfilled orders, close of month Silica brick—	82, 377	91,819	59,85
Deliveries to factories		13,854	13, 507	Production	16,793	14,544	9,120 7,83
	9,110	4, 601	6, 912	Shipments. Stocks, close of month	17, 804 44, 481	14,418 45,492	36,94
Textiles.			1	Cement (barrels, 000 omitted):	1 '		
					9 880	8.085	6.68
Cotton (bales, 000 cmitted): Sight receipts	453	410 399	486 259	Production	9,880 10,326 13,055	8,085 5,963 13,502	6,68 7,00 13,84

² Figures for April, 1923, March, 1923, April, 1922.

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COMMODITY MOVEMENTS--Continued.

COMMODITY MOVEMENTS-Continued.

	March, 1923.	February, 1923.	March, 1922.		March, 1923.	February, 1923.	March, 1922.	
Building materials—Continued.			. <u> </u>	Miscellaneous manufactures—Con.				
Dak flooring: Production	$32,236 \\ 34,964$	$24,421 \\ 25,031$	20, 367	Locomotives (number): Domestic shipped Foreign completed	269	196	35	
Production . Shipments. Orders booked.	34,964	25,031	22,690	Foreign completed	13	11	4	
Stocks	$39,641 \\ 25,297$	$\begin{vmatrix} 33,458\\25,301\end{vmatrix}$	20, 367 22, 690 23, 479 28, 090	Total	282	207	39	
Stocks. Unfilled orders	65,823	56,936	24,935					
Maple flooring: Production	12.344	11,333	9.218	Unfilled orders— Domestic	2,214 102	2,141	255	
Shipments	12,344 15,329	11.354	9,218 10,548	Domestic Foreign	102	79	75	
Shipments Orders booked Stocks	$18,321 \\ 23,161$	$16,033 \\ 25,539$	11,923 33,632	Total	2,316	2,220	330	
Unimed orders	42,434	40,200	14,282					
nameled ware: Baths		{		Vessels built in United States and offi- cially numbered by the Bureau of				
Shipments Stocks at close of month	92,473	82,912	65,243	Navigation:				
Stocks at close of month	40,200	40,124	70,587 63,815	Number.	67 24,978	$37 \\ 21,392$	$62 \\ 6,203$	
New orders Lavatories	116, 514	129, 847	63, 815	Gross tonnage	24,910	21,092	0,203	
Shipments Stocks at close of month	104,876	83,469	91,039	Transportation.				
New orders	50,127 148,121	56,543 156,033	126, 228 95, 891	Freight carried by Class I railways:				
Sinks—	,			Net ton-miles, revenue and non- revenue (000,000 omitted)				
Shipments Stocks at close of month	$114,677 \\ 61,391$	99,085 59,806	90, 765	revenue (000,000 omitted)	32,616 672	37,668 696	28,451 674	
New orders	149,144	167,607	152,980 95,137	Net tons per train	28.2	29.0	28.	
Miscellaneous ware—				Revenue freight loaded and received				
Shipments Stocks at close of month	56,359 54,332	44, 766 49, 367	44,912 86,334	from connections, classified according to nature of products (cars, loaded,				
New orders	$54,332 \\ 67,642$	49,367 75,431		000 omitted >	10-			
Miscellaneous manufactures.				Grain and grain products Live stock. Coal	185 140	165 128	183 122	
				Coal	834	742	883 39	
Vood pulp (short tons):	313,777	970 457	214 501	Coke. Forest products.	69 337		39 236	
Consumption	253,477	235, 934	249.204	Ore	60	41	24	
Production Consumption Shipments	$253,477 \\ 54,207$	279, 457 235, 934 51, 389 108, 872	$314,591 \\ 249,204 \\ 47,839 \\ 196,257$	Ore. Merchandise, l. c. l	1,040	848	$1,064 \\ 1,135$	
aper (short tons):	111,823	108,872	196,257	Miscellaneous	1,459	1,142	1,135	
Newsprint-				Total	4,124	3,393	3,687	
Production	$129,294 \\ 132,292$	114,611	117,507	Revenue freight loaded, classified ac-				
Shipments	20,199	114,415 23,200	$117,142 \\ 28,180$	cording to geographical divisions:				
Book naper	06 087			Cording to geographical divisions: Eastern. Allegheny. Pocahontas. Southern.	$1,025 \\ 903$	812 731	928 792	
Production Stocks, end of month	$96,087\ 31,480$	89,265 38,043	77,889 38,367	Pocahontas	162	134	165	
Paper board—				Southern		546 429	576 447	
Production		198,031 62,901	$192,308 \\ 71,986$	Northwestern. Central western. Southwestern.	612	429 531	544	
Wrapping paper- Production				Southwestern	250	210	236	
Stocks, end of month	$\frac{86,776}{43,213}$	77, 813 48, 421	$70,141 \\ 64,931$	Total	4,124	3,393	3,688	
Fine paper		i i						
Production Stocks, end of month	$35,144 \\ 36,978$	32,377 39,772	29,346 35,123	Freight-car surplus (number):	13, 157	23,101	216,684	
upper (pounds, 000 omitted):				Total. Box	9 644	5,692 6,263	88,569 81,149	
Consumption by tire manufacturers neumatic tires (000 omitted):	41,594	34,235	26,771	Box Coal Freight-car shortage (number): Total. Box Coal Bad-order cars, total.	3,980	6,263	81,149	
Production.	3,866	3,218	2,646	Total	73,535	75,228	437	
Shipments, domestic Stocks	3,323	$3,218 \\ 2,589 \\ 5,244$	2.074	Box	34,068	29,138 38,432	246 90	
ner tubes (000 omitted);	5,671	5,244	5, 183	Bad-order cars, total	206, 312	215,552	334,628	
Production .	4,875	4,039	3,018	Vessels cleared in foreign trade (tons,				
Shipments, domestic. Stocks	$3,828 \\7,741$	3,002 6,772	2,091 6,991	000 omitted):				
olid tires (000 omitted):	.,			American	2,021	1,587 2,526	$2,181 \\ 2,684$	
Production	80 77	75 63	49 48	Foreign	2,800	2,526	2,684	
DIOURS	266	270	182	Total	4,821	4,113	4,864	
utomobiles.				Percentage of American to total Panama Canal traffic (tons, 000 omit-	41.9	38.6	44.	
Production (number)— Passenger cars	319,527	259,383	152,625	ed); ¹	l			
110060	34,063	21,411	19,369	Total cargo traffic	1,563	1,592	960	
Shipments— Railroads (carloads)		35,700	27,753	American vessels British vessels	959 376	775 407	459 287	
Driveways (machines)	$43,774 \\58,320$	42,700	16, 917		0.0	101		
Boat (machines)	1,900	´900	560					

BUILDING STATISTICS.

BUILDING PERMITS ISSUED IN 168 SELECTED CITIES.

[Collected by the 12 Federal Reserve Banks.]

NUMBER OF PERMITS ISSUED.

	District No. 1 (14 cities).	District No. 2 (22 cities).	District No. 3 (14 cities).	District No. 4 (12 cities).	District No. 5 (15 cities).	District No. 6 (15 cities).	District No. 7 (19 cities).	District No. 8 (5 cities).	District No. 9 (9 cities).	District No. 10 (14 cities).	District No. 11 (9 cities).	District No. 12 (20 cities).	Total (168 cities).
1922. March. August. September October November. December.	2,734 2,911	13,420 7,828 8,424 9,672 9,022 7,456	3,557 3,044 3,860 3,169 2,504 1,639	5,161 5,093 4,789 5,064 4,150 2,666	4, 101 4, 018 3, 997 3, 930 3, 433 2, 458	3,424 3,130 3,114 3,335 3,010 2,070	8,917 11,112 10,553 11,988 9,437 6,620	2,218 2,354 2,373 2,492 2,048 1,653	1,493 2,244 1,932 2,029 1,437 698	2,711 2,778 2,629 2,906 2,669 1,601	2,623 2,534 2,223 2,470 2,184 1,510	11, 196 11, 596 11, 291 12, 254 10, 490 7, 767	61, 158 58, 604 57, 919 62, 230 52, 685 37, 453
1923. January February March	905 838 1,983	6,243 6,880 13,745	1,486 1,573 3,308	2,946 2,901 6,411	2,787 2,585 4,232	2,975 2,516 3,251	6, 310 5, 729 10, 735	$1,985 \\ 1,742 \\ 2,645$	722 612 1,417	2,276 1,913 3,086	2, 554 2, 199 2, 589	10,313 9,666 13,358	41, 502 39, 154 66, 770

VALUE OF PERMITS ISSUED (000 OMITTED).

								(
1922.													
March		\$120,359		\$14,926	\$11,329	\$5,873	\$33,291	\$5,013	\$4,526	\$7,166	\$5,630	\$27,432	\$260,730
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		55,670	15,869	25,077	12,970	6,326	31,550	5,384	4,761	8,352	4,980	23,968	204,564
Qctober	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		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
	.,	1		.,	· · ·		. ,		,	-,	,	,	,
1923.							}	ļ					
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	4,003	88,207	9,877	14,165	13,085	7,811	40,490	6,528	2,455	7,028	6,121	28,830	228,601
March	10,986	167,218	31,845	23,264	14,156	7,498	59,463	8,641	5,574	10,952	11,427	40,203	391,226
	,000	,	1,010	,	1, 100	.,	1,	1 2,011		,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. September October November December		\$64, 299 65, 061 77, 700 58, 685	\$24, 948 20, 440 16, 929 18, 706	\$34, 635 35, 165 29, 337 28, 042	\$22,997 19,685 19,848 15,677		52,048 45,429		4,523		\$244, 262 222, 226 219, 351 191, 263
1923. January. February. March. April.	21, 806 13, 759 25, 079 31, 893	65, 233 58, 614 98, 412 96, 267	16,770 18,780 31,265 30,553	25, 691 38, 546 52, 793 48, 786	17, 633 20, 219 30, 147 39, 364	\$22,051 34,775 25,538 20,817	43, 137 46, 764 59, 868 75, 240	\$17, 864 21, 193 17, 961 25, 840	4, 524 12, 199 15, 259 17, 585	\$7, 845 12, 531 11, 277 11, 346	³ 242, 554 ³ 277, 380 ³ 367, 599 ³ 397, 192

VALUE OF CONTRACTS FOR RESIDENTIAL BUILDINGS (000 OMITTED),

1922. September October November December		\$34, 537 33, 238 51, 892 42, 981	\$8, 142 10, 072 7, 397 11, 526	\$12,737 13,730 11,405 17,809	7,416 7,998	· · · · · · · · · · · · · · · · · · ·	20,291 22,308		2,228 2,847		\$ 92, 986 100, 528 117, 515 111, 278
1923. January. February. March. April.	14, 469 4, 587 11, 044 15, 493	47,702 10,849 65,912 56,811	5,722 9,128 13,336 13,823	11, 803 13, 751 23, 338 20, 807	7, 815 7, 930 9, 146 11, 411	\$10, 223 10, 065 8, 993 8, 506	14,567 18,315 27,035 28,524	\$5,884 6,476 8,676 9,360	2, 072 6, 703 4, 493 5, 345	\$2, 120 3, 288 3, 295 3, 369	³ 122, 376 ³ 90, 462 ³ 175, 298 ³ 173, 452

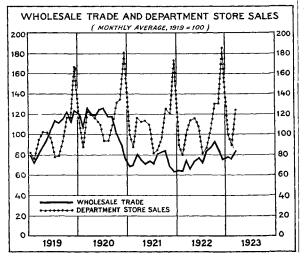
Montana not included.
 Colorado, Wyoming, and Arizona not included.
 Figures for Districts 6, 8, and 19, not available for previous months, included in total.

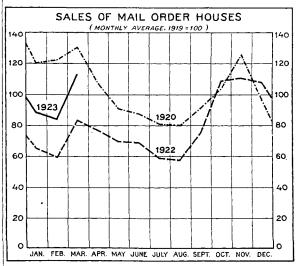
WHOLESALE AND RETAIL TRADE.

Sales of both wholesale and retail dealers were substantially larger in March than in the preceding months of 1923, and were also much larger than the sales in March, 1922. The chart below shows a comparison of the trends of wholesale trade and of departmentstore sales from January, 1919, to date. This chart indicates that department-store business has much larger seasonal fluctuations than the average wholesale business and that there has been a distinct divergence in the trend of wholesale trade and retail trade during the past three years. The higher level of retail trade is due primarily to the relatively small decrease in retail prices since 1920 as compared with the large decline in wholesale prices. In the past year this price factor has become slightly less important, as wholesale prices have been rising more rapidly than retail prices. A correction of the two series by price changes indicates that there has not been much change in the volume of wholesale business since 1919, while there has been a considerable increase in the volume of retail sales

Wholesale trade in March reached the largest monthly volume since November. The March sales were 10 per cent greater than February and 12 per cent larger than in March, 1922. The most important increases, as compared with February, were registered by the sales of shoes, hardware, jewelry, and drugs. There was a slight decline in the sales of diamonds.

A comparison with a year ago indicates that the value of wholesale business was larger in all lines and in almost all districts. Sales of





machine tools were over three times as large as in last March, while sales of jewelry, diamonds, and men's clothing were over 50 per cent greater. The larger distribution of clothing and jewelry reflects the increased buying power in 1923, which has resulted from full employment, rising wages, and expanding business profits. Hardware sales also showed very substantial gains in all reporting districts, which may be ascribed in part to the great building activity in all sections and in part to the demand for farm equipment.

Retail business showed even more pronounced gains in March than wholesale busi-Chain shoe stores more than doubled ness. their February sales, while sales of 5-and-10cent stores, department stores, and mail-order houses showed gains of from 30 to 40 per cent. Sales of shoe stores, mail-order houses, and 5-and-10-cent stores were all over one-third larger than a year ago. The large volume of sales this March may be ascribed to the early date of Easter, but this influence must have been partly counterbalanced by the severe storms and prolonged cold weather. Sales of mail-order houses reached a larger dollar value than at the fall peaks of the years 1921 and 1922. The chart below shows a comparison of the sales, by months, in 1923 with sales in 1922 and sales during the period of business activity in 1920. It will be noted that sales in each of the first three months of 1923 were much larger than in the corresponding months of 1922, but are still considerably smaller than in the first quarter of 1920.

Department-store stocks were increased about 8 per cent during March, but expansion is customary in the early spring, and stocks at the end of the month were only 6 per cent higher than a year ago. As the increase in sales during the past year has been much larger business is now being done on a lower relative volume of stocks than in 1922. Increases in stocks as compared with March 31, 1922, were recorded in 10 of the 12 districts and amounted to over 10 per cent in the Minneapolis, St. Louis, Philadelphia, and Chicago districts. Stocks at department stores in the Kansas City and Dallas districts were slightly smaller than a year ago, although they showed an increase as compared with February.

The following tables show the trend of wholesale and retail trade, by lines and by Federal reserve districts:

WHOLESALE TRADE IN THE UNITED STATES.

[Average monthly sales 1919=100.]

	Gro- ceries.	Meat.	Dry goods.	Shoes.	Hard- ware.	Drugs.	Total.
1922.							
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		51.3	88.2	70,4	81.9	113.7	74.3
April		48.3	74.6	65.1	84.6	93.6	65.8
May		58.2	79.0	60.5	92.7	96.6	72.6
June		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
August	86.4	55.9	112.7	66.0	89.5	102.9	83.6
September		60.5	116.1	77.6	95.1	104.6	88.1
October	98.7	67.8	108.3	77.2	98.9	111.1	92.4
November	95.8	54.1	94.4	67.4	93.1	102.9	84.0
December		56.8	72.8	57.3	83.1	99.0	75.0
1923.							
January	74.9	60.4	105.4	55.7	87.3	113.4	78,4
February		56.8	100.8	56.3	82.0	106.3	76.1
March		58.9	113.0	82.6	108.2	120.6	84.6

CHANGES IN CONDITION OF WHOLESALE TRADE, BY LINES AND DISTRICTS.

	ehar Mare sales	entage oge in h, 1923, as com- l with—		char Marcl sales	entage nge in n, 1923, ns com- with—		chan March sales a	entage nge in 1, 1923, 1s com- with.—
	Feb- ruary, 1923.	March, 4922.		Feb- ruary, 1923.	March, 1922.		Feb- ruary, 1923.	March, 1922.
Groceries: United States Philadelphia district Richmond district Cleveland district Atlanta district St. Louis district Kansas City district San Francisco district Dry goods: United States New York district Philadelphia district Richmond district Cheveland district Richmond district St. Louis district St. Louis district San Francisco district Richmond district Cheveland district St. Louis district San Francisco district San Francisco district Chicago district San Francisco district San Francisco district San Francisco district San Francisco district San Francisco district Shoes: United States New York district Philadelphia district Philadelphia district Philadelphia district	$\begin{array}{c} 19.8\\ 9.1\\ 13.6\\ .\\.\\.\\.\\.\\.\\.\\.\\.\\.\\.\\.\\.\\.\\.\\.\\.\\.\\$	$\begin{array}{c} 4.5 \\ 8.9 \\ 7.3 \\ 12.5 \\ 11.4 \\ 1.3 \\ 6.2 \\ -22.0 \\ 3.8 \\ 13.1 \\ -3.4 \\ 28.1 \\ 29.2 \\ 28.6 \\ 25.2 \\ 30.3 \\ 72.0 \\ 22.5 \\ 29.3 \\ -1.6 \\ 29.4 \\ 28.6 \\ 14.2 \\ 28.6 \\ 17.3 \\ 17.2 \\ 28.1 \\ 28.2 \\ 17.3 \\ 28.1 \\ 17.2 \\ 28.1 \\ 29.2 \\ 28.2 \\ 29.2 \\ $	Shoes - Continued. Richmond district Atlanta district St. Louis district San Francisco district New York district Philadelphia district Richmond district St. Louis district Philadelphia district Cleveland district Atlanta district St. Louis district St. Louis district San Francisco district Dallas district San Francisco district Dallas district San Francisco district Chicago district San Francisco district Cleveland district San Francisco district Cleveland district Cleveland district San Francisco district Cleveland district Atlanta district St. Louis district St. Louis district Kansas Clty district St. Louis district Kansas Clty district St. Louis district Kansas Clty district St. Louis district Kansas Clty district	$\begin{array}{c} 17.6\\ 22.1\\ 32.0\\ 42.6\\ 37.9\\ 26.3\\ 16.5\\ 33.5\\ 17.6\\ 48.5\\ 29.5\\ 13.4\\ 11.5\\ 8.6\\ 9.1\\ 12.0\\ 18.9\\ 19.9\\ 19.9\\ 11.0\\ \end{array}$	$\begin{array}{c} 23.3\\ 23.5\\ 16.4\\ 18.5\\ 32.0\\ 1.4\\ 32.1\\ 20.6\\ 32.0\\ 1.4\\ 32.1\\ 20.6\\ 32.7\\ 26.0\\ 38.3\\ 32.7\\ 24.3\\ 32.7\\ 20.6\\ 39.7\\ 39.6\\ 6.0\\ 1.2\\ 5.8\\ 11.5\\ 5.8\\ 11.5\\ 5.8\\ 10.3\\ 16.0\\ 15.1\\ 6.7\\ 7.3\\ \end{array}$	Furniture: Richmond district Atlanta district Dallas district San Francisco district Agricultural implements: Atlanta district Dallas district Dallas district San Francisco district Stationery: New York district Atlanta district San Francisco district Auto supplies: Chicago district Men's clothing: New York district Machine tools: New York district Machine tools: New York district Machine tools: New York district	$\begin{array}{c} 34.\ 1\\ 28.\ 1\\ 37.\ 5\\ 23.\ 0\\ 7.\ 4\\ 45.\ 4\\ 66.\ 3\\ 10.\ 0\end{array}$	3.0 4.8 87.9 46.0 46.4 27.7 34.9 187.8 27.9 187.8 27.9 187.8 27.9 183.3 26.4 22.7 59.0 33.1 52.4 13.4 22.4 13.4 254.1 56.3 73.0

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RETAIL TRADE BY REPORTING LINES.

[Average monthly sales, 1919=100.]

	Depart-	No.21			Chain	stores.		
	ment stores (306 stores).	Mail-order houses (4 houses).	Grocery (21 chains).	Five and Ten (4 chains).	Drug (8 chains).	Cigar (3 chains).	Shoe (5 chains).	Music (4 chains).
1922. January February March A pril May June July August September October November December	$79.7 \\101.3 \\112.9 \\115.4 \\108.0 \\80.1 \\87.1$	65.3 59.4 83.5 77.1 69.9 68.8 58.4 57.2 75.1 108.7 110.4 107.8	$\begin{array}{c} 137.5\\ 130.3\\ 149.2\\ 139.2\\ 137.9\\ 135.1\\ 135.1\\ 139.1\\ 141.0\\ 148.6\\ 162.4\\ 166.5\end{array}$	94.6 100.8 118.4 134.9 129.6 127.0 126.3 130.4 136.1 156.6 152.3 279.2	$\begin{array}{c} 117.\ 4\\ 114.\ 8\\ 123.\ 4\\ 120.\ 5\\ 123.\ 2\\ 123.\ 8\\ 126.\ 2\\ 128.\ 2\\ 128.\ 7\\ 133.\ 1\\ 122.\ 4\\ 161.\ 0 \end{array}$	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	71.875.080.678.981.383.099.1118.2118.2118.3120.7203.7
1923. January. February. March		88.7 83.9 112.7	165. 1 158. 8 188. 4	115. 9 117. 4 163. 4	$128.7 \\ 125.3 \\ 144.7$	115.6 109.7 134.5	85.5 70.8 145.5	95.0 87.8 96.0

DEPARTMENT STORE SALES BY FEDERAL RESERVE DISTRICTS.

[Average month, 1919=100.]

	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' (24 stores).	District No. 11— Dallas (21 stores).	District No. 12— San Francisco (31 stores).	Index for United States (306 stores).
1922. January. February. March. April. June. July. August. September. October. November. December. 1923. January.	$\begin{array}{c} 83.9\\ 109.5\\ 125.1\\ 122.8\\ 121.9\\ 81.7\\ 87.5\\ 114.2\\ 134.8\\ 134.9\\ 197.3\\ 106.3\end{array}$	98. 4 84. 8 109. 3 119. 0 117. 7 114. 5 77. 8 78. 2 106. 7 144. 8 141. 6 198. 5	$\begin{array}{c} 96.\ 6\\ 87.\ 8\\ 111.\ 8\\ 132.\ 1\\ 126.\ 4\\ 108.\ 7\\ 86.\ 8\\ 94.\ 9\\ 107.\ 2\\ 143.\ 8\\ 146.\ 8\\ 185.\ 8\\ 185.\ 8\\ 106.\ 1\\ 98.\ 0\end{array}$	$\begin{array}{c} 75.\ 6\\ 72.\ 0\\ 93.\ 9\\ 105.\ 8\\ 103.\ 3\\ 103.\ 0\\ 71.\ 0\\ 90.\ 8\\ 119.\ 1\\ 122.\ 3\\ 134.\ 7\\ 184.\ 7\\ 83.\ 9\\ 79.\ 6\end{array}$	$\begin{array}{c} 74.1\\ 73.3\\ 85.2\\ 98.3\\ 97.6\\ 86.3\\ 69.8\\ 73.9\\ 86.4\\ 113.8\\ 113.1\\ 161.8\\ 83.0\\ 78.2 \end{array}$	$\begin{array}{c} 85.\ 6\\ 77.\ 3\\ 94.\ 3\\ 111.\ 9\\ 116.\ 5\\ 110.\ 3\\ 83.\ 0\\ 92.\ 1\\ 114.\ 4\\ 122.\ 1\\ 130.\ 9\\ 184.\ 5\\ 98.\ 5\\ 92.\ 7\end{array}$	83. 1 70. 6 91. 1 106. 8 105. 6 101. 3 81. 2 93. 1 105. 4 119. 8 107. 0 164. 1 92. 1 77. 0	$\begin{array}{c} 75.2\\ 71.2\\ 90.8\\ 87.4\\ 96.5\\ 89.2\\ 64.8\\ 67.7\\ 101.0\\ 104.5\\ 104.9\\ 149.2\\ \end{array}$	99. 6 83. 8 111. 0 132. 5 111. 6 95. 9 113. 3 112. 5 137. 0 132. 2 203. 7 114. 6 101. 5	80. 1 87. 1 106. 2 129. 8 130. 0 185. 9

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	Index for United States (265 stores).
1922. January. February. March. May. June. July. August. September. October. November. December. December. 1923. January.	$\begin{array}{c} 103.6\\ 110.7\\ 112.2\\ 110.9\\ 106.2\\ 103.7\\ 105.0\\ 116.9\\ 125.1\\ 130.0\\ 110.5\\ \end{array}$	120.2 124.5 131.4 110.4	95.9 104.7 116.3 113.9 110.1 109.8 105.6 111.9 121.6 127.5 126.7 105.9	90. 8 102. 4 111. 7 110. 6 107. 0 103. 7 99. 8 105. 0 119. 5 130. 3 126. 0 103. 2 99. 6	101.7 110.6 117.3 116.4 111.7 104.9 103.2 109.3 118.5 121.3 123.1 101.2 105.2	106.9 117.7 127.0 124.6 122.8 115.7 113.6 125.0 128.9 134.8 136.8 115.2	88.5 95.6 103.3 98.7 102.5 99.2 97.8 102.0 107.7 112.6 115.5 97.2 100.0	98.8 107.3 115.5 113.8 110.1 100.4 99.6 111.0 117.7 119.6 118.9 94.1 96.0	106.2 111.7 120.9 122.2 114.4 107.0 108.1 113.0 120.0 124.2 107.6	$\begin{array}{c} 101.4\\ 108.7\\ 118.2\\ 117.5\\ 114.0\\ 0\\ 108.3\\ 105.5\\ 111.8\\ 120.4\\ 125.6\\ 128.3\\ 107.5\\ 105.2\end{array}$
February March	111.5	113.0	116.5 127.5	113.0 124.3	103.2 111.9 118.9	111.4 125.3 137.2	107.2 117.0	105.8 114.3	107.4 117.7 125.1	115.2 115.3

BANKING AND FINANCIAL STATISTICS.

DISCOUNT AND OPEN-MARKET OPERATIONS OF FEDERAL RESERVE BANKS.

VOLUME OF OPERATIONS DURING MARCH, 1923.

Bills dis- counted for		nure		Municipal	Total.			
member banks.	market.	Bonds and notes.	Certificates of indebtedness.	warrants purchased.	March, 1923.	March, 1922.		
$\begin{array}{c} 238, 143, 940\\ 138, 462, 039\\ 225, 345, 373\\ 30, 403, 422\\ 251, 529, 771\\ 83, 021, 378\\ 18, 011, 973 \end{array}$	\$33, 236, 612 75, 774, 818 12, 031, 768 33, 241, 861 1, 150, 894 22, 907, 075 22, 302, 677 9, 755, 917 75, 000 6, 435, 451 37, 228, 596	\$519, 200 40, 759, 500 225, 000 9, 546, 000 20, 700 3, 248, 900 435, 500 1, 600, 000	73, 440, 500 171, 000 555, 000 5, 360, 000 38, 430, 500	\$40, 683	\$381, 325, 171 2, 185, 950, 671 172, 258, 900 226, 496, 287 55, 963, 197 321, 808, 948 92, 897, 945 21, 562, 873 52, 673, 865 21, 976, 815 184, 900, 300	\$304, 763, 629 1, 074, 055, 174 263, 529, 229 159, 516, 811 167, 679, 536 55, 898, 867 204, 014, 331 50, 453, 299 25, 890, 225 45, 557, 798 28, 101, 050 236, 799, 165		
1,753,096,620 10,931,505,998	254, 140, 669 144, 351, 644 593, 359, 216	56, 647, 500 156, 696, 850 208, 471, 730	140, 897, 945 562, 114, 000 1, 913, 344, 975	40, 683	3, 971, 427, 393 13, 646, 722, 602	2,616,259,114		
	counted for member banks. 330, 903, 414 1, 995, 975, 853 238, 143, 940 138, 462, 039 225, 345, 373 30, 408, 422 251, 529, 771 88, 021, 378 18, 011, 973 48, 663, 365 12, 774, 364 146, 496, 704 3, 519, 700, 596 1, 753, 096, 620	counted for member banks. Bits bought in open market. \$330, 903, 414 \$33, 236, 612 1, 995, 975, 853 75, 774, 818 233, 143, 940 12, 031, 768 138, 462, 039 33, 241, 661 225, 345, 373 1, 150, 894 30, 403, 422 22, 907, 075 251, 529, 771 22, 302, 677 38, 021, 378 9, 755, 917 18, 011, 973	Bills dis- counted for member banks. Bills bought in open market. purc \$330,903,414 \$33,236,612 Bonds and notes. \$330,903,414 \$33,236,612 Bonds and notes. \$3225,345,975,853 75,774,818 40,759,500 238,143,940 12,031,768 225,000 235,129,771 222,302,677 9,546,000 230,403,422 22,070,075 292,700 251,529,771 22,302,677 9,546,000 38,021,378 9,755,917 20,700 18,011,973	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Bills discurnted for member banks. Bills bought in open market. purchased. Municipal warrants modes. 8330, 903, 414 \$33, 236, 612 Bonds and notes. Certificates of indebtedness. Municipal warrants purchased. \$330, 903, 414 \$33, 236, 612 \$519, 200 \$16, 665, 945 \$330, 903, 414 \$33, 236, 612 \$519, 200 \$16, 665, 945 \$330, 903, 414 \$33, 236, 612 \$519, 200 \$16, 665, 945 \$340, 603 37, 774, \$18 40, 759, 500 73, 440, 500 \$33, 442, 039 33, 241, \$61	Bills discounted for member banks. Bills bought in open market. purchased. Municipal warrants indebtedness. Municipal warrants purchased. \$330,903,414 \$33,236,612 \$519,200 \$16,665,945 %381,325,171 \$330,903,414 \$33,236,612 \$519,200 \$16,665,945 %381,325,171 \$235,143,940 12,031,768 225,000 73,440,500 %40,683 255,667 \$235,143,940 12,031,768 225,000 71,000 \$40,683 255,960 172,258,900 \$33,41,861		

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

	Customers' paper se-	Member banks notes		Commercial Agricul-		Time at a l	Bankers' acceptances.				
Federal reserve bank.	cured by Govern- ment obli- gations.	Secured by Government obligations.	Government Goured		Agricul- tural paper.	Live-stock paper.	Foreign	Domestic.	Dollar exchange.		
Boston. New York Philadelphia Cleveland Richmond Atlanta	318,219 317,735 282,641	\$183,009,500 1,814,271,257 167,253,400 92,973,450 199,822,414 11,305,700	\$39,500 1,945,000 404,400	178,386,790 70,245,347	360, 940 270, 986 194, 995	\$93,325 6,055 281,917 16,315 184,940					
St. Louis. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	$\begin{array}{r} 305, 195 \\ 6, 842 \\ 1, 230 \\ 61, 990 \\ 3, 457 \end{array}$	170, 964, 560 52, 831, 700 10, 359, 920 36, 958, 950 3, 771, 200 88, 327, 000	234,771 730,419 47,000 657,930 13,900,110	72, 333, 428 28, 315, 020 5, 234, 523 6, 326, 324 4, 258, 483 41, 006, 401	7,435,721 1,559,634 1,095,870 1,238,215			50,000			
Total: March, 1923 February, 1923 March, 1922 February, 1922	2,212,578 12,148,775	2,831,849,051 3,129,871,682 1,020,251,778 1,267,616,523	17,959,130 18,420,555 29,931,867 26,411,796	634, 258, 589 546, 850, 386 640, 980, 433 730, 839, 912		8,312,074 4,432,921 9,599,037 6,909,724	9,270 846,402				

	Trade acc	eptances.		Total reduced to maturity		м	Member banks.			
Federal reserve bank.	Tonsion	Foreign. Domestic.		Total all classes.		Amount	Per cent	Number in district	Accommodated.	
	Foreign.			Amount.	of total.	Mar. 31.	Number.	Per cent.		
Boston New York. Philadelphia Cleveland Richmond Atlanta. Chicago. St. Louis Minneapolis Kansas City Dallas San Francisco	\$409,200	285,998 55,988 788,766 604,183 99,302 206,096 240,479 10,000	\$330,903,414 1,995,975,853 238,143,940 138,462,039 225,345,373 30,403,422 251,529,771 83,021,378 18,011,973 48,663,365 12,743,364 146,466,704	\$260, 325, 281 1,006, 124, 756 245,510,301 171, 123, 462 196, 034, 298 114, 133, 865 733, 039, 081 207, 890, 081 207, 890, 082 133, 892, 023 83, 684, 889 290, 309, 260	7.4 28.6 7.0 4.9 5.6 3.2 20.8 5.9 2.2 3.8 2.2 3.8 8.2 4 8.2	$\begin{array}{r} 428\\814\\715\\882\\639\\542\\1,441\\620\\1,010\\1,154\\862\\815\end{array}$	223 375 313 240 243 213 502 191 209 254 253 266	52.1 46.1 43.8 27.2 38.0 39.3 34.8 30.8 20.7 22.0 29.4 32.6		
Total: March, 1923 February, 1923	409,200 173,012	2,677,176 3,028,306	3, 519, 700, 596 3, 720, 546, 586	3, 519, 700, 596	100.0	9,922 9,917	3,282 2,976	33. 1 30. 0		
March, 1922 February, 1922		4,348,249 3,853,961	1,753,096,620 2,080,373,333			9, 873 9, 858	× 4,701 4,847	47.6 49.1		

¹ Total discounts multiplied by ratio of average maturity of bills discounted by each bank to average maturity (8.86) for system.

VOLUME OF BILLS DISCOUNTED DURING MARCH, 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. Total: March, 1923. February. 1923.	\$31,147,809 	238, 143, 940 138, 462, 039 225, 345, 373 30, 403, 422 251, 529, 771 83, 021, 378 18, 011, 973	\$330, 903, 414 1, 995, 975, 853 238, 143, 940 138, 462, 039 225, 345, 373 30, 403, 422 251, 529, 771 83, 021, 378 18, 011, 973 48, 663, 365 12, 743, 364 146, 496, 704 3, 519, 700, 596 3, 720, 546, 586	Per cent. 4, 50 4, 50 6, 50	Days. 6. 97 9. 14 10. 95 7. 71 33. 28 22. 20 38. 19 24. 39 58. 21 17. 57 8. 86 6. 70

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

Federal reserve bank.		Bankers' ac	ceptances.		Tra	de accepta	nces.	Total bills purchased.	Total redu common n basis	naturity
	Foreign.	Domestic.	Dollar exchange.	Total.	Foreign.	Domestic.	Total.	purchaseur	Amount.	Per cent of total.
Boston New York. Philadelphia Cleveland Richmond. Atlanta. Chicago St. Louis Minneapolis. Kansas City Dallas San Francisco. Total: March, 1923 February, 1923.	57, 093, 705 8, 273, 938 28, 155, 033 127, 894 19, 240, 871 14, 142, 798 6, 801, 633 	$\begin{array}{c} 11, 561, 256\\ 2, 542, 830\\ 4, 100, 408\\ 1, 023, 000\\ 3, 137, 704\\ 6, 348, 879\\ 2, 138, 047\\ \hline 75, 000\\ 1, 300, 705\\ 8, 975, 823\\ \hline 49, 428, 151\\ 49, 578, 270\\ \end{array}$	\$1,488,440 5,152,880 1,215,000 882,000 528,500 1,811,000 816,237 206,067 670,517 12,770,641 6,080,641	$\begin{array}{c} 12,031,768\\ 33,137,441\\ 1,150,894\\ 22,907,075\\ 22,302,677\\ 9,755,917\\ \hline 75,000 \end{array}$		\$78,908 104,420	· · · · · · · · · · · · · · · · · · ·	75, 774, 818 12, 031, 768 33, 241, 861 1, 150, 894 22, 907, 075 22, 302, 677 9, 755, 917 75, 000 6, 435, 451 37, 228, 596	\$20, 388, 082 32, 762, 767 20, 225, 964 51, 530, 916 1, 235, 483 31, 571, 206 34, 024, 226 12, 869, 103 49, 973 8, 241, 322 41, 241, 627 254, 140, 669	8.0 12.9 7.9 20.3 .5 12.4 13.4 5.1 3.3 16.2 100.0
March, 1922 February, 1922.		36, 084, 364 36, 846, 851	8, 229, 500 5, 243, 963	143, 934, 704 138, 697, 399	416, 940 323, 099	 	416, 940 323, 099	144, 351, 644 139, 020, 498		

¹Total purchases multiplied by ratio of average maturity of bills purchased by each bank to average maturity (46.59) for system.

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

Federal reserve bank.	37 per cent.	4 per cent.	41 per cent.	41 per cent.	43 per cent.	4½ per cent.	4 § per cent.	Total.	Average rate (365-day basis).	Average maturity.
Boston. New York. Philadelphia. Cleveland Richmond. Atlanta. Chicago St. Louis.	\$6,008,324 2,894,955 89,741 4,899,293 3,330,851 864,653 984,953	\$17, 319, 803 70, 151, 796 9, 796, 554 18, 911, 884 15, 604, 568 14, 367, 778 8, 205, 623	\$9, 073, 383 490, 849 2, 137, 259 7, 845, 940 1, 130, 894 2, 202, 565 6, 810, 377 565, 341	\$631,718 195,240 8,214 1,384,993 20,000 129,042 163,740	77, 146 456 96, 129		\$85,759	\$33, 236, 612 75, 774, 818 12, 031, 768 33, 241, 861 1, 150, 894 22, 907, 075 22, 302, 677 9, 755, 917	$\begin{array}{c} Per \ cent. \\ 4.06 \\ 4.08 \\ 4.09 \\ 4.11 \\ 4.18 \\ 4.10 \\ 4.10 \\ 4.06 \end{array}$	Days. 28, 58 20, 14 78, 31 72, 22 50, 01 64, 20 71, 07 61, 45
Minneapolis. Kansas City Da las. San Francisco Total: March, 1923 February, 1923	1, 275, 091 7, 270, 041 27, 617, 902 30, 207, 039	4, 510, 119 15, 304, 705 174, 172, 830 128, 689, 708	107, 075 12, 854, 238 43, 217, 921 22, 322, 143	4, 543, 556		75,000 104,775 3,913,321 3,975,482	85,759 92,568	75,0006,435,45137,228,596254,140,669186,463,778	4.56 4.06 4.11 4.09 4.08 4.08 4	31.04 59.66 51.61 46.59 43.14

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

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HOLDINGS OF EARNING ASSETS, BY CLASSES.

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

	\mathbf{A}	verage daily	holdings of-		Earning		Annual rate of earnings on—					
Federal reserve bank.	All classes of earning assets.	Discounted bills.	Purchased bills.	United States securities.	All classes of earning assets.	Dis- counted bills.	Pur- chased bills.	United States securi- ties.	All classes of earning assets.	Dis- count- ed bills.	Pur- chased bills.	United States securi- ties.
Boston . New York. Philadelphia. Cleveland Richmond. Atlanta Atlanta St. Louis Minneapolis. Kansas City Dallas San Francisco.	\$87, 662, 269 262, 893, 412 114, 584, 839 109, 524, 398 43, 229, 154 43, 723, 928 181, 001, 802 62, 327, 006 35, 572, 757 65, 425, 596 51, 892, 271 116, 671, 435	$\begin{array}{c} 204, 519, 618\\ 57, 217, 988\\ 34, 554, 962\\ 46, 176, 046\\ 19, 160, 531\\ 86, 242, 423\\ 22, 835, 305\\ 17, 948, 831\\ 22, 143, 147\\ 18, 753, 367 \end{array}$	$\begin{array}{c} 31,444,379\\ 28,761,448\\ 41,989,391\\ 712,208\\ 13,853,200\\ 29,092,360\\ 11,197,440\\ 3,765,775\\ 956,070\\ 20,875,549 \end{array}$	$\begin{array}{c} 26,929,415\\ 28,588,342\\ 32,980,045\\ 1,340,900\\ 10,710,197\\ 65,667,019\\ 28,294,261\\ 13,858,151\\ 42,326,379\\ 12,263,355 \end{array}$	972, 645 421, 051 389, 267 181, 692 156, 300 640, 273 226, 019 131, 996 237, 275 183, 119	774,054 218,711 132,047 176,481 73,230 329,611 87,275 68,613 84,587 71,704	109, 534 99, 597 146, 924 2, 530 48, 535 100, 274 38, 480 12, 985 3, 326 71, 862	$\begin{array}{c} 89,057\\ 102,677\\ 110,296\\ 2,681\\ 34,535\\ 210,388\\ 100,264\\ 50,398\\ 149,362\\ 39,553\end{array}$	$\begin{array}{c} 4.36\\ 4.32\\ 4.18\\ 4.43\\ 4.21\\ 4.17\\ 4.27\\ 4.27\\ 4.37\\ 4.37\\ 4.27\\ 4.37\\ 4.15\end{array}$	$\begin{array}{c} 4.38\\ 4.44\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ 4.50\\ \end{array}$	$\begin{array}{c} 4.11\\ 4.07\\ 4.12\\ 4.18\\ 4.13\\ 4.06\\ 4.05\\ 4.06\\ 4.00\\ 4.05\end{array}$	3.75 3.89 4.22 3.94 2.35 3.80 3.77 4.17 4.18 4.15 3.80
Total: Mar., 1923 Feb., 1923			$232, 486, 120 \\ 186, 648, 316$				808, 809 585, 458	1,076,096 1,080,021				
Mar., 1922 Feb, 1922	1, 191, 013, 324 1, 215, 220, 146	649,302,001 772,415,900	92,966,969 87,400,347	457, 642, 354 355, 209, 265	$\begin{array}{c} 4,394,575\\ 4,165,669 \end{array}$	2,626,282 2,903,831	$320,829\\284,686$	1, 446, 971 976, 285				

NOTE.-The figures in the first, fifth, and ninth columns include average daily holdings of municipal warrants, earnings, and annual rate of earnings thereon, as follows: Philadelphia, \$17,061, \$66, and 4.56 per cent.

HOLDINGS OF DISCOUNTED BILLS, BY CLASSES.

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

		Cus- tomers'		r banks' al notes.				Ва	nkers' a	acceptai	nces.	Trade	accepta	nces.
Federal reserve bank.	Total.	paper secured by Gov- ern-	by Gov-	Other-	Com- mer- cial paper.	Agri- cul- tural paper.	Live- stock paper.	For	eign.	Do-	Dollar	For	eign.	Do-
		ment obliga- tions.	ern- ment obliga- tions.	wise secured.	n. e. s.	paper.		Im- ports.	Ex- ports.	mes- tic.	ex- change.		Ex- ports.	mes tic.
Boston. New York. Philadelphia Cleveland Richmond. Atlanta. Chicago. St. Louis Minneapolis. Kansas City.	$\begin{array}{c} 205,321\\ 71,784\\ 34,036\\ 55,071\\ 20,554\\ 101,521\\ 26,006\\ 20,329\\ 24,639 \end{array}$	1,056 266 375 383 87 315 38 387 315 38 112	$\begin{array}{c} 21,869\\ 154,492\\ 48,164\\ 19,695\\ 24,483\\ 2,448\\ 49,688\\ 11,808\\ 2,932\\ 8,168\\ \end{array}$	$ \begin{array}{c} 10\\39\\855\\251\\129\\356\\47\\47\end{array} $	$\begin{array}{c} 37,065\\ 49,927\\ 22,861\\ 12,187\\ 24,790\\ 11,962\\ 36,818\\ 10,928\\ 4,552\\ 5,396\end{array}$	$\begin{array}{c} 700\\ 392\\ 397\\ 404\\ 3,745\\ 5,276\\ 14,229\\ 2,882\\ 5,911\\ 3,849\\ \end{array}$	75 527 87 424 185 6,386 7,057			25				86 809 728 106 342 140 192 10
Dallas San Francisco	58,757	5 571	981 24, 832	444 6,518	5,470 20,178	5, 898 3, 638	7,143 2,638	14	58	63				20 247
Total: Mar. 31, 1923 Feb. 28, 1923	698, 914 595, 760	$3,208 \\ 3,242$	369, 560 352, 797	8,649 8,790	$242,134 \\ 157,244$	$47,321 \\ 46,386$	$24,522 \\ 22,712$	122 453	140 321	134 703	90	53 4	····	3,071 3,018
Mar. 31, 1922 Feb. 28, 1922		12,555 18,459	248,226 266,155	$13,190 \\ 14,074$	258,848 256,335	104,817 111,822	$36,466 \\ 39,147$			177 234				$[\begin{array}{c} 6,188\\ 6.351 \end{array}]$

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

[End of March figures.	In thousands of dollars.]
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	A	ll classes			Banker	rs' accepta	nces.	-		Trade acc	eptances.	
Federal reserve bank.		Pur- chased	Dis- counted		For	eign.		Dollar		Fore	ign.	Deres
	Total.	in	for member banks.	Total.	Imports.	Exports.	Domes- tic.	ex- change.	Total.	Imports.	Exports.	Dome s - tic.
Boston . New York. Philadelphia Cleveland Richmond. Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	52,622 1,704 25,630 33,533 13,035	$\begin{array}{c} 17, 394\\ 28, 799\\ 29, 026\\ 51, 813\\ 976\\ 25, 524\\ 33, 191\\ 12, 870\\ 2, 583\\ 595\\ 20, 663\\ 39, 924 \end{array}$	$170 \\ 510 \\ 86 \\ 809 \\ 728 \\ 106 \\ 342 \\ 165 \\ 192 \\ 10 \\ 20 \\ 382$	$\begin{array}{c} 17, 394\\ 27, 075\\ 29, 026\\ 51, 708\\ 976\\ 25, 524\\ 33, 191\\ 12, 895\\ 2, 583\\ 595\\ 20, 663\\ 40, 008 \end{array}$	9,011 13,342 15,625 32,125 12,080 13,241 5,322 1,297 9,897 21,955	$\begin{array}{r} 3,438\\6,044\\6,130\\11,207\\128\\8,289\\10,283\\3,806\\580\\\hline 7,844\\10,525\end{array}$	$\begin{array}{r} 4,575\\ 6,213\\ 5,931\\ 7,497\\ 848\\ 4,617\\ 7,316\\ 2,726\\ 696\\ 595\\ 1,132\\ 6,567\end{array}$	370 1,476 1,340 879 538 2,351 1,041 10 1,790 961	728	1,934		106 342 140 192 10 20
Total: Mar. 31, 1923 Feb. 28, 1923	266, 878 212, 267	 	 	261, 638 207, 873	133, 895 97, 866	68, 274 60, 175	48,713 42,825	10,756 7,007	5, 240 4, 394	1,985		3, 255 3, 018
Mar. 31, 1922 Feb. 28, 1922 Purchased in open market:	$111,635\\100,043$			105, 287 93, 590	77, 67,	015 136	22, 841 22, 612	5, 431 3, 842	6, 348 6, 453	16	30)9	6, 18 8 6, 354
Purchased in open market: Mar. 31, 1923 Feb. 28, 1923		263,358 207,678		$261,242 \\ 206,306$	133, 773 97, 413		$\substack{48,579\\42,122}$	$10,756 \\ 6,917$	2, 116 1, 372	1,932 1,372		••••
Mar. 31, 1922 Feb. 28, 1922 Discounted for member banks:		105, 270 93, 458			77, 67,	015 136	$22,664 \\ 22,378$	$5,431 \\ 3,842$	$\begin{array}{c} 160 \\ 102 \end{array}$	16	50 19	3
Mar. 31, 1923 Feb. 28, 1923				396 1, 567	$122 \\ 453$	$ \begin{array}{r} 140 \\ 321 \end{array} $	134 703		$3,124 \\ 3,022$	53 4		$3,071 \\ 3,018$
Mar. 31, 1922 Feb. 28, 1922		•••••	6, 365 6, 585				177 234		$6,188 \\ 6,351$			6, 188 6, 351

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

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

		Membe	r banks.	Nonmem- ber banks	Private	Branches and
Federal reserve bank.	Total.	National.	Non- national.	and bank- ing corpo- rations.	banks.	agencies of foreign banks.
Boston	$17,394 \\ 27,075 \\ 29,026 \\ 51,708 \\ 976 \\ 25,524 \\ 33,191 \\ 12,895 \\ 2,583 \\ 595 \\ 595 \\ \\ 595 \\ 595 \\ \\ 505 \\ \\ 505$	$10, 621 \\ 9, 525 \\ 10, 366 \\ 15, 479 \\ 20 \\ 8, 668 \\ 15, 500 \\ 5, 270 \\ 1, 350 \\ 200 \\ 200 \\ 10, 100 \\ 100$	4, 344 8, 420 9, 417 16, 863 7, 696 15, 130 4, 840 757 395	$\begin{array}{r} 769 \\ 4,470 \\ 3,410 \\ 5,139 \\ 325 \\ 4,701 \\ 2,329 \\ 1,959 \\ 310 \end{array}$	1,5333,0894,1789,8516312,44617723965	$127 \\ 1, 571 \\ 1, 655 \\ 4, 376 \\ 2, 013 \\ 55 \\ 587 \\ 101 \\$
Kalisas City Dallas San Francisco	20, 663 40, 008	9,533 13,113	5, 210 10, 868	2, 987 5, 519	2, 183 7, 243	750 3, 265
Total: Mar. 31, 1923 Feb. 28, 1923	261,638 207,873	99, 645 83, 357	83,940 64,616	31, 918 25, 493	31,635 23,408	$14,500 \\ 10,999$
Mar. 31, 1922. Feb. 28, 1922. Purchased in open market:	$105,287 \\ 93,590$	$42,148 \\ 41,932$	33, 931 28, 217	$12,671 \\ 8,470$	9,781 7,371	6,756 7,600
Mar. 31, 1923. Feb. 28, 1923.	261,242 206,306	99, 459 82, 586	83,907 64,107	31,883 25,438	$31,549 \\ 23,307$	14, 444 10, 868
Mar. 31, 1922. Feb. 28, 1922. Discounted for member banks:	$105, 110 \\ 93, 356$	$42,094 \\ 41,826$	33, 808 28, 089	12,671 8,470	9,781 7,371	6,756 7,600
Mar. 31, 1923. Feb. 28, 1923.	396 1, 567	186 771	33 509	35 55	86 101	56 131
Mar. 31, 1922 Feb. 28, 1922	177 234	54 106	123 128			

CONDITION OF FEDERAL RESERVE BANKS.

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

[Daily averages. Amounts in thousands of dollars.]

Federal reserve bank.	Total cash	reserves.	Total de	eposits.	Federal res in circu		Reserve pe	rcentages.
	April.	March.	April.	March.	April.	March.	April.	March.
Boston	$\begin{array}{c} 264, 583\\ 1, 083, 524\\ 230, 983\\ 296, 933\\ 91, 139\\ 137, 361\\ 529, 836\\ 104, 228\\ 78, 918\\ 92, 295\\ 37, 997\\ 228, 833\\ \end{array}$	$\begin{array}{c} 250, 914\\ 1, 078, 621\\ 226, 353\\ 306, 187\\ 107, 058\\ 142, 876\\ 514, 481\\ 109, 981\\ 79, 886\\ 94, 985\\ 40, 950\\ 238, 333\\ \end{array}$	$\begin{array}{c} 128, 791\\ 718, 011\\ 117, 751\\ 163, 586\\ 62, 473\\ 59, 814\\ 280, 697\\ 75, 009\\ 51, 888\\ 86, 330\\ 53, 054\\ 147, 401 \end{array}$	$\begin{array}{c} 128, 373\\ 723, 709\\ 116, 774\\ 162, 432\\ 60, 745\\ 286, 055\\ 75, 863\\ 52, 210\\ 88, 063\\ 55, 599\\ 145, 975 \end{array}$	203, 548 568, 780 200, 890 230, 343 82, 598 128, 053 396, 295 80, 777 56, 376 62, 085 28, 818 197, 815	202, 812 572, 488 202, 805 231, 382 85, 761 124, 283 394, 196 86, 367 56, 220 64, 206 64, 206 30, 291 202, 384	79.6 84.2 72.5 75.4 62.8 73.1 78.3 66.9 72.9 62.2 46.4 66.3	75. 8 83. 2 70. 8 77. 7 70. 7 77. 2 75. 7 67. 8 73. 7 62. 4 47. 7 68. 4
Total: 1923 1922. 1921 1921 1920 1919	3, 176, 630 3, 114, 928 2, 485, 079 2, 084, 077 2, 224, 948	3, 190, 625 3, 095, 762 2, 403, 470 2, 058, 293 2, 202, 368	1, 944, 805 1, 822, 788 1, 749, 568 1, 998, 732 1, 878, 879	1,960,540 1,794,895 1,808,529 2,032,787 1,951,752	2, 236, 378 2, 190, 447 2, 870, 645 3, 071, 754 2, 547, 535	2, 253, 195 2, 195, 131 2, 979, 486 3, 040, 440 2, 503, 350	76. 0 77. 6 53. 8 1 43. 0 1 52. 0	75.7 77.6 50.2 142.7 151.6

¹ Circulated on basis of net deposits and Federal reserve notes in circulation.

RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON WEDNESDAYS, MARCH 28 TO APRIL 18, 1923.

RESOURCES.

[In thousands of dollars.]

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	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 cer- tificates: Mar. 28 Apr. 4 Apr. 11	320, 401 325, 484 324, 630	17,607 17,645 17,725	156, 594 160, 860 159, 620	22, 509 22, 941 23, 243	12, 541 12, 983 12, 497	7, 236 7, 389 7, 619	5, 812 5, 856 5, 935	53, 403 53, 070 53, 193	3, 117 3, 124 3, 173	7, 823 7, 847 7, 908	3, 033 3, 028 3, 048	10, 981 10, 760 10, 509	19, 745 19, 981 20, 160
Apr. 18 Gold settlement fund—F.B.Board:	326, 375 653, 708	17, 574	160, 499 265, 428	23, 477	12, 944 79, 322	7,673	5, 960 27, 529	53, 189	3, 197 10, 026	7, 921	3, 065 32, 354	10, 562 11, 339	20, 100 20, 314 32, 738
Mar. 28. Apr. 4. Apr. 11. Apr. 18. Gold with F. R.	677, 216 657, 410 659, 887	40, 928 57, 099 55, 359 56, 090	203, 423 262, 895 254, 542 276, 571	32, 023 40, 076 33, 612 34, 006	79, 322 72, 289 66, 024 57, 079	16,507 17,570 19,093	24, 855 19, 847 20, 219	76, 924 83,792 90, 428 89, 942	10, 020 19, 496 12, 669 9, 679	20, 013 22, 241 20, 907 21, 242	32,354 32,350 35,328 31,573	9,749 10,976 9,341	32, 738 35, 867 40, 148 35, 052
Agents:, Mar. 28 Apr. 4. Apr. 11 Apr. 18 Gold redemption fund:	2, 034, 099 2, 013, 538 2, 041, 509 2, 036, 490	173, 441 171, 367 168, 841 166, 385	639, 067 638, 904 638, 718 638, 535	152, 344 151, 134 158, 220 165, 193	206, 271 205, 327 205, 787 206, 265	57, 148 55, 569 54, 034 52, 294	101, 942 101, 397 100, 873 99, 501	356, 012 352, 089 371, 512 365, 588	64, 767 62, 451 68, 970 65, 610	46, 629 46, 159 48, 576 47, 959	52, 919 52, 308 51, 509 50, 710	12, 284 12 703 13, 048 12, 668	171, 275 164, 130 161, 421 165, 782
Mar. 28	55, 586	8, 355 9, 760 11, 533 13, 280	5, 723 9, 285 7, 493 5, 836	7, 138 8, 101 8, 812 9, 683	1, 796 1, 156 3, 157 1, 091	6, 358 6, 791 7, 260 2, 939	1, 568 1, 460 1, 249 1, 958	10, 927 3, 768 8, 206 13, 090	3, 440 2, 715 2, 649 2, 448	1, 791 1, 891 2, 098 2, 378	1, 772 1, 867 2, 153 2, 378	1, 442 1, 269 1, 232 1, 019	5, 276 5, 194 6, 368 3, 770
Apr. 4 Apr. 11 Apr. 18 Total gold reserves: Mar. 28 Apr. 4 Apr. 11 Apr. 18 Reserves other than	3,063,794 3,069,495 3,085,759 3,082,622	253,458	1,066,812 1,071,944 1,060,373 1,081,441	214, 014 222, 252 223, 887 232, 359	299,930 291,755 287,465 277,379	90, 221 86, 256 86, 483 81, 999	136,851 133,568 127,904 127,638	497,266 492,719 523,339 521,809	81, 350 87, 786 87, 461 80, 934	76,861 78,138 79,489 79,500	90,078 89,553 92,038 87,726	36, 046 34, 481 35, 765 33, 590	229,034 225,172 228,097 224,918
Apr. 4. Apr. 4. Apr. 11. Apr. 18. Total reserves:	112 494	10, 281 8, 954 7, 856 7, 639	14, 748 14, 032 14, 022 13, 447	6, 014 5, 389 4, 263 3, 418	7, 256 6, 811 5, 972 6, 338	11, 364 10, 228 9, 820 8, 850	8, 768 8, 424 8, 317 8, 673	18, 149 16, 595 15, 249 14, 705	21, 467 19, 319 19, 165 18, 722	986 588 923 1,103	4,066 4,186 4,165 3,638	4, 610 4, 282 4, 451 4, 427	4, 785 4, 714 4, 477 4, 960
Total reserves: Mar. 28. Apr. 4. Apr. 11. Apr. 18. Nonreserve cash: Nonreserve cash:	3, 176, 288 3, 173, 017 3, 184, 439 3, 178, 542	$\begin{array}{c} 255,612\\ 264,825\\ 261,314\\ 260,968\end{array}$	1,081,560 1,085,976 1,074,395 1,094,888	220,028 227,641 228,150 235,777	307, 186 298, 566 293, 437 283, 717	101, 585 96, 484 96, 303 90, 849	$145,619 \\ 141,992 \\ 136,221 \\ 136,311$	515, 415 509, 314 538, 588 536, 514	$102,817 \\ 107,105 \\ 106,626 \\ 99,656$	77,847 78,726 80,412 80,603	94, 144 93, 739 96, 203 91, 364	40,656 38,763 40,216 38,017	233, 819 229, 886 232, 574 229, 878
Mar. 28 Apr. 4 Apr. 11 Apr. 18	66,663 66,258	$\begin{array}{c c} 10,587\\ 12,163\\ 12,471\\ 11,029\end{array}$	8,406 9,388 11,034 10,306	2,438 3,285 3,457 3,380	3,028 4,209 2,605 5,336	3,047 2,858 3,114 2,715	8,301 6,843 7,002 7,359	6,178 5,891 6,098 6,910	4, 953 5, 319 4, 938 4, 986	1,809 1,833 1,698 1,498	3, 829 3, 329 3, 416 3, 285	4,352 3,794 3,999 3,988	8,887 7,751 6,426 6,433

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RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON WEDNESDAYS, MARCH 28 TO APRIL 18, 1923-Continued.

RESOURCES-Continued.

	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. Govern ment						•							
obligations- Mar. 28 Apr. 4 Apr. 11 Apr. 18	388, 238 380, 785 327, 412 334, 611	24, 356 19, 670 16, 821 15, 825	176,967 165,668 137,336 131,015	46, 424 41, 828 40, 780 35, 432	22, 095 24, 613 28, 838 22, 733	20,906 21,053 22,340 24,020	2,856 2,665 2,238 4,012	50,602 57,884 40,124 43,128	$11,786 \\ 10,676 \\ 10,045 \\ 14,550$	2,647 3,572 3,097 4,633	6, 816 12, 514 7, 412 11, 193	$1,002 \\ 741 \\ 768 \\ 2,650$	21,781 22,901 17,613 25,420
Other bills dis- counted— Mar.28	311 781	32, 404 27, 684 29, 975	51,934 44,935	10 131	17.646	29,460 31,010	15,779 18,000	46,384 54,318	14 645	17 111	16.002	18,284 18,792	33 001
Apr. 4 Apr. 11 Bills bought in open market:	314, 445 295, 238 308, 851	29, 975 34, 505	44, 839 38, 561	18,682 14,327 14,515	17, 118 20, 035 24, 907	30, 808 32, 907	17,067 19,840	38, 559 40, 583	17,352 13,299 15,294	16, 894 16, 007 15, 982	15,643 14,917 17,840	19, 180 20, 588	34,017 36,225 33,329
Mar. 28. Apr. 4. Apr. 11. Apr. 18. U. S. bonds and	254, 251 259, 879 274, 389 277, 447	$\begin{array}{c} 17,482 \\ 17,065 \\ 17,428 \\ 19,595 \end{array}$	34, 309 27, 462 46, 840 50, 911	28, 946 28, 169 26, 269 24, 915	$46,597 \\ 51,506 \\ 51,549 \\ 51,251 \\$	956 1,026 1,716 1,778	$21,199 \\ 26,117 \\ 27,678 \\ 28,581$	31, 112 32, 696 33, 452 33, 853	$\begin{array}{c} 12,448\\ 12,455\\ 12,057\\ 11,966 \end{array}$	2,797 2,275 1,997 1,669	1,077 225 75 75 75	20,507 20,130 17,338 15,586	36,821 40,753 37,990 37,267
notes: Mar. 28 Apr. 4 Apr. 11 Apr. 18	172,208 164,586 162,826 158,910	5,606 5,374 5,420 5,393	22,026 17,446 15,506 13,431	24, 438 24, 438 24, 438 24, 438 24, 438	12,355 12,355 12,348 12,348 12,348	1,341 1,341 1,341 1,341 1,341	$511 \\ 541 \\ 508 \\ 524$	8,954 7,717 7,712 6,806	18,085 16,432 16,402 15,238	14, 565 14, 615 14, 824 15, 064	$33, 331 \\ 33, 331 \\ 33, 331 \\ 33, 331 \\ 33, 331 \\ 33, 331 \\ 33, 331 \\ 33, 331 \\ 33, 331 \\ 33, 331 \\ 33, 331 \\ 33, 331 \\ 331 $	3,379 3,379 3,379 3,379 3,379	27,617 27,617 27,617 27,617 27,617
indebtedness:	77, 201 74, 563 75, 328	4, 800 4, 763 4, 753	2,713 1,380 1,525	979 979 979	8, 945 8, 991		2,001 2,001	36, 100 35, 791 35, 903	8, 942 7, 438 7, 437	510 520 511	4, 086 4, 575 4, 575 4, 535	8, 125 8, 125 8, 625	
Apr. 4 Apr. 11 Apr. 18 Municipal warrants: Mar. 28 Apr. 4	79, 097 41 41	4, 989	5,610	979 41 41		 		35, 887	6,942	511		8,625	
Apr. 4 Apr. 11 Apr. 18 Total earning assets: Mar 28	41 41			41 41	• • • • • • • • • •			• • • • • • • • • • •	• • • • • • • • • • •	•••••		••••	•••••
Total earning assets: Mar. 28 Apr. 4 Apr. 11. Apr. 18 Bank premises: Mar. 28	1, 194, 299 1, 135, 234 1, 158, 957	84, 648 74, 556 74, 397 80, 307	287, 949 256, 891 246, 046 239, 528	119, 959 114, 137 106, 834 100, 320	$107,638 \\ 111,583 \\ 121,789 \\ 120,257$	52, 663 54, 430 56, 205 60, 046	42, 346 49, 324 49, 492 54, 958	173, 152 188, 406 155, 750 160, 257	65, 906 64, 353 59, 240 63, 990	37, 630 37, 876 36, 436 37, 859	61,312 66,288 60,310 66,974	51, 297 51, 167 49, 290 50, 828	119, 220 125, 288 119, 445 123, 633
Apr. 4 Apr. 11 Apr. 18	48, 847 48, 938 49, 208 49, 692	4, 434 4, 434 4, 434 4, 434 4, 434	11,368 11,370 11,370 11,690	684 684 704 712	7, 887 7, 900 8, 015 8, 027	2,617 2,617 2,617 2,617 2,617	2,305 2,330 2,340 2,421	8, 715 8, 715 8, 715 8, 715 8, 715	934 940 940 940	1,072 1,072 1,149 1,152	4, 831 4, 831 4, 868 4, 867	1,937 1,937 1,937 1,937 1,937	2,063 2,108 2,119 2,180
5 per cent redemp- tion fund against F. R. bank notes: Mar. 28 Apr. 4 Apr. 11. Apr. 18 Uncollected items:	191 191 191 191 191	 						65 65 65 65			$100 \\ 100 $	26 26 26 26	
Uncollected items: Mar. 28. Apr. 4. Apr. 11. Apr. 18. All other resources:	559, 481 621, 458 638, 391 723, 336	49,670 55,617 55,397 63,069	119, 886 134, 664 137, 300 170, 603	49, 387 56, 662 53, 684 63, 819	56, 610 66, 921 68, 188 78, 746	54, 231 51, 242 53, 561 59, 284	21, 272 22, 726 25, 868 28, 895	72,705 87,829 80,396 91,945	33, 288 36, 910 41, 700 43, 4 84	13, 290 14, 699 14, 765 15, 640	35,088 37,594 39,727 40,946	19, 204 21, 038 24, 601 24, 556	34, 850 35, 556 43, 204 42, 349
Mar. 28 Apr. 4 Apr. 11 Apr. 18		139 129 139 155	1,437 1,342 1,465 1,296	362 384 399 419	492 465 564 530	480 558 402 402	390 412 403 376	743 758 737 773	371 309 330 323	1,812 1,798 1,812 1,771	791 730 772 1,188	2,075 2,056 2,080 2,073	4,496 4,493 4,524 4,565
Total resources: Mar. 28 Apr. 4 Apr. 11 Apr. 18	5.067.930	411,724 408,152	1, 510, 606 1, 499, 631 1, 481, 610 1, 528, 311	392, 858 402, 793 393, 228 404, 427	482, 841 489, 644 494, 598 496, 613	214, 623 208, 189 212, 202 215, 913	220, 233 223, 627 221, 326 230, 320	776, 973 800, 978 790, 349 805, 179	208, 269 214, 936 213, 774 213, 379	133, 460 136, 004 136, 272 138, 523	200,095 206,611 205,396 208,724	119, 547 118, 781 122, 149 121, 425	403, 335 405, 082 408, 292 409, 038

				[]	n thousan	ds of doll	ars.]						
	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas	San Fran- cisco.
Capital paid in: Mar. 28 Apr. 4. Apr. 11. Apr. 18. Surplus:	108, 623 108, 647 108, 683 108, 649	8,046 8,053 8,053 8,053	28, 901 28, 915 28, 940 28, 942	9,481 9,481 9,482 9,483	11,974 11,974 11,993 11,995	5,682 5,682 5,682 5,677	4, 429 4, 427 4, 427 4, 422	15,032 15,032 15,007 15,007	4, 915 4, 915 4, 925 4, 925	3, 583 3, 583 3, 585 3, 574	4,637 4,637 4,638 4,603	4, 182 4, 183 4, 183 4, 191	7,761 7,765 7,768 7,777
Mar. 28. Apr. 4. Apr. 11. Apr. 18. Deposits:	218, 369 218, 369 218, 369 218, 369	16,312 16,312 16,312 16,312 16,312	59,800 59,800 59,800 59,800 59,800	18,749 18,749 18,749 18,749 18,749	23, 495 23, 495 23, 495 23, 495 23, 495	11,288 11,288 11,288 11,288 11,288	8,942 8,942 8,942 8,942 8,942	30, 398 30, 398 30, 398 30, 398 30, 398	9,665 9,665 9,665 9,665	7,473 7,473 7,473 7,473 7,473	9,488 9,488 9,488 9,488 9,488	7,496 7,496 7,496 7,496 7,496	15,263 15,263 15,263 15,263
Government Mar. 28 Apr. 4 Apr. 11 Apr. 18 Member bank reserve ac-	74,423	7,713 6,678 5,418 2,625	38,341 33,686 15,258 11,277	3, 826 3, 607 3, 001 1, 288	4,837 5,708 3,178 2,473	5,075 1,112 1,505 352	6,582 5,162 3,714 5,620	4,357 5,448 2,316 3,771	1, 997 3, 275 2, 401 2, 805	2,543 2,013 1,960 3,715	1, 625 2, 205 2, 580 2, 593	4, 444 2, 634 1, 761 2, 346	4,092 2,895 2,126 6,071
count Mar. 28 Apr. 4. Apr. 11 Apr. 18	1,871,373 1,894,035 1,876,414 1,924,525	120, 433 123, 450 122, 921 127, 962	707,865 689,544 691,416 722,586	110, 475 118, 746 113, 066 118, 525	156,767 164,026 161,594 161,780	59,088 60,262 61,328 61,642	54,896 55,948 54,508 56,699	269,434 280,477 277,572 281,988	72,450 75,426 71,539 70,643	49,252 50,056 50,390 50,642	80, 295 84, 920 79, 744 82, 504	51, 192 50, 455 52, 162 50, 373	139, 226 140, 725 140, 174 139, 181
Mar. 28 Apr. 4 Apr. 11 Apr. 18	19,465 20,148 20,499 21,540	503 346 433 477	9,966 10,607 11,034 11,452	693 530 428 344	1,082 1,152 1,193 1,248	142 141 179 158	130 158 259 523	993 1,172 1,203 1,682	745 552 565 572	580 776 709 565	755 689 548 561	249 246 242 214	3,627 3,779 3,706 3,744
Mar. 28 Apr. 4 Apr. 11 Apr. 18 F. R. notes in actual	1,976,270 1,988,606 1,942,131 1,991,001	128,649 130,474 128,772 131,064	756,172 733,837 717,708 745,315	114,994 122,883 116,495 120,157	162,686 170,886 165,965 165,501	64,305 61,515 63,012 62,152	61,608 61,268 58,481 62,842	274,784 287,097 281,091 287,441	75, 192 79, 253 74, 505 74, 020	52, 375 52, 845 53, 059 54, 922	82,675 87,814 82,872 85,658	55,885 53,335 54,165 52,933	146,945 147,399 146,006 148,996
circulation: Mar. 28 Apr. 4 Apr. 11 F. R. bank notes in circulation—net li-	2, 232, 482 2, 240, 951 2, 231, 041 2, 220, 251	203, 836 204, 987 202, 916 203, 780	565, 691 574, 400 565, 181 561, 366	202, 811 199, 270 198, 690 197, 788	230, 500 225, 773 233, 270 228, 359	83, 528 83, 662 82, 909 82, 195	$123,757 \\ 126,657 \\ 126,035 \\ 126,951$	393, 330 395, 330 395, 284 395, 506	83, 690 82, 465 80, 994 80, 512	56, 032 57, 069 56, 584 56, 386	62, 631 62, 719 62, 548 61, 889	28, 954 29, 449 29, 136 28, 723	197, 722 199, 170 197, 494 196, 796
ability: Mar. 28 Apr. 4 Apr. 11 Apr. 18 Deferred availability	2, 435 2, 488 2, 472 2, 443			•••••				490 535 552 554			1, 488 1, 507 1, 484 1, 458	457 446 436 431	
Items: Mar. 28 Apr. 4 Apr. 11 Apr. 18 All other liabilities:	515, 298 544, 367 569, 272 635, 966	47,637 51,258 51,430 60,004	96, 818 99, 596 106, 257 129, 537	45, 908 51, 451 48, 797 57, 247	52, 953 56, 264 58, 555 65, 928	49, 255 45, 436 48, 704 53, 940	20, 754 21, 547 22, 627 26, 325	61, 306 70, 872 66, 467 74, 751	33, 905 37, 763 42, 784 43, 409	13, 099 14, 108 14, 640 15, 238	38, 612 39, 868 43, 780 44, 989	20, 791 22, 101 24, 938 25, 855	34, 260 34, 103 40, 293 38, 743
Mar. 28 Apr. 4 Apr. 11 Apr. 18 Tatal Vickilitian	14, 453 14, 572 15, 380 15, 135	610 640 669 749	3, 224 3, 083 3, 724 3, 351	915 959 1,015 1,003	1,233 1,252 1,320 1,335	565 606 607 661	743 786 814 838	$1,633 \\ 1,714 \\ 1,550 \\ 1,522$	902 875 901 848	898 926 931 930	564 578 586 639	1, 782 1, 771 1, 795 1, 796	1, 384 1, 382 1, 468 1, 463
Mar. 28 Apr. 4 Apr. 11 Apr. 18	5,067,930 5,118,000 5,087,348 5,191,814	408,152	1, 510, 606 1, 499, 631 1, 481, 610 1, 528, 311	392, 858 402, 793 393, 228 404, 427	482, 841 489, 644 494, 598 496, 613	214, 623 208, 189 212, 202 215, 913	220, 233 223, 627 221, 326 230, 320	776, 973 800, 978 790, 349 805, 179	208, 269 214, 936 213, 774 213, 379	133, 460 136, 004 136, 272 138, 523	200, 095 206, 611 205, 396 208, 724	119,547 118,781 122,149 121,425	403, 335 405, 082 408, 292 409, 038
MEMORANDA. Ratio of total re- serves to deposit and F. R. note lia-			}			ŝ							
bilities com- bined-per cent: Mar. 28 Apr. 4 Apr. 11 Contingent liability	75. 5 75. 0 76. 3 75. 5	76. 9 78. 9 78. 8 77. 9	81, 8 83, 0 83, 7 83, 8	69. 2 70. 7 72. 4 74. 2	78. 1 75. 3 73. 5 72. 0	68.7 66.5 66.0 62.9	78.6 75.6 73.8 71.8	77. 1 74. 6 79. 6 78. 6	64.7 66.2 68.6 64.5	71. 8 71. 6 73. 3 72. 4	64. 8 62. 3 66. 2 61. 9	47. 9 46. 8 48. 3 46. 6	67, 8 66, 3 67, 7 66, 5
on bills purchased for foreign corre- spondents: Mar. 28 Apr. 4 Apr. 11 Apr. 18	35, 832 36, 427 31, 914 32, 634	2, 132 2, 514 2, 711 2, 394	15, 112 10, 270 5, 560 9, 367	2, 444 3, 109 3, 109 2, 745	3,070 3,904 3,904 3,904 3,447	1,478 1,880 1,880 1,660	1, 165 1, 482 1, 482 1, 309	3, 951 5, 025 5, 025 4, 436	1, 251 1, 591 1, 591 1, 404	966 1,229 1,229 1,085	1,222 1,555 1,555 1,372	1,023 1,301 1,301 1,301 1,149	2, 018 2, 567 2, 567 2, 266

RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON WEDNESDAYS, MARCH 28 TO APRIL 18, 1923-Continued. LIABILITIES.

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

	[In thousa	nds of dollar	s.]				
	Total.	Within 15 days.	16 to 30 days.	31 to 60 days.	61 to 90 days.	From 91 days to 6 months.	Over 6 months.
Bills discounted: Mar. 28 Apr. 4. Apr. 11. Apr. 18 Bills dought in open market: Mar. 28 Apr. 14. Apr. 11. Apr. 13. United States certificates of indebtedness: Mar. 28 Apr. 11. Apr. 18. United States certificates of indebtedness: Mar. 28. Apr. 11. Apr. 11.	622, 650 643, 462 254, 251 259, 879 274, 389 277, 447 77, 201 74, 563 75, 328	1, 449 1, 584	42, 899 47, 394 42, 008 41, 850 50, 121 53, 095 45, 052 44, 299		582 34	14, 342 12, 944 11, 417 65, 365 53, 861 18, 275	15 41 178 431
Apr. 18 Municipal warrants: Mar. 28							36, 864
Apr. 4 Apr. 11 Apr. 18	41	41 41					· · · · · · · · · · · · · · · ·

FEDERAL RESERVE NOTES.

FEDERAL RESERVE AGENTS' ACCOUNTS ON WEDNESDAYS, MARCH 28 TO APRIL 18, 1923.

					u vuousai	tu or uom	aro.j						
	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Net amount of F. R. notes received from Comptroller of the													
Currency: Mar. 28 Apr. 4 Apr. 11 Apr. 18 F. R. notes on hand:	3, 463, 617 3, 447, 496 3, 443, 457 3, 427, 962	311,854 309,328	1,070,979 1,062,717 1,057,100 1,045,243	267,311 271,101 273,588 277,560	279,088 276,545 278,105 280,982	121, 927 120, 748 121, 172 119, 433	205, 861 208, 316 208, 292 207, 920	549, 747 545, 824 548, 447 544, 523	128,212 127,396 126,915 125,554	71,302 70,830 71,367 72,110	91, 316 90, 705 90, 266 89, 467	53, 947 53, 366 52, 712 52, 332	309,999 308,094 306,165 305,966
Mar. 28 Apr. 4 Apr. 11	862, 538 828, 797 830, 385	91, 400 86, 400 84, 700	334, 340 318, 340 318, 340	44, 800 44, 800 46, 200	33, 220 32, 020 30, 820	30,690 27,990 29,550	76,038 77,458 77,043	111,560 102,460 105,860	26,940 27,240 26,190	11,926 10,805 11,125	19,760 19,760 19,643	20, 879 20, 539 19, 929	60, 985 60, 985 60, 985
Apr. 18 F. R. notes out- standing: Mar. 28 Apr. 4	832, 530 2, 601, 079 2, 618, 690	86,000 222,528 225,454	318, 340 736, 639 744, 377	46,000 222,511 226,301	34, 320 245, 868 244, 525	29, 270 91, 237 92, 758	75, 688 129, 823 130, 858	104,060 438,187 443,364	26, 190 101, 272 100, 156	12, 205 59, 376 60, 025	19, 643 71, 556 70, 945	19, 829 33, 068	60, 985 249, 014 247, 109
Apr. 4. Apr. 4. Apr. 11. Apr. 18. Collateral Security for F. R. notes	2, 613, 699 2, 613, 072 2, 595, 432	223, 434 224, 628 220, 872	744, 377 738, 760 726, 903	226, 301 227, 388 231, 560	244, 323 247, 285 246, 662	92,738 91,622 90,163	130, 858 131, 249 132, 232	443, 304 442, 587 440, 463	100, 138 100, 725 99, 364	60, 025 60, 242 59, 905	70, 945 70, 623 69, 824	32, 827 32, 783 32, 503	247, 109 245, 180 244, 981
outstanding: Gold and gold certificates— Mar. 28	314, 899 314, 899	25, 300 25, 300	235, 531 235, 531	7,000	13, 275 13, 275		2,400		11, 880 11, 880	13,052		6,461	
Apr. 4 Apr. 11 Apr. 18 Gold redemption fund	314, 899 314, 899 314, 899	25,300 25,300 25,300	235, 531 235, 531 235, 531	7,000 7,000 7,000	13, 275 13, 275 13, 275		2,400 2,400 2,400		11, 880 11, 880 11, 880	13, 052 13, 052 13, 052		6,461 6,461 6,461	
Mar. 28 Apr. 4 Apr. 11 Apr. 18 Gold fundF. R.	$\begin{array}{c} 129,141 \\ 128,082 \\ 130,285 \\ 123,761 \end{array}$	20, 141 18, 067 15, 541 13, 085	32,536 32,373 32,187 32,004	15, 455 13, 245 16, 331 14, 303	12,996 12,052 12,512 12,990	3, 353 1, 774 3, 239 4, 499	4,042 5,997 4,973 3,601	16,368 15,445 16,8 6 8 15,944	3, 887 4, 071 3, 590 4, 230	$1,577 \\ 1,107 \\ 1,524 \\ 1,907$	3, 559 2, 948 4, 149 3, 350	1,823 2,242 2,587 2,207	13, 404 18, 761 16, 784 15, 641
Board- Mar. 28 Apr. 4 Apr. 11 Apr. 18	1,590,059 1,570,557 1,596,325	128,000 128,000 128,000	371,000 371,000 371,000	129, 889 130, 889 134, 889	180,000 180,000 180,000	53, 795 53, 795 50, 795	95, 500 93, 000 93, 500	339, 644 336, 644 354, 644	49,000 46,500 53,500	32,000 32,000 34,000	49,360 49,360 47,360	4,000 4,000 4,000	157, 871 145, 369 144, 637
Eligible paper- Amount re- quired		128,000	371,000	143, 890	180,000	47,795	93, 500	349,644	49,500	33,000	47,360	4,000	150,141
Mar. 28 Apr. 4 Apr. 11 Apr. 18 E x c e s s	566,980 605,161 571,563 558,942	49,087 54,087 55,787 54,487	97, 572 105, 473 100, 042 88, 368	70, 167 75, 167 69, 168 66, 367	39, 597 39, 198 41, 498 40, 397	34,089 37,189 37,588 37,869	27, 881 29, 461 30, 376 32, 731	82, 175 91, 275 71, 075 74, 875	36, 505 37, 705 31, 755 33, 754	12,747 13,866 11,666 11,946	18,637 18,637 19,114 19,114	20, 784 20, 124 19, 735 19, 835	77,739 82,979 83,759 79,199
a m o u n t held	340, 180 305, 817 290, 239	25, 155 10, 332 8, 437	137, 647 109, 447 108, 456	13, 498 1, 436 3, 882	40, 899 44, 126 55, 765	15,600 14,686 14,863	11,944 17,302 16,551	45,923 53,623 41,037	2,374 2,776 3,563	9, 337 8, 395 8, 921	5, 253 9, 745 3, 284	18,906 19,378 17,533	13,644 14,571 7,947
Apr. 18	320, 936	15, 438	104,070	435	57, 782	17, 690	19,606	42,685	7,935	9, 831	9,992	18, 943	16, 529

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CONDITION OF REPORTING MEMBER BANKS IN LEADING CITIES.

PRINCIPAL RESOURCES AND LIABILITIES OF REPORTING MEMBER BANKS IN LEADING CITIES ON WEDNESDAYS FROM MARCH 21 TO APRIL 11, 1923.

ALL REPORTING MEMBER BANKS IN EACH FEDERAL RESERVE DISTRICT.

	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Number of reporting banks. Mar. 21 Mar. 28 Apr. 4 Loans and discounts, gross: Secured by U. S. Gov- ernment obligations-	777 777 777 777 777 777	46 46 46 46	106 106 107 108	55 55 55 55	84 84 84 84	78 78 77 77 77	39 39 39 39 39	107	3ð 36 36 36 36	30 30 30 30	78 78 78 78 78	52 52 52 52 52	66 66 66 66 •
Mar. 21 Mar. 28 Apr. 4 Apr. 11 Secured by stocks and	$\begin{array}{c} 269,540\\ 265,268\\ 270,651\\ 272,416\end{array}$	$14,557 \\ 15,427 \\ 13,277 \\ 13,086$	87, 645 83, 005 88, 696 91, 660	18,055 18,428	32, 756 32, 002 31, 792 31, 896	10,144	7,199 7,346	43, 469 42, 993 46, 717 45, 814	17,538 16,962	7, 856 7, 901 7, 893 7, 991	8, 073 8, 115 8, 177 8, 515	$5,299 \\ 5,137 \\ 5,113 \\ 5,257 \\ $	16,430 16,005 16,106 15,946
Mar. 21 Mar. 28 Apr. 4. Apr. 11 All other loans and dis-		238, 964 238, 376 240, 764 236, 692	1,675,657 1,675,576 1,723,743 1,641,552	256, 516 266, 763 271, 760 276, 308	373,678 376,412	124,110 126,531	61, 113 57, 168	543, 103 548, 045 549, 786 558, 007	$134,711 \\ 136,780 \\ 136,699 \\ 136,034$	51,458	78, 051 76, 516 77, 029 77, 443	52,374 52,647	$\begin{array}{c} 161,287\\ 161,183\\ 163,932\\ 164,228 \end{array}$
Mar. 21 Mar. 28 Apr. 4 Total loans and discounts:	7, 727, 170 7, 752, 873 7, 781, 039 7, 789, 998		2, 473, 565 2, 480, 778 2, 496, 658 2, 509, 682			321, 984 321, 870 324, 271	339, 566 341, 972 337, 893	1, 129, 621 1, 145, 262 1, 149, 143 1, 135, 494	302,872 301,909 301,334	189, 150 190, 647 192, 410 191, 056	365, 155 365, 202 363, 845	212, 093 209, 447	779, 249 777, 235 781, 219 790, 719
Mar. 21. Mar. 28. Apr. 4. Apr. 11. U. S. pre-war bonds:	11, 750, 078 11, 783, 480 11, 879, 619 11, 825, 036	858,691 863,964 864,168 859,103	4, 236, 867 4, 239, 359 4, 309, 097 4, 242, 894	607, 723 614, 654 618, 141 627, 540	1, 082, 091 1, 083, 459 1, 088, 687 1, 095, 577	461, 200 457, 985 458, 545 462, 453	404, 397 407, 878 406, 486 408, 813	1, 716, 193 1, 736, 300 1, 745, 646 1, 739, 315	458,702 457,190 455,570 453,531	247,625 249,373 251,761 250,541	448, 841 449, 786 450, 408 449, 803	269,109 269,853	956, 966 954, 423 961, 257 970, 893
Mar. 21 Mar. 28 Apr. 4 Apr. 11 U.S. Libarty honda:	283, 190 283, 280 283, 082 282, 206	12, 725 12, 937 12, 722 12, 722	48, 486 48, 486 48, 476 48, 472	11.464	48,009 48,043	30, 460 30, 310	14,551 14,541	25,004 24,955	15.323	8.770	12,078 12,078 12,092 12,091	-19.854	36,485 36,338 36,526 36,176
Mar. 21 Mar. 28 Apr. 4 Apr. 11 U S. Traggury honds:	1,045,279 1,041,643 1,038,483 1,035,014	78, 239 78, 008 78, 213 78, 382	463, 225 454, 874 456, 235 455, 361	47,760 47,249 47,287 47,927	121, 586 121, 120 120, 214 119, 147	31, 988 30, 933	14,042 13,994	94, 684 94, 675	25,102	12,613 11,610	47,108 46,658	$16,149 \\ 15,251$	95, 217 98, 7 06 98, 033 97, 995
Mar. 21. Mar. 28. Apr. 4. Apr. 11. U. S. Victory notes and	109,617 107,509 105,793 104,928	0.200	40, 585 39, 338 37, 628 37, 184	4,170	8,880 8,681	5,029 5,005	1,854 1,849	12,363 12,408	9,576 8,984 9,102 9,033	$1,380 \\ 1,319$	$4,724 \\ 4,637$	$2,145 \\ 2,229$	12, 118 13, 377 13, 495 13, 068
Mar. 21. Mar. 28. Apr. 4. Apr. 11. U. S. certificates of indebt-		23,906 23,749	511,641 509,877 501,625 507,720	52.813	58,552 58,600	9,673 9,947	7,080 6,354	128,125 128,248	25, 019 24, 683 24, 743 24, 414	25,805 25,832	20,602 20,670	15,196 14,146	48, 437 52, 441 50, 833 50, 372
edness: Mar. 21 Mar. 28 Apr. 4 Apr. 11 Other bonds, stocks, and		6,284 6,161	74,849 76,706 77,224 66,258	10, 176 8, 724 7, 767 7, 344	20, 250 17, 775 16, 459 15, 727	4,850 4,764 4,131 3,906	8,765 9,321	31,676 26,624 25,666 25,022	5,651	$4,289 \\ 4,201 \\ 4,276 \\ 4,193$	7,377	9,661 8,583 8,604 7,887	16,928 16,008 15,556 16,110
securities: Mar. 21 Mar. 28 Apr. 4 Apr. 4 Total loans and discounts		172, 245 170, 437 171, 378 173, 138	717,777 717,423 718,347 720,447	184, 235 183, 491 181, 252 180, 878	286,731 287,533 287,609 288,240	51 538	36,506 36,346	370,367	90,505 87,182	31.064	58,725 59,883	9,515 9,064	155,373 154,380 156,752 155,714
and investments: Mar. 21 Mar. 28 Apr. 4 Apr. 11 Reserve balance with F. R.		1, 159, 679 1, 160, 801 1, 161, 676 1, 158, 123	6,093,430 6,086,063 6,148,632 6,078,336	917,450 922,565 923,361 932,766	1,626,243 1,625,328 1,628,293 1,631,877	595,402 591,437 590,014 592,651	488, 496 490, 676 488, 891 490, 650	2,386,289 2,393,467 2,398,127 2,387,061	630,559 627,438 622,837 619,329	331,952 333,212 334,166 333,007	601,542 600,400 601,706 601,278	341,764 340,551 339,001 335,911	1,321,524 1,325,673 1,332,452 1,340,328
banks: Mar. 21 Mar. 28 Apr. 4 Apr. 11	1,388,286 1,394,778 1,406,993 1,387,452	80,697 81,659 84,039 81,753	617,513 642,511 621,057 625,499	70, 524 69, 059 74, 231 69, 356	109, 105 109, 550 112, 792 111, 245	35,228 32,989 35,336 34,040	34,076 32,557 33,394 31,944	204,012 197,761 208,009 204,974	41,533 43,408 45,454 42,403	26,987 22,696 23,923 24,079	50,363 46,698 51,935 46,152	25,744 25,623 25,085 26,201	92, 504 90, 267 91, 738 89, 806
Cash in vault: Mar. 21 Mar. 28 Apr. 4 Apr. 11		18,707 18,707 18,447	80,304 82,721 83,654 84,682	16, 164 17, 579 16, 434 16, 148	30, 866 30, 736 31, 070 30, 779	$13,399 \\ 13,756 \\ 13,527 \\ 15,884$	$10,150 \\ 10,358 \\ 10,004 \\ 10,924$	52,290 53,386 55,280 54,261	7,768 7,874 8,061 8,385	5,641 5,941 5,875 6,107	11,358 11,615 11,103 12,220	9,015 8,937 9,225 9,357	20, 483 20, 934 20, 811 21, 242

PRINCIPAL RESOURCES AND LIABILITIES OF REPORTING MEMBER BANKS IN LEADING CITIES ON WEDNESDAYS FROM MARCH 21 TO APRIL 11, 1923—Continued.

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

[In thousands of dollars.]

				lin the	usands of	i dollars.	}						
	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Net demand deposits: Mar. 21 Mar. 28 Apr. 4 Apr. 11 Time deposits:	11, 183, 938 11, 082, 059 11, 212, 307 11, 251, 109	784, 587 780, 632 796, 796 803, 708	4,730,684 4,680,719 4,754,414 4,730,189	684,230 684,876 696,130 706,410	920, 431 915, 114 925, 402 918, 877	330, 768 332, 561	282, 376 276, 891 278, 707 282, 478	1,488,077 1,470,340 1,477,038 1,503,845	372, 161 364, 106 365, 671 369, 215	209,647 211,534	456, 624 460, 539 458, 505 458, 552		683,722 672,293 680,328 691,217
Mar. 21 Mar. 28. Apr. 4 Apr. 11	3,923,132 3,948,420 3,959,247 3,951,362	247, 820 247, 898 249, 534 250, 510	887, 827 889, 867 896, 541 891, 120	87, 210 89, 507 88, 386 88, 304	550, 319 553, 728 551, 393 547, 826	152,939 152,874 154,318 154,146	169,150	771,486	183, 218 183, 497 183, 978 183, 194	83, 405 83, 653 83, 677 84, 280	$\begin{array}{c} 124,698\\ 125,587\\ 124,508\\ 126,039 \end{array}$	74,959 75,666 75,528 75,290	595,031 607,489 609,805 612,685
Mar. 28 Apr. 4 Apr. 11 Bills payable and redis- count with F. R. banks: Secured by U. S. Gov-	326,466 337,323 337,082 336,368	19,253 19,253	153, 498 153, 458 153, 498 153, 498 153, 498	26,859 26,859 26,859 26,859 26,859	23,694 24,995 24,968 24,539	9.778	9,429 11,246 11,017 11,017	29,881 29,882	$10,053 \\ 10,322 \\ 1$	5,614 5,540 5,540 5,400	310 6,917 6,913 6,913 6,913	$14,828 \\ 14,826$	24,403 24,226 24,226 24,204
Mar. 21 Mar. 21 Apr. 4 Apr. 11	259, 534 290, 245 281, 781 239, 083	10, 936 11, 046 7, 752 4, 809	114,932 155,212 143,390 116,524	22, 495 24, 237 20, 673 20, 486	12,266 12,137 11,719 18,361	17,406 13,731 13,756 15,187	1,945 939 980 565	40,980 45,211	3, 192 5, 114 3, 879 3, 510	$3,940 \\ 2,265 \\ 3,265 \\ 2,815 $	10, 198 5, 648 11, 439 6, 618	585 330 45 115	17,934 18,606 19,672 22,173
Mar. 21 Mar. 28 Apr. 4 Apr. 11	156,763 184,708 187,077 156,720	21,147 26,636 21,520 23,011	28,940 46,471 39,356 38,701	14,718 15,522 15,009 10,877	$15,560 \\ 11,989 \\ 11,778 \\ 14,435 $	17, 453 17, 469 18, 486 17, 856	4,083 3,576 6,038 4,648	22,972 31,292	10, 879 9, 963 12, 087 7, 614	3,144 3,642 3,736 3,001	5,885 6,001 5,754 5,071	2,386 3,101	16,100 18,081 18,920 13,137
	REPOR	TING M	EMBER	BANKS	IN FEI	DERAL	RESEF	RVE BAN	к сіті	ES.			
Number of reporting banks: Mar. 21 Apr. 4 Apr. 11 Loans and discounts, gross: Secured by U. S. Gov-	(259	23 23	63 63 63 64	42 42 42 42 42	8 8 8 8	10 10		49 49	13 13 13 13 13	6 6 6 6	16 16 16 16	8 8 8 8	15 15 15 15
ernment obligations— Mar. 21. Mar. 28. Apr. 4. Secured by stocks and	179, 949 174, 498 181, 488 182, 401	11, 805 12, 670 10, 544 10, 231	78, 620 74, 356 79, 780 82, 684	16, 654 16, 124 16, 501 16, 610	6, 627 5, 822 5, 861 6, 158	2, 136 2, 148	1, 966 1, 978 1, 972 1, 981	33,298 37,150	13, 434 13, 310 12, 736 11, 919	4, 679 4, 698 4, 681 4, 789	2, 084 2, 076 1, 978 1, 952	1, 491 1, 508 1, 490 1, 493	6, 706 6, 522 6, 647 6, 825
Mar. 21 Mar. 28 Apr. 4 All other loans and dis-	2, 719, 882 2, 731, 064 2, 797, 280 2, 723, 258		1, 490, 279 1, 486, 631 1, 540, 852 1, 459, 826	235, 544 245, 066 250, 137 254, 726	140, 222 137, 816 138, 219 139, 191	19, 835 19, 221 19, 767 19, 170	10, 866 10, 900 10, 414 10, 594	413, 570	97, 980 100, 132 99, 671 99, 369	28, 895 29, 165 29, 867 30, 052	21, 938 20, 982 21, 058 20, 808	12, 276 12, 623 12, 911 11, 533	68, 601 69, 155 70, 456 70, 389
Mar. 21 Mar. 28 Apr. 4 Apr. 11	4, 786, 836 4, 812, 033 4, 825, 413 4, 827, 799	458, 865 464, 577 464, 708 462, 549	2, 166, 123 2, 173, 710 2, 190, 368 2, 199, 654		311, 110 315, 963 315, 692 315, 192	66, 422 66, 067 67, 367	61, 374 57, 677 57, 540		176, 756 173, 097 172, 004 172, 003	88, 120 89, 124 89, 708 89, 342	117, 874 117, 908 118, 682 118, 549	57,337	315, 350 314, 322 314, 882 320, 863
Total loans and discounts: Mar. 21	7,686,667 7,717,595 7,804,181 7,733,458	663, 050 663, 628 657, 107	3, 735, 022 3, 734, 697 3, 811, 000 3, 742, 164	552, 193 558, 257 562, 327 571, 584	457, 959 459, 601 459, 772 460, 541	89, 223 87, 779 87, 982 88, 658	70,685 74,252 70,063 70,115	1, 109, 351 1, 126, 871 1, 133, 577 1, 126, 066	288, 170 286, 539 284, 411 283, 291	124,256	141, 896 140, 966 141, 718 141, 309	72, 713 72, 597 73, 462 70, 363	390, 657 389, 999 391, 985 398, 077
Mar. 21. Mar. 28. Apr. 4. Apr. 11. U. S. Liberty bonds:	99, 773 99, 768 99, 796 99, 587	2, 269 2, 268 2, 268 2, 268 2, 268	37, 835 37, 835 37, 825 37, 826	7,358 7,358 7,358 7,358 7,358	4, 530 4, 490 4, 529 4, 530	1, 805 1, 805 1, 805 1, 805	2,927	3, 372 3, 408 3, 413 3, 474	8, 223 8, 223 8, 223 8, 223 8, 223	3, 031 3, 031 3, 031 3, 031 3, 031	2, 131 2, 131 2, 137 2, 137 2, 137	4, 875 4, 975 4, 975 4, 975 4, 975	21,417 21,317 21,315 21,115
Mar. 21. Mar. 28. Apr. 4. Apr. 11. U. S. Treasury bonds:	619,388	33,961 34,138	387,653 388,864 388,319	36, 825 36, 307 36, 322 36, 609	25, 517 25, 541 25, 661 24, 818	3,482	273	37,574 37,544	16, 106 16, 058 16, 075 15, 603	5,289 5,036	21,243	4,734	45, 150 46, 061 46, 193 45, 933
Mar. 21. Mar. 28. Apr. 4. Apr. 11. U. S. Victory notes and	59, 516 57, 744 56, 008	2, 737 2, 746	30, 141 29, 906 28, 197 27, 255	3, 243 3, 259 3, 244 3, 269	1, 851 1, 851 1, 851 1, 311	214 190	117	5,414	7,637	755	942	1, 103 1, 103	5, 500 5, 479 5, 503 5, 323
Treasury notes: Mar. 21 Mar. 28 Apr. 4 Apr. 4 Apr. 11	713, 868 702, 255 693, 536 697, 749	16,668 16,246	477,062	49,727	9, 823 9, 697 9, 554 9, 727	1,606 1,606 2,026 2,211	310 310	85, 270 85, 137	16, 144 16, 181	9,492 9,518	7,054 7,187	3,770 2,952	22, 600 25, 943 26, 049 24, 873

PRINCIPAL RESOURCES AND LIABILITIES OF REPORTING MEMBER BANKS IN LEADING CITIES ON WEDNESDAYS FROM MARCH 21 TO APRIL 11, 1923—Continued.

REPORTING MEMBER BANKS IN FEDERAL RESERVE BANK CITIES-Continued.

[In thousands of dollars.]

				lin the	usands o	i donars.	4						
,	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	At- lanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
U. S. certificates of indebt- edness:													
Mar. 21 Mar. 28 Apr. 4	113, 876 113, 558 114, 158 100, 483	2,731 2,773	65, 234 70, 236 72, 263 61, 499	8,087 7,055	2, 250 2, 286 2, 285 2, 403	1, 449 1, 434 1, 338 1, 135	2,058 2,057	12,869 11616 11,283 10,261	6, 353 4, 663 4, 558 4, 325	2,451	464 453 409 432	4, 618 4, 405 4, 976 4, 275	3, 432 3, 138 2, 741 2, 733
Apr. 11 Other bonds, stocks, and securities: Mar. 21	, i	80, 689			66.388	5.245	3, 580			13.695	11.037	2,093	69, 599
Mar. 21 Mar. 28 Apr. 4 Apr. 11 Total loans and discounts	1, 167, 651 1, 162, 376 1, 164, 772	78,826 79,938	518, 171 518, 942 520, 808	147, 711 146, 862 144, 831 144, 692	67, 676 67, 935 67, 230	5, 173 5, 108	3, 590 3, 540	191, 798 188, 714	58, 840 55, 935 54, 764	13, 512 13, 452	10,951 11,320	2, 209 2, 306	70, 043 70, 355 69, 537
and investments: Mar. 21. Mar. 28. Apr. 4. Apr. 11. Reserve balance with F. R.	10, 466, 570 10, 479, 840 10, 551, 179	798, 205 800, 355 801, 560	5, 261, 815 5, 255, 560 5, 325, 740 5, 252, 948	805, 211 809, 369 810, 864	568, 318 571, 142 571, 587	103, 331 101, 791 101, 931	79, 988 83, 562 79, 277	1, 453, 940 1, 461, 951 1, 465, 127 1, 453, 401	400, 152 398, 153 393, 020	156, 520 157, 578 158, 468	186, 313 184, 104 184, 956	94, 295	558, 355 561, 980 564, 141
Danks.				1		102, 538			389, 949	158, 542	184,631	93, 177	567, 591
Mar. 21 Mar. 28 Apr. 4 Apr. 11 Cash in vault:	985, 416 993, 782 995, 889 986, 968	65,041 66,951	569, 621 589, 476 571, 197 578, 292	62,871 67,588	33, 670 33, 947 35, 455 34, 543	6, 172 4, 987 5, 793 4, 063	5,275 4,733	136,051 145,211	27, 032 28, 312 28, 434 27, 966	14, 845 11, 234 12, 565 12, 783	16, 206 15, 954 17, 299 16, 429	6,956 7,114	33, 822 33, 678 33, 549 31, 075
Cash in vault: Mar. 21. Mar. 28. Apr. 4.	141, 082 145, 663 145, 688	8,118 7,780	66, 236 68, 195 69, 204 69, 704	14,146		803 810 841	1,723 1,765	29,369 29,405	3, 531 3, 550 3 , 557	1,865 1,883	2, 125 2, 332	1,356 1,268 1,317 1,373	5, 922 6, 119 5, 960
Mar. 21. Mar. 23. Apr. 4. Apr. 11. Net demand deposits: Mar. 21. Mar. 22. Apr. 4. Apr. 11. Time deposits:	148, 673 7, 585, 931 7, 523, 552 7, 632, 259	605, 022 601, 647	4, 236, 604 4, 185, 561	602, 843 602, 004	8, 277 233, 839 235, 530 243, 888	53, 895	45, 899	1,001,167 995,110	245, 334	97,368	159, 102 160, 836	65,098	6, 368 239, 847 239, 056 238, 664
Apr. 11. Time deposits: Mar. 21	7,642,644	619,023	4, 257, 805 4, 230, 112 624, 563	1 1	242, 479 317, 954			1,009,822	244, 329 103-269	101, 465 38, 218	163,015	65, 858	241,772
Mar. 21. Mar. 28. Apr. 4. Apr. 11. Government deposits:	1,961,267 1,968,063 1,957,245	$\begin{array}{c} 103,751\\ 103,601\\ 105,056\\ 105,029\end{array}$	633,879 627,070		320, 205 318, 559 315, 679	25,469 25,462 25,641		376,425 376,407 372,366	103,225 103,413 103,333	38,491 38,427 39,089	12,573 12,566 13,007	13,705	235, 610 248, 252 248, 438 250, 288
Mar. 21. Mar. 28. Apr. 4. Apr. 11. Bills payable and redis- counts with F. R. banks:	$\begin{array}{c} 238,696\\ 243,077\\ 243,060\\ 242,886\end{array}$	14,272	140, 867 140, 867 140, 867 140, 867 140, 867	25,403 25,403	2,542 2,742 2,745 2,742	1,068 1,068 1,068 1,088	3, 191	15,650 15,713 15,713 15,663	8,607 8,607 8,607 8,607	3.874	105 4,025 4,025 4,025	9,376 9,376	13, 941 13, 939 13, 939 13, 939 13, 939
ernment obligations-							l						
Mar. 21 Mar. 28 Apr. 4. Apr. 11.	177, 738 211, 235 204, 787 170, 424	8,236 5,267	130,211 124,092	22,237 18,798	715 475 715 1,085	3,718 3,924		24.359	1,606 3,806 2,356 1,932	1,365 365 365 1,615	2,091 6,042	•••••	16,325 15,737 17,983 20,451
All other— Mar. 21. Mar. 28. Apr. 4. Apr. 11.	108, 79 6 132, 79 5	26,140 21,100	35,341	15,522 15,009	9,956 6,008 5,437 7,834	5,630 4,935 5,702 5,833	808 898	12,166 16,597 22,623	8.041	2,418 2,482 2,632 2,069	915 666	479 855	14, 519 16, 349 16, 994 11, 766
MEMORANDA.	102,001				,	0,000		•,	.,	,		1	,
Bank deposits: Due to banks		100.000	017 000	117 00-	41.00	01 **=	10 500	220.001	00 000	40 011	100.040	99 000	01 00*
Mar. 21. Mar. 28. Apr. 4. Due from banks	1,974,156 1,948,786 2,067,516 2,006,977	106,602 103,632 114,572 110,971	945,023 929,839 979,613 944,022	157,365 153,231 166,684 161,173	41,304 41,283 46,596 44,731	29,087	16,799 15,965 15,561 16,133	338, 284 342, 962 369, 419 358, 585	82,209 79,045 81,484 81,256	48,044 47,585 51,960 49,609	102, 246 103, 869 105, 864 105, 791	23, 296 21, 630 22, 392 21, 936	81, 227 80, 658 83, 350 84, 266
Due from banks Mar. 21 Mar. 28 Apr. 4 Apr. 11	480,842	33,253 34,508	74, 262 79, 257 77, 707	51,320 61,446	17,657 16,321 18,412	13,618 11,540 12,583	9,197 8,925 10,122	139,895 142,120 154,630	21,135 19,983 24,070	16,176 13,130 18,022	41,057 41,250 43,710	19,640 19,303 19,616	49, 027 44, 440 43, 742
Apr. 11	515, 472	35, 994	75, 781	55,995	17, 298	12, 575	10, 129	152,655	25, 184	17, 196	42, 869	21, 463	48,333

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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	February,	March,	April,	February,	March,	April,
	of cities.	1923.	1923.	1923.	1922.	1922.	1922.
No. 1—Boston	7 10 13 7 15 21 5 9 14 11	$\begin{array}{c} 1, 889, 899\\ 19, 595, 761\\ 1, 648, 925\\ 1, 949, 930\\ 631, 628\\ 827, 440\\ 4, 383, 007\\ 952, 802\\ 510, 811\\ 996, 426\\ 404, 600\\ 2, 043, 173 \end{array}$	$\begin{array}{c} 2,222,086\\ 23,231,535\\ 1,926,493\\ 2,206,665\\ 737,293\\ 991,806\\ 4,828,041\\ 1,112,395\\ 600,805\\ 1,199,481\\ 547,188\\ 2,581,355\end{array}$	$\begin{array}{c} 2, 119, 787\\ 21, 180, 741\\ 1, 863, 477\\ 2, 227, 570\\ 676, 260\\ 886, 323\\ 4, 737, 859\\ 1, 039, 549\\ 596, 914\\ 1, 130, 015\\ 488, 225\\ 2, 347, 653\end{array}$	$\begin{array}{c} 1, 611, 605\\ 17, 029, 426\\ 1, 431, 503\\ 535, 864\\ 676, 960\\ 3, 523, 914\\ 739, 485\\ 455, 305\\ 872, 689\\ 460, 149\\ 1, 709, 434 \end{array}$	$\begin{array}{c} 1, 857, 809\\ 20, 977, 917\\ 1, 628, 117\\ 1, 665, 926\\ 618, 568\\ 781, 076\\ 4, 339, 187\\ 859, 417\\ 556, 282\\ 1, 012, 278\\ 524, 469\\ 2, 061, 228\\ \end{array}$	$\begin{array}{c} 1,760,157\\ 21,326,277\\ 1,569,312\\ 1,744,376\\ 614,409\\ 710,303\\ 3,945,171\\ 826,599\\ 512,419\\ 956,757\\ 470,827\\ 1,951,433 \end{array}$
Total	141	35, 924, 402	42, 185, 143	39,294,408	30, 585, 310	36,932,274	36, 388, 040
New York City	1	19,019,491	22, 541, 298	20, 478, 562	16, 543, 428	20, 397 , 109	20, 716, 594
Other cities.	140	16,904,911	19, 643, 845	18, 815, 846	14, 041, 882	16, 535, 165	15, 671, 446

WEEKLY SUMMARY FOR BANKS IN 243 CITIES.

[In thousands of dollars.]

Federal reserve district.	Number of centers		19 Week e	23 nding—					
	included.	Mar. 28.	Apr. 4.	Apr. 11.	Apr. 18.	Mar, 29.	Apr. 5.	Apr. 12.	Apr. 19.
No. 1—Boston	13 18 23 22 25 31 11 16 27 15	$\begin{array}{r} 472,192\\ 4,815,390\\ 462,706\\ 580,666\\ 250,377\\ 214,690\\ 1,050,057\\ 125,051\\ 127,331\\ 275,981\\ 134,164\\ 530,139\end{array}$	$\begin{array}{c} 593,896\\ 5,206,836\\ 507,345\\ 654,208\\ 283,637\\ 233,297\\ 1,195,769\\ 276,561\\ 143,224\\ 294,462\\ 294,462\\ 142,310\\ 562,855\end{array}$	$\begin{array}{c} 504,762\\ 4,895,346\\ 462,613\\ 689,887\\ 265,332\\ 216,076\\ 1,053,875\\ 264,730\\ 148,837\\ 292,039\\ 145,714\\ 572,871 \end{array}$	$\begin{array}{c} 630,567\\ 5,326,208\\ 517,404\\ 651,829\\ 281,282\\ 232,476\\ 1,176,092\\ 287,767\\ 161,247\\ 311,442\\ 161,412\\ 598,298\end{array}$	394, 863 4, 584, 156 378, 241 421, 390 204, 610 163, 761 956, 035 186, 814 111, 641 232, 395 128, 140 407, 516	495, 219 5, 269, 601 446, 294 508, 931 1259, 724 198, 547 1, 090, 114 219, 095 125, 267 247, 268 144, 009 485, 601	431, 289 4, 843, 587 404, 980 545, 044 232, 179 178, 176 872, 440 218, 911 122, 392 245, 886 133, 511 486, 619	435, 753 5, 138, 450 408, 154 488, 238 238, 472 188, 591 963, 386 220, 251 131, 676 248, 288 138, 589 493, 400
Total	243	9, 165, 744	10, 094, 400	9, 512, 082	10, 336, 024	8, 169, 562	9, 489, 670	8, 715, 014	9, 093, 546

DATA FOR EACH CITY.

		199 Week er			1922 Week ending—					
	Mar. 28.	Apr.4	Apr. 11.	Apr. 18.	Mar. 29.	Apr. 5.	Apr. 12.	Apr. 19		
District No. 1-Boston:				-			··· ·			
Bangor, Me.	2,831	3,713	3, 138	3, 163	3, 121	3, 170	3, 289	2,833		
Boston, Mass	319,047	407, 492	331, 951	434,090	269, 035	330, 667	284, 548	286, 497		
Brockton, Mass	4, 425	5,020	5.077	6, 886	4,255	4, 508	4, 799	4, 535		
Fall River, Mass	6,752	8,200	8,300	8,397	5, 399	6,234	6,053	4, 535 6, 225		
Hartford, Conn.	20,626	26,275	23,071	29,900	17,646	24,006	21,792	24,679		
Holyoke, Mass	3,838	4,909	4,005	4,759	2,919	3,308	2,965	2,750		
Lowell, Mass.	4,975	5, 514	5, 413	6,098	4,077	4,904	4,630	4, 104		
Lynn Mass	6 470	7,018	7,243	6,180	4,787	5,948	6,017	4, 104 5, 356		
Manchester, N. H.	4.362	5,810	4,709	5,488	3,986	4,951	4, 275	4,053		
New Bedford, Mass	6,707	6,805	8,014	9,066	5,244	6,161	6,028	4,053 5,226		
New Haven, Conn	16,436	6, 805 18, 853	19, 263	20,466	13,692	18,910	15,915	17,077 6,936		
Portland, Me.	6, 997	9,051	8,760	8,997	6,585	7,857	7,606	6,936		
Providence, R. I	30, 589	40, 417	36,004	39,354	25,468	34.067	29,977	33,064		
Springfield, Mass	16, 369	18,162	16,102	18,711	12,251	14,380	14, 151	12, 412		
Waterbury, Conn	6,665	8,719	8,186	10,249	4,059	9,890	5,640	6, 269		
Worcester, Mass	15, 103	17, 938	15, 526	18,763	12,339	16,258	13,604	6, 269 13, 737		

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DEBITS TO INDIVIDUAL ACCOUNTS BY BANKS IN SELECTED CITIES-Continued.

DATA FOR EACH CITY-Continued.

1		192 Week er			1922 Week ending—					
	Mar. 28.	Apr. 4.	Apr. 11.	Apr. 18.	Mar. 29.	Apr. 5.	Apr. 12.	Apr. 19.		
District No. 2-New York: Albany, N. Y. Binghamton, N. Y. Bufialo, N. Y. Elmira, N. Y. Jamestown, N. Y. Montclair, N. J. New York, N. Y. New York, N. Y.	25, 021 3, 987 60, 305 3, 634 3, 652 2, 520 56, 552 4, 572, 565	46, 456 4, 952 75, 466 3, 951 4, 320 2, 661 65, 965 4, 892, 19 6	$\begin{array}{c} 20,455\\ 5,049\\ 68,949\\ 3,861\\ 4,227\\ 2,747\\ 59,321\\ 4,634,721 \end{array}$	$\begin{array}{r} 28,938\\ 5,525\\ 78,633\\ 4,553\\ 4,734\\ 3,483\\ 65,996\\ 5,029,019\end{array}$	24, 259 3, 504 49, 517 2, 857 2, 814 2, 207 45, 600 4, 379, 457	$\begin{array}{r} \textbf{43, 136} \\ \textbf{4, 419} \\ \textbf{64, 950} \\ \textbf{3, 077} \\ \textbf{4, 035} \\ \textbf{2, 689} \\ \textbf{58, 676} \\ \textbf{4, 990, 529} \end{array}$	25, 802 4, 149 58, 618 2, 890 3, 725 2, 336 48, 532 4, 614, 420	23, 137 4, 338 59, 919 3, 086 3, 778 2, 560 52, 370 4, 903, 158		
Association Passaic, N. J. Rochester, N. Y. Stamford, Conn. Syracuse, N. Y.	34, 492 6, 582 29, 768 2, 265 14, 047	39,071 6,297 44,580 3,085 17,836	36, 973 7, 582 33, 944 3, 053 14, 464	40, 309 8, 573 36, 439 3, 210 16, 796	30, 053 4, 785 26, 402 1, 987 10, 714	37, 701 5, 548 35, 915 2, 523 16, 403	31, 395 5, 974 28, 582 2, 402 14, 762	31, 220 5, 384 31, 840 2, 299 15, 361		
District No. 2-New York: Albany, N. Y. Binghamton, N. Y. Buffalo, N. Y. Jamestown, N. Y. Jamestown, N. Y. Montclair, N. J. New York, N. Y. Northern New Jersey Clearing House Association Passale, N. J. Rochester, N. Y. Stamford, Conn. Syracuse, N. Y. District No. 3-Philadelphia: Allentown, Pa. Camden, N. J. Chester, Pa. Harrisburg, Pa. Lancaster, Pa. Lancaster, Pa. Lancaster, Pa. Lancaster, Pa. Norristown, Pa. Norristown, Pa. Norristown, Pa. Norristown, Pa. Norristown, Pa. Norristown, Pa. Maldelphia, Pa. Reading, Pa. Scranton, Pa. Wilkies-Barre, Pa. Wilkies-Barre, Pa. Wilkinghon, Del. York, Pa District No. 4-Cleveland: Akron, Ohio. Butler, Pa	$\begin{array}{c} 6,585\\ 4,239\\ 10,069\\ 4,426\\ 7,666\\ 2,552\\ 5,309\\ 6,331\\ 1,481\\ 894\\ 348,507\\ 8,724\\ 19,530\\ 11,296\\ 11,296\\ 11,296\\ 11,296\\ 3,762\\ 7,967\\ 3,917\\ \end{array}$	$\begin{array}{c} 8,769\\ 3,715\\ 11,581\\ 4,939\\ 8,881\\ 3,109\\ 5,612\\ 13,537\\ 2,188\\ 893\\ 373,785\\ 10,489\\ 17,526\\ 11,930\\ 10,106\\ 4,528\\ 9,603\\ 6,150\\ \end{array}$	$\begin{array}{c} 7,134\\ 4,446\\ 9,890\\ 5,111\\ 9,028\\ 2,843\\ 2,843\\ 6,026\\ 8,099\\ 1,872\\ 934\\ 341,301\\ 10,130\\ 17,900\\ 12,864\\ 4,217\\ 7,937\\ 4,314 \end{array}$	$\begin{array}{c} 7,850\\ 4,370\\ 11,754\\ 5,798\\ 9,168\\ 3,022\\ 5,725\\ 6,807\\ 1,723\\ 903\\ 386,532\\ 16,552\\ 17,012\\ 10,975\\ 4,568\\ 8,258\\ 8,258\\ 4,791\end{array}$	$\begin{array}{c} 5,452\\ 3,038\\ 8,402\\ 3,766\\ 6,209\\ 2,183\\ 4,376\\ 5,096\\ 1,109\\ 608\\ 283,444\\ 6,822\\ 14,888\\ 9,335\\ 8,592\\ 3,758\\ 8,592\\ 3,758\\ 6,959\\ 4,114\end{array}$	$\begin{array}{c} 7, 633\\ 2, 478\\ 9, 762\\ 4, 431\\ 7, 224\\ 0, 552\\ 11, 556\\ 11, 556\\ 1, 556\\ 2, 194\\ 7, 741\\ 329, 194\\ 329, 194\\ 14, 482\\ 10, 888\\ 9, 118\\ 5, 233\\ 7, 888\\ 7, 390 \end{array}$	$\begin{array}{c} 5,918\\ 3,457\\ 9,712\\ 3,950\\ 8,192\\ 2,223\\ 4,501\\ 6,278\\ 1,443\\ 7,739\\ 297,291\\ 7,743\\ 16,952\\ 12,66\\ 28,827\\ 4,111\\ 6,337\\ 4,650\end{array}$	$\begin{array}{c} 6,295\\ 3,143\\ 10,624\\ 4,265\\ 7,231\\ 2,249\\ 4,424\\ 5,331\\ 1,321\\ 7,89\\ 307,077\\ 7,928\\ 10,846\\ 8,010\\ 4,150\\ 6,938\\ 4,685\\ \end{array}$		
York, Pa. District No. 4Cleveland: Akron, Ohio. Butler, Pa. Canton, Ohio. Cincinnati, Ohio. Cincinnati, Ohio. Cincinnati, Ohio. Columbus, Ohio. Connellsville, Pa. Dayton, Ohio. Erie, Fa. Greensburg, Pa. Homestead, Pa. Lexington, Ky. Lima, Ohio. Lorain, Ohio. New Brighton, Pa. Oil City, Pa. Pittsburgh, Pa. Springfield, Ohio. Toledo, Ohio. Wheeling, W. Va. Youngstown, Ohio. Zanesville, Ohio. District No. 5-Richmond: Asheville, N. C. Baltimore, Md. Charleston, S. C. Columbia, S. C. Cumberland, Md. Danville, Va.	$\begin{array}{c} 20,084\\ 2,454\\ 10,041\\ 12,454\\ 12,451\\ 125,191\\ 22,493\\ 1,397\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 14,727\\ 13,335\\ 0,693\\ 14,283\\ 33,850\\ 2,791\\ 14,283\\ 33,850\\ 2,791\\ 9,694\\ 12,782\\ 2,673\\ 2,673\end{array}$	$\begin{array}{c} 17, 432\\ 3, 003\\ 10, 984\\ 891\\ 172, 847\\ 1, 289\\ 17, 550\\ 17, 550\\ 17, 550\\ 7, 019\\ 4, 798\\ 6, 057\\ 4, 772\\ 1, 291\\ 2, 570\\ 2, 838\\ 188, 680\\ 18, 680\\ 4, 511\\ 43, 352\\ 3, 321\\ 11, 130\\ 20, 113\\ 3, 180\\ \end{array}$	$\begin{array}{c} 20,579\\ 2,780\\ 12,098\\ 94,520\\ 192,674\\ 443,575\\ 1,441\\ 17,218\\ 7,264\\ 7,264\\ 4,330\\ 5,776\\ 4,333\\ 1,708\\ 2,664\\ 3,309\\ 185,614\\ 5,381\\ 45,422\\ 3,212\\ 12,915\\ 19,097\\ 3,353\end{array}$	$\begin{array}{c} 17,970\\ 2,682\\ 11,032\\ 15,873\\ 39,605\\ 1,409\\ 17,342\\ 7,632\\ 5,545\\ 6,648\\ 4,021\\ 1,405\\ 2,920\\ 3,532\\ 198,632\\ 4,021\\ 1,405\\ 5,545\\ 4,382\\ 3,924\\ 12,255\\ 14,556\\ 3,342\\ \end{array}$	$\begin{array}{c} 11, 319\\ 1, 553\\ 6, 161\\ 6, 4428\\ 92, 507\\ 23, 297\\ 976\\ 10, 279\\ 4, 761\\ 3, 529\\ 4, 761\\ 2, 5, 716\\ 2, 5, 716\\ 2, 5, 716\\ 808\\ 1, 756\\ 2, 114\\ 136, 384\\ 1, 977\\ 7, 526\\ 8, 910\\ 2, 131\\ \end{array}$	$\begin{matrix} 14,695\\ 2,588\\ 9,682\\ 88,358\\ 183,569\\ 226,078\\ 226,078\\ 3,744\\ 13,909\\ 5,628\\ 4,879\\ 3,135\\ 1,262\\ 1,905\\ 2,551\\ 1,265\\ 3,790\\ 31,867\\ 2,715\\ 8,575\\ 11,959\\ 2,430\end{matrix}$	$\begin{matrix} 14, 128\\ 2, 344\\ 9, 102\\ 79, 892\\ 146, 025\\ 33, 190\\ 1, 032\\ 12, 217\\ 5, 969\\ 3, 636\\ 4, 559\\ 3, 614\\ 1, 302\\ 1, 973\\ 2, 450\\ 155, 284\\ 4, 738\\ 37, 119\\ 1, 954\\ 7, 901\\ 12, 861\\ 2, 979\end{matrix}$	$\begin{array}{c} 12,367\\ 2,158\\ 7,550\\ 67,296\\ 117,522\\ 30,206\\ 1,024\\ 12,683\\ 5,565\\ 5,133\\ 629\\ 4,378\\ 2,878\\ 1,217\\ 1,597\\ 2,525\\ 152,467\\ 4,194\\ 34,591\\ 2,595\\ 8,127\\ 9,903\\ 2,443\\ \end{array}$		
District No. 5-Richmond: Asheville, N. C. Baltimore, Md. Charleston, S. C. Charleston, W. Va. Charlotte, N. C. Columbia, S. C. Columbia, S. C. Cumberland, Md. Danville, Va. Durham, N. C. Greensboro, N. C. Greensboro, N. C. Hagerstown, Md. Huntington, W. Va. Lynchburg, Va. Newport News, Va. Newport News, Va. Newport News, Va. Norfolk, Va Raleigh, N. C. Richmond, Va. Spartanburg, S. C. Washington, N. C. Wilmington, N. C.	$\begin{array}{c} 4,271\\ 80,400\\ 6,150\\ 8,977\\ 8,970\\ 6,000\\ 2,393\\ 1,745\\ 3,803\\ 4,451\\ 5,256\\ 2,178\\ 5,517\\ 4,55517\\ 4,55517\\ 5,517\\ 4,55,700\\ 2,7381\\ 1,759\\ 2,784\\ 4,759\\ 2,784\\ 40,904\\ 4,904\\ 4,904\\ \end{array}$	$\begin{array}{c} 4,606\\ 93,700\\ 6,730\\ 8,630\\ 10,109\\ 6,057\\ 2,462\\ 2,451\\ 3,470\\ 4,761\\ 5,017\\ 3,478\\ 6,189\\ 4,659\\ 1,937\\ 20,473\\ 6,400\\ 28,363\\ 5,873\\ 2,658\\ 47,256\\ 5,581\end{array}$	5,029 85,021 7,081 8,722 9,062 5,412 2,204 4,551 4,913 2,685 6,015 4,722 1,927 6,350 25,321 3,081 46,361 5,367	$\begin{array}{c} 4,557\\ 91,335\\ 7,001\\ 11,405\\ 9,574\\ 5,300\\ 2,667\\ 1,980\\ 4,912\\ 4,912\\ 4,912\\ 4,453\\ 2,874\\ 4,853\\ 2,874\\ 4,853\\ 2,874\\ 4,853\\ 2,874\\ 3,874\\ 3,873\\ 2,9022\\ 16,866\\ 7,000\\ 30,119\\ 5,810\\ 2,413\\ 47,328\\ 3,873\\ 3,872\\ 3,872\\ 3,872\\ 3,872\\ 3,872\\ 3,872\\ 3,872\\ 3,872\\ 3,872\\ 3,872\\ 3,872\\ 3,872\\ 3,8$	$\begin{array}{c} 3,200\\ 70,050\\ 4,564\\ 5,805\\ 5,605\\ 4,771\\ 1,601\\ 1,634\\ 2,633\\ 3,016\\ 1,775\\ 3,773\\ 2,872\\ 2,872\\ 1,486\\ 13,824\\ 3,900\\ 21,166\\ 3,765\\ 2,333\\ 38,511\\ 3,889\\ \end{array}$	4,058 92,773 6,480 6,581 6,095 7,368 1,907 2,230 4,088 3,279 2,672 4,526 4,526 4,526 4,526 4,526 4,526 4,526 4,527 1,975 44,219 6,044	$\begin{array}{c} 4,335\\ 80,736\\ 80,736\\ 6,100\\ 6,325\\ 5,332\\ 4,521\\ 1,878\\ 2,021\\ \hline \\ 3,599\\ 3,499\\ 2,079\\ 4,238\\ 4,544\\ 1,492\\ 15,596\\ 4,200\\ 22,706\\ 4,200\\ 22,706\\ 3,866\\ 3,866\\ 3,866\\ 4,200\\ 24,705\\ 44,888\\ 4,888\\ 4,888\\ \end{array}$	$\begin{array}{c} 4,070\\ 81,193\\ 6,800\\ 6,966\\ 8,244\\ 4,400\\ 1,967\\ 1,474\\ 3,454\\ 3,454\\ 1,818\\ 4,368\\ 3,978\\ 1,619\\ 14,539\\ 4,100\\ 26,682\\ 5,164\\ 1,787\\ 42,039\\ 4,731\\ \end{array}$		

DEBITS TO INDIVIDUAL ACCOUNTS BY BANKS IN SELECTED CITIES-Continued.

DATA FOR EACH CITY-Continued.

		199 Week ei	2 3 1ding			19 Week ei		
	Mar. 28.	Apr. 4.	Apr. 11.	Apr. 18.	Mar. 29.	Apr. 5.	Apr. 12.	Apr. 19.
District No. 6—Atlanta: Albany, Ga. Atlanta, Ga. Birmingham, Ala. Brunswick, Ga. Chattanooga, Tenn Columbus, Ga. Cordele, Ga. Dothan, Ala. Elberton, Ga. Jackson, Miss. Jackson, Miss. Jackson, Wiss. Macon, Ga. Morile, Fla. Knoxville, Tenn Macon, Ga. Mobile, Ala. Mobile, Ala. Nashville, Tenn Newnan, Ga. Newnan, Ga. Savannah, Ga. Tampa, Fla. Valdosta, Ga. Vicksburg, Miss. District No. 7—Chicago: Adrin. Mich.	960	1 100	1 044	960	833	922	823	986
Atlanta, Ga.	28,236 7,827	1,190 33,560	1,044 29,030	32,395 6,453	22,686 4,425	26,027	23, 320 4, 966	25, 305 5, 053
Birmingham, Ala	22,399	7,990 25,557	6,846 23,445	24,768	14,637	6,772 17,733	14,456 588	17,034 539
Chattanooga, Tenn	580 7,529	675 9,152	657 8,472	625 9,423	$469 \\ 5,602 \\ 1,011$	588 7,944	6,252 2,524	7,324 2,487
Cordele, Ga	$2,561 \\ 248$	2,852 278	2,557 264	2,926 259	1,911 197	2,505 286	236	216
Elberton, Ga.	553 192	650 231	633 222	645 201	$\begin{array}{c} 557\\172\end{array}$	553 361	500 229	439 214
Jackson, Miss Jacksonville, Fla	2,843 11,862	$3,254 \\ 13,785$	3,345 14,132	2,997 14,689	2,134 12,298	3,006 12,149	3,067 11,131	2,344 11,598
Knoxville, Tenn Macon, Ga	6,352 4,182	7,042	6, 198 4, 666	7,782 4,938	5,625 2,793	5,937 3,923	6,339 4,204	7,086 4,193
Meridian, Miss Mobile, Ala	2,744 6,591	2,184 6,946	$2,372 \\ 7,025$	$2,381 \\ 6,951$	1,467 5,607	1, 991 6, 199	1,836 4,387	1,976 6,414
Montgomery, Ala Nashville, Tenn	4,845 15,706	4,794 17,462	5,025 • 17,368	$5,634 \\ 17,647$	3, 185 13, 188	3,957 15,503	3,589 15,938	3, 521 16, 372
Newnan, Ga New Orleans, La	381 69,099	430 68, 103	525 61, 208	401 68,687	337 49,109	319 60, 651	$275 \\ 54,317$	287 55,367
Pensacola, Fla.	1,286	1,613	1,590	1,723 9,179	1,083 8,742	1,623 10,997	1,790 9,200	2,551 9,291
Tampa, Fla.	8,111 7,111	9,716 8,465	8,811 7,986	8, 180	4,842 764	6,448 855	5,863 937	5,841 912
Valdosta, Ga Vicksburg, Miss	1,049 1,443	940 1,375	1,095 1,560	$1,146 \\ 1,486$	1,098	1,298	937 1,409	1,241
District No. 7—Chicago: Adrian, Mich	688	763	895	960	565	752	727	782
Adrian, Mich. Aurora, Ill. Bay City, Mich. Bioomington, Ill. Cedar Rapids, Iowa.	$3,130 \\ 2,449$	$3,915 \\ 2,221$	$3,413 \\ 2,187$	$3,569 \\ 2,163$	2,396 2,198	2,555 2,301	$3,264 \\ 2,501$	2,839 2,191
Bloomington, Ill Cedar Rapids, Iowa	2,616 5,888	3, 436 9, 118	$2,910 \\ 6,524$	3,066 6,347	2,219 4,614	$3,192 \\ 7,532$	2,257 5,313	2,485 4,969
Chicago, Ill. Danville, Ill	648, 516 4, 100	792, 087 4, 700	637, 205 4, 100	715,947 3,700	614,962 2,900	738,352 4,400	550,088 2,500	611, 174 2, 900
Davenport, lowa	6,806	9,168 3,959	7,458 3,314	$8,290 \\ 3,557$	6,410 2,946	10,375 3,437	7, 173 3, 041	7,135 2,759
Deca Moines, Iowa	3,503 17,341	19,367	20,979	22,009	13,821	17,232	16,079	15,231 124,731
Dubuque, Iowa	150,193 2,888 7,010	$133,876 \\ 3,237$	140,820 3,533	173,762 3,483	110,540 2,806	114,673 2,950	99,334 2,994	2,771
Flint, Mich Fort Wayne, Ind	$7,010 \\ 7,867$	7,070 9,187	8,718 8,265	8,284 8,800	4,990 5,974	8,010 6,821	7,884 6,708	10, 199 7, 130
Decator in Detroit, Mich. Dubuque, Iowa. Flint, Mich. Fort Wayne, Ind. Grand Rapids, Mich. Green Bay, Wis. Hammond, Ind. Indianapolis, Ind. Jackson, Mich. Kalamazoo, Mich. Lansing, Mich. Mason City, Iowa. Milwaukee, Wis. Moline, Ill. Muscatine, Iowa. Oshkosh, Wis. Peoria, Ill. Rockford, Ill. Saginaw, Mich.	4,190 14,972	$3,232 \\ 15,420$	4,249 15,115	3,477 16,281	2,760 13,344	$1,910 \\ 13,452$	2, 835 13, 219	2,515 13,837
Green Bay, Wis Hammond, Ind	2,732 4,190	2,812 3,280	2,815 3,600	2,561 4,220				· · · · · · · · · · · · · · · · · ·
Indianapolis, Ind Jackson, Mich	$32,042 \\ 5,863$	34, 424 4, 890	$33,966 \\ 4,935$	40,067 4,936	46,226 3,466	30, 380 3, 098	30,599 3,240	30,153 3,376
Kalamazoo, Mich.	4,782 8,900	5,327 8,500	4,969 9,200	4,792 9,000	3,585 4,264	4,229 6,592	4,089 4,831	$3,864 \\ 5,224$
Mason City, Iowa	2,201	2,600	2,546	2,302 70,357	1,852 59,929	2,609 49,568	1,972 52,493	2,533 55,905
Moline, Ill	59,984 1,304	56,702 2,991 1,459	67,057 2,084	2,184	1,548	2,496	1,979	2,684 1,079
Oshkosh, Wis.	1,519 2,600	2,700	$1,914 \\ 2,800$	1,390 2,700	$1,182 \\ 1,800$	1,309 2,100	1,512 2,300	2,000
Rockford, III.	7,978 5,164	10,309 6,887	8,640 5,726	9,981 6,230	5,585 4,078	9,251 5,907	7,189 4,806	7,559 4,790
Saginaw, Mich Sioux City, Iowa South Bend, Ind	16,625	4, 156 19, 210	5,749 19,717	6,573 18,548	15,580	17,168	15,774	14,078
South Bend, Ind Springfield, Ill Terre Haute, Ind	8,637 6,068	7,870 6,620	10,303 6,266	$8,511 \\ 7,054$	5,873 4,645	6,665 7,001	6,415 5,753	6,462 6,256
Terre Haute, Ind Waterloo, Iowa	6,031 4,233	5,217 4,524	$ \begin{array}{r} 6,181 \\ 4,067 \end{array} $	5,396 4,345	2,977	3,797	3,571	3,775
Waterloo, Iowa District No. 8-St. Louis: East St. Louis and National Stock Yards,	,			,				
Ill. Eldorado, Ark	$8,615 \\ 3,472$	9,330 3,564	10, 301 3, 596	10,048 3,744	7,665	8,757	9,284	8,009
Evansville, Ind Fort Smith, Ark	6, 506 2, 379	6, 145 3, 302	7, 041 3, 060	3, 744 8, 331 2, 826	5, 760	5, 189	5,359	6,512
Greenville, Miss	889	884	923 1,199	933 1,058	751 751	947 833	1,086 950	748 826
Helena, Ark. Little Rock, Ark.	1,047 12,907	1,087 13,568	16,603	14,136	7.731	8,287	10,058	9,023 34,275
Louisville, Ky Memphis, Tenn	$\begin{array}{c} 12, 507 \\ 33, 259 \\ 38, 747 \\ 1, 280 \\ 2, 032 \\ 1, 032 \end{array}$	35, 278 43, 402	36,372 33,182	40,879 34,612	28,130 18,255	29, 761 24, 931	30, 435 24, 387	22,464
Owensboro, Ky Quincy, Ill	1,280 2,032	1,684 2,979	1,461 3,365	1,674 2,720	$1,139 \\ 2,019$	1,288 3,009	1,156 2,059	1,270 1,951
St. Louis, Mo Springfield, Mo	143,957 2,812	159,176 3,028	150, 892 3, 391	169,944 3,432	112,203 2,410	133,082 3,011	$131,022 \\ 3,115$	132,051 3,122
District No. 9-Minneapolis: Aberdeen, S. Dak	1,135	1,271	1,308	1,248	937	1,337	1,188	1,366
Billings, Mont. Dickinson N. Dak	1,730 269	1,764 290	1,970 317	1,964	$1,200 \\ 155$	1,791 227	1,629 266	1, 489 426
Owensboro, Ky. Quincy, III. St. Louis, Mo. Springfield, Mo. District No. 9Minneapolis: Aberdeen, S. Dak. Billings, Mont. Dickinson, N. Dak. Duluth, Minn. Fargo, N. Dak. Grand Forks, N. Dak.	11,904	$13,121 \\ 2,692$	16,423	18,714 2,963 1,885	11,019 1,866	12, 444 2, 370	11,554	10,634 2,572
Grand Forks, N. Dak	2,135 1,671	1,759	3, 186 2, 111	1, 885	1,075	1,379	2,465 1,521	1,621

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DEBITS TO INDIVIDUAL ACCOUNTS BY BANKS IN SELECTED CITIES-Continued.

DATA FOR EACH CITY-Continued.

		19 Week e			1922 Week ending				
	Mar. 28.	Apr. 4,	Apr. 11.	Apr. 18.	Mar. 29.	Apr. 5.	Apr. 12.	Apr. 19.	
District No. 9—Minneapolis—Continued. Helena, Mont Jamestown, N. Dak La Crosse, Wis. Lewistown, Mont Minneapolis, Minn Minot, N. Dak. Red Wing, Minn St. Paul, Minn St. Paul, Minn St. Paul, Minn. District No. 10—Kansas City: Atchison, Kans Bartlesville, Okla. Casper, Wyo. Cheyenne, Wyo Cheyenne, Kans Brid, Okla. Fremont, Nebr. Grand Junction, Colo. Guthrie, Okla. Hutchinson, Kans. Independence, Kans Joplin, Mo Kansas City. Kans.	$\begin{array}{c} 2,017\\ 346\\ 2,703\\ 968\\ 64,790\\ 788\\ 344\\ 32,881\\ 3,623\\ 1,880\\ 850\\ \end{array}$	$1, 888 \\ 647 \\ 2, 631 \\ 1, 107 \\ 69, 407 \\ 1, 075 \\ 447 \\ 40, 807 \\ 3, 863 \\ 1, 921 \\ 1, 165 \\ 162 \\ 1, 165 \\ 100 \\ 100 \\ 1, 100 \\ 100 \\ 1, 100 \\ 100 \\ 1,$	1, 933 598 3, 021 1, 016 74, 118 1, 029 511 37, 557 3, 840 1, 785 1, 135	$\begin{array}{c} 2,115\\ 587\\ 2,909\\ 1,175\\ 79,445\\ 902\\ 537\\ 42,741\\ 3,600\\ 1,974\\ 1,058\end{array}$	1, 491 293 621 55, 988 771 435 30, 973 2, 490 1, 567 760	2, 320 328 794 62, 010 537 32, 872 3, 455 1, 470 1, 063	2, 136 500 61, 586 1, 132 466 31, 398 3, 150 1, 533 1, 059	2, 025 470 67, 890 67, 890 872 457 35, 665 2, 797 1, 751 872	
District No. 10—Kansas City: Atchison, Kans. Bartlesville, Okla. Casper, Wyo. Cheyenne, Wyo. Colorado Springs, Colo. Denver, Colo. Finid Okla	1, 291 2, 717 3, 159 1, 909 3, 191 35, 601 2, 888	1, 328 3, 759 3, 801 3, 374 • 3, 179 40, 795 3, 398	1, 391 2, 862 4, 185 2, 513 3, 136 39, 356 3, 379	1,613 4,665 3,982 1,985 3,188 38,387 3,189	1, 300 2, 006 2, 901 1, 785 2, 155 35, 470	1, 187 2, 785 2, 442 1, 690 3, 031 38, 374	1, 231 2, 304 2, 321 1, 508 2, 563 29, 065	1,260 2,575 2,578 1,490 2,357 29,743	
Kansas City, Mo Lawrence, Kans McAlester, Okla Muskogee, Okla Oklahoma City, Okla Oklahoma City, Okla Omaha, Nebr Parsons, Kans Pittsburg, Kans Pueblo, Colo St. Joseph, Mo Topeka, Kans Tulsa, Okla Wichita, Kans	$75, 124 \\ 891 \\ 810 \\ 5, 935 \\ 19, 972 \\ 2, 329 \\ 47, 118 \\ 850 \\ 1, 311 \\ 5, 079 \\ 14, 645 \\ 3, 513 \\ 26, 537 \\ 9, 285 \\ \end{cases}$	$\begin{array}{c} 3,398\\ 1,124\\ 1,737\\ 879\\ 2,608\\ 3,039\\ 3,584\\ 4,421\\ 79,215\\ 79,215\\ 79,215\\ 79,215\\ 79,215\\ 79,6357\\ 18,652\\ 2,689\\ 51,913\\ 1,012\\ 1,274\\ 4,034\\ 15,408\\ 3,421\\ 15,408\\ 3,421\\ 15,408\\ 3,421\\ 10,88\\ 1,088\\$	$\begin{array}{c} 3,379\\ 1,079\\ 1,475\\ 753\\ 2,615\\ 1,870\\ 3,814\\ 4,301\\ 76,996\\ 1,169\\ 940\\ 5,987\\ 18,435\\ 2,415\\ 5,987\\ 1,269\\ 6,185\\ 5,094\\ 1,269\\ 6,185\\ 15,094\\ 4,336\\ 6,185\\ 15,094\\ 4,336\\ 27,604\\ 10,728\end{array}$	3, 180 880 1, 355 7,53 2, 853 3, 287 4,016 5,097 90,163 1,061 1,229 6,915 19,389 2,527 53,207 7,58 1,606 3,203 1,604 4,498 27,867 10,729	953 500 461 2, 155 2, 058 3, 419 56, 433 846 780 5, 578 20, 568 2, 003 39, 531 39, 531 39, 538 1, 279 4, 050 10, 738 2, 406 8, 442	$\begin{array}{c} 951\\ 1,293\\ 596\\ 596\\ 2,756\\ 1,596\\ 2,227\\ 3,272\\ 59,077\\ 948\\ 901\\ 5,579\\ 21,046\\ 1,328\\ 47,832\\ 47,832\\ 47,832\\ 47,832\\ 47,832\\ 1,040\\ 4,418\\ 13,660\\ 3,247\\ 16,504\\ 9,086\end{array}$	$\begin{array}{r} 943\\ 1,063\\ 682\\ 553\\ 2,316\\ 1,715\\ 2,563\\ 3,527\\ 65,308\\ 1,068\\ 1,688\\ 1,688\\ 1,688\\ 1,688\\ 1,676\\ 1,838\\ 41,220\\ 763\\ 1,525\\ 4,186\\ 15,737\\ 3,872\\ 25,574\\ 8,642\\ \end{array}$	$\begin{array}{c} 741\\ 1, 217\\ 667\\ 533\\ 2, 421\\ 2, 835\\ 2, 443\\ 3, 412\\ 78, 058\\ 878\\ 1, 042\\ 5, 441\\ 20, 175\\ 2, 408\\ 40, 484\\ 4, 810\\ 1, 085\\ 3, 819\\ 12, 840\\ 2, 732\\ 20, 784\\ 20, 784\\ 9, 199\\ 9, 199\\ \end{array}$	
Albuquerque, N. Mex. Austin, Tex. Beaumont, Tex. Corsicana, Tex. Dallas, Tex. El Paso, Tex. Fort Worth, Tex. Galveston, Tex. Roswell, N. Mex. San Antonio, Tex. Shreveport, La. Texarkana, Tex. Tucson, Ariz. Waco, Tex.	$\begin{array}{c} 1, 822\\ 3, 024\\ 3, 153\\ 920\\ 32, 243\\ 6, 885\\ 23, 887\\ 18, 515\\ 21, 655\\ 21, 655\\ 21, 497\\ 6, 062\\ 8, 664\\ 2, 228\\ 3, 684\\ 2, 3, 037\\ \end{array}$	$\begin{array}{c} 2, 125\\ 2, 802\\ 3, 204\\ 1, 013\\ 34, 584\\ 7, 333\\ 24, 717\\ 15, 596\\ 29, 556\\ 6, 29, 556\\ 6, 227\\ 8, 282\\ 1, 387\\ 1, 758\\ 3, 323\\ \end{array}$	$\begin{array}{c} 2,089\\ 5,069\\ 3,831\\ 1,470\\ 34,739\\ 7,271\\ 25,431\\ 20,046\\ 22,328\\ 615\\ 7,431\\ 7,930\\ 1,882\\ 2,010\\ 3,572\end{array}$	$\begin{array}{c} 2,319\\ 3,784\\ 4,163\\ 1,582\\ 36,339\\ 9,381\\ 24,534\\ 30,169\\ 24,534\\ 504\\ 558\\ 7,395\\ 8,149\\ 3,407\\ 1,675\\ 3,413\end{array}$	$\begin{array}{c} 1,513\\ 2,645\\ 2,700\\ 813\\ 29,198\\ 6,239\\ 30,876\\ 13,967\\ 23,037\\ 3,067\\ 5,183\\ 6,493\\ 1,254\\ 1,254\\ 1,339\\ 2,451\\ \end{array}$	$\begin{array}{c} 2, 104\\ 3, 569\\ 3, 220\\ 1, 007\\ 32, 442\\ 6, 735\\ 31, 961\\ 18, 168\\ 25, 605\\ 5, 480\\ 6, 628\\ 1, 127\\ 1, 547\\ 3, 504 \end{array}$	$\begin{array}{c} 1,751\\ 3,279\\ 3,218\\ 1,290\\ 31,727\\ 6,987\\ 30,100\\ 13,163\\ 21,812\\ 625\\ 6,141\\ 7,372\\ 1,494\\ 1,402\\ 3,150\\ \end{array}$	$\begin{array}{c} 1, 889\\ 2, 932\\ 3, 630\\ 1, 416\\ 32, 777\\ 7, 012\\ 29, 460\\ 14, 114\\ 24, 170\\ 6, 682\\ 7, 109\\ 1, 942\\ 1, 897\\ 3, 180\\ \end{array}$	
District No. 12-San Francisco: Bakersfield, Calif. Bellingham, Wash. Berkeley, Calif. Boise, Idaho. Eugene, Oreg. Fresno, Calif. Long Beach, Calif. Long Beach, Calif. Oakland, Calif. Oakland, Calif. Phoenix, Ariz. Portland, Oreg. Reno, Nev. Ritzville, Wash. Sacramento, Calif. San Bernardino, Calif. San Diego, Calif. San Jose, Calif. Seattle, Wash. Stockton, Calif. Tacoma, Wash. Yakima, Wash.	1, 4983, 5512, 4282, 07110, 34212, 623145, 381	$\begin{array}{c} 3,372\\ 2,096\\ 3,973\\ 3,973\\ 2,901\\ 12,136\\ 11,021\\ 14,321\\ 161,132\\ 161,132\\ 30,896\\ 7,093\\ 7,016\\ 4,083\\ 33,973\\ 2,307\\ 135\\ 8,673\\ 13,613\\ 1,384\\ 11,508\\ 172,270\\ 5,177\\ 38,411\\ 9,812\\ 2,793\\ 7,937\\ 2,394\\ \end{array}$	$\begin{array}{c} 2,766\\ 2,182\\ 4,075\\ 2,850\\ 2,736\\ 12,263\\ 13,276\\ 154,603\\ 29,865\\ 7,442\\ 6,879\\ 4,343\\ 37,708\\ 2,175\\ 181\\ 7,691\\ 1,717\\ 9,973\\ 179,005\\ 6,061\\ 1,812\\ 41,832\\ 12,420\\ 5,816\\ 8,653\\ 2,278\end{array}$	$\begin{array}{c} 2,750\\ 2,508\\ 3,986\\ 2,867\\ 2,329\\ 11,698\\ 13,599\\ 161,838\\ 31,308\\ 8,246\\ 7,165\\ 4,451\\ 38,044\\ 2,227\\ 130\\ 8,761\\ 1,724\\ 10,288\\ 90,452\\ 6,704\\ 42,410\\ 12,108\\ 5,844\\ 42,410\\ 12,108\\ 5,844\\ 42,410\\ 12,108\\ 5,844\\ 42,410\\ 12,108\\ 5,844\\ 42,410\\ 12,108\\ 5,844\\ 42,410\\ 12,108\\ 5,844\\ 42,410\\ 12,108\\ 5,844\\ 42,410\\ 12,108\\ 5,844\\ 42,410\\ 12,108\\ 5,844\\ 42,410\\ 12,108\\ 5,844\\ 42,764\\ 5,844\\ 42,764\\ 5,844\\ 5,$	$\begin{array}{c} 2,564\\ 1,289\\ 3,390\\ 3,390\\ 2,181\\ 1,361\\ 9,006\\ 5,842\\ 100,277\\ 10,277\\ 10,277\\ 10,277\\ 10,277\\ 10,277\\ 10,277\\ 10,277\\ 25,522\\ 2,672\\ 22,672\\ 22,672\\ 22,672\\ 22,672\\ 22,672\\ 11,615\\ 11,003\\ 1,346\\ 7,948\\ 134,544\\ 4,463\\ 33,086\\ 33,086\\ 7,617\\ 7,617\\ 7,385\\ 2,190\end{array}$	$\begin{array}{c} 3, 537\\ 1, 377\\ 4, 247\\ 2, 731\\ 1, 345\\ 7, 150\\ 8, 852\\ 7, 152\\ 8, 142\\ 8, 872\\ 4, 130\\ 32, 370\\ 2, 256\\ 133\\ 8, 752\\ 2, 256\\ 139\\ 16, 164\\ 13, 562\\ 139\\ 16, 164\\ 13, 562\\ 139\\ 16, 164\\ 4, 733\\ 32, 375\\ 9, 084\\ 4, 733\\ 32, 375\\ 9, 084\\ 5, 291\\ 2, 583\\ \end{array}$	$\begin{array}{c} 2,571\\ 1,459\\ 4,101\\ 2,200\\ 15,749\\ 6,812\\ 106,864\\ 19,015\\ 3,512\\ 6,425\\ 3,715\\ 35,967\\ 2,153\\ 146\\ 17,652\\ 1,743\\ 11,576\\ 153,105\\ 4,194\\ 40,749\\ 10,782\\ 5,692\\ 2,624 \end{array}$	$\begin{array}{c} 2, 467\\ 1, 679\\ 3, 572\\ 2, 085\\ 10, 174\\ 7, 036\\ 114, 891\\ 20, 025\\ 4, 284\\ 6, 437\\ 3, 760\\ 32, 639\\ 2, 131\\ 7, 026\\ 11, 925\\ 1, 502\\ 9, 756\\ 11, 925\\ 1, 502\\ 9, 756\\ 11, 925\\ 1, 5581\\ 4, 170\\ 34, 977\\ 11, 130\\ 9, 351\\ 2, 837\\ \end{array}$	

FEDERAL RESERVE CLEARING SYSTEM.

OPERATIONS DURING MARCH, 1923.

[Numbers in thousands. Amounts in thousands of dollars.]

	Items	s drawn or in own o			Items drawn		Items drawn on Treasurer					war	ns for- ded to	war	as for- ded to	Tota	l items du	handled, i plications.	ncluding	Number of member		Number of nonmember banks at end of month.			
Federal reserve bank or branch.	resei	Federal ve bank anch city.	eral ba	de Fed- reserve nk or ch city.	of U	reasurer Inited ates.	sive o	ed, exclu- f duplica- ions.	reserv and	Federal e banks their nches.	or to l in sa	t banks branches me dis- ict.	Nun	aber.	Amo	unt.	bank end mor	cs at l of	On pa	ır list.	Not on p list.1	ar			
	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 192	22			
Boston. New York. Buffalo. Philadelphia. Cleveland. Cincinnati. Pittsburgh. Richmond. Baltimore. Atlanta. Birmingham. Jackson ville. Nashville. Nashville. Detroit. St. Louis. Little Rock. Louisville. Memphis. Minneapolis. Helena. Kansas City. Denver. Oklahoma City. Omaha. Dallas. El Paso. Houston. San Francisco. Los Angeles. Portland. Spokane Total: March Ebroary	$\begin{array}{c} 246\\ 240\\ 1, 183\\ 806\\ 2200\\ 630\\ 147\\ 322\\ 333\\ 66\\ 143\\ 143\\ 66\\ 147\\ 775\\ 737\\ 398\\ 85\\ 321\\ 134\\ 495\\ 321\\ 134\\ 495\\ 321\\ 134\\ 453\\ 286\\ 288\\ 529\\ 82\\ 282\\ 62\\ 125\\ 559\\ 82\\ 86\\ 125\\ 559\\ 82\\ 12, 553$	$\begin{array}{c} 127, 971\\ 867, 047\\ 417, 787\\ 384, 528\\ 648, 807\\ 342, 495\\ 224, 097\\ 131, 309\\ 552, 722\\ 86, 554\\ 89, 522\\ 56, 634\\ 1, 192, 614\\ 495, 255\\ 56, 634\\ 1, 192, 614\\ 495, 255\\ 371, 079\\ 43, 769\\ 134, 126\\ 164, 579\\ 43, 769\\ 134, 126\\ 164, 579\\ 43, 769\\ 134, 126\\ 164, 579\\ 43, 769\\ 134, 126\\ 164, 579\\ 43, 769\\ 154, 551\\ 16, 533\\ 56, 666\\ 72, 990\\ 56, 666\\ 72, 990\\ 56, 666\\ 72, 990\\ 56, 666\\ 72, 990\\ 56, 666\\ 72, 990\\ 34, 423\\ 34, 492\\ 34,$	5, 726 7296 901 901 1, 014 2, 305 829 4455 237 2284 44, 483 392 578 1, 051 392 541 1, 754 1, 481 1, 754 1, 151 1, 1600 1, 459 900 1, 459 900 1, 459 900 1, 578 1, 754 1, 755 1, 756 1, 7	25, 190 31, 733 14, 965 95, 499 9, 668 106, 509 36, 510 79, 170 45, 060 192, 663 9, 856 33, 702 49, 327 140, 630 13, 231 24, 621 18, 933 10, 889 4, 043, 870	155 1722 97 799 525 55 5600 444 13 18 899 436 411 1444 13 18 899 436 430 431 433 54 43 43 1444 11 1444 13 13 899 436 430 77 11 20 77 99 79 52 55 55 56 00 44 44 13 13 54 54 54 14 43 14 43 14 44 14 43 15 54 55 55 55 55 56 00 44 44 13 13 54 54 55 55 55 55 55 55 55 55 55 55 55		$\begin{array}{c} 2,473\\ 1,300\\ 1,696\\ 2,507\\ 1,212\\ 317\\ 316\\ 336\\ 335\\ 6,241\\ 942\\ 2,190\\ 448\\ 718\\ 336\\ 22,135\\ 1,74\\ 2,063\\ 152\\ 1,752\\ 2,135\\ 1,752\\ 1,250\\ 1,290\\ 2,409\\ 2,55\\ 3,595\\ $	$\begin{array}{c} 5,889,327\\ 190,296\\ 1,218,051\\ 613,333\\ 2500,807\\ 772,315\\ 681,326\\ 309,492\\ 190,375\\ 113,684\\ 114,603\\ 84,259\\ 1,671,890\\ 561,202\\ 481,812\\ 74,091\\ 201,269\\ 1671,890\\ 60,209\\ 244,989\\ 1671,890\\ 60,209\\ 244,989\\ 1671,890\\ 60,209\\ 244,983\\ 84,259\\ 127,002\\ 362,933\\ 90,976\\ 137,104\\ 2120,977\\ 348,896\\ 137,104\\ 2120,977\\ 348,896\\ 137,104\\ 2120,977\\ 348,896\\ 137,104\\ 2120,977\\ 348,896\\ 137,104\\ 2120,977\\ 348,896\\ 137,104\\ 2120,977\\ 348,896\\ 137,104\\ 213,102\\ 362,933\\ 90,976\\ 137,104\\ 213,102\\ 362,933\\ 90,976\\ 137,104\\ 213,102\\ 362,933\\ 90,976\\ 37,961\\ 37,96$	766 233 1033 1855 525 55 55 55 55 55 55 55 55 55 55 55	$\begin{array}{c} 63, 131\\ 156, 066\\ 27, 451\\ 108, 142, 175\\ 666, 529\\ 42, 175\\ 666, 529\\ 42, 175\\ 666, 529\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 42, 732\\ 43, 961\\ 74, 982\\ 2, 412\\ 43, 622\\ 43, 779\\ 21, 942\\ 2, 664\\ 33, 779\\ 21, 942\\ 1, 920\\ 33, 682\\ 7, 7, 050\\ 3, 606\\ 792, 736\\ 624, 034\\ 732\\ 102\\ 732\\ 7, 050\\ 3, 606\\ 792, 736\\ 624, 034\\ 732\\ 732\\ 732\\ 732\\ 732\\ 732\\ 732\\ 732$	$\begin{array}{c} 177\\ 322\\ 411\\ 855\\ 299\\ 366\\ 99\\ 9\\ 9\\ 6\\ 6\\ 7\\ 7\\ 14\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 4\\ 13\\ 3\\ 3\\ 3\\ 3\\ 1\\ 1\\ 2\\ 21\\ 199\\ 6\\ 6\\ 8\\ 8\\ 8\\ 8\\ 6\\ 6\\ 6\\ 8\\ 8\\ 322\\ 32\\ 13\\ 13\\ 13\\ 13\\ 13\\ 13\\ 199\\ 9\\ 9\\ 9\\ 19\\ 19\\ 19\\ 19\\ 19\\ 19\\ $	20,992 7,649 4,192 10,555 8,951 8,226 4,732 2,563 34,935 1,614 1,721 1,047	4, 3000 2, 554 1, 370 1, 3810 7, 700 375 375 377 377	6, 940, 864 864, 8864 864, 9855 1, 984, 985 1, 203 1, 203 2, 2364 492 2, 2364 1, 299 601 1, 299 601 2, 2364 2, 3355 3355 3344 5, 991 861 1, 976 6, 3966 6, 3966 7, 39667 7, 30667 7, 306677 7, 306677777777777777777777777777777777777	$\begin{array}{c} 6,050,875\\ 238,739\\ 1,326,212\\ 629,476\\ 512,117\\ 825,085\\ 756,806\\ 360,461\\ 127,221\\ 125,871\\ 125,871\\ 125,871\\ 125,871\\ 125,871\\ 125,871\\ 125,871\\ 125,871\\ 125,947\\ 203,422\\ 61,252\\ 259,598\\ 30,448\\ 30,448\\ 330,488\\ 330,$	72, 419 55, 464 56, 934 82, 629 1, 1092, 158 335, 717 43, 129 39, 161 220, 442 24, 671 385, 663 99, 177 121, 037 115, 463 3264, 600 23, 265 73, 843 316, 184 316, 184 36, 580 	877 311 2266 3455 3455 3455 3455 3455 345 344 722 3344 722 559 539 3344 722 559 533 344 723 3344 725 539 555 539 345 539 535 539 535 545 539 545 539 545 539 545 539 545 539 545 539 545 539 545 539 545 539 545 539 545 539 545 545 545 545 545 545 545 54	55 1, 316 124 375 69 94 566 827 199 3300 161 387 657 68 135 208 135 208 135 208 135 208 135 208 135 94 94 94 94 94 94 95 94 94 94 95 827 199 337 68 109 93 307 68 109 109 387 68 109 387 68 109 387 68 109 387 68 109 387 68 109 387 68 109 387 68 109 387 68 109 387 68 109 387 68 109 387 68 109 887 68 109 98 109 887 68 109 98 109 98 109 887 687 109 98 109 887 687 109 987 687 109 887 687 109 987 687 109 987 688 1087 688 1087 688 1087 688 1087 688 109 987 688 109 987 688 109 99 873 877 688 109 99 873 877 687 687 687 687 687 687 687	401) 517 517 314 2566 667 72 262 262 262 27 33 33 60 146 53 33 30 53 981 146 53 260 53 981 260 27 3497 260 27 244 408 891 27 244 408 891 27 22 54 57 25 54 20 22 24 24 40 99 24 24 24 26 25 25 26 26 27 26 20 20 20 20 20 20 20 20 20 20 20 20 20	33 64 144 51 3,971 263 1,223 2,322 186 2,207 1,442 270 65 258 294 770 65 258 276 171 155 155 155 103 966 162 276 1171	1 1 558 5 455 4 145 1 148 1 157 1 224 2 	188 19 444 460 225 64 77 5 11 19 13 4 7 60 19 19 19 19 19 19 19 19 19 19			

¹ Incorporated banks other than mutual savings banks. ⁹ Includes items drawn on banks in other Federal reserve districts forwarded direct to drawee banks as follows: Cincinnati, 10,000 items, \$1,716,000; Minneapolis, 6,000 items, \$6,080,000; Omaha, 1,000 items, \$473,000. Total, 17,000 items, \$8,269,000. ⁹ Nortz.--Number of business days in period for Baltimore was 25, for Philadelphia, Pittsburgh, Jacksonville, Nashville, New Orleans, Detroit, Memphis, Minneapolis, Dallas, El Paso, and Houston, 26, and for other Federal reserve banks and branch cities, 27 days.

MONEY IN CIRCULATION APRIL 1, 1923.

[Source: United States Treasury Department circulation statement.]

	Stock of	Money held by the U.S.	Money in ci	culation.
	money in the United States.	Treasury and the Federal reserve system.	Money in cir Amount. \$410, 102, 015 319, 068, 349 59, 063, 380 338, 914, 547 1, 470, 783 241, 980, 239 294, 307, 542 2, 232, 448, 351 25, 869, 544 732, 451, 040 4, 655, 675, 790	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 notes . Federal reserve notes . National bank notes .	$\begin{smallmatrix} 2(681, 693, 769)\\ 475, 314, 404\\ 2(387, 726, 863)\\ 2(1, 471, 783)\\ 268, 860, 972\\ 346, 681, 016\\ 2, 598, 033, 725\\ 29, 859, 000\\ \end{smallmatrix}$	416,251,024 48,812,316	$\begin{array}{r} 319,068,349\\ 59,063,380\\ 338,914,547\\ 1,470,783\\ 241,980,239\\ 294,307,542\\ 2,232,448,351\\ 25,869,544 \end{array}$	\$3.70 2.88 .53 3.06 .01 2.18 2.65 20.13 .23 6.61
Total	8,455,125,364	\$ 4,870,341,989	4,655,675,790	41.98
Comparative totals: Mar. 1, 1923. Apr. 1, 1922. Apr. 1, 1917. July 1, 1914. Jan. 1, 1879.	8,108,976,196 5,312,109,272 3,738,288,871	\$ 4,941,147,056 \$ 4,686,870,457 \$ 3,896,318,653 \$ 1,843,452,323 \$ 212,420,402	$\begin{array}{c} 4,610,636,668\\ 4,413,130,714\\ 4,100,590,704\\ 3,402,015,427\\ 816,266,721 \end{array}$	$\begin{array}{r} 41.61\\ 40.37\\ 39.54\\ 34.35\\ 16.92 \end{array}$

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 SETTLEMENT FUND.

INTERBANK TRANSACTIONS FROM MARCH 23, 1923, TO APRIL 19, 1923, INCLUSIVE.

Federal reserve bank.	Tran	sfers.	Daily sett	lements.	Changes in of gold the fers and s	Balance in fund at close of	
	Debits.	Credits.	Debits.	Credits.	Decrease.	Increase.	period.
Boston	5,000 3,000 2,000 2,000	2,000 4,000 2,000 3,000	617, 356 2, 002, 742 605, 563 559, 386 477, 544 242, 129 959, 066 470, 207 124, 535 335, 806 188, 761 270, 137	634, 572 2,009, 479 618, 722 559, 124 463, 839 238, 229 972, 318 465, 518 127, 177 321, 416 187,088 255, 750	11,390 1,673	11,216 1,737 15,159 	56,090 287,544 31,724 64,728 28,434 16,373 84,066 10,026 18,989 29,191 7,855 33,568
Total four weeks ending— Apr. 19, 1923. Mar. 22, 1923. Apr. 20, 1922. Mar. 23, 1922.	18,000 108,000 69,000 113,500	18,000 108,000 69,000 113,500	6, 853, 232 7, 324, 106 5, 274, 437 5, 518, 607	6, 853, 232 7, 324, 106 5, 274, 437 5, 518, 607		46,006	668, 588 648, 222 497, 051 513, 493

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GOLD AND SILVER IMPORTS AND EXPORTS.

IMPORTS INTO AND EXPORTS FROM THE UNITED STATES, DISTRIBUTED BY COUNTRIES.

		Go	ld.			Silv	/er.	
Countries.	Mar	ch—		ths ending ch—	Mare	eh—	Nine mon Mar	
	1922	1923	1922	1923	1922	1923	1922	1923
IMPORTS.								
Denmark	\$3,983,059		\$12, 579, 266	\$1, 115, 469			\$844	\$987
France	6, 649, 971	\$4,005,014	127, 278, 661 19, 924, 809	20, 789, 147	\$76, 794	\$55, 717	198, 781	133. 275
Germany	3, 986		19, 924, 809	29,707			5, 709, 498	55 , 764
Greece.			5,003	4, 798, 294	· · · · · · · · · · · · · · · · · · ·			21, 156
Netherlands	4, 139, 110	5, 600, 000	4, 186, 976	15, 644, 247 543, 592	•••••		1,669 7,767	11.732
Norway Spain	4, 139, 110	•••••	4, 805, 302 316, 389	48,655	216	312	49,655	98,933
Sweden	14 938 204	•••••	51,770,795	1, 326, 938	210	512	1.354	1,180
Sweden United Kingdom—England	21 399	391, 409	118, 639, 688	107,911,597	35, 582	• • • • • • • • • • • • • • • • •	159, 587	185, 731
Canada	1, 264, 172	4, 113, 344	17,062,493	29,667,978	234, 837	475, 716	2, 875, 425	6,280,343
Central America.	414, 414	182,027	4,815,105	2, 196, 386	183, 374	130, 246	1,271,641	1, 131, 019
Mexico	707, 332	443, 521	4,282,030	4,045,096	5, 476, 656	2.644.030	36, 371, 689	32, 206, 794
West Indies	14, 530	12,027	2,857,729	491, 544	17, 487	13,081	457, 971	192,949
Bolivia	11, 735	949	. 19,417	5, 183	64, 104	51, 713	380, 592	594.645
Chile	15,959	1,753	392, 501	116,041	118,935	10, 329	1, 271, 391	1, 512, 382
Columbia	414, 200	292, 393	7,822,482	4, 239, 125	47,686	9,475	193, 451	144.679
Peru	137,046	169, 361	1,361,212 4,111,970	1, 311, 362	624, 913	1, 132, 053	4,503,020	6,604,363 2,167
Uruguay Venezuela	145,000 131,745	35, 361	4, 111, 970	8, 959 496, 779	35		25, 347 1, 513	1,860
China	151,745	90,001	4, 236, 999	5, 895, 896	66	41 6,000 -	1, 515	16,924
British India			14,863,765	0,000,000	•••••	0,000	11, 718	10,04
Dutch East Indies.	217,647	208,057	1, 342, 271	1,586,669	31,482	81,029	328, 479	619,140
Philippine Islands.	49, 592	108, 313	997.216	812,926	907	1, 474	14,390	10,925
Philippine Islands. British Oceania	152,450	108, 313 276, 020	12,740,382	1, 352, 396	141	242	1,550	1,430
Egypt	1		12,740,382 7,210,097	3,271,242			227	12,730
Portuguese Africa	2,680	4,148	286,415	612, 819	6,175	7,588	22,153	162, 160
All other	-74, 025	107, 660	9, 419, 537	993, 299	13, 253	7, 330	165, 714	154, 795
Total	33, 488, 256	15,951,357	434, 104, 125	209, 311, 346	6,953,105	4,626,376	54, 027, 128	50, 158, 063
EXPORTS.								
France		2,660,000		2,660,000				
Netherlands				19,000				1.645
Spain	222,000		672, 200	20,000		1,500		1, 500
Sweden			2,721,013			•••••		600
Switzerland	3,601	3,579 9,572	6,724	1,358,445 143,828	1 569 450	009 005	0 491 007	7 970 600
Conodo	61,995	102,180	2,044,827	21, 872, 613	1,562,459 267,625	203,805 146,433	9, 431, 987 3, 987, 427	7,378,690 1,388,040
Canada Central America	12, 127		12, 127	21, 872, 413	201,025	140, 455	6,543	1, 300, 040
Mexico	339 875	583, 640	4, 214, 470	3,680,479	319, 211	203,003	1,516,234	1, 393, 818
West Indies	000,010	000,010	350	899	4, 440	23, 525	29,800	37,627
Colombia	1			500,000	136,103		327,103	10,060
Venezuela							649,000	
China				350, 200	526,753	2,651,192	14, 303, 856	16, 672, 506
British India		6,960,089	2,003,057	13, 394, 018	1, 341, 761	1,430,211	4, 316, 183	11,055,489
Dutch East Indies	40,000		40,000	75,000				
French Indo-China							3, 168, 600	
Hongkong.	183, 805	84,440	8,864,485	2,862,800	143, 830		6, 605, 326	6,505,296
All other	100,010	48,600	179, 750	56, 530		37, 725	1, 563, 310	40, 474
Total	963, 413	10, 392, 100	20, 759, 003	46,993,812	4, 302, 182	4,731,705	45, 904, 769	44, 490, 179
	1	4		1 · · · · · · · · · · · · · · · · · · ·	1	1	1	

DISCOUNT RATES OF FEDERAL RESERVE BANKS IN EFFECT APRIL 30, 1923.

			Paper ma	turing-		
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.	$4\frac{1}{2}$ $4\frac{1}{2}$ $4\frac{1}{2}$ $4\frac{1}{2}$	43 43 43 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			43 43 43 43 44 44 44 44 44 44	5 5 43 43 43
Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	45 45 45 45	43 4 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	$\begin{array}{c} 4\frac{1}{2} \\ 4\frac{1}{2} \end{array}$	412121212 421212 4212 4212 4212 4212	412 412 412 412 412 412 412 412 412	

 1 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 April 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.

March 15 shows higher rates for prime commercial paper and bankers' acceptances in most centers and higher rates for collateral loans in some centers. For other types of paper, with few exceptions, the rates remained at practically the same level as during the preceding period. Compared with the corresponding period ending April 15, 1922, rates were generally lower, although in some centers they were near the levels of the 1922 period and a few centers report higher charges for some commercial paper. Compared with both periods under review all interest rates show upward tendencies.

A comparison of the discount and interest rates for the various centers during the 30-day period ending April 15 with the 30-day period ending

Ì			Prime comm	ercial paper				ecceptances, 0 days.	Collateral	loans—stock	exchange.			Ordinary
)istrict.	City.	Custo	mers'.	Op en 1	narket.	Interbank loans.		Unin-			3 to 6	Cattle loans.	Secured by warehouse receipts.	loans to customer secured b Liberty
		30 to 90 days.	4 to 6 months.	30 to 90 days.	4 to 6 months.		Indorsed.	dorsed.	Demand.	3 months.	months.			bonds.
[0. 1 [0. 2 [0. 3 [0. 4 [0. 5 [0. 5 [0. 6 [0. 7 [0. 7 [0. 8 [0. 9 [0. 10 [0. 11 [0. 12	Dallas El Paso Houston San Francisco Portland	$\begin{array}{c} H. 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 $	$\begin{array}{c} H. \ \ L. \ \ 5.4\\ 5.4\\ 6.5\\ 6.5\\ 7.5\\ 6.5\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7.5\\ 7$	$\begin{array}{c} H. \ \ 5 \ 5 \ 5 \ 5 \ 5 \ 5 \ $	$\begin{array}{c} H. \ L. \ C. \ S. \ S. \ S. \ S. \ S. \ S. \ S$	$\begin{array}{c} H. \ L. \ C. \ C. \ 5 \ 5 \ 5 \ 5 \ 6 \ 6 \ 5 \ 5 \ 5 \ 6 \ 6$	$\begin{array}{c} H. L. C. \\ 4 & 4 & 4 \\ 5 & 4 & 4 & 4 \\ 5 & 4 & 4 & 4 \\ 5 & 4 & 4 & 4 \\ 5 & 4 & 4 & 4 \\ 5 & 4 & 4 & 4 \\ 5 & 4 & 4 & 4 \\ \hline 5 & 5 & 5 \\ \hline 5 & 4 & 4 & 4 \\ \hline 5 & 4 & 4 & 4 \\ \hline 4 & 4 & 4 & 4 \\ \hline \\ 8 & 7 & 8 \\ \hline \\ \hline \\ 8 & 7 & 8 \\ \hline \\ \hline \\ 8 & 7 & 8 \\ \hline \\ \hline \\ \hline \\ 8 & 7 & 8 \\ \hline \\ \hline \\ \hline \\ \hline \\ 8 & 7 & 8 \\ \hline \\ \hline \\ \hline \\ \hline \\ 8 & 7 & 8 \\ \hline \\$	$\begin{array}{c} H.\ L.\ C.\\ 4\frac{1}{4}\ 4\ 4\frac{1}{4}\ 41$	8 5 61	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	H. L. C. $5\frac{1}{2}$ 5 5 5 7 6 7 6 7 6 6 6 6 6 5 6 6 8 6 6 6 8 6 6 7 7 6 7 6 7 6 7 6 5 $\frac{1}{2}$ 5 8 6 7 7 6 7 6 5 $\frac{1}{2}$ 5 8 6 7 7 6 6 6 8 6 7 7 6 6 7 8 5 $\frac{1}{2}$ 5 8 6 7 7 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	H 545 65 654 65 654 654 654 654 654 654 654 654 654 654 654 655 654 655 654 655 </td
	Seattle Spokane Salt Lake City		$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	51 43 5 5 41 47	51 41 5 5 41 51	7 6 7 7 6 6 8 5 6		41 4 41 41 37 41	$ \begin{array}{r} 8 & 6 & 6\frac{1}{2} - 7 \\ 8 & 7 & 7 \\ 7 & 5 & 6\frac{1}{2} \end{array} $	8 6 7 8 7 7 8 5 6 3	8 6 7 8 7 7 8 5 6 1	8 7 8 8 7 7 8 6 7	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	8 6 7 8 6 7 8 51 61

Rates for demand paper secured by prime bankers' acceptances-high, 51; low, 4; customary, 41-51.

MAY, 1923.

FOREIGN EXCHANGE RATES.

[General index for April, 1923 (preliminary), 67; for March, 1923, 67; for April, 1922, 72. 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.

	Monetary unit.	Monetary unit.	Par of	Lo	ow.	High.		Ave	rage.	Index (per cent of par).1	
		exchange.	April.	March.	April.	March.	April.	March.	April.	March.	
Belgium. Denmark. France. Great Britain. Italy. Netherlands. Norway. Spain. Sweden. Sweden. Switzerland.	Krone. Franc. Pound. Lira. Florin. Krone. Peseta.	26,80 19.30 486,65 19.30 40.20 26,80 19.30 26,80	5. 5900 18. 6100 6. 4900 463. 3800 4. 9100 39. 0600 17. 2600 15. 2600 26. 5600 18. 0700	$\begin{array}{c} 5.2100\\ 19.0800\\ 6.0300\\ 467.6900\\ 4.7600\\ 39.3600\\ 18.0600\\ 15.3600\\ 26.5600\\ 18.4400 \end{array}$	5. 8900 19. 1500 6. 7900 467. 8600 5. 0200 39. 3700 18. 1000 15. 3600 26. 7700 18. 4800	$\begin{array}{c} 5.9400\\ 19.3100\\ 6.7400\\ 470.8300\\ 5.0200\\ 39.5900\\ 18.4100\\ 15.6100\\ 26.6300\\ 18.7600\end{array}$	5. 7560 18. 9160 6. 6668 465. 5468 4. 9596 39. 1788 17. 8420 15. 3220 26. 6444 18. 2424	$\begin{array}{c} 5,4800\\ 19,1970\\ 6,3237\\ 469,5693\\ 4,8550\\ 39,4893\\ 18,1578\\ 15,4652\\ 26,6000\\ 18,5896\end{array}$	29. 82 70. 58 34. 54 95. 66 25. 70 97. 46 66. 57 79. 39 99. 42 94. 52	28. 39 71. 67 32. 77 96. 49 25. 16 98. 23 67. 75 80. 13 99. 25 96. 32	
Canada	Dollar	100.00	97 . 64 06	97.4328	98. 2321	98. 4813	98.0201	98.0570	98.02	98.06	
Argentina Brazil Chile	Peso (gold) Milreis Peso (paper)	96.48 32.44 2 19.53	82.6700 10.1700 12.1300	83.8600 10.7900 12.2200	83.7700 10.8600 12.7800	84.7000 11.3700 12.9800	83. 1484 10. 6364 12. 3104	84.1452 11.0874 12.6725	86.18 32.79 63.03	87.22 34.18 64.89	
China India Japan	Rupee	48.66	73. 4800 31. 2300 48. 4800	73.9800 31.3500 48.3000	76. 3800 31. 4200 49. 0300	76. 5400 31. 8200 48. 6100	74, 4964 31, 3460 48, 6936	75.5300 31.5659 48.4559	111. 44 64. 42 97. 68	112.98 64.87 97.20	

	1	1								
Austria	Krone	20,26	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.01	0.01
Bulgaria			. 7443	. 6100	. 8443	. 8086	. 7738	.6543	4.01	3.39
Czechoslovakia			2.9678	2,9648	2,9865	2,9795	2,9781	2,9693		
Finland	Markka		2.7189	2,7111	2.7806	2,7933	2.7541	2,7553	14.27	14.28
Germany			.0031	.0044	.0048	.0048	.0041	.0047	. 02	.02
Greece			1.1478	1.0522	1.1894	1.1711	1.1694	1,0962	6.06	5.68
Hungary	Krone		. 0168	. 0203	. 0237	. 0346	.0217	. 0289	.11	.14
Poland			.0020	. 0022	.0026	.0026	. 0023	. 0024		
Portugal			4.3700	4,1600	4.9500	4,8900	4.6032	4.3430	4.26	4.02
Rumania			. 4745	. 4728	. 4858	. 4919	. 4789	. 4842	2,48	2, 51
Yugoslavia	Dinar	19.30	1.0010	1.0025	1.0343	1.1288	1.0173	1.0417	5.27	5.40
<i>a</i> .	-								400.00	
Cuba	Peso		99.9688	99.9500	100.0438	100.0156	99.9998	99.9858	100.00	99.99
Mexico	do	49.85	48.2969	48, 5833	48.6250	49.0781	48.4463	48,8605	97.18	98.02
TT museum and	do	103.42	82,7400	84.1400	84.8000	85, 1200	83.7348	84.5496	80.97	81.75
Oruguay	ao	105.42	82. 7400	84.1400	04.0000	65, 1200	03.7340	84, 9490	00.97	81.75
China	Mexican dollar	2 48, 11	53, 0800	53, 3100	55. 2300	55, 4400	53, 8192	54.5333	111.87	113.35
Hongkong			54.1100	54,0000	56.1500	56. 3000	54.8180	55.3804	114.75	115.93
Straits Settlements	Singapore dollar		54. 5000	54.6700	54, 9200	55, 0800	54. 7328	54. 8133	96.39	96.54
Dirate conclusion	bingupore dedditterterter	00110	040000	01.0100	0110200	000 0000	0111020	0110100	00000	

OTHER COUNTRIES.

¹ Based on average.

SILVER.

² 1913 average.

[Average price per fine ounce.]

	April.	March.
London (converted at average rate of exchange)	\$0.67830 .67270	\$0.68360 .67963

FINANCIAL STATISTICS FOR PRINCIPAL FOREIGN COUNTRIES.

A summary of banking and financial conditions abroad is presented statistically in the accompanying tables. ENGLAND.

					[Am	ounts ir		ons of p	ounds s	terling	.]									
	Ba		or England de-			Nine London clearing banks. ^{\$}			Government floating debt.			earing B Government floating debt. Discourt			Discount rates.				as prices.	f foreign E.6
	Gold and silver, coin and bullion. ¹	Bank notes in circula- tion. ³	Currency notes and cer- tificates outstanding.	Total deposits.	Money at call and short notice.	Discounts and advances.	Investments.	Total deposits.	London bankers' clearing h 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 Kingdom. ⁴	Index numbers of securities prices. ⁶	Statist index number of exchange value of £		
A verage 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 1,063	309 · 372	1,768 1,727	1,370 3,252 2,911 3,097	15 1,078 1,139 796	219 183 165	1,297 1,322 961	Per cent. 61 418 21	Per cent. 411 676 585 21	Per cent. 411 715 611 313	21 40 33 49	99.2 111.7	99.0 110.1 120.0		
1922, end of March April June July August September October November December 1923, end of	$157 \\ 157 \\ 157 \\ 157 \\ 154 $	$ \begin{array}{r} 103 \\ 102 \\ 103 \\ 104 \\ 103 \\ 104 \\ 101 \\ 101 \\ 102 \\ 104 \\ 104 \end{array} $	300 303 298 295 296 293 289 289 287 288 301	151 134 130 131 122 124 121 125 121 133	103 197 109 113 110 105 104 105 98 106	$\begin{array}{c} 1,097\\ 1,065\\ 1,061\\ 1,070\\ 1,056\\ 1,020\\ 1,007\\ 1,033\\ 1,031\\ 1,030\end{array}$	369 378 392 388 386 390 381 370 365 365 360	$1,747 \\ 1,737 \\ 1,745 \\ 1,755 \\ 1,750 \\ 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	27515 21515 11515 215 215 215 215 215 215	3 2 2 1 2 2 2 2 2 2 2 2 2 2	44440000000000000000000000000000000000	40 100 52 29 43 21 7 31 19 15	107.3 113.3 113.4 112.8 114.4 114.7 114.7 114.0 115.1 114.1 113.2	118.3 118.0 118.2 120.3 121.3 122.7 123.0 124.0 125.8		
January February March	154 155 155	101 102 102	280 279 286	121 131 133	108 103 104	1,046 1,023 992	357 349 333	$1,692 \\ 1.614 \\ 1,596$	3,262 3,006	715 698 616	206 154 194	922 852 810	2 2 1 ³	$2\frac{1}{8}$ $2\frac{3}{8}$ $2\frac{5}{82}$	31 34 33	34 19 39	114 2 115.3 113.4	123.4 126.0 126.0		

Held by the Bank of England and by the Treasury as note reserve.
 Less notes in currency notes account.
 Average weekly figures.

FRANCE. [Amounts in millions of francs.] Statist.
Bankers Magazine.
Excluding Germany.

	1	Bai	nk of Franc	e.		Bons	Price of	A verage daily	Savings banks, excess of		ock and issues.
	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.	clearings of the Paris banks.	deposits (+) or with- drawals (-).	Value.	Average rate of return.
Average of end of month figures:									~~		
1913	3,343	629		5,565 38,066	830		86.77	59	65		
1920	3,586 3,568	253 274	26,000 25,300	38,000	3,527 2,927		57.34 56.56	554 550	+48 +67	702	6.70
1921 1922	3,505	285	23,042	37,404 36,177	2,307		58,48	525	+07	1,100 574	6,41
1922, end of—	0,091	200	20,042	30,177	2,001		00,40	040	+55	014	0,41
March	3,578	282	21,500	35 598	2,236	60,839	56.70	455	+49	377	6.57
April	3,579	283	22,100	35,528 35,787	2,412	61.528	57.60	411	+58	459	6.45
May		284	23,100	35,982	2,303	62,890	57.70	454	+55	644	6.37
June	3, 580	285	23,300	36,039	2,448	63,809	57.95	474	+53	947	6.30
July August September October	3,582	285	23,000	36,050	2,432	62,525	58.25	562	+62	485	6.02
Angust	3,583	286	23,900	36, 385	2,170	62,936	60, 10	,512	+66	151	6 32
Sentember	3,584	287	24,000	36,603	2,199	63,404	61.10	484	+58	636	6.36
October	3,635	288	23,600	36,691	2,170	,	58.25	556	+17	421	6, 41
November	3,636	289	22,900	36,114			59.00	783	+43	179	6.59
December		289	23,600	36,359	2,309		59.02	630	+33	1,453	6.22
				,	_,						
1923, end of- January	3,671	290	23,100	36,780	2,208		58, 80	726	+44		
February	3,671	291	23,200	37,055	2,279			792	+85		
March	3.672	292	23,100	37,188	2,066			755			
F April	3,672	292	22,500	36, 548	2,116						
n	,			,						1	

¹ Not including gold held abroad.

			Banks	of issue.									
	Res	erve.	Loans	Note circulation.				Loans and dis-	Due			Short- term	Index num- bers of
	Gold.	Total.	and dis- counts.	For ac- count of com- merce.	For ac- count 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.	securit; prices.
Average of end of month figures:													
1913 3 1920	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 1922	1,074 1,120	2,020	7,586	9,304 9,734	9,064 8,214	2,474 2,475 2,759	1,200	10, 677	5, 575	465	16,001		
1001	•								•••••		•••••	•••••	
November December	$1,089 \\ 1,092$	1,948	7,888 10,088	9, 435 10, 304	8, 485 8, 505	2,388 3,108	1,174 1,997	8,862 8,012	3, 981 3, 785	293 316	12,778 12,502	21,926	83.9 80.1
1099 and of													
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
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 May	$1,122 \\ 1,104$	1,964 1,963	10,181 9,391	9, 360 9, 259	8, 350 8, 0 61	2,663 2,751	908 841	8, 572 8, 500	$3,180 \\ 3,232$	317 316	11,708 11,698		88.4 93.1
Tune	1 106	1,976	9,573	9,615	8,049	2,935	845	8,800	3,180	318	11,863	23,862	94.8
July. August. September. October.	1,125	1,991	9,118	9,947	8,050	2,681	861	8, 846	3, 272	337	11,896		
August	$1,125 \\ 1,125$	2,024 2,024	9,142 8,858	9, 695 9, 924	8,050 8,066	2,779 2,661	763 769	8,706	3, 286 3, 460	337 337	11,883 11,897	25, 574	103.0
October	1,136	2.039	9,082	9,782	8,075	2,638	781	8,659	3,568	339	11,960	20,017	
November	1.141	2,034	8,680	9, 892	8,074	2,634	781	8,659 8,797	3, 554	3 36	12,045		111.9
December 923, end of—		2,042	9,345	9,935	8, 07 6	2,602	•••••	•••••	•••••	•••••	· • · · · · · · ·		112.9
1923, end of— January February	1,126	2,021	8,552	9.389	8,057	2,610							
February	1, 127	1,994	8,572	9,117	8,036	2,675							

ITALY.

[Amounts in millions of lire.]

¹ Includes Banca Commerciale Italiana, Credito Italiano, Banco di Roma, and until November, 1921, Banca Italiana di Sconto.
 ³ Figures for 1921 based on quotations of Dec. 31, 1920-100; those for 1922 on quotations of Dec. 31, 1921-100.
 ⁴ End of December figures.

GERMANY.

[Amounts in millions of marks.]

			Reich	sbank.			Darlehns-		Value of new stock and		security ces.ª
	Gold	Note cir-	Total	Disco	ounts.	Total	kassen- scheine in circu- lation.	Treasury bills out- standing.	bond issues placed on Ger-	25	10 do-
	reserve.	culation.	deposits.	Treasury bills.	Commer- cial bills.	clear- ings.	144011.		man market.	stocks.	mestic bonds.
Average of end of month figures: 1913. 1920. 1921. 1922. 1922. 1922. 1922. 1922. 1922. 1922. 1922. 1922. 1922. 1922. 1922. 1922. May. June. June. July. August. September. October. November. December. 1923. end of- ja2a. Send of- Ju2a. Send of- November. December. 1923. end of- ja2a.	$\begin{array}{c} 1,092\\ 1,056\\ 1,002\\ 997\\ 1,001\\ 1,003\\ 1,004\\ 1,005\\ 1,005\\ 1,005\\ 1,005\\ 1,005\\ 1,005\\ 1,005\\ 1,007\\ \end{array}$		1 '	83; 338,147 146,531 155,618 167,794 186,126 207,858 249,766 349,770 477,201 672,222 1,184,464	$\begin{array}{c} 2,152\\ 2,403\\ 3,377\\ 4,752\\ 8,122\\ 21,704\\ 50,234\\ 101,155\\ 246,949\\ 422,235\end{array}$	1,463,766 2,078,969	1	1 220 192, 832 475, 835 271, 935 280, 935 280, 935 289, 246 311, 600 307, 810 331, 000 614, 000 614, 000 614, 000 1, 495, 000 2, 082, 000	6,416 3,992 4,152 2,762 2,330 2,468 7,937 7,187 15,223	121 85 169 1,334	105 106 105 312 322
February. March April.	1,005	1,984,496 3,512,788 5,517,920	1,582,981 2,272,084	2,947,364 4,552,012	1,829,341	7,444,323	12,625 12,600	3,58 8,000 6,601,000		4,66 8 3,664	726 725

¹ End of March, 1913.
 ² 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.]

1		Riks	bank.		Joint-sto	ek banks.	Value of	* •	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	
1913	269	733	226	3,596	6,008	476	61	176	112.9
1920	280	661	193	2,715	5,948	389	31	121	121.8
1921	274	579	269	2,109	5,317	340	29	103	121.8
1922, end of	213	019	2003	2,109	0,017	040	29	105	128.9
February	274	579	346	2,122	5,572	429	18	94	100.0
reprusry	274	626	312	2,354	5,474	447	23	89	129.2
March	274	582	301	1,936	5,430	404	15		128.3
Арги		567	293	2,162	5,378	380	50	100	126.6
May	274	585	293	2,102	5,388	320		115	124.8
June		551	247	2,118	0,388	320	63	113	125.6
July	274			2,015	5,268		35	113	127.0
August	274	559	213	1,803	5,221	293	22	110	128.8
August. September October	274	605	180	1,902	5,181	288	14	103	130.5
October	2/4	569	178	1,995	5,149	206	15	98	131.7
November	274	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-									
January		520	321		4,888	214		93	129.9
February	274	538	270	1,455	4,903	175			
March	274	587	265			222			

¹ End of December figures.

CANADA.

[Amounts in millions of dollars.]

			Chartere	Gold					
	Gold coin and bullion. ¹	Current loans and discounts.	Money at call and short notice.	Public and railway securities	Note cir- culation.	Individual deposits- demand and time.	reserve against Dominion notes:	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
1022	75	1,272	280	332	166	2,009	90	240	1,353
1922, end of February March		, í							-,
February	70	1,299	273	352	164	1,987	81	247	1,149
March	70	1,301	267	354	163	1,981	81	241	1,346
April	70	1,314	278	343	165	2,000	81	242	1,193
May	70	1,285	288	313	156	2,059	83	222	1,497
June	70	1,266	274	319	166	2,053	85	233	1.323
July	70	1,248	272	323	152	2,016	87	231	1.278
August	70	1,248	277	331	158	1,979	89	229	1,172
September	71	1,250	279	322	177	1,985	91	235	1.253
October	87	1,276	301	310	179	2,020	93	240	1,497
November December	92	1,255	303	317	170	2,036	96	251	1,619
	93	1,230	284	341	176	2,061	129	257	1,555
1923, end of	-								
January	75	1,197	281	356	153	1,963	132	241	1,507
February	72	1,206	270	377	157	1,997	133	247	1,067
March	68	1,220	292	385	173	2,008	128	234	1,199

¹Includes gold in central gold reserve but not gold held abroad.

² Total for month.

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ARGENTINA.

[Amounts in millions of pesos.]

		Banco de	la Nación.	1		Commerc	ial banks.1		Caja de C	Clearings	
l	Ca	sh.	Dis- counts Total				Dis- counts	Total	Gold	Note cir-	in Buenos Aires
	Gold.	Paper.	and advances (paper).	deposits (paper).	Gold.	Paper.	and advances (paper).	deposits (paper).	reserve.	culation (paper).	(paper).
End of											
1913	32	180	478	541	62	435	1,541	1,464	263	823	1, 471 2, 805 3, 612 3, 482
1919.	39	268	676	· 1,250	66	771	$1,541 \\ 2,113 \\ 2,505$	3,010 3,530	2 399	1, 177 1, 363 1, 363	2, 805
1920	25	406	804	1, 412	46	1,081	2,505	3,530	470	1,363	3,612
1921	23	410	866	1,310	36	1,087	2, 543	3,375	470	1,363	3,482
1922, end of			010	1 010	0.0	004	0.505	0.000	470	1 909	0.500
February March	23	383	913	1,310	36	994	2,565	3,362	470	1,363	2, 593 3, 298
March	23 23	383	884 887	1,272	36	981 999	2,565 2,512 2,489 2,461	3,313	470 470	1,363	3,298
April	23 23	393 386	906	$1,283 \\ 1,294$	36 35	1,016	2,489	3,304 3,278	470	1,363 1,363	2 016
May June	23	395	933	1, 294	35	1,060	2,401	3,326	470	1,363	2 716
Tulv	23	399	920	1,322	35	1,013	2, 461 2, 473 2, 491	3,308	470	1 363	2,814
July August	23	407	946	1,353	35	1,041	2 491	3,356	470	1,363 1,363 1,363	2,570
September	23 23	402	950	1,346	35 35	1,048	2,514	. 3,379	470	1,363	2,725
October	23	405	921	1,328	35	1,028	2,549	3,354	470	1.363	2,827
November	23	396	934	1,345	35	1,053	2.557	3,394	470	1,363	2,827
December	23	340	1,036	1,389	35	1,025	2,664	3,456	470	1,363	3,016 2,716 2,814 2,570 2,725 2,827 2,827 2,827 2,954
1923, end of-				· ·		·			l		1
January	23	359	992	1,369	35	1,015	2,651	3,451	470	1,363	
February	23	363	989	1, 366	34	993	2,667	3,464	470	1,363	
ļ		1	1	1	I	1	1	ļ	1	1	1

¹ 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.

JAPAN.

[Amounts in millions of yen.]

		Bank of Japan.						Tokyo banks.					
	Specie re- serve for notes. ¹	Loans and dis- counts.	Ad- vances on foreign bills.	Note cir- cula- tion.	Gov- ern- ment depos- its in Japan.	Pri- vate depos- its in Japan.	Cash on hand.	Totai Ioans.	Total depos- its.	Total clear- ings.	A ver- age dis- count rate.	Capital issues in Japan.	Index of se- curity prices. ²
A verage of end of month figures: 1913. 1921. 1922.	216 1, 200 1, 172	47 107 208	33 39 94	363 1, 226 1, 291	297 409	7 50 36	129	333 1, 932 1, 961	1,789	364 2, 572 2, 834	8.38 9.00 9.31	32 186 124	194
1922, end of- February March. April. June.	1,263	172 248 267 178 179	26 58 61 50 98	1,246 1,289 1,226 1,203 1,344	328 422 520 469 377	27 29 30 33 43	113 141 130 120 122	1,950 1,963 1,980 1,973 1,998	1,751 1,749 1,761 1,748 1,798	2,438 3,099 2,809 3,143 3,178	9.02 9.09 9.34 9.42 9.45	200 163 217 110 121	188 182 160 168 170
July. August September. October. November.	1,220 1,132 1,069 1,068 1,066	133 241 134 160 183	82 90 115 142 141	1,224 1,280 1,237 1,236 1,241	427 488 382 437 445	35 30 29 33 40	127 115 145 126 126	1,971 1,928 1,921 1,926 1,929	1,802 1,783 1,822 1,812 1,828	2,766 2,582 2,750 2,697 2,971	9.38 9.42 9.38 9.38 9.45	101 93 150 98 100	165 165 152 160 161
December 1923, end of January February March	1,064 1,062 1,060 1,057	375 180 157 241	205 159 140 109	1, 590 1, 308 1, 261 1, 238	333 380 396 463	66 34 31 29	169 113 117	2,011 2,002 2,051	1,869 1,860 1,894	3,329 2,246 2,592	9.34	56 1 3 7	

¹ Includes gold credits abroad, gold coin and bullion in Japan.

² Tokyo market.

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CONDITION OF FOREIGN BANKS OF ISSUE.

AUSTRIAN DEPARTMENT OF THE AUSTRO-HUNGARIAN BANK.

[From weekly statements of the Austro-Hungarian Bank.]

[In thousands of kronen.]

		<u> </u>	
	Dec. 31, 1920.	Dec. 31, 1921.	Dec. 31, 1922.
ASSETS.			
Gold coin and bullion Silver and subsidiary coin	53	81 5	46 8
Bills of exchange and foreign notes. Foreign credits and gold deposits of the Government to be made available when countersigned by the delegation of the League	8,754	9, 936	303
of Nations. Certificates of the war loan banks. Discounted bills, warehouse cer-	113, 831	241, 828	$528,254,403\\106,600$
tificates, and other securities Advances against collateral Securities	23, 021, 608 768, 996 110	29, 373, 661 666, 614 927	781,767,394494,7864,017 $4,017$
Austrian treasury certificates Due from Austrian foreign ex- change office Due from liquidators of the	2,697,157	151,773,095	2, 558, 379, 849
Austro-Hungarian Bank Sundry assets	7,684,064 1,288,956	7, 722, 523 17, 156, 276	7,687,726 1,288,355,732
Total	35, 583, 529	206, 944, 946	5, 165, 050, 864
LIABILITIES.			
Notes in circulation Scrip payable on demand Deposits and other demand lia-	30, 645, 658	174, 114, 747 6, 951, 279	4, 080, 177, 238 369, 493
bilities Due to liquidators of the Austro-	3, 780, 416	19, 503, 161	327, 991, 960
Deposits of the Austrian Govern-		1,005,567	547, 564
ment Sundry liabilities	1,157,455	5, 370, 192	528, 254, 403 227, 710, 206
Total	35, 583, 529	206, 944, 946	5, 165, 050, 864

HUNGARIAN OFFICE OF NOTE ISSUE.

[From weekly statements of the Hungarian Office of Note Issue.]

[In thousands of kronen.]

Dec. 31, 1920.1	Dec. 31, 1921.	Dec. 31, 1922.
200 967, 608	12, 245 597	15, 559 595
• •		18, 263, 979
	1920.1 200 967, 608 7, 274, 3 65	<u>1920.1</u> <u>1921.</u> <u>1921.</u> <u>1921.</u> <u>12,245</u> <u>597</u>

¹ Report of the Hungarian Department of the Austro-Hungarian bank.

HUNGARIAN OFFICE OF NOTE ISSUE - Continued.

[In thousands of kronen.]

	Dec. 31, 1920.	Dec.31, 1921.	Dec. 31, 1922.
Assets-continued.			
Notes of the postal savings bank Counterfeit notes of one and two		1, 177, 251	1,369,929
kronen		5,695	16, 595
Loans and discounts	9, 381, 887 193, 501	4,903,628 1,158,398	31, 051, 358 2, 016, 105
Advances against collateral	193, 501	1,158,398	2,016,105
Advances to treasury (laws of		000 000	18 500 000
1921–1922) Securities	22	900, 000 34	16, 500, 000 1, 318
Sundry assets		3,186,400	24, 772, 147
buildly absets	102,113	0,100,400	27,112,111
Total	17, 969, 702	29, 116, 913	94, 007, 585
LIABILITIES.			
Notes of the Austro-Hungarian	1	1	
bank in circulation	14, 307, 809		
State notes in circulation	· · · · · · · · · · · · · · · · · · ·	25, 174, 941	75,886,987
Cash vouchers			22,500
Deposits and other demand lia-			
bilities	3, 227, 566	2,239,914	4,760,741
Sundry liabilities	434, 327	1, 702, 058	13, 337, 357
Total	17,969,702	29, 116, 913	94,007,585

BANKING OFFICE OF THE CZECHOSLOVAK MINISTRY OF FINANCE,

[From weekly statements of the ministry of finance.]

[In thousands of Czechoslovak crowns.]

	Dec. 31, 1920.	Dec. 31, 1921.	Dec. 31, 1922.
ASSETS.		······································	·
Gold and silver holdings Foreign credits and foreign cur-	402, 819	552,289	817, 543
renev	455, 596	532,632	657,711
rency. Discounted bills	2,015,526	1,892,968	541,398
Discounted securities.	-,010,010	618, 350	173,958
Advances on collateral	2,322,714	1,714,534	1,496,925
Due from liquidators of the Austro- Hungarian Bank:	2,022,111	-, , 001	1, 100, 020
Austro-Hungarian bank notes	7,437,700	8,012,219	8,012,297
Checks and scrip	2,084,418	2,084,419	2,084,419
Sundry assets	339,408	1, 292, 142	348, 849
Total	15,058,181	16, 699, 553	14, 133, 100
LIABILITIES.			
Not liability on Austra Thunso			
Net liability on Austro-Hunga- rian notes	1,948,436	1,056,879	390, 579
State notes in circulation	11,288,512	19 190 579	10,064,049
Demand deposits		12, 129, 573 1,743,922	2,774,049
Short-term cash vouchers of the	1, 429, 623	1,120,044	2,114,040
banking office	226,717	350, 503	53,888
Other liabilities	164,893	1,418,676	850, 536
0 HIGI HADHIMGO	103,093	1, 10,070	
Total	15,058,181	16,699,553	14,133,100

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NATIONAL BANK OF THE KINGDOM OF SERBS, CROATS, AND SLOVENES.¹

[From annual reports of the National Bank of Serbia and weekly statements of the National Bank of the Kingdom of Serbs, Croats, and Slovenes.]

			[In thouse	nds of din	ars.]					
	June 30, 1914.	Dec. 31, 1914.	Dec. 31, 1915.	Dec. 31, 1916.	Dec. 31, 1917.	Dec. 31, 1918.	Dec. 31, 1919.	Dec. 31, 1920.	Dec. 31, 1921.	Dec. 31, 1922.
ASSETS.										
GoldSilver	69, 997 8, 166	57, 170 2, 201	64, 148 2, 985	63, 837 9, 917	63, 781 15, 542	63, 760 15, 560	63, 384 15, 536	64, 174 15, 541	74, 189 16, 733	64, 013 16, 546
Total metallic reserve Foreign money. Foreign credits Bills discounted. Advances against securities. Advances to the Government:	78, 163 98 4, 300 9, 334 2, 102	59, 371 120 133, 911 6, 169 2, 727	67, 133 108 193, 903 9, 014 3, 393	73, 754 1, 952 204, 761 9, 725 3, 484	79, 323 160 208, 498 12, 025 3, 518	79, 320 310 217, 664 11, 181 3, 575	$78,920 \\ 3,563 \\ 351,996 \\ 11,553 \\ 4,382$	79, 715 2, 089 349, 559 242, 702 24, 197	90, 922 2, 432 307, 999 557, 745 40, 198	80, 559 1, 154 267, 587 421, 215 99, 553
Currency exchange account. Other advances. Debtors in current account. State domains held as security for notes issued in exchange for Austrian crown	<pre>57,934 25,931</pre>	170, 277 26, 245	250, 981 20, 530	246, 884 22, 107	248, 576 23, 771	276, 071 25, 788	601, 976 28, 674	{ 378, 965 {2, 904, 327	334, 273 4, 083, 941	312, 119 4, 205, 432
notes		3, 265	3, 250	3, 249	5, 097		6, 337	2, 138, 377 4, 962	2, 138, 377	2, 138, 377
Total	181, 304	402, 085	548, 312	565, 916	580, 968	619, 975	1, 087, 401	6, 124, 893	7, 555, 887	8, 525, 996
LIABILITIES.										
Capital paid in Surplus Notes in actual circulation Deposits in current account Due to Government—currency exchange	10,000 705 91,201 2,968	10,000 705 167,261 2,933	10, 000 705 297, 751 7, 934	10, 000 705 298, 993 10, 546	10, 000 705 294, 893 11, 149	10, 000 705 340, 569 6, 354	$10,000 \\ 705 \\ 664,007 \\ 15,414$	220, 638	235, 364	18, 211 4, 930 25, 039, 883 252, 669
account as per contra Other Government deposits. State domain account as per contra Sundry liabilities	73, 237 3, 193	217,795 3,391	227,598 4,324	239,900 5,772	256, 238 7, 983	252, 583 9, 764	387,811 9,464	378, 965 36, 736 2, 138, 377 9, 795	334, 273 136, 013 2, 138, 377 8, 495	312, 119 715, 059 2, 138, 377 44, 748
Total	181, 304	402, 085	548, 312	565, 916	580, 968	619, 975	1,087,401	6, 124, 893	7, 555, 887	8, 525, 998
MEMORANDUM.							1			
Surety account Ordinary safe deposits Balances on current accounts Securities deposit account	48, 476	360 19, 507 66, 567 1, 794	360 35, 122 48, 496 1, 815	360 40, 681 48, 580 1, 961	360 37, 396 48, 845 2, 837	360 38, 842 50, 742 3, 434	355 28, 010 53, 353 6, 376	968,746		

¹ On February 1, 1920, the new National Bank'of the Kingdom of Serbs, Croats, and Slovenes succeeded the Privileged National Bank of the Kingdom of Serbia, which had been in existence from June 1, 1884, to January 31, 1920. ² Including notes held by the bank among its assets.

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NATIONAL BANK OF RUMANIA.

[From annual reports and weekly statements of the National Bank of Rumania.]

[In thousands of lei.]

	Dec. 31, 1913.	Dec. 31, 1914.	Dec. 31, 1915.	Dec. 31, 1916.	Dec. 31, 1917.	Dec. 31, 1918.	Dec. 31, 1919.	Dec. 31, 1920.	Dec. 31, 1921.	Dec. 31, 1922.
ASSETS.										
Gold in vault Silver and subsidiary coin	$151, 511 \\ 1, 302$	153,957 735	187, 897 279	112 188	2 165	6 193	1,347 202	1,704 352	1,704 312	39, 300 834
Total metallic reserve Notes of the Banque Générale Roumaine.	152, 813	154,692	188, 176	300	167	199 122,984	$1,549 \\ 61,727$	2,056 71,250	2,016	40, 134
Gold deposits in foreign countries Foreign exchange and Treasury gold cer-	· · · · · · · · · · · · · · · · · · ·	100	33,073	493,156	493, 730	493,730	493,755	493,755	493,755	493,755
Loans against other collateral. Loans to agricultural and industrial loan	56, 534 207, 746 48, 078 17, 385	$\begin{array}{r} 62,941\\ 246,130\\ 59,382\\ 22,345 \end{array}$	80, 980 198, 441 37, 987 18, 875	$\begin{array}{r} 80,980\\ 127,651\\ 56,974\\ 23,055\end{array}$	196, 258 117, 994 46, 419 47, 496	348, 796 70, 524 36, 293 49, 290	915, 763 158, 812 58, 971 689, 717	2,704,763 702,483 130,297 744,343	4,086,131 1,829,630 172,627 724,979	$\substack{\textbf{4,636,932}\\\textbf{3,684,976}\\229,069\\24,185}$
Advances to the Government:			28,951	12, 839	9, 461	4,768	25, 370	26, 806	58, 112	97, 956
For general expenses (1914–1921) For redemption of foreign currency	12,802	$11,274 \\ 109,111$	9,687 305,023	9, 687 495, 830	8, 043 1, 051, 919	8, 043 1, 596, 102	8, 043 3, 792, 765	8,043 4,092,602	8,043 5,281,379	8,043 5,282,136
All other securities. Debits in current account. Bank premises, furniture, and equipment. Sundry assets.	$35,603 \\ 13,541 \\ 7,544 \\ 11,400$	34,655 34,577 7,813 27,690	43,724 20,234 7,862 27,988	50, 191 397, 510 7, 837 30, 967	52, 189 426, 532 7, 837 20, 065	52, 335 431, 055 7, 780 92, 155	$52,451 \\ 10,175 \\ 7,938 \\ 120,832$	4,098,297 58,752 9,573 8,241 990,370	7,074,349 59,089 25,586 15,533 285,167	7,024,952
Total	563,446	770,710	991,001	1,786,977	2, 478, 110	3, 314, 054	6, 397, 868	14, 141, 631	20, 116, 396	22, 254, 119
LIABILITIES.		, <u></u>								
Capital paid in Surplus Special reserves. Bank notes in circulation Current account and demand deposits Sundry liabilities.	31,547 37,829	$\begin{array}{c} 12,000\\ 39,403\\ 8,474\\ 578,244\\ 51,056\\ 81,533\\ \end{array}$	$\begin{array}{c} 12,000\\ 42,045\\ 10,256\\ 762,210\\ 91,955\\ 72,535\\ \hline \end{array}$		182,108 259,993	$12,000 \\ 52,491 \\ 16,682 \\ 2,489,146 \\ 308,483 \\ 435,252 $	$ \begin{array}{r} 12,000 \\ 56,208 \\ 25,056 \\ 4,215,032 \\ 895,983 \\ 1,193,589 \\ \end{array} $	824, 284 3, 740, 213	4,453,484	12,00068,06420,37415,126,4722,078,1344,949,075
Total	563, 446	770,710	991,001	1,786,977	2, 478, 110	3,314,054	6,397,868	14, 141, 631	20, 116, 396	22, 254, 119

¹ Includes 30,000,000 lei due to the agricultural and industrial loan banks.

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NATIONAL BANK OF BULGARIA.

[From annual reports and monthly statements of the National Bank of Bulgaria.]

[In thousands of leva.]

	Dec. 31.	Dec. 31.	Dec. 31,	Dec. 31,	Dec. 31,	Dec. 31,	Dec. 31.	Dec. 31,	Dec. 31,	Dec. 31.
	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.	1921.	1922.
						<u> </u>				
ASSETS.										
Gold Silver	55,335 23,416	55,094 28,549	61,409 22,462	$68,173 \\ 17,204$	62,855 16,876	64,020 19,435	$36,978 \\ 17,429$	37,075	38,006	38,420
								16,910	20,866	18, 412
Total metallic reserve Foreign bank notes	78,751	83,643	83, 871	85, 377	79, 731	83, 455	54,307 23,562	53,985 14,023	58, 872 2, 435	56,832 1,323
Due from foreign correspondents	12,161	2,914	194.372	41.044	42,086	95,749	1.003.132	1, 307, 377	986,726	795, 821
Foreign bills of exchange	1,590	22,697	58, 785	650, 787	1, 197, 693	1,090,441	362,277	273, 167	121,324	2,142
Bills discounted	41,088	40, 097	35,436	28,616	24, 123	20,708	16,563	14,540	33,651	211, 542
Debtors in current account	64, 160	75, 867	د 1, 741	40, 042	77, 793.	527, 481	484, 840	419, 582	554, 403	679, 429
count	142,900	154,823	146, 898	260,776	621,331	881,339	1,742,194	2,891,748	3,667,507	3,770,335
Advances to the Treasury in current ac- count Long and short term advances against collateral	112,000	,	,	,	,	,	· ·		, ,	, ,
collateral	70,089	78, 514	80,425	81,309	76, 573	72, 891	71,309	73, 516	115, 146	200,969
Public debt administration		•••••		•••••	•••••••	•••••	8,464	1,862 8,311	8,448	297, 913
Public securities Participations		•••••	•••••	••••		•••••	3,162	3 512	3,411	$18,942 \\ 14,987$
Exporters' liabilities									14, 881	9,394
Exporters' liabilities. Exporters' foreign exchange bills Treasury bonds.					• • • • • • • • • • • •		• • • • • • • • • • • • •		124,282	254,055
Treasury bonds				• • • • • • • • • • • •			221,385 2,063	$ \begin{array}{c} 42,140\\ 2,127 \end{array} $	49,802 2,310	21 4,872
Real estate and furniture Sundry assets				•••••	• • • • • • • • • • • •	•••••	2,005	51,076	42,985	4,872
Total							4 079 790	5,156,966	5,786,183	6, 441, 470
							4,078,780	3,130,900	5,780,185	0,441,470
LIABILITIES.								1		
Capital paid in						• • • • • • • • • • • • • • • • • • •	100,000	100,000	100,000	200,000
Surplus and special reserves					- 		55,000 3,280	63, 205 226, 913	70,000 237,824	40,000 292,060
			369, 829				2,858,486	3,354,139	3,615,440	3, 885, 990
Notes in circulation. Creditors in current account	134.417	136, 878	187,095	206,693	408,438	623,174	775,873	1,072,723	969, 735	1,248,865
Time deposits.	50,468	55, 210	59,225	66, 718	85, 825	101,158	120, 856	152, 457	218, 118	209,532
Export license account as per contra		•••••				•••••		· · · · · · · · · · · · · · · ·	14, 881	9, 394
Due to Government on account of ex- porters' foreign exchange bills as per		1				1	}			
contra					<i>.</i>				124,282	254,056
Balance due on account of mortgage loan,										
1909. Dublic debt account of moregue roun;		¦				· · · · · · · · · · · · · · · · · · ·	26,590 326	26,150	25,710	25,240
Public debt account	· · · · · · · · · · · · · · · · · · ·	••••••	•••••		•••••		326 138,369	161,379	106,101 304,093	276,333
Sundry liabilities Total				<u> </u>			4.078.780	5,156,966	5,786,183	6,441,470
1 Olai	••••••					•••••	4,018,180	5, 100, 900	0,180,183	0,441,470
	· · · · · · · · · · · · · · · · · · ·	•	/		1	,		1		

BANK OF FINLAND.

[From annual reports and weekly statements of the Bank of Finland.]

[In thousands of Finnish marks.]

	Dec. 31, 1914.	Dec. 31, 1915.	Dec. 30, 1916.	Dec. 31, 1917.	Dec. 31, 1918.	Dec. 31, 1919.	Dec. 31, 1920.	Dec. 31, 1921.	Dec. 30, 1922.
ASSETS.									
Gold Silver	$\begin{array}{r} 42,674 \\ 1,666 \end{array}$	$42,641 \\ 1,301$	42,651 942	42,629 814	42,661 536	42,628 536	42,625 537	42,625 547	43, 373 547
Total metallic reserve Due from foreign correspondents Foreign bank notes and coupons Domestic bills Foreign bills Loans against mortgages and other collateral Foreign securities. Short term advances to the Government Other advances to the Government Bank premises and furniture Sundry assets	85,242 2,646 60,420 5,196 25,787 22,471 	43 942 253,648 3,121 51,697 4,643 8,840 65,851 	43,593 275,107 2,642 34,171 2,121 5,583 256,884 	43, 443 464, 250 2, 021 34, 807 357 5, 838 434, 423 3, 466 47, 234	$\left.\begin{array}{c} 43, 197\\ 355, 064\\ 164\\ 45, 143\\ 712\\ 23, 322\\ 406, 774\\ 427, 069\\ 3, 378\\ 51, 825\end{array}\right.$	$\begin{array}{c} 43, 164\\ 74, 554\\ 358\\ 158, 632\\ 81, 735\\ 31, 667\\ 171, 914\\ 823, 406\\ 3, 378\\ 9, 122\\ \end{array}$	5,876 20,736	$\begin{array}{r} 43,172\\215,711\\774\\627,445\\8,347\\28,435\\9,238\\303,919\\525,464\\6,000\\51,696\end{array}$	
Total	289,281	477,241	667, 501	1,035,839	1,356,648	1,397,930	1,619,584	1,820,201	2,124,899
LIABILITIES. Capital paid in. Surplus. Undistributed profits Notes in circulation . Government deposits. Current account deposits. Bank orders . Due to foreign correspondents. Sundry liabilities.	16, 134 141, 724 8, 721 14, 695 983 8, 063 2, 161	25,000 62,586 4,000 231,614 9,074 136,689 3,354 1,869 3,055	25,000 62,498 8,198 421,284 9,252 116,076 1,203 16,044 7,946	4,715 764,485 10,005 237,840 3,351 7,928 7,515	1, 156, 196 60, 446 108, 615 6, 430 11, 278 8, 968	$\begin{array}{c} 25,000\\ 71,892\\ 25,939\\ 1,123,943\\ 6,078\\ 117,031\\ 6,658\\ 8,308\\ 13,081 \end{array}$	$100,000 \\ {}^{1}23,583 \\ 48,388 \\ 1,341,042 \\ 26,065 \\ 53,139 \\ 6,735 \\ 5,810 \\ 14,822 \\$	$100,000 \\ 56,000 \\ 69,984 \\ 1,356,108 \\ 128,563 \\ 57,855 \\ 2,831 \\ 12,610 \\ 36,250 \\ \hline$	$100,000 \\ 50,000 \\ 39,505 \\ 1,420,920 \\ 239,311 \\ 110,551 \\ 5,411 \\ 35,311 \\ 123,890 \\ \hline$
Total	289,281	477, 241	667 , 501	1,0 35, 839	1,356,648	1,397,930	1,619,584	1,820,201	2, 124, 899

¹ Including an "unmovable" reserve of 5,876,000 marks,

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