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(FINAL EDITION)

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Reserve System. Additional copies may be had as a subscription price preserve preserve preserve preserve preserve preserve preserve banks. For this second edition the Board has fixed a subscription price of \$4 per annum to cover the cost of paper and printing. Single copies will be sold at 40 cents. Foreign postage should be added when it will be required. Remittances should be made to the Federal Reserve Board. No complete sets of the BULLETIN for 1915, 1916, 1917, or 1918 are available.

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FEDERAL RESERVE BULLETIN

Vol. 8

NOVEMBER, 1922.

No. 11

REVIEW OF THE MONTH.

Developments in the business situation during the past year have resulted in current conditions which differ widely **Recent** course from those prevailing during of business. the first half of 1921. At that

time business was endeavoring to adjust itself to a continued fall in prices, industry was inactive, and unemployment large. Since the beginning of this year the level of prices has been advancing and the volume of industrial output increasing. The series of changes by which this new condition was brought about constitute so important an influence on the course of business as to call for some account of the process. Effects of a business resumption are so uneven among various industries that the process of readjustment may continue for some time before a general change of direction is noticeable. Looking back over the recent period, however, it is now possible to discern certain well-marked movements that have taken place. Some of the developments are still too much within the present to be fully apprehended, but their significance is clearer even in short retrospect than at the time they occurred. The purpose in reviewing the movements of prices, production, and the volume of business is not to draw from the record any inferences about the future, but merely to describe and measure the changes already effected.

In general outline, the course of readjustment has been clear and well defined. After the decline in the levels of production and prices during 1920-21, production began to increase in July, 1921, and at about the same time prices entered upon a period of relative stability. Early in 1922 prices joined production in the upward movement, and the combined effect of the two was to increase the which extended from June, 1921, to January,

volume of business. As a factor influencing the economic wealth of the Nation greater output may be regarded as more fundamental than price changes, but the readjustments in prices during 1921 helped to bring about increased production. Business was emerging from depression and the new confidence created by the change in prices led to the placing of orders and contracts. Price readjustments which stimulate production have a different significance from price advances which continue after industry has reached its productive capacity and when further advances register merely competitive bidding.

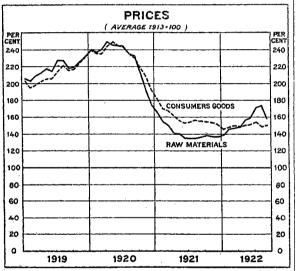
The character and extent of the influence exercised by prices become evident only when

the readjustments between cer-Price readjusttain groups of prices are conments and busisidered in some detail. Durness resumption. ing the downward swing of the

price level from the peak in May, 1920, to the beginning of relative stability in June, 1921. the prices of raw materials fell 45 per cent to an index of 135 (prices in 1913 = 100), while the prices of goods bought by consumers fell only 39 per cent to a level of 153. The cost of materials fell more rapidly than the prices at which finished products could be sold-a readjustment which offered an incentive to certain lines of industry to resume business activity and to increase output. Monthly changes in the prices of these two groups of commodities from January, 1919, to September, 1922, are shown graphically in the accompanying The groups, which include 88 raw chart. materials and 199 consumers' goods, are a reclassification of certain commodities used by the Bureau of Labor Statistics in constructing its index of wholesale prices.

The period of relative stability in prices,

1922, furnished a basis for business recovery. During the first six months of this period the index of wholesale prices alternated between 142 and 141-a longer period of relative stability than the business community had experienced during five years preceding. This relative constancy in the general average was, in fact, the result of diverse movements within the system of prices. Important readjustments among groups during these eight months were the increase of 7 per cent in the prices of farm products and the decrease of 15 per cent in the prices of metals and metal products. Higher prices for the farmers' products coming at the crop-marketing time enlarged his buying power, while the lower prices of iron and steel called forth new orders.



In January, 1922, came the turning point for the current upward movement in prices. From that month until August the index of wholesale prices increased from 138 to 155, an advance of 12 per cent. All of the important groups shared in the rise, the fuel group leading the advance with an increase of 39 per cent. The influence of the higher price of coal was reflected in increased prices of coke, pig iron, and other commodities in which the cost of coal is a large factor. During September, when coal prices fell in response to larger supply, the general index decreased to 153, the effect of the decline in the fuel group being partly offset by advances in building materials average level of production continued to fall.

and in metal products. In considering the increase of the price level since the first of the year it is important to distinguish between those advances which have been accompanied by either a present or prospective decrease in supply, as in coal and cotton, and those increases, as in building materials, where the advance has been accompanied by larger output. Recently the prices of commodities have been affected by the difficulties of distribution arising out of the car shortage.

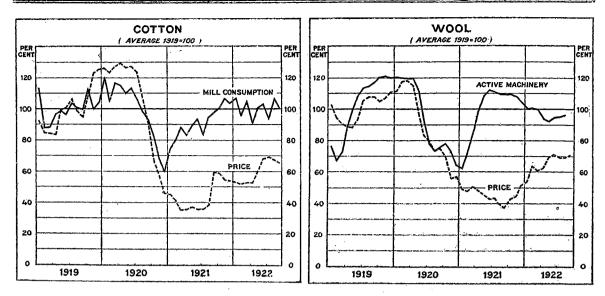
Percentage changes in the price indexes of groups of commodities during the periods referred to above are shown in summary in the table below. Column 1 shows the per cent of decline from the peak in May, 1920, to the beginning of stability in June, 1921; column 2 shows the readjustment among the groups during the period when the general level was relatively stable; and column 3 shows the change from the low point in January, 1922, to the latest month available, September, 1922.

PERCENTAGE CHANGES IN INDEX NUMBERS OF GROUPS OF COMMODITIES BETWEEN SELECTED DATES.

Commodity groups.	May, 1920, to June, 1921.	June, 1921, to Janu- ary, 1922.	January, 1922, to September, 1922.
All commodities. Farm products. Foods. Cloths and clothing. Fuel and lighting. Metal and metal products. Lumber and building material. Miscellaneous. House furnishing goods. Chemicals and drugs.	$ \begin{array}{r} -44.8 \\ -47.6 \\ -20.1 \\ -34.1 \\ -44.4 \\ -39.9 \end{array} $	$\begin{array}{r} -2.8 \\ +7.0 \\ -4.4 \\ +2.3 \\ +2.1 \\ -15.8 \\ -3.7 \\ -6.4 \\ -9.2 \\ -6.8 \end{array}$	$\begin{array}{r} +10.9\\ +9.0\\ +5.3\\ +4.0\\ +25.1\\ +19.6\\ +14.7\\ -2.8\\ 0.0\\ \end{array}$

The course of production in basic industries also reflects the readjustments incident to busi-Changes in the ness recovery. The general involume of pro- crease in output which began duction. in July, 1921, coincided with the beginning of the period of price stabilization and preceded by six months the advance in the price level. As in prices, the changes in the general level of production were the outcome of diverse movements in different industries. The textile industry, for example, began its increased production a half year earlier than iron and steel. During the first six months of 1922, when the output of pig iron was declining, the



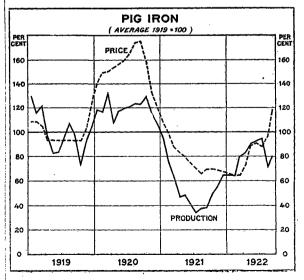


By the middle of 1922, a year after the general advance began, the output of 34 kinds of manufactured goods for which monthly production figures are available rose above the level of 1919. The production of minerals reached its peak in March, 1922, because of the large production of bituminous and anthracite coal, and then declined during the months of the miners' strike. In spite of this decline the index of the combined output of the mines and factories was as high in July, 1922, as the 1919 index of monthly production in these basic industries.

Of particular interest is the textile industry, because it was among the earliest to feel the effect of business reaction in 1920, and one of the first to recover. For the purpose of indicating the course of the industry through this period of readjustment, the mill consumption of cotton and the activity of woolen machinery have been charted, together with the price movements of cotton and wool. The change in each of the series is measured by comparison with the monthly average of 1919. Prices fluctuated over a wider range than production, continuing upward in 1920 after production had reached a maximum and falling to relatively lower levels in the subsequent decline. Production reached its low point at the close of 1920 and began to recover, while prices of materials did not begin to increase until eight months later. The strikes in the New England mills curtailed the production of cotton textiles from April to July of the present

year, but during August production was greater than in any month since June, 1920. Prices of cotton and wool were, of course, affected by many complex factors, but important among these was the resumption of industrial activity. The relationship between production and prices indicated by the chart is an instance in a single industry of what occurred generally during this period—a lag of the price level behind the level of production.

Production and prices of pig iron also show this tendency, prices in 1920 mounting after production reaches the peak and production in 1921 starting upward in advance of prices. Both the decline and the revival of activity in iron and steel came six months later than in



the textile industry. In general, during this period the renewed demand by consumers for such commodities as clothing and shoes preceded the demand by business men for industrial equipment and steel products. During recent months the output of iron and steel has been checked by a shortage of cars available for distributing the products. Here, as in other industries, the after-effects of the strikes of the railroad shopmen and the coal miners are being felt in production and in prices.

Despite the strikes, however, since the beginning of the year the movement of goods has maintained a high level. Each month the total car loadings have been above the average of the corresponding months of the three preceding years. During the months of the coal strike the loading of coal fell to approximately 50 per cent below the three months' average of previous years, but was more than offset by the increased loadings of other goods. The freight movement of heavy structural material tended to maintain the total loadings.

Activity of the building industry, which has been a feature of the business recovery, has carried with it a demand for materials which has increased production in basic industries. During 1922 the volume of building contracts and the monthly production of lumber, cement, and brick have been greater than for the corresponding month of last year. Contracts for building residences were the first to increase, but later the contracts for other classes of buildings grew in volume, and after June, 1922, when contracts for residences passed the high point, an increasing proportion of total construction consisted of buildings for nonresidential purposes. The extensive character of these building operations, the influence exerted by them upon other industries, and the fact that they have been general throughout the country have been important factors in increasing the total volume of business.

One of the best single indicators of the total volume of business transactions is bank debits.

Bank debits as index of business volume. These figures, reflecting mainly the amount of checks drawn on banks in 141 leading clearinghouse centers, have been af-

fected by the movements of commodity prices and production already described, as well as

by changes in the volume of investment and speculation. During the first half of 1921, with the decline in production and price and the decrease in speculative activity, total debits were continuously below the level of 1920. In the latter part of the year, however, with production increasing, prices fairly stable, and the usual seasonal influences operative, bank debits began to rise. This rise reflected also the revival of stock exchange activity, as indicated by the fact that in New York City debits advanced 36 per cent between August and December, 1921, while for centers outside of New York City the increase was 17 per cent.

For every month of 1922, except January, the total of checks drawn has been larger than a year ago, and for September, 1922, the total was 14 per cent in excess of September, 1921. This increase has not been confined to any single locality, nor to any one form of business activity. In every Federal reserve district, whether primarily agricultural in character or chiefly industrial, the level of bank debits for recent months has been higher than last year. A closer analysis of bank debits in New York City and in other centers shows that the rise has not been caused merely by speculative activity, and that during recent months speculation has played a smaller part than earlier in the year.

BANK DEBITS IN 1922.

1	Tn	millions	ഹ	dollars l	
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Month.	New York City.	Other 140 centers.	Percentage above (+) or below () 1921 debits.		
			New York City.	Other centers.	
January February March. April May June. June. July August September.	20, 717 21, 654 22, 063 19, 713 18, 287	$\begin{array}{c} 15,870\\ 14,040\\ 16,531\\ 15,666\\ 16,317\\ 17,168\\ 16,316\\ 15,817\\ 16,523\end{array}$	+26.1	$\begin{array}{c} -9.5 \\ -1.3 \\ +2.5 \\ +1.3 \\ +9.2 \\ +11.4 \\ +10.6 \\ +8.8 \\ +9.3 \\ \end{array}$	

Throughout the year the figures for New York City, where the volume of bank debits is affected by security transactions, show a much larger increase over the preceding year than the figures for other centers, but the difference narrows decidedly during the more recent months. The increase in the volume of business and the changes in prices and production have not

The demand in for banking accommodation.

been paralleled by corresponding changes in the volume of bank lending. The relation between the member banks and

their borrowers on certain dates is indicated by the statements of condition of all member banks. Lack of parallelism between the volume of business and the volume of bank credit is apparent from the fact that between June, 1921, and June, 1922, the loans and discounts of member banks decreased 5 per cent, while during the same period the price level advanced 5.6 per cent; production in basic industries increased 24 per cent and the volume of business, as measured by bank debits, expanded 19 per cent. In spite of the resumption of business activity, the process of loan liquidation, which began in November, 1920, more than a half year after prices and production reached their peaks, has continued almost without interruption until a short time ago. During the period when loans and discounts were decreasing there was a considerable increase in bank investments. In view of the many factors which influence the movements of bank loans, no close relation to the physical volume of trade is to be expected. Prices in 1922 are lower than in 1920, and industry, even though active, can consequently be financed with a smaller volume of credit than two years ago. Moreover, the continued loan liquidation in certain lines of industry has furnished funds to finance new business without expanding the total of loans. The loans and discounts of all member banks, by Federal reserve districts, on each call date between June 30, 1921. and June 30, 1922, are shown in the following table:

LOANS AND DISCOUNTS OF ALL MEMBER BANKS. [In millions of dollars.]

June 30, 1921.	Dec. 31, 1921.	Mar. 10, 1922.	June 30, 1922.						
1,336	1,306	1,305	1,308						
5,110	4,894	4,709	4,799						
			1,022						
1.684			1,624						
884			855						
687	685	657	654						
	2,719	2,706	2,701						
774	764	751	739						
758	712	694	687						
907	858	828	843						
638	594	585	588						
1,478	1,455	1,435	1,476						
18,206	17, 484	17, 161	17, 296						
	1921. 1,336 5,110 1,080 1,684 884 687 2,870 774 758 907 638 1,478	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$						

While this table does not show how loans changed during the months between the call dates, yet it reveals certain trends. In most of the districts increases in loans during the latter part of the period are recorded, the increase starting as early as December, 1921, in the Boston, Cleveland, and Atlanta districts, and in March, 1922, in the New York, Richmond, Kansas City, Dallas, and San Francisco districts. There are four districts, however, where no advances in loans were noted on June 30, 1922. These districts are Philadelphia, Chicago, St. Louis, and Minneapolis.

More recent figures available for member banks in leading cities indicate that a decided

upward trend in the demand Recent increase for loans has been manifest in member bank since the end of August. Total loans. loans and discounts of these banks increased between August 30 and October 18 by \$544,000,000, increases being shown for member banks in all the Federal reserve districts. The big increases reported are for loans secured by stocks and bonds-\$280,000,-000-and for all other loans, largely commercial, \$239,000,000. The figures indicate that while the increase in loans secured by stocks and bonds, which represents in the main an increase in speculative rather than in commercial and industrial activity, occurred chiefly in the eastern centers, notably in the New York, Boston, Philadelphia, and Cleveland districts, commercial loans show increases in all the districts, though the largest increases are reported for the New York and Chicago districts.

Increased loan activity during recent weeks has been accompanied by a slackening in the banks' investment operations. Omitting for a moment the developments of the most recent week, it appears that member banks in leading cities between August 30 and October 11, while increasing their loans by \$357,000,000, liquidated a total of \$88,000,000 of investments, of which \$65,000,000 represents Government securities and \$23,000,000 corporate securities. On October 15 the Treasury allotted \$511,000,000 of refunding bonds, and the condition of the reporting member banks on October 18 reflects this operation by an increase of \$142,000,000 in holdings of United States bonds, this increase being considerably more than sufficient to offset the liquidation of investments during the preceding 10 weeks.

The increase of loans by reporting member banks during the last few weeks has been ac-

Demands upon Federal reserve banks.

companied by increased borrowings from the Federal reserve banks. Between August 30 and October 25 discounted

bills held by Federal reserve banks increased by \$65,000,000, all the districts showing increases except Minneapolis, Dallas, and San Francisco. This resumption in the demand for reserve bank credit on the part of member banks is no doubt partly seasonal in character and partly the outcome of the growth in the volume of business. On October 25 the amount of discounted bills held by Federal reserve banks was \$469,000,000, representing a reduction of 84 per cent from the total of \$2,827,000,000 held on November 5, 1920, the date when borrowings by member banks reached the highest figure. Thus member banks repaid their borrowings from the reserve banks as the liquidation of their own loans proceeded. Because of the nature and function of the reserve banks the decline in their discounts was much more rapid relative to its total than the reduction in loans of member banks. Furthermore, the extent of repayment has been much greater for member banks in leading cities than for banks outside of these cities, as is evident from the fact that bills discounted for reporting member banks in leading cities decreased 95 per cent between November 5, 1920, and August 30, 1922, while discounts for nonreporting banks outside these cities decreased but 50 per cent. The increase of \$107,000,000 in borrowings between August 30 and October 18 reflects an increase of \$147,000,000 in accommodation to reporting member banks, offset by a decrease of \$40,-000,000 in accommodation to nonreporting member banks. Liquidation of reserve bank loans was thus much more complete for city banks than for country banks, but liquidation of loans to city banks came to an end in midsummer of 1922, while the liquidation of loans to country banks still continues.

In considering the relation between the volume of credit and the volume of business during the current year, the outstanding fact is that credit

business have not until recently led member banks to seek accommodation at Federal reserve banks. The extent to which member banks will turn to the reserve banks in the immediate future will largely depend upon the course of production and prices. When the present seasonal demand for credit has passed it will be easier to determine the degree to which the recent increase in borrowings at reserve banks has been caused by a general upward trend in business.

*

The governors of the Federal reserve banks and the Federal reserve agents held their regu-

lar fall conferences in Wash-Conferences at ington during the week of Octo-Washington. ber 8. The governors and agents met separately for the discussion of matters pertaining to operations of the Federal reserve banks and joint sessions were held with the members of the Federal Reserve Board.

On November 3 the Federal Reserve Board designated W. B. Newsome as Federal reserve

agent and chairman of the Personnel. board of directors of the Federal Reserve Bank of Dallas for the term ending December 31, 1922, to fill the vacancy created by the death of Wm. F. Ramsey, which occurred on October 27.

TREASURY FINANCE.

Latest returns for the refunding loan of October 16, 1922, as compiled by the Treasury Department, show that the cash subscriptions for the new 41 per cent Treasury bonds of 1947-1952 totaled \$1,399,851,900, while allotments on cash subscriptions received totaled \$512,390,000. In addition, subscriptions aggregating \$252,060,900 were received in the form of exchanges of 4³/₄ per cent Victory notes and December 15 Treasury certificates, making total subscriptions for the offering in excess of \$1,651,900,000. Subscriptions on the exchange offering were allotted in full, so that the total allotments on both cash and exchange offerings slightly exceed \$763,400,000. In accordance with previous announcement, allotments of cash subscriptions were made on a requirements arising out of the expansion of graduated scale, all subscriptions for amounts not exceeding \$10,000 for any single sub-
scription being allotted in full; subscriptions\$500,000, 20 perfor over \$10,000 but not exceeding \$50,000,
40 per cent; subscriptions for over \$50,000 but
not exceeding \$100,000, 30 per cent; sub-
scriptions for over \$100,000 but not exceeding
following table:\$500,000, 20 per

\$500,000, 20 per cent; subscriptions for over \$500,000 but not exceeding \$1,000,000, 15 per cent, and subscriptions for over \$1,000,000, 10 per cent. The results of these allotments by Federal reserve districts are shown in the following table:

	Cash subscriptions.								
Federal reserve district.	Received.	Allotted.	\$10,000 and under.	\$10,100 to \$50,000.	\$50,100 to \$100,000.	\$100,100 to \$500,000.	\$500,100 to \$1,000,000.	Over \$1,000,000.	tions re- ceived and allotted (in full).
Boston New York Philadelphia Cleveland Richmond Atlanta Ohicago St. Louis Minneapolis Kansas City Dallas San Francisco. Total	\$113, 390, 400 667, 994, 100 103, 788, 500 37, 070, 800 29, 608, 100 134, 942, 800 55, 300, 100 33, 369, 300 40, 564, 900 16, 076, 800 67, 390, 800 1, 399, 851, 900	\$62, 700, 300 198, 382, 100 46, 200, 000 20, 345, 800 14, 158, 100 14, 158, 100 152, 992, 000 31, 244, 200 9, 551, 700 12, 000, 000 5, 439, 200 18, 892, 400 512, 390, 000	\$49,015,900 106,261,700 32,523,900 127,785,000 15,865,900 10,077,400 34,705,300 24,625,200 5,522,600 5,552,600 3,322,300 3,322,300	\$3,025,200 9,874,300 3,478,000 1,022,900 1,224,400 3,544,400 1,633,200 1,016,200 379,400 1,879,000 29,718,200	$\begin{array}{c} \$2, \$44, 600\\ 9, \$22, 400\\ 2, 034, 800\\ 1, 488, 000\\ 1, 488, 000\\ 483, 800\\ 2, 219, 000\\ 1, 737, 600\\ 346, 500\\ 752, 500\\ 921, 500\\ 23, 714, 500\\ \end{array}$	\$4,906,800 23,366,000 4,087,400 1,560,000 1,560,000 5,602,000 1,001,000 1,001,000 1,04,000 2,553,000 52,648,600	$\begin{array}{c} \$1, 632, 500\\ 16, 355, 700\\ 1, 850, 000\\ 1, 850, 000\\ 1, 20, 000\\ 2622, 500\\ 3, 808, 800\\ 502, 500\\ 600, 000\\ 994, 500\\ 300, 000\\ 1, 047, 500\\ \hline\end{array}$	\$1,275,300 29,702,000 2,592,600 3,550,000 3,112,500 906,700 1,350,000 3,163,100 48,447,600	\$19,508,408 146,589,600 7,545,600 18,210,700 3,662,200 7,097,300 2,245,000 2,242,500 5,270,700 1,762,100 1,2752,900

1 Includes \$2,848,100 allotted to the Treasury.

The successful consummation of this large financial operation marks the second phase in the execution of the loan refunding policy inaugurated in 1921 by the present administration. The first phase may be said to cover the period from April 30, 1921, when the Treasury first announced its refunding program, to the close of September of the present year, during which the short-term debt, i. e., the debt maturing within about two years from the beginning of the period, was reduced from about \$7,500,000,000 to about \$3,500,-000.000, through refunding of about \$2,743,-000,000 into Treasury notes with maturities spread over the period from June 15, 1924, to September 15, 1926, and the retirement of the balance. The second phase of the refunding program may be said to have been entered with the placing of the present long-term refunding loan, which matures in October, 1952, but may be redeemed on or after October 15, 1947, on four months' notice.

A general idea of the scope of operations in this field during the near future may be had from the following extracts from Secretary Mellon's letter addressed on October 9 to all banks and trust companies:

There will fall due this fiscal year about \$1,100,000,000 income of Treasury certificates of indebtedness, about \$625,000,000 dates. maturity value of war savings certificates of the series of 1918, and about \$1,800,000,000 of Victory notes. Of the terms.

Treasury certificates, about \$48,000,000 represents Pittman Act certificates which will be retired this year through the recoinage of silver bullion, while about \$100,000,000 of loan certificates maturing October 16, 1922, will be paid out of funds already in hand. The retirement of these certificates will leave only tax certificates outstanding, and it will in any event continue to be desirable, with income and profits tax payments as large as they are, for the Treasury to have outstanding at least \$1,000,000,000 of tax certificates in amounts and with maturities conforming to the quarterly tax payments. This correspondingly reduces the amount of necessary refunding into other securities.

After October 16, 1922, the next maturities fall on December 15, and include about \$870,000,000 face amount of $4\frac{1}{4}$ per cent Victory notes called for redemption, and about \$420,000,000 of maturing tax certificates of series TD and TD2-1922, against which the Treasury will receive in December about \$250,000,000 of income and profits taxes. On January 1, 1923, the \$625,000,000 of war savings certificates become payable, but the Treasury has already announced, as you know, a new offering of Treasury savings certificates with a view to refunding as much as possible of the maturity into obligations of the same general character and with the same appeal to the needs of the small investor. The Treasury will shortly announce special facilities for the exchange of maturing war savings certificates for the new Treasury savings certificates, and plans in this manner to provide for a substantial part of the war savings maturity. The only Treasury certificates maturing in the second half of the fiscal year 1923 are about \$266,000,000 on March 15, 1923, and about \$273,-000,000 on June 15, 1923, both of which are covered by the income and profits tax payments estimated for those dates. On May 20, 1923, the remaining \$930,000,000 of 43 per cent Victory notes will mature according to their

BUSINESS, INDUSTRY, AND FINANCE, OCTOBER, 1922.

Difficulties in handling the increased freight traffic due to car shortage have become an important factor in the current industrial situation. The total number of cars loaded increased during September, chiefly because of heavy loadings of coal and live stock, and during the last week of the month the car loadings were greater than for any week since October, 1920. The increase in production of bituminous and anthracite coal was checked in the latter part of September by the general shortage of cars, a shortage of over 40,000 coal cars developing in less than a month after the settlement of the strike. A shortage of box cars appeared in the first week in August, and by October 7 amounted to 71,063 cars. The difficulty in securing cars for shipment has led to some curtailment of production in lumber and finished steel products. The output of pig iron and steel ingots, however, has expanded steadily since August. Cotton and woolen mills continue to operate at close to capacity and shoe factories have a large volume of business. Agricultural receipts, particularly those of live stock, continue to be heavy.

The number employed at industrial establishments throughout the United States increased 2 per cent during September and the average pay per worker is also higher. The largest increases in number of workers occurred at textile mills and at railroad-equipment factories. Following the wheat harvest, surpluses of common labor are now appearing in the West, while increases of activity in the coal and steel industries have caused local shortages of unskilled labor in industrial sections of the East. Certain establishments which manufacture goods with a seasonal demand, such as agricultural implements and automobiles, have decreased their forces.

The chief reporting lines of wholesale trade showed improvement during September. Increases in sales of hardware and furniture as compared with August, 1922, and September, 1921, reflects the large volume of residential building during recent months. Seasonal declines occurred in sales of farm implements and automobile supplies, but sales were much larger than a year ago. Retail trade continued to improve during September and department-store sales were larger in all districts than in September, 1921.

The wholesale price index of the Bureau of Labor Statistics declined from 155 in August to 153 in September. This drop was chiefly due to the decline in coal prices after the opening of the mines. Prices of building materials and metals continued to rise as a result of the prolonged building activity and the scarcity caused by traffic embargoes and the car shortage.

Bank debits to individual accounts in 140 cities, excluding New York, were 4 per cent larger in September than in August, 1922, and 9 per cent larger than in September, 1921. In New York City debits in September were 5 per cent larger than a month earlier and 19 per cent larger than in 1921.

Loans of reporting banks in leading cities show an increase of 366,000,000 for the four weeks ended October 18, and their demand deposits show an advance of 245,000,000. Investments of these banks in United States securities, which showed some decline during the early part of the period, increased by 144,000,000 during the last week when the Government floated its first post-war long-term bond issue. Discounted paper held by the Federal reserve banks shows an increase for the four weeks ended October 25 of 49,000,000, their holdings of acceptances increased by 20,000,000, while Government securities held by these banks declined by 43,000,000. Federal reserve note circulation expanded by 55,000,000 during the period. The reserve ratio shows a decrease from 78.4 to 77.6 per cent. This change in the ratio resulted from the increase in note liabilities, which was only partially offset by an increase of 9,000,000 in cash reserves.

AGRICULTURE.

The latest estimates for most crops are above the final estimates for 1921 and well above the 10-year average, so that 1922 will rank as a good crop year. Preparation of the ground and seeding of winter wheat has made good progress in various sections of district No. 10 (Kansas City). Both in that district and in district No. 8 (St. Louis) seeding is somewhat retarded by observance of the fly-free dates and also by the dry weather. Corn and oats showed the largest decreases during September in prospective production. In district No. 8 (St. Louis), where the husking of corn is well advanced, the returns indicate that quality is somewhat under the average, owing to premature ripening and damage from insects. In district No. 7 (Chicago) the yield per acre was equal to or a little better than a year ago, and the October 1 estimate indicates a total production for the district closely approximating that of 1921. The barley and rye crops show decided increases compared with last year. District No. 12 (San Francisco) reports a very good crop of barley, which is about 12,000,000 bushels larger than that of last year.

The crops which have shown the most marked declines compared with previous years are sugar beets, peanuts, and grain sorghums. The condition of the rice crop in Louisiana remained unchanged during the month and is 1.1 per cent above the 10-year average for October 1 and 3 per cent above the estimate for that date last year. In California the harvest was delayed by September rains, but no damage was reported. Sugar cane in Louisiana declined in condition for the third successive month, but the condition on October 1 was approximately equal to the 10-year average. Prices paid to producers for the principal crops are lower than they were a year ago and materially below the 10-year average, although the decline during September was less than usual for that month.

COTTON.

The condition of the cotton crop has further declined, from 57 per cent on August 25 to 50 per cent on September 25, and there has been a corresponding reduction of 440,000 bales in forecasted production. Prior to October 18, 6,962,034 bales had been ginned, compared with 5,497,364 bales and 5,754,582 bales on the corresponding dates in 1921 and 1920. The price of middling upland cotton at New Orleans on October 18 was 22.50 cents, compared with 20.75 cents on September 20.

These figures indicate that the crop is opening faster than usual, and the rapidity with which the staple is being picked is the prin- | are operating at capacity. Stocks of cigars in

cipal feature in most districts. The deterioration in the condition of the crop is very general throughout the cotton-growing section, but the condition is lowest in Georgia and South Carolina. In district No. 11 (Dallas) the decline is attributed to the army worm and the weevil. The cooler weather in October, however, has checked the premature opening of the bolls.

FRUIT.

With the exception of grapes, the bulk of the deciduous fruit crop of California has been shipped. A shortage of refrigerator cars for grape shipping has been very keenly felt, as the crop has been especially good. The yield and the carload shipments of pears and plums also showed increases as compared with the two previous years. Early varieties of apples have been harvested and marketed, and harvesting of later varieties began during September. The forecasted yield in apples is smaller than the 1921 final estimate. The reduction has occurred mainly in Washington, where the quality as well as the quantity is unsatisfac-tory. Prices obtained for early apples were lower than those of last year, owing to the abundant apple crop in the East. Late fruit crops in district No. 8 (St. Louis) are large and truck gardens are in good condition.

Prices of both oranges and lemons show a marked advance over last month and September, 1921. The condition of oranges and grapefruit in Florida has improved during September, the fruit developing excellent sizes. Last month's estimate of 15,000,000 boxes will probably be exceeded.

TOBACCO.

The condition of the tobacco crop has improved slightly during the month and on October 1 was only 2.6 per cent below the 10-year average. Weather has been favorable for marketing and the crop is being rapidly sold in dis-trict No. 5 (Richmond). Most of the South Carolina crop has now been marketed. Sales at the Virginia markets during September totaled 1,585,313 pounds for an average of \$20.84 per 100 pounds, compared with 1,719,206 pounds at an average price of \$16.69 per 100 pounds during September, 1921. District No. 4 (Cleveland) reports that on account of the dry summer the burley crop will be smaller than was anticipated. The condition of the crop in Tennessee and Kentucky, however, indicates a substantial increase over the 1921 yield. The entire crop in that section, in both the burley and dark districts, has been cut and housed.

Cigar manufacturers in district No. 3 (Philadelphia) report a continued improvement in demand, and most of the larger manufacturers the hands of manufacturers are decreasing and are at present very light. Most raw materials can be secured in any quantity desired, but the price trend is upward for all grades of tobacco. Prices of cigars are firm but reports of advances are rare, as the present policy of manufacturers is to continue current prices.

AGRICULTURAL MOVEMENTS.

Grain receipts at 17 interior centers totaled 134,623,165 bushels in September, a slight increase as compared with last month and September a year ago. Receipts of corn showed the most noteworthy increase, and receipts of wheat, oats, and rye declined slightly. Wheat receipts at Chicago were greatly reduced, reaching the lowest point since June, whereas receipts at Minneapolis showed an increase of 75 per cent compared with last month. Corn receipts at Chicago were practically double the receipts during August, and increases of 363 per cent and of 135 per cent were registered at Indianapolis and Milwaukee. Grain prices increased steadily during the first half of October.

Carload shipments of fruits and vegetables during September show increases compared with last month and with last year, and the total for the current season to date is well above the total for the corresponding period Weekly figures, however, indicate last year. that the peak was passed in September, as total shipments during the first weeks in October began to show a decline. Compared with last month the most noteworthy increases were in shipments of apples from the barrel section, cabbage, celery, grapes, sweet potatoes, and late white potatoes. Peach shipments show an increase of 154 per cent compared with last September, and shipments for the season to September 30 are 27.5 per cent larger than the total for last season. Shipments of citrus fruits during August were considerably less than during July or than during August, 1921. Total shipments from January to September also show a 40 per cent reduction compared with the corresponding period last year.

FLOUR.

Flour production during September was 13,785,000 barrels, compared with 12,271,000 barrels in August and 13,349,000 barrels in September, 1921. This increased output was particularly noticeable in districts No. 9 (Minneapolis) and No. 12 (San Francisco). In the former district production increased 11.6 per cent compared with last month and was slightly larger than in September, 1921. The most encouraging feature of the Minne-11 (Dallas) and in district No. 12 (San Fran-

apolis market was the continued improvement in demand in spite of strengthening of prices. In district No. 12 (San Francisco) output for 48 mills in September was 129,422 barrels larger than for 53 mills in August, mainly in response to domestic demand. Production of 11 leading mills in district No. 8 (St. Louis) was the largest for any month this year and showed an increase of 3 per cent over last month. In district No. 10 (Kansas City) flour production was slightly smaller than last month and about 9 per cent less than during September last year. The acute car shortage appears to be the most discouraging as well as the outstanding feature. Buyers are said to anticipate a large supply of wheat when the car shortage is over and are waiting to take advantage of the expected price reductions. A great improvement in the export trade is reported from district No. 10 (Kansas City), and to a less extent in district No. 8 (St. Louis), in contradiction to earlier reports that Canadian competition was undermining our foreign flour business. Thirty-six millers in district No. 7 (Chicago) report reductions in output of 9 per cent compared with last month and 6 per cent compared with September a year ago.

LIVE STOCK.

Movement of live stock to market was very heavy during September and showed increases both as compared with August and with September last year. Receipts of cattle and calves, sheep, horses, and mules at 15 western markets were larger than during August, and the reduction in receipts of hogs which occurred is customary at this time of year. Receipts of cattle and calves totaled 1,839,143 head, an increase of almost 30 per cent compared with last September. Receipts of hogs amounted to 2,032,510 head, and receipts of sheep were 1,315,599 head, about 20 per cent less than during the corresponding period last year. District No. 10 (Kansas City) reports that the dry weather has forced large numbers of range cattle to the Missouri River territory and Middle West, where feed and water are abundant. Receipts of cattle in that district were the largest for any month since November, 1919, and receipts of calves exceeded any previous month. The greatly reduced receipts of hogs was due to the unseasonably warm weather and to the abundance of corn in the country for feeding purposes. Pastures and ranges sufcisco). In district No. 8 (St. Louis) reports relative to live stock are almost uniformly favorable and the pastures are in good condition. Live-stock prices have shown a general upward tendency during September and early October, and demand continues to be active.

Reports from 35 meat-packing companies show increases of 6.9 and 4.9 per cent in dollar sales as compared with August and with September last year. Operations of meat packers in district No. 10 (Kansas City) continued at the high level of July and August. Wholesale prices for practically all meats are higher than a year ago, and both foreign and domestic demand is good. Stocks of pork and lard at Kansas City continued to decline, but are larger than they were on September 30, 1921.

COAL.

Production of bituminous and anthracite coal was maintained at a nearly uniform weekly rate during the first month after the strikes were settled. The September production of bituminous coal totaled 40,964,000 tons, as compared with 22,261,000 tons in August and 35,-105,000 tons in September, 1921. The present rate of production is only slightly higher than the September average and is lower than that prevailing during October in 1918, 1919, and 1920. The chief limiting factor continues to be a shortage of railroad cars, although a shortage of miners is also reported in a few sections. Production in the central Pennsylvania fields was considerably reduced during early October by these causes and by lack of water for boilers, resulting from the prolonged drought. Both district No. 3 (Philadelphia) and district No. 4 (Cleveland) state that buyers are curtailing purchases in hope of securing lower prices. September receipts of soft coal in district No. 9 (Minneapolis) were twice as large as in September, 1921, as a result of a consistent effort to prepare for the early northern winter.

Anthracite production amounted to 4,979,-000 tons in September, as compared with 161,-000 tons in August and 7,124,000 tons in Sep-tember, 1921. The weekly output has been about 1,900,000 tons since the middle of September. During the current year to October 10 anthracite lake shipments from Buffalo totaled only 133,000 tons, as compared with 3,249,-000 tons in the corresponding period of 1921. District No. 3 (Philadelphia) reports that demand is becoming somewhat less insistent. Substitution of bituminous coal and fuel oil has so depressed the market for steam sizes that some_producers are storing a part of their

during October. Quotations for stove coal vary from \$8 to \$9.50 per ton.

Coke production increased substantially during September. The output of by-product coke was 25 per cent larger than in August, while beehive ovens increased their output 12 per cent. The price of Connellsville foundry coke declined slightly during October.

PETROLEUM.

Total production of crude petroleum declined from 46,295,000 barrels in August to 45,246,000 barrels in September. Daily average produc-tion, on the other hand, advanced from 1,500,677 barrels in August to 1,508,200 barrels in September, and this increase in rate of out-put continued during the first two weeks of October. Total stocks of American and Mexican oil in this country were augmented by 1,363,000 barrels and aggregated 273,264,000 barrels at the end of September. Drilling operations were somewhat further reduced and the number of new wells completed declined from 1,709 in August to 1,572 in September.

In district No. 12 (San Francisco) daily average production of crude petroleum in-creased 6.4 per cent during September and reached a new maximum rate of flow. Shipments also increased, but are still at a considerably lower level than production. The number of new wells completed and the daily average new production in California showed large increases as compared with August.

Daily average production also increased in district No. 10 (Kansas City), but the increase only amounted to 0.7 per cent. September well completions in the States of Kansas, Oklahoma, and Wyoming were more numerous than in August, but the number of rigs and wells drilled showed a substantial decline. Both total daily average production and initial production of new wells in district No. 11 (Dallas) were lower in September than in August. Prices for crude oil continue un-changed throughout the mid-continent and coastal fields.

IRON AND STEEL.

Production of iron and steel increased considerably during September, but the total monthly output was still substantially smaller than in July. Pig-iron production amounted to 2,034,000 tons, as compared with 1,816,000 tons in August and 2,405,000 tons in July; while steel-ingot production aggregated 2,374,-000 tons in September, as compared with 2,215,000 tons in August and 2,487,000 tons output. Price quotations did not change in July. The number of furnaces in blast

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was increased from 142 to 188, which is only three less than the maximum for the current Steel mills have been much embarrassed vear. during October by a shortage of shipping facilities, and some mills have curtailed their activity. Structural-steel business is continuing to expand, however, due to a few very large contract awards. The unfilled orders of the United States Steel Corporation at the end of September amounted to 6,692,000 tons, which was the largest aggregate since February, 1921. Pig-iron prices have shown a distinct downward tendency since October 1, due to the importations of foreign iron, while prices of most finished steel products are unchanged.

Reports from district No. 3 (Philadelphia) state that iron and steel plants are now operating at about 75 per cent of capacity. Machine and machine-tool factories have been receiving exceptionally heavy orders and have advanced their prices. District No. 4 (Cleveland) reports that the more highly finished lines of steel such as sheets, tubular goods, wire products, and tin plate are in stronger demand than plates, shapes, and bars. Purchases of steel rails for 1923 delivery immediately prior to the price advance on October 1 are estimated to have totaled 1,500,000 tons. Iron and steel producers in district No. 6 (Atlanta) have been hampered by a shortage of freight cars. Fewer big sales are reported, but a considerable business is being done in small lots.

AUTOMOBILES.

Automobile factories curtailed their production during September. The output of passenger cars was 186,151, a decline of 24.7 per cent, while truck production totaled 18,353, a decline of 22.8 per cent. A reduction in factory operations is customary at this season of the year, and it is worthy of note that the September output was substantially larger than in 1921, especially in the case of trucks. Factory shipments were also considerably smaller than in August, but larger than in September, 1921. District No. 7 (Chicago) reports that automobile factories have been hampered by the shortage of railroad cars. As a result, automobiles driven away or shipped by boat were a much larger proportion of total shipments in September, 1922, than in September, 1921. According to district No. 4 (Cleveland) there is still a strong demand for closed-car bodies. Manufacturers, however, find difficulty in making closed cars of good quality at the prices which most consumers desire to pay. Tire production has been larger this year than in 1921, except in July and August. There has

been a decided growth in the output of solid tires. Prices of tires have registered a steady decline and are now at the lowest point on record.

NONFERROUS METALS.

The price of lead improved during October, while there was a slight decline in prices of copper and zinc. The price of common lead at New York was 6.50 cents on October 18, as compared with 6.10 cents on September 20 and 5.75 cents on August 16. Production was 4.8 per cent larger in September than in August. Shipments of lead ore in district No. 10 (Kansas City) increased from 5,803 tons in August to 7,526 tons in September, while the average price received was \$3.47 per ton higher. Operators' stocks total about 200 tons, as compared with 1,700 tons a year ago.

Zinc prices fluctuated considerably during the last month. The price of prime western brands at St. Louis rose from 6.70 cents per pound on September 20 to 6.875 cents on September 25, declined to 6.625 cents on October 11, then advanced to 6.80 cents on October 16. Slab zinc production increased from 31,423 tons in August to 33,134 tons in September, while zinc stocks declined to a total of 18,806 tons. Shipments of zinc ore in district No. 10 (Kansas City) increased substantially during September, and there was an advance of \$1.78 per ton in the average price received for ore.

The price of refined electrolytic copper delivered at New York, which had been stabilized for several months at 14 cents per pound, declined to 13.875 cents during October. September mine production totaled 95,665,000 pounds, a decline of 5.1 per cent as compared with August. Silver production declined 4.3 per cent during September to a total of 5,324,873 troy ounces. Factory consumption of tin has recently been very large and aggregated 5,050 tons in September, as compared with 4,150 tons in August and 2,605 tons in September, 1921.

COTTON TEXTILES.

Although there was a decline in cotton consumption during September from the high point reached in August, the cotton textile industry is still operating at close to capacity. In fact, the 495,344 bales consumed in September made the largest figure for that month in any year since 1917. This total was only 6 per cent smaller than in August, in which month consumption was the greatest in over two years. Furthermore, the number of cotton spindles active during September—33,296,513 was over 2 per cent greater than the August total. More spindles were active in the cottongrowing States than during last year, whereas in the other States the reverse was true. Within recent months the activity outside the growing sections has been increasing.

Advances in prices have been general throughout the country for various grades of yarns and goods. This is attributed by district No. 3 (Philadelphia) to the improved demand, the light stocks, and the upward trend of rawcotton quotations. The general level of prices of cotton goods is now approximately the same as that prevailing a year ago. Striking advances were made by print cloths, sheetings, and drills.

Improvement in the demand for both varns and goods was reported by district No. 3 (Philadelphia), and manufacturers of goods are operating at over 80 per cent of capacity on a one-shift basis. Mills in district No. 5 (Richmond) are also receiving a good demand for their products and are generally sold up until the end of the year. Many firms are running night shifts. Detailed reports from 31 cottoncloth manufacturers in district No. 6 (Atlanta) give statistical evidence of the status of the industry during September. Production was 16 per cent and shipments 7 per cent less than in August. This was partly due to the shortness of the month, as the number of employees at the end of the month was slightly larger. Stocks declined 10 per cent and orders on hand at the end of the month were 32 per cent larger. Furthermore, comparison with last year is favorable, as production, shipments, and number of employees all advanced from 10 to 16 per cent and stocks declined nearly 40 per cent. Returns from 30 cotton-yarn manufacturers show a betterment since August similar to that noted in cotton goods, and as compared with last September an even greater improvement occurred. Orders were 80 per cent, shipments 20 per cent, and production 30 per cent larger than they were a year ago.

WOOLEN TEXTILES.

Substantially increased activity in the production of woolen textiles is shown by statistics for active machinery on October 1, and improvement in demand for these products during September and October was indicated by reports from the various Federal reserve banks. On October 1, 72.4 per cent of total looms wider than 50-inch reed space were active, which, although smaller than in September, 1921, is the largest percentage since last December. This is a continuation of the upward movement begun last June. The activity of the narrow looms also increased. A greater number of woolen spindles were active on October 1 than on September 1, and the per-

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centage of activity in worsted spindles increased during the same period from 74.8 per cent to 81.4 per cent. More worsted spindles were active than on any date since March. The woolen spindles are still relatively more active than are the worsted machines, although the actual number of spindles in operation is greater for the latter group. Activity among carpet and rug looms also made a further gain.

Reports from various districts indicate increased buying of raw wool since the middle of September, although district No. 3 (Philadelphia) notes that there has been no feverish activity, as buying has been more for mill account than for speculative purposes. Receipts and shipments of raw wool at Chicago during September were reported by district No. 7 (Chicago) to be greater than during August but less than those of a year ago. The price trend of wool in both domestic and foreign markets is upward. This tendency is attributed by district No. 3 (Philadelphia) to a world scarcity of fine marinos and to light stocks of domestic wool.

Demand for both woolen and worsted goods in district No. 3 (Philadelphia) has increased, and worsteds for men's wear are selling in larger quantities than they were a year ago. Mills generally have reduced their stocks to a minimum. Orders for both weaving and knitting yarns have also increased in the Philadelphia district, particularly for the former. District No. 7 (Chicago) reports that the weather in September stimulated sales of woolen and worsted goods. Prices throughout the country are considerably stronger, and quotations on spring lines have been advanced by some firms. The advance in worsteds was relatively greater than that on woolens.

CLOTHING.

Sales of clothing reported by 22 firms in district No. 2 (New York) were nearly 30 per cent larger during September than during the same month last year and over 3 per cent greater than in August. The greatest improvement occurred in the case of men's clothing. Manufacturers report an excellent demand for ready-to-wear apparel. In district No. 3 (Philadelphia) clothing firms are operating at from 75 to 100 per cent of capacity, but the warm weather of early fall was a deterrent to buying. District No. 8 (St. Louis) reports that more seasonable weather in late September and early October caused a decided improvement in buying, but September sales were 5 per cent below those of September, 1921.

the narrow looms also increased. A greater number of woolen spindles were active on October 1 than on September 1, and the per- Makers of ready-to-wear clothing in district No. 7 (Chicago) report that fall orders during this season were 13 per cent smaller than during the corresponding period of the 1921 season. Production of suits during September was over 20 per cent less than during last September and totaled only two-thirds of the August output. Shipments were also smaller. On the other hand, six tailors to the trade indicate increases of nearly 50 per cent over figures for both August and last September in all items-that is, orders, production, and shipments.

SILK TEXTILES.

Sales of broad silks during September in district No. 3 (Philadelphia) were larger than during the previous month and also exceeded The demand, howsales in September, 1921. ever, is not yet considered to be satisfactory and is poor for some lines. Production schedules in the Philadelphia district average not more than 60 per cent of capacity. Prices of raw silk advanced considerably in the few weeks prior to the middle of October and reached the highest point since 1920, but purchases were curtailed, and quotations have recently fallen to some extent. Manufacturers have made but slight advances in the prices of goods.

Paterson and North Hudson manufacturers reported very substantial gains in production during September and October, and in the former city 40 per cent of the total available looms were being operated on October 21. This is to be compared with 30 per cent on September 23, 1922, 22 per cent on August 28, 1922, and 21 per cent on October 22, 1921. Production in the less important center of North Hudson is greater in per cent of capacity than in Paterson, but recent increases have been smaller, and fewer looms were active on October 21 than on the corresponding date last year. Part of the recent improvement in these centers is attributed to settlement of labor disputes, but most of it is due to larger demands for merchandise.

HOSIERY.

During September and early October the hosiery industry in district No. 3 (Philadelphia) experienced a belated improvement, and a fair volume of orders for future delivery was The silk and silk fiber lines, which received. have had a poor demand until recently, shared in this betterment, as well as the cotton wear. The cheaper lines are selling best, and the recent gain in sales has been particularly favorable to makers of seamless hosiery. Reports regarding heather goods are conflicting. Returns from manufacturers of various lines show an increase of over 100 per cent in orders booked during skins, but the gains are comparatively small.

September as compared with those of August by firms selling to wholesalers, and of 34 per cent by those selling to retailers. Both groups report approximately 40 per cent improvement in orders as compared with September, 1921. Shipments were larger than in August, but smaller than during last September. Produc-tion also fell below that of a year ago, but in the case of firms selling to the retail trade gained 13 per cent above the output for August. Stocks on hand were larger than on September 30, 1921, whereas unfilled orders were smaller.

In district No. 6 (Atlanta) cotton-hosiery mills reported a further increase in orders during September, although the total volume booked was less than in September, 1921. Production declined slightly from the August output, but exceeded that of last September, and the number of employees at the end of the month was larger than on both August 31, 1922, and September 30, 1921. Unfilled orders on hand were one-sixth smaller than at the end of August, despite the increases in orders booked, thereby indicating a larger volume of shipments.

UNDERWEAR.

Underwear production, both in dozens and in per cent of normal, declined during September and was less than during any month within the past year except July. The output for 52 mills reporting for September totaled 513,572 dozens. Comparative reports from 40 mills showed decreases of from 8 to 11 per cent in unfilled orders, new orders, shipments, cancellations, and production, which were largely due to curtailment in the winter lines.

Ten firms in district No. 3 (Philadelphia) also report declines in winter underwear during September as compared with August in all items except shipments, which were one-eighth larger. Orders fell off over 25 per cent, production 4 per cent, and unfilled orders 36 per cent. On the other hand, 14 firms in the Philadelphia district making summer garments note increases in all items except shipments as compared with August. Their reports, however, indicate that business is much less favorable than it was a year ago, as production declined 36 per cent, shipments nearly one-half, and orders booked 85 per cent as compared with September, 1921. Stocks, on the other hand, more than doubled.

SHOES AND LEATHER.

Prices of Chicago packer hides increased during the first three weeks of October and sales were in considerable volume. There have been further advances in prices of goat and sheep

Tanning activity varied materially in different branches of the industry and in different sections of the country during October. Tanners in district No. 7 (Chicago) reported some reduction in sales during September, which they attributed to a resistance to rising prices. District No. 3 (Philadelphia), on the other hand, states that sales of heavy leather to both the shoe and belting trades are large. Upper leathers are also moving freely, and tan-neries in Philadelphia have advanced wages 20 per cent. Demand for chamois and hat leath-ers is especially strong. Prices of glove leather are advancing, and glove factories are operating on a larger scale than in August.

Shoe production totaled 28,961,051 pairs in September, as compared with 28,077,392 pairs in August. Eight concerns in district No. 1 (Boston) report that September production was 11.6 per cent less than in August, but 11.7 per cent greater than in September, 1921. Shipments by seven of these firms decreased 11.8 per cent as compared with August, and unfilled orders declined 23.4 per cent. In district No. 3 (Philadelphia) 44 reporting firms increased their output 1.6 per cent during September. New orders were 38.7 per cent larger than in August and the volume of unfilled orders increased 3.3 per cent. Shipments and stocks declined 1.4 per cent and 14.1 per cent, respectively. Retail shoe sales in the Philadelphia district also increased 38.8 per cent during September and were 18.2 per cent larger than in September, 1921. The rate of turnover is also higher than a year ago. Prices paid by retailers are rising, but this has been only reflected to a small degree in consumers' Production of 34 concerns in district prices. No. 7 (Chicago) was 2.4 per cent less than in August, but 39.1 per cent larger than in September, 1921. September shipments were 8.5 per cent smaller than in August, while both stocks and unfilled orders declined during the month. Sales of 11 reporting interests in dis-trict No. 8 (St. Louis) were 12 per cent less in September than in August. Trade in men's shoes is exceptionally good in that district. Sales of women's shoes, however, are less than usual at this season, due to radical changes in styles.

PAPER.

Recent gains in the paper industry have been pronounced and were general among the various grades and the different sections of the country. Newsprint production and shipments during August were the largest recorded, and stocks were the smallest since January, 1920. Production of the other principal grades of paper and production and shipments of wood pulp during August exceeded similar figures for any other month since the fall of 1920, when output | panies declined in September, but there was an

was at its highest. Newsprint statistics for September show a purely seasonal decline in production below the August figure, but shipments increased further. Stocks continued their decline.

District No. 1 (Boston) reports show that quotations on finished paper have not advanced in proportion to the increased demands and to the advances in raw material prices. Both mills and wholesalers in district No. 3 (Philadelphia) received excellent demand for all grades of paper during September and October, and nearly all mills are operating at capacity. Some manufacturers are refusing future orders at current prices. The paper and pulp industry in district No. 4 (Cleveland) showed continued improvement, and in district No. 7 (Chicago) employment in paper factories was equal to that during August and one-fifth larger than during last September. Dealers in the Chicago district report gains in sales during September.

LUMBER.

Lumber cut declined during the latter part of September, and the total cut during the month for 551 mills reporting to the National Lumber Manufacturers' Association amounted to 1,207,220,000 feet, in comparison with 1,326,684,000 feet for 535 mills in August. Railroad shipments of forest products decreased from 260,282 cars in August to 246,441 cars in September, owing largely to a shortage of cars.

Four lumber associations in district No. 12 (San Francisco) report declines of 1.9 per cent in production, 8.6 per cent in orders, and 0.8 per cent in shipments for September, as com-pared with August. Comparisons with September, 1921, show large increases for all items, varying from 19 per cent in orders to 58 per cent in production. Logging operations con-tinued to increase during September, and the supply of logs was 10 per cent larger on October 1 than on September 1. Some shingle mills have been closed on account of labor disputes and an inadequate supply of railroad cars.

Reports of 115 mills belonging to the Southern Pine Association in district No. 6 (Atlanta) showed that production, orders, and shipments registered pronounced declines during September, while stocks increased. Some plants have been obliged to close on account of inability to obtain cars. Operations of 43 southern pine mills in district No. 11 (Dallas) were also curtailed during September. Good grades of lumber are in better demand than the cheaper varieties. In district No. 9 (Minneapolis) production and shipments of eight reporting comincrease of 52 per cent in the volume of new orders.

BUILDING.

The value of contracts awarded in seven Federal reserve districts (compiled from statistics gathered by the F. W. Dodge Co.) totaled \$244,261,613 in September, which was 15.3 per cent less than in August and 7.4 per cent greater than in September, 1921. September was the fourth successive month in which a decline was registered by total contra ts let, but there continued to be a wide divergence of movement in the several districts. Districts No. 2 (New York), No. 3 (Philadel-phia), No. 5 (Richmond), and No. 9 (Minneapolis) showed decreases in the value of conapoins) showed decreases in the value of con-tracts, the greatest decline amounting to 43 per cent in district No. 3. Increases occurred in districts No. 1 (Boston), No. 4 (Cleveland), and No. 7 (Chicago), each increase being slightly in excess of 9 per cent. The volume of residential building decreased slightly during September in five of these seven Federal reserve districts, but these decreases were more than counterbalanced by increases of 19 per cent in district No. 2 (New York) and 36 per cent in district No. 4 (Cleveland). Statistics of number and value of building permits issued in 168 cities are published on page 310.

Demand for building materials continues to be strong, and prices have been advancing for several months. Both cement and brick production reached the highest level this year during August, but have been somewhat curtailed since then, as it has been difficult to secure railroad cars in which to ship them from factories.

EMPLOYMENT.

The volume of employment and the average wage per worker both increased during September. Employment at 2,653 manufacturing establishments scattered throughout the United States increased 2 per cent, while the total pay roll increased 3.8 per cent. Car building and repairing plants, cotton-finishing factories, and woolen mills reported the largest increases in number employed. Factories manufacturing agricultural implements, automobiles, and tobacco decreased their forces. There is still a considerable surplus of clerical workers in the large cities.

Reports from district No. 1 (Boston) indicate that employment increased during September. The industries which showed the largest gains were textiles, shoes, jewelry, cordage, and celluloid. The granite industry is still much curtailed. Some unemployment exists in district No. 2 (New York), especially

among clerical workers. The outstanding feature in that district, however, is the increase of employment in the metal and machine industries. Employment in the coal and steel industries of district No. 3 (Philadelphia) showed marked improvement during September. There is a pronounced shortage of unskilled labor. Railroad shops and locomotive factories have also largely increased their forces. The Pennsvlvania State Department of Labor reports that the volume of unemployment in six cities of Pennsylvania declined 81.6 per cent during the first nine months of 1922. District No. 4 (Cleveland) also reports a shortage of common labor. Blast furnaces and steel mills in the Pittsburgh section have increased their operations. The seasonal slackening in the automobile and rubber-tire business has caused some unemployment in Toledo and Akron.

The lumber industry is employing many additional workers in district No. 5 (Richmond). Employment has increased also in the textile, leather, and metal industries. There is a surplus of tobacco workers. The shortage of railroad cars has resulted in some reduction of employment at coal mines and lumber mills in district No. 6 (Atlanta). There is a considerable demand for cotton pickers.

Reports from 219 firms in district No. 7 (Chicago) showed that the number employed increased 0.8 per cent during September and the average pay per man increased 1.8 per cent. Manufacturers of automobiles and agricultural machinery curtailed their forces 9.5 per cent and 7.2 per cent, respectively. On the other hand, factories manufacturing building materials, machine tools, steel, stoves, musical instruments, and shoes reported substantial gains. A number of plants in district No. 8 (St. Louis) which have been embarrassed by a shortage of fuel increased their operations during September. Employment has improved in the packing industry, and road building continues to absorb large numbers of unskilled workers. The demand for farm labor continues to be strong in district No. 9 (Minneapolis), and unemployment is largely confined to striking railroad shopmen. In districts No. 10 (Kansas City) and No. 11 (Dallas) a surplus of unskilled labor has developed. Reports from 348 industrial plants in the Kansas City district, however, showed an increase of 3.2 per cent in the number of employees. There is some unemployment among skilled building craftsmen and oil workers in Texas. Shortages of bricklayers and carpenters are reported from district No. 12 (San Francisco). The supply of steel workers and clerical workers in

WHOLESALE TRADE.

PERCENTAGE OF INCREASE (OR DECREASE) IN NET SALES IN SEPTEMBER, 1922, AS COMPARED WITH THE PRECED-ING MONTH (AUGUST, 1922).

[Minus sign (-) denotes decrease.]

	Groceries.		Dry goods.		Hardware.		Drugs.	
District.		Num- ber of firms.	rent	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.
No. 2 No. 3 No. 4 No. 5 No. 7 No. 8 No. 9 No. 10 No. 11 No. 12	7.9 1.4 4.7 2.9 -0.8 5.9 -3.5 -6.0 8.5 22.6 8.4	37 40 16	$\begin{array}{c} 0.1\\ 27.4\\ 13.9\\ 2.1\\ -2.2\\ 6.8\\ -2.8\\ -19.4\\ -5.2\\ -5.2\\ 6.7\end{array}$	$ \begin{array}{r} 8\\ 22\\ 15\\ 21\\ 10\\ 5\\ 6\\ 5\\ 11\\ 15\\ \end{array} $	$\begin{array}{r} 7.6\\ 5.3\\ 15.4\\ 9.8\\ 5.3\\ -0.5\\ 3.3\\ -5.3\\ 3.8\\ 21.4\\ 1.0 \end{array}$	3 13 12 12	$\begin{array}{c} 6.7\\ 0.1\\ -0.4\\ 8.0\\ 7.0\\ 0.2\\ \hline \\ 3.3\\ 4.3\\ -4.9\\ \end{array}$	8

Percentage of Increase (or Decrease) in Net Sales in September, 1922, as Compared with the Same Month Last Year (September, 1921).

[Minus sign (-) denotes decrease.]

	Dry g	oods. Ha	rdware.	Drugs.	
District.	Per ber of firms.	Per cent.	Num- Pe ber of cen firms.	r Num- t. ber of firms.	Per Num- ber of firms.
No. 2 No. 3 No. 5 No. 5 No. 6 No. 7 No. 8 No. 9 No. 10 No. 11 No. 12	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} -5.5 \\ -0.2 \\ -1.1 \\ -8.5 \\ -22.6 \\ 2.3 \\ 6.5 \\ -0.3 \\ -8.1 \\ -1.0 \\ 1.7 \end{array}$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Further general improvement occurred in wholesale trade during September. This trend was particularly pronounced in hardware and furniture, in which lines sales were in most districts materially greater during September than during either August, 1922, or September, 1921. This was no doubt due to the large volume of building completed this year. In dry goods recessions from the August figures were noted in 5 of the 11 reporting districts, and business was poorer than during last September in every district except No. 7 (Chicago), No. 8 (St. Louis), and No. 12 (San Francisco). Groceries were materially better than last year in districts No. 11 (Dallas) and No. 12 (San Francisco), but in other sections changes were smaller, ranging from a decrease of 7.3 per cent in district No. 8 (St. Louis) to an increase of 6 per cent in district No. 2 (New York).

Scattered reports from dealers in farm implements, auto supplies, and auto tires indicate seasonal declines in their sales during September, but trading in these lines was in excess of that of a year ago. Sales of drugs were generally larger. In boots and shoes, of the seven reporting districts all except No. 6 (Atlanta) and No. 8 (St. Louis) show improvement over August. On the other hand, only the Atlanta district reported a substantial gain as compared with September, 1921, and sales were larger in but two other districts.

RETAIL TRADE.

Distribution at retail has shown a marked improvement during September. Seasonal demand is in large measure responsible, but the improvement is also due to increased industrial activity and the filling of demands previously delayed by labor difficulties. September sales of 502 department stores were substantially larger in August and were 11.9 per cent larger than in September, 1921. The warm weather during September tended to reduce fall buying of clothing, but, on the other hand, radical style changes had a stimulating effect on sales of women's garments, so that in general clothing sales showed satisfactory increases. Demand in most districts was for medium or lowpriced goods. Increased sales compared with last September were reported in all districts. ranging from 0.7 per cent in district No. 10 (Kansas City) to 18.8 per cent in district No. 4 (Cleveland). With the exception of a 12 per cent decline in district No. 3 (Philadelphia), all districts report larger stocks on hand than at the end of August. Districts No. 1 (Boston), No. 11 (Dallas), and No. 12 (San Francisco) are the only districts showing an increase in stocks compared with last year. The substantial gains in sales compared with a smaller augmentation of stocks increased the rate of turnover during September. The ratio of outstanding orders at the end of September to purchases for 1921 was 8.6 per cent, which was slightly lower than at the beginning of the month.

PRICES.

In September, for the first time in the current year, the general level of wholesale prices moved downward, the index numbers of the Federal Reserve Board and the Bureau of Labor Statistics showing decreases of 1 and 2 points, respectively. The most influential factor in this movement was the drop in coal and coke prices. Pig iron and the metals, however, still continued to rise. The prices of agricultural products, which fell so markedly the previous

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month, recovered to some extent during September. Lumber prices rose considerably.

The Federal Reserve Board index shows that goods in a semimanufactured state are still steadily increasing, particularly steel products. As with raw agricultural products, so in the case of foods and staples, there were diverging price trends. Flour and meats continued to decline, while butter, eggs, and milk showed decided increases. Nearly all of the chief imported commodities increased in price during September.

In the Bureau of Labor Statistics index the fuel and lighting group declined 27 points, but both of the groups of metals and metal products and building materials rose 8 points. A rise of 2 points occurred in each of the three groups of farm products, cloth and clothing, and chemicals and drugs. Foods remained unchanged.

FOREIGN TRADE.

The most striking fact disclosed by the preliminary foreign trade returns for September is the radical decline in the value of imports. From the year's high level of \$281,400,000 in August there was a reduction of approximately \$50,000,000, or over 17 per cent, in September. Exports, on the other hand, increased from \$301,800,000 in August to \$317,000,000 in September, with the result that the excess of exports amounted to \$85,000,000, in contrast to the very low balance of \$20,000,000 in the previous month. Compared with the same period of last year, exports have been at a lower level this year to date, while imports have been higher, in consequence of which the favorable balance of trade has been materially reduced. The trends in the volume of merchandise imported and exported, as shown by the Federal Reserve Board's foreign trade index, have recently corresponded more or less with the changes in the reported values, and from this point of view also imports are higher and exports are lower than they were a year ago.

GOLD AND SILVER MOVEMENTS.

Net gold imports for the month of September were \$27,917,000, compared with \$18,136,000 during August. Of the \$29,316,000 which Excess imports.

came to the United States during the month the largest amount, \$8,442,000, was imported from Great Britain, \$4,843,000 from the Netherlands, and \$2,070,000 from France. The movement of gold from England is partly in connection with the payment of \$50,000,000 of interest on Great Britain's debt to the United The statement also shows the importa-States. tion of \$971,000 from China, of \$674,000 from Mexico, and of \$651,000 from Colombia. Net gold imports for the nine months ending September of the present year totaled \$201,265,000, compared with \$547,631,000 for the corresponding period in 1921. Net imports of gold since August 1, 1914, aggregated \$1,743,354,000, as shown in the following exhibit:

[In thousands of dollars.]

	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 Sept. 30, 1922	1, 776, 616 76, 534 417, 068 691, 248 214, 408	705, 210 368, 185 322, 091 23, 891 13, 143	$1,071,406 \\ 1 291,651 \\ 94,977 \\ 667,357 \\ 201,265$
Total	3, 175, 874	1, 432, 520	1,743,354

¹ Excess exports.

Silver imports for September were \$6.370,-000 and silver exports \$3,735,000, the net result being a gain of silver amounting to \$2,635,000. The bulk of the silver imported during the month, \$4,155,000, came from Mexico, \$891,-000 from Peru, and \$727,000 from Canada. Silver exports, on the other hand, went largely to Hongkong, China, and British India. Net exports of silver since August, 1914, totaled \$436,124,000, as may be seen from the following exhibit:

[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 Sept. 30, 1922	203, 592 89, 410 88, 060 63, 242 53, 163	483, 353 239, 021 113, 616 51, 575 46, 026	279, 761 149, 611 25, 556 ¹ 11, 667 ¹ 7, 137
Total	497, 467	933, 591	436, 124

State Banks and Trust Companies.

Admissions.

The following list shows the State banks and trust companies which were admitted to membership in the Federal reserve system during the month ending October 31, 1922, on which date 1,657 State institutions were members of the system:

	Capital.	Surplus.	Total resources.
District No. 1.		}	
Federal Trust Co., Boston, Mass	\$1, 500, 000		\$20, 300, 992
District No. 2.			
Westwood Trust Co., Westwood, N.J. Bank of Europe, New York, N. Y	100,000 450,000	\$20,000 225,000	138, 608 7, 866, 302
District No. 8.			
Greenwood Bank & Trust Co., Greenwood, Miss	200,000	50 ,000	955,667
District No. 12.			
Cowlitz Valley Bank, Kelso, Wash	30, 000	10,000	207, 582

Absorbed by State member bank.—Metropolitan Trust Co. and the Back Bay National Bank, both of Boston, Mass., absorbed by the Federal Trust Co. of Boston. Change in name.—Gandy State Bank, South Whitley, Ind., to Mayer State Bank, South Whitley, Ind. Voluntary liquidation.—Bank of Murtaugh, Murtaugh, Idaho.

Fiduciary Powers Granted to National Banks.

During the month of October 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.
- Committee of estates of lunatics. 8.

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:

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 September 23, to October 27, 1922, inclusive:

· · · · · · · · · · · · · · · · · · ·	Num- ber of banks.	Amount of capital.
	·	·· · ··
New charters issued	13	\$1,265,000
Restored to solvency	1	25,000
Increase of capital approved 1	16	1,085,000
increase of capital approved internet internet		
Aggregate of new charters, banks restored to solvency, and banks increasing capital	30	2,355,000
Liquidations.	9	850,000
Reducing capital ² .		575,000
itemeting capital*		510,000
Total liquidations and reductions of capital	12	1, 425, 000
Consolidations of national banks under act of Nov. 7, 1918.		2, 300, 000
Agaroanty increased somilal for pariod		2 355 000
Aggregate increased capital for period Reduction of capital owing to liquidations, etc		2,355,000 1,425,000
menuction of capital owing to requirements, etc		1, 220, 000
Net increase		930, 000

Includes ene increase in capital of \$50,000 incident to a consolidation under act of Nov. 7, 1918.
 Includes two reductions in capital aggregating \$475,000 incident to consolidations under act of Nov. 7, 1918.

Commercial Failures Reported.

In point of number, failures in the United States now make a closer comparison with the totals of a year ago, 1,215 defaults being reported to R. G. Dun & Co. during three weeks of October, as against 1,135 for the correspond-ing period of 1921. The returns for September, the latest month for which complete statistics are available, disclose 1,566 commercial insolvencies for about \$36,900,000 of liabilities. Both as to number and amount, this is the best monthly exhibit for a year past, and the September indebtedness is slightly less than that of the same month of last year. Separated according to Federal reserve districts, the reductions in number of failures, as compared with the number for September, 1921, are reported by the first, third, sixth, ninth, eleventh, and twelfth districts, although these decreases are more than offset by the increases in the other six districts. In respect of the liabilities, the September totals are smaller than those of the corresponding month of last year in the first, seventh, ninth, tenth, and eleventh districts, the improvement in the seventh and eleventh districts being especially marked.

FAILURES DURING SEPTEMBER.

Place.	Dis- trict	Name of bank.	Powers	District.	Number.		Liabilities.	
	No. rome or come. granted.	District.	1922	1921	1922	1921		
Marietta, Ohio Springfield, Ohio Washington, D. C Delphi, Ind East St. Louis, Ill Lawrence, Kans Kansas City, Mo Do Long Beach, Calif	4 5 7 8 10 10 10 12	Citizens National Bank . Mad River National Bank. Planters National Bank . Second National Bank . Citizens National Bank . Merchants N ation al Bank . Gate City National Bank . Continental National Bank and Trust Co. Long Beach National Bank.	1 to 7 and 9. 1 to 9.	First. Second. Third. Fourth. Fourth. Sixth. Seventh. Eighth. Ninth. Tenth. Eleventh. Twelith.	50 66 70 137	124 317 63 118 85 125 179 80 57 61 104 153	$738, 243 \\1, 480, 222 \\2, 152, 387$	$\begin{array}{c} & 82,725,247\\ 10,439,409\\ 978,713\\ 2,815,406\\ 1,692,840\\ 2,328,764\\ 6,777,026\\ 2,383,404\\ 980,471\\ 1,042,641\\ 2,872,281\\ 1,984,635\\ \end{array}$
San Antonio, Tex	11	Frost National Bank	1 to 9.	Total	1,566	1,466	36,908,126	37,020,837
·	!			·			<u></u>	

RULINGS OF THE FEDERAL RESERVE BOARD.

Bills of exchange drawn in good faith against actually existing values within the meaning of section 13 of the Federal reserve act.

The Federal Reserve Board was recently asked to rule upon the question whether growers' drafts drawn on and accepted by cooperative marketing associations doing business in the manner described in the rulings published on page 1199 of the October, 1921, BULLETIN, and page 931 of the August, 1922, BULLETIN, are bills of exchange drawn in good faith against actually existing values, so as to be excluded from the 10 per cent limitation prescribed in the third paragraph of section 13 of the Federal reserve act on the aggregate amount of paper of any one borrower which a Federal reserve bank may rediscount for any one member bank.

Each of the associations referred to is a nonstock and nonprofit corporation whose members consist exclusively of growers of the particular crop to be marketed by the association, who have agreed to sell and deliver their entire crops to the association. The agreements also provide in substance that title shall pass to the association at the time of delivery, that the association shall have absolute control over the commodities delivered and over the resale thereof, and that the association shall have power to borrow money upon such commodities and pledge the commodities for money bor-The price at which the commodities rowed. are sold by the growers to the association is not fixed at the time of that sale, but the commodities are pooled according to grade, and after all of a particular pool has been sold the proceeds are distributed pro rata among the pro-ducers who have contributed to that pool.

The board ruled that where a member of such an association delivers his crop to the association, and at substantially the same time draws a draft on the association, which is accepted by it and discounted by the drawer at his own bank, such a draft is a bill of exchange drawn against actually existing values within the meaning of the third paragraph of section 13, and is, therefore, excepted from the limitation in question.

This ruling is in line with prior rulings of the board in which it has been held that a bill of exchange drawn by the seller of goods sold and delivered on the purchaser and accepted by the purchaser may be treated as a bill of exchange drawn against actually existing values, when it is drawn at the time of, or within a reasonable time after, the sale and delivery of the goods, so as to warrant the assumption that the goods are in the possession of the purchaser, either in their original form or in the shape of the proceeds of sale.

In connection with this ruling the board was also requested to make a ruling which would

embody a comprehensive definition of the phrase "bills of exchange drawn in good faith against actually existing values" within the meaning of the third paragraph of section 13 of the Federal reserve act. The question under what circumstances a bill of exchange may be thus considered to be drawn in good faith against actually existing values is a question which the board finds impracticable to answer comprehensively, because it is a question of fact, and the question whether in any given case a bill of exchange should be held to have been drawn in good faith against actually existing values necessarily depends upon the circumstances of that case. It seems desirable, however, to review and summarize prior rulings in which the board has laid down certain general principles dealing with this subject, and it is believed that these general principles are sufficiently comprehensive to furnish valuable guides in answering most of the questions which may arise in this connection. If situations should arise which are not sufficiently covered thereby the board prefers to deal with them as they arise and on the basis of the circumstances involved in each case.

1. Bills of exchange arising out of bona fide sales.-In all the cases in which the board has been asked to determine whether a particular bill of exchange is a bill of exchange drawn against actually existing values the bill in question has grown out of a purchase and sale transaction, and the board has uniformly held that it must be a bona fide sale and that the bill must be drawn for the whole or part of the purchase price in order to qualify it as a bill of exchange drawn in good faith against actually existing values. The board has held, for ex-ample, that a bill drawn by the owner of goods against his agent or against a fictitious drawee, for the purpose of borrowing money rather than of paying for goods sold, can not be considered as drawn against actually existing values. (1916 BULLETIN, p. 684.) Whether or not a bill of exchange must grow out of a sale transaction in order to be considered as drawn against actually existing values is a question which does not appear to have been specifically raised, and the board will not pass upon it at this time. For the purposes of this review, however, it will be assumed that the bills of exchange discussed herein do arise out of bona fide sales, involving an actual transfer of title from seller to buyer.

2. Bills must be in form and substance valid bills of exchange.—The Federal Reserve Board has uniformly held that in order to be considered as a bill of exchange drawn in good faith against actually existing values. a bill must primarily be a valid and negotiable bill of exchange drawn in good faith. Bills drawn against a fictitious or "dummy" drawee, or in which the drawer or prior indorsers are released, have for this reason been held not to conform to the requirements of the term "bills of exchange drawn in good faith," irrespective of the question of the value against which they may be drawn. (1916 BULLETIN, pp. 227, 463,608; 1919 BULLETIN, p. 1055; 1922 BULLETIN, p. 933.)

3. Bills discounted before acceptance.-Bills of exchange may be considered as drawn against actually existing values even before acceptance, but in such case they must be accompanied by shipping documents, warehouse receipts, or other such documents securing title to the goods sold. When a bank discounts a bill prior to acceptance, it has no recourse to the drawee, who has as yet incurred no obligation on the instrument, and if it desires to treat the bill as drawn against existing value, it must be in a position to enforce a claim against the existing value which is the foundation of the bill, and must consequently have a lien in some form against the goods sold, evidenced by a bill of lading, warehouse receipt, or some other documentary evidence of title. (1916 BULLETIN, p. 683; 1917 BULLETIN, p. 196; 1919 BULLE-TIN, p. 1055; 1922 BULLETIN, p. 933.)

4. Accepted bills.—As seen above, a bill of exchange accompanied by documents securing title to the goods sold may be considered as drawn against actually existing values, and this is true whether the bill be discounted before or after acceptance. Ordinarily, however, upon acceptance by the drawee, the attached docu-ments will be removed, and if a bank then discount the bill it will rely solely upon the obligations of the parties to the bill and have no direct claim to the goods sold. In such a case the board has held that the bill may still be considered as drawn against actually existing values if it is drawn contemporaneously with, or within a reasonable time after, the shipment or delivery of the goods sold, and there are reasonable grounds to believe at the time the bill is drawn that the goods are in existence in the hands of the drawee, in their original or manufactured form, or in the shape of the proceeds of their sale. In other words, in order that bills of exchange not secured by documents of title may be considered as drawn against actually existing values, it must appear that the drawer has furnished to the drawee some commodity of value which, when converted into money, will enable the drawee to pay the bill at maturity, and that this commodity is in existence in some form in the hands of the drawee at the time the bill is drawn. (1917 BULLETIN, pp. 196, 287; 1918 BULLETIN, p. 975; 1919 BULLETIN, p. 1055; 1922 BULLETIN, p. 933.)

Bills of exchange not secured by documents conveying title, which are drawn by the seller against the purchaser and accepted before the sale or delivery of the goods to the purchaser, should not be considered as drawn against

actually existing values, because at the time the bill was drawn the goods were not in the possession of the drawee. (1918 BULLETIN, p. 975.)

sion of the drawee. (1918 BULLETIN, p. 975.) 5. Bankers' acceptances.—The board has also ruled that bankers' acceptances of the kinds described in section 13 of the Federal reserve act should be considered as bills of exchange drawn in good faith against actually existing values. The amendment of October 22, 1919, to section 5200 of the Revised Statutes expressly included such bankers' acceptances within the classification of "bills of exchange drawn in good faith against actually existing values," and while this amendment does not amend section 13 of the Federal reserve act, it was the board's opinion that the phrase "bills of exchange drawn in good faith against actu-ally existing values," as used in section 13, should constructively be held to include bankers' acceptances of the kinds described in that section. (1919 BULLETIN, p. 1055; 1922 BUL-LETIN, p. 933.)

6. Distinctions between section 5200 of the Revised Statutes and section 13 of the Federal reserve act .-- Care should be taken to distinguish between the provisions of section 5200 of the Revised Statutes and section 13 of the Federal reserve act with regard to bills of exchange drawn in good faith against actually existing values. The two provisions, while to some extent similar, and consequently easily confused, are different in two important respects: (1). The third paragraph of section 18 is a limitation on the rediscount power of Federal reserve banks, and section 5200 a limitation on the lending power of national banks; (2) there is only one express excep-tion to the limitation of section 13 and several to the limitation of section 5200. Paper which is not subject to the limitation of sec-tion 5200 of the Revised Statutes, therefore, may be subject to the limitation contained in the third paragraph of section 13 of the Federal reserve act.

Edge Act Corporation Organized.

On August 24, 1922, the Federal Reserve Board approved the articles of association and organization certificate of the Federal Pacific Banking Corporation, a corporation organized under the provisions of section 25(a) of the Federal Reserve Act, commonly known as the "Edge Act." The capital of this corporation is \$2,000,000 and its home office is in San Francisco, Calif. It is incorporated for the purpose of engaging in the business of international or foreign banking or other international or foreign financial operations. Pending the issue of a final permit to commence business the corporation has authority to exercise only those powers which are incidental and preliminary to its organization.

THE FIRST THREE YEARS OF GERMAN REPARATION.¹

INTRODUCTION.

The history of the first three years of reparation is an account of a gradual evolution of ideas, largely in response to economic conditions. At the outset, beginning with the armistice, through the British general election and the discussions of Versailles, the main consideration was, How much ought Germany to pav? Thus, in the treaty Germany was declared responsible for all the loss and damage caused by the war. Economic conditions, however, showed Germany's incapacity to pay this huge amount; hence a reduction in the demands, by delimitation in the peace treaty of the claims to be laid against her for satisfaction. It was decided she should pay only the amount of damages to persons and property. The determination of the exact amount of Germany's reparation liabilities was postponed under the terms of the treaty in order to permit of more exact computation of the damages suffered than was possible at that stage.

During the second period—from the peace treaty to the second London ultimatum—the Reparation Commission had the power in fixing her liability to consider in greater detail Germany's paying potentialities. The amount was finally fixed at 132 billions of gold marks a figure which obviously would have been unacceptable at the Peace Conference.

For some time after that reparation remains, on the surface, a settled question. Then, owing to accumulating evidence of not far distant default, begins the third series of conferences and parleys, lasting up to the most recent of all. These negotiations have been characterized by concessions, one after the other, to the economic facts of the situation. In Great Britain the trade depression and the recognition of the effect of Germany's payments upon the export trade of the Allies have tended to lay peculiar emphasis on these factors. France, however, has still to receive any considerable portion of what she has already expended on the restoration of her devastated areas. Germany's prospects are critical.

It has been estimated that the war cost, in pure material expenditure, some 84 billions

of dollars,² in terms of 1913 prices. Of the 132 billions of gold marks which Germany was called upon to pay for damage to persons and property, France, on account of her enormous losses through devastation, was to receive 52 per cent and Great Britain 22 per cent. So far Germany has paid in cash and kind a net amount of about 7 billions of gold marks, to be divided between the Allies, and in the meantime the French Government has expended nearly 50 billions of francs (paper) on the restoration of the devastated areas, the work being still far from completion.

It has now become apparent that reparation is not a problem to be treated as a disconnected unit for politico-economic negotiations. A third important development since the armistice has been the growth abroad of the idea of the inseparability of reparation from international debts, of international payments from internal industrial prosperity, of internal prosperity from the location of political boundaries. No distinct point of time can be named from which these developments date. They are psychological, and have evolved themselves, gradually assuming their due proportion, becoming observable little by little.

The problem has now reached the stage where this development is easily perceptible. For this purpose no more than a plain statement of historical fact is necessary. The purpose here is to present a brief account of the chief events in the history of the reparation problem, without partisan criticism or the elaboration of any particular thesis as the foundation for any proposed remedy for the ills of the present situation.

As a preliminary guide to the more detailed survey which appears in the subsequent articles, the following table presents a condensed chronological statement of the outstanding dates and events of which mention will be made:

CHIEF DATES AND EVENTS IN THE FIRST THREE YEARS OF GERMAN REPARATION.

- Nov. 11, 1918...Armistice concluded. Germany to make "reparation for damage done." June 28, 1919...Treaty of Versailles signed. Germany
- une 28, 1919... Treaty of Versailles signed. Germany to pay for damages to persons and property.
- Apr. 19–26, 1920...Conference of San Remo. Mr. Lloyd George suggests meeting with German representatives.

May 14-16, 1920...Conference of Lympne. Franco-British commission of experts set up to consider methods of payment.

² Estimate of Mr. Harvey E. Fisk, "French Public Finance."

¹ This is the first of a series of four articles prepared by Mr. W. F. Crick, of the Division of Analysis and Research. This series is intended to bring together in connected form such facts as are necessary to a clear understanding of the reparation situation as it presents itself to-day. The present article deals with those terms of the treaty of Versailles which concern the reparation problem. The second article will relate the history of the subsequent negotiations as far as the fixing of Germany's liability in April, 1921. A third article will bring up to date the subsequent modifications of the reparation demands; while the fourth will discuss the fulfillment of the demands made at various stages in the negotiations, including the payments to date.

- June 19–22, 1920... Lympne-Boulogne conversations. International loan for Germany suggested.
- July 2-4, 1920. Brussels Conference. France to receive 52 per cent of German payments, Britain 22 per cent.
- July 5-16, 1920...Spa Conference. German delegates present. Percentages confirmed. Coal demands reduced.
- Dec. 16-22, 1920...Brussels Conference of allied and German experts. Suggestion made that Allies be given a first charge on German customs receipts.
- Jan. 24-30, 1921...First Paris Conference. Forty-two annuities and 12 per cent levy on exports agreed on. "Sanctions" formulated.
- Mar. 1-7, 1921.... First London Conference. German conditional counterproposal to pay 30 billions of gold marks rejected. Materials and labor for reconstruction offered. Ultimatum delivered.
- Apr. 24, 1921.....German proposal to United States Government, conditional on loan. Offer to take over part of allied debt to United States. United States Government refuses transmission of proposal to Allies. Apr. 27, 1921.....Decision of Reparation Commission an-
- Apr. 27, 1921....Decision of Reparation Commission announced. Germany to pay 132 billions of gold marks and Belgian debt to Allies, in annuities of 2 billions plus 26 per cent on exports. Guarantees committee set up.
- Apr. 29, 1921.....Second London Conference assembled. May 5, 1921.....Second ultimatum to Germany. Occu-
- pation of Ruhr threatened. May 11, 1921.....Unconditional acceptance of decision
- by Germany.
- Oct. 6, 1921.....Loucheur-Rathenau agreement signed at Wiesbaden, arranging for direct supply of restoration materials to France.
- Oct. 20, 1921.....Reparation Commission approves the agreement in principle.
- July 20, 1922....Amended agreement comes into operation.
- Jan. 8, 1922.....Cannes Conference assembled. Program for 1922 agreed on. January and February payments reduced.
- Mar. 21, 1922.....Reparation Commission announces details of conditional partial moratorium for 1922---720 millions in cash, 1,450 millions in kind to be paid for the year.
- year. May 24, 1922.....Committee of experts meets to consider loan to Germany. Finds loan impossible under present schedule of payments.
- July 12, 1922.....Germany presents formal request for 2½-years' moratorium. Aug. 7–14, 1922....Third London Conference. France re-
- Aug. 7–14, 1922...Third London Conference. France refuses to grant moratorium without further guarantees.
- Aug. 31, 1922.....Reparation Commission grants sixmonths' moratorium, payment to be in treasury bills, guaranteed in manner satisfactory to Belgian Government.

For the sake of brevity, no account is given in the following discussion of the negotiations

which went on at Versailles regarding the reparation sections of the treaty. These, while of great value as showing the existence in embryo of policies which later became clearly defined, are primarily diplomatic rather than economic.

I. THE TREATY OF VERSAILLES.

While the present article can not claim to be a complete digest of the treaty provisions, certain clauses of minor importance having been omitted, it is believed to contain all the vital provisions directly related to the subject of reparation. The précis form has been thought preferable to the annotated text, both from considerations of space and from a desire to reduce the diplomatic terminology necessarily employed to a rendering to which the general reader is more accustomed. For purposes of verification the reader is referred to the footnotes to which in all cases the references are relegated.

For the sake of simplicity and order the present chapter is divided into four sections, into which the various provisions of the treaty have been sorted. These are as follows:

- A. General principles and provisions.
- B. The Reparation Commission: Its powers and duties.
- C. What Germany is to pay.
- D. How Germany is to pay.

A. GENERAL PRINCIPLES AND PROVISIONS.

The opening provision of the part¹ of the treaty devoted to reparation was inserted evidently to placate those who insisted upon the moral right of all the allied belligerents to claim payment of the whole cost of the war from Germany. In it the Allies affirmed, and Germany accepted, full responsibility for all the loss and damage suffered by the Allies. The following article, however, reverting to in-escapable facts, recognized that the resources of Germany are not adequate to make complete reparation. Hence, as a compromise, Germany undertook to make reparation for all "damage done to the civilian population * * * and their property * * * by and their property bv land, sea, and from the air," and for damages, defined in detail below, such as pensions, allowances, etc.² In addition, Germany was to make special provision, by an issue of bearer bonds to the Reparation Commission, payable May 1, 1926,³ for the reimbursement of Belgium for all sums borrowed from the Allies up to November 11, 1918, plus interest at 5 per cent. Furthermore, Germany was to make

¹ Part VIII.

² Annex I.
³ Or, at Germany's option, on any previous May 1

NOVEMBER, 1922.

restitution of cash, animals, securities, and property seized, which could be identified, and which in no case was to be credited to her as payment of a part of her reparation liabilities. Certain property, chiefly works of art and historical valuables, was specifically cited for restitution.⁴ As an addition to actual reparation, Germany was also to pay the salaries and expenses of the instruments set up to exact reparation, namely, the Reparation Commission and its staff and the Army of Occupation.

In order to carry out these obligations, Germany submitted to the direct application of her economic resources to the physical restoration of the invaded areas, the values of any goods supplied and services rendered being, of course, credited to her reparation account. She undertook, moreover, to "pass, issue, and maintain in force any legislation, orders, and decrees that might be necessary to give com-plete effect to" the reparation provisions of the treaty--an elastic clause, particularly as it is not clear whose judgment as to what must be done, and when, is final. Reparation, it is recognized, shall not only have priority over the service or liquidation of any domestic loan, but shall be a first charge on the assets and revenues of the German Empire and its constituent States. Further, the principle is recognized that German taxation should be at least as heavy, "proportionately" (another vague term, not conjoined to any specific basis of comparison), as that of the Powers repre-sented on the Reparation Commission. Germany admits that, in case of "voluntary"⁵ default in reparation payments, the Allies shall have the right to take steps such as "economic and financial prohibitions and reprisals, and in general such other measures as the respective Governments may determine to be necessary in the circumstances," 6 none of which steps shall be regarded by Germany as acts of war. As regards the valuation of goods, etc., handed over by Germany in part payment of reparation, the Reparation Commission is left, in most cases, with a free hand, to place upon them such values as it considers just. Exception to this rule is made in the case of coal to be handed over (see p. 1294), while in assessing the total claims against Germany the principle is to be followed that damages for the restoration of devastated areas shall be assessed at the cost at the time of carrying out the Another heavy responsibility placed work.

upon Germany was that of indemnifying those nationals who should be dispossessed of property and interests by the Allies under certain exceedingly broad powers given to the Reparation Commission by article 260. This most remarkable provision will be dealt with in a later section.⁷ The same responsibility lies upon Germany in connection with the cession of the Saar district, etc.

As opposed to the severity of these conditions, there are three principles favorable to Germany enunciated in the treaty. Firstly, in accordance with Mr. Lloyd George's memorandum of March 25, 1919,⁸ the period during which Germany was to make reparation was fixed at 30 years, with the proviso that if any balance remained over to be paid at the end of that period it might, at the discretion of the Reparation Commission, be postponed for later settlement or otherwise dealt with as the allied Governments might determine. Secondly, it was laid down that in determining Germany's liability and considering Germany's capacity to pay, the commission should give her the opportunity of presenting arguments. Thirdly, in determining the details of repara-tion, the economic life and efficiency of Germany were to be considered by the commis-sion. It was recognized at the time of the making of the treaty that Germany's industrial efficiency was severely handicapped by shortage of food and raw materials. Hence, it was provided that such supplies of food and raw materials as were essential to enable Germany to meet her obligations should be imported, while the payments required to be made before May 1, 1921 (20 billions of gold marks) should be considered as inclusive of payment for these commodities. Furthermore, in deciding what should be required of Germany in the way of deliveries of animals, machinery, reconstruction materials, etc., the commission was to "take into account such domestic requirements of Germany as it deemed essential for the maintenance of Germany's social and economic life," so that "the industrial life of Germany be not so disorganized as to affect adversely the ability of Germany to perform the other acts of reparation."

B. THE REPARATION COMMISSION.⁹

The treaty set up, as an instrument for the execution of its reparation provisions, the Reparation Commission, a body with enormous duties and very considerable powers. The legal status of the commission is that of an

⁴ Part VIII, Sec. II.
5 It is not clear what constitutes "voluntary" default. Presumably, under the powers given in Annex II, §12 (see p. 1291, column 2), the Reparation Commission would judge as to the circumstances of the default.
⁶ Annex II, §18. Even on the principle of ejusdem generis, these powers are extremely wide, especially as there is presumably no higher authority to which could be taken for adjudication the question of the legality of any particular measure taken.

⁷ See p. 1292, column t. ⁸ "The duration for payments of reparation ought to disappear, if possible, with the generation which made the war." ⁹ See, on most points, Annex II of Fart VIII of the treaty.

agent appointed to fix, collect, and distribute Germany's reparation payments. Its duties and powers are, however, more or less strictly defined.

Under the terms of the treaty the constitution of the commission is somewhat novel. It consists of one delegate each from Great Britain, France, Italy, the United States, Japan, Belgium, and the Serb-Croat-Slovene State. Only five of these, however, may take part and vote at any particular session. The first four powers named ¹⁰ have this privilege at all sessions; but of the last three only one participates, each one when matters specially affecting it are under discussion. Thus Japan is included when maritime matters are being discussed, Belgium when restoration of her devastated regions is concerned. Its proceedings are to be in private unless determined otherwise for special reasons. It is not "bound by any particular code or rules of law or by any particular rules of evidence or of procedure, but shall be guided by justice, equity, and good faith." Hence its methods of procedure could scarcely be prescribed in more elastic terms, or better protected from possible juridical criticism. The commission is to continue in existence until all amounts due are received and distributed by it among the Allies.

The most important task allotted to the commission was the determination of Germany's total liability under the treaty and the arrangement of a "schedule prescribing the time and manner for securing and discharging the entire obligation within a period of 30 years from May 1, 1921." Clearly, this was an undertaking requiring an immense amount of investigation and, in addition, a still larger amount of foresight. The results of this work were to be communicated to Germany not later than May 1, 1921, and during the course of its work Germany was to be given an opportunity to be heard by the commission. In addition, this side of the commission's work involved the determination of Belgium's debts to the Allies, with interest thereon at 5 per cent, which Germany was to pay.

Beyond these, in the matter of reparation in kind, the commission was intrusted with the duty of supplying Germany with the tonnage and specifications of ships to be built and delivered; the total requirements of the Allies in the shape of animals, machinery, reconstruction materials, etc.; the amounts of coal required to be delivered; and the requirements of the Allies in the form of dyestuffs and chemical drugs. This function was, of course, mainly of a routine nature, since the figures com-

¹⁰ The United States has not availed itself of this right, being represented, however, at the deliberations of the commission by an unofficial observer. municated would in general be a mere aggregation of the individual claims of the Allies. Nevertheless, in view of certain restrictions on the totals to be demanded (which are dealt with in their appropriate place) the problem might resolve itself into one of the allocation of available commodities between the various claimants.

Furthermore, to the commission was allotted the duty of valuing the receipts on account of reparation. These included all the various kinds of commodities (except coal) to be delivered, the rights and properties in the Saar district, the Government properties taken over with ceded areas,¹¹ and in general any "transfers under the present treaty of property, rights, concessions, or other interests." Again, the commission was to decide what portion of the German Federal and State debts should be taken over by the Powers to whom territory was ceded.¹²

The management of the bond issues to be made by Germany, both as required in the treaty and as later to be determined by the commission, was placed in the hands of that body.

Besides these various duties, the commission was given other powers of considerable value-powers which subsequently it has had frequent cause to exercise. In the first place. to the commission itself was given the right to interpret the reparation clauses of the Secondly, it might from time to time treaty. review Germany's resources and capacity to pay. In the course of such examination it is required to ascertain that reparation shall have a claim prior to the service or liquidation of any domestic loan, and that German taxation is as heavy "proportionately" as that of the Powers represented on the commission. In accordance with these periodic investigations, the commission was given power to extend the date or modify the form of payment. This latter power is somewhat limited by the proviso that, for certain very important steps, a unanimous vote of the commission is required. Such actions include the postponement of any payment beyond 1930, the amount and conditions of issues of bonds and the time and manner of distributing them, the interpretation of provisions in the reparation part of the treaty, and the cancellation of any part of the debt. Further, in no case might it cancel any part of the debt unless specifically authorized so to do by the component governments. Thirdly, the commission was given complete power over German exports of gold until May 1, 1921. Up to that date no gold was permitted to leave the country without

¹¹ Art. 256. See p. 1293, column 1. ¹² Art. 254. See p. 1295, column 1.

the approval of the Reparation Commission. And, lastly, for the period of one year the commission was given the power to name any rights or interests held by German nationals in any public utility undertakings in Russia, China, Turkey, Austria, Hungary, Bulgaria, or former German territory which it could require the German Government to acquire and hand over to it, the German Government assuming the obligation of indemnifying its dispossessed nationals.¹³ The rights and interests so acquired would be valued by the commission itself and such value would be credited to Germany's reparation account. It is not clear in whose power lay the interpretation of this particular provision, which is included in the financial clauses,¹⁴ and not in the reparation part, of the treaty, but it is perfectly obvious that enormous powers of expropriation were thereby placed in the hands of the commission.

C. WHAT GERMANY IS TO PAY.

In addition to actual damages for which Germany was liable to pay compensation, there were two other liabilities imposed on her. Firstly, she was to restore all cash, animals, securities, and property seized, in such cases in which they could be identified. Secondly she agreed to pay the expenses of the army of occupation and the salaries and expenses of the Reparation Commission. The size of the second liability will be better realized when the time comes to consider the carrying out of the treaty.

The main item in the account, however, is that composed of "damage done to the civilian population of the Allies and their property * by land, sea, and from the air." This damage was very specifically defined in a later section of the treaty.¹⁵ The categories of damages for which Germany was to make compensation were as follows:

(1) Damage to injured persons and surviving dependents by personal injury to or death of civilians.

(2) Damage to civilians and dependents caused by cruelty, violence, or maltreatment (including the results of imprisonment, deportation, internment, exposure at sea, forced labor).

(3) Damage to civilians and their dependents by acts injurious to health, capacity to work, or honor.

(4) Damage by maltreatment of prisoners of war.

(5) Capitalized cost of pensions to disabled and dependents, on the basis of the French scales at the time of the treaty.

(6) Assistance rendered by the allied and associated Powers to prisoners of war and their dependents.

(7) Separation allowances, on the basis of the French scales at the times of payment.

(8) Damage for forced or unjustly paid labor.
(9) Damage to property of the allied and associated Powers or of their nationals through seizure, injury, or destruction.

(10) Damage in the form of levies, fines, etc., imposed by Germany on the civilian population.

Over and above these charges Germany, as stated above, was to reimburse Belgium for all sums borrowed from the allied and associated Powers up to November 11, 1918, together with interest at 5 per cent per annum from the dates of the granting of the loans. This amount is payable in gold marks on May 1, 1926, or (at

Germany's option) on any previous May 1. In addition, interest at the rate of 5 per cent per annum was to be charged against Germany from May 1, 1921 (the date of the fixing of the amount), on the total amount due to the Allies, less payments up to that date and less the amount covered by bonds already issued to the Reparation Commission. Another item of interest to be added to the total due from Germany was that on expenditures arising out of the repair of material damage undertaken between November 11, 1918, and May 1, 1921.

The fact that no definite amount was stated in the treaty as representing Germany's total liability did not mean that until the amount was fixed (i. e., until May 1, 1921) there should be no payments. Partly in order to cover current expenses, Germany was to pay during 1919, 1920, and the first four months of 1921 a sum of 20 billions of gold marks, the manner of payment to be determined by the commission. Out of this amount would be paid the expenses of the armies of occupation as well as the cost of such goods and raw materials as the commission found it necessary for the sake of economic efficiency to import. Any balance remaining over would be credited to Germany's reparation account.

It is fairly clear from a study of these provisions that the Peace Conference recognized, on the one hand, the validity of the French contention that it was impossible at the moment to estimate with any reasonable precision the claims to be laid against Germany, and, on the other hand, the fact that it was impossible to determine for some 30 years ahead a nation's capacity to produce a net surplus to contribute to the reparation of the Allies' damages. Hence the treaty's elasticity with reference to this matter. Hence, on the one hand, the postponement of the determination of Ger-

¹³ Art. 260. The treaty contains several other provisions affecting private property rights. For example—art. 297(b)—the .llios "resorve the right to retain and liquidate all property, rights, and interests belonging * * * to German nationals, or companies controlled by them, within their territories, colonies, possessions, and protectorates, including territories ceded to them by the present treaty." Further (art. 74) the French Government was empowered to "retain and liquidate" all the property, rights, and interests which German nationals, or societies controlled by they, possessed in Alsace-Lorraine on Nov. 11, 1918. Germany agreed to compensate directly her dispossessed nationals, and there was no corresponding credit to be given to reparation account. ¹⁴ Part IX. ¹⁵ Annex I.

many's liability and, on the other hand, the various provisions for postponement of installments, for periodic revision of the claims, and for cancellation of any portion of the liabilities.

D. HOW GERMANY IS TO PAY.

In this section the subject becomes a matter of provisions for elasticity of another sort—qualitative elasticity. And here there are three main considerations underlying the whole of this portion of the treaty. Firstly, the needs of the Allies in the way of commodities were given prior claim. Secondly, the maintenance of German efficiency was to be sought. And thirdly, the avoidance of injury to the industries of the Allies by way of loss of markets was aimed at. Consequently many of the provisions relating to the supplying of commodities to the Allies were made in the form of options, which might or might not be exercised, according as the Allies weighed the benefits and injuries which might follow from their fulfillment.

As a covering clause, it was laid down that payment might be required in gold, chattels, properties, commodities, business rights, concessions, ships, securities of any kind, or currencies of any State—their values in gold to be determined by the commission. Furthermore, it was stated specifically that credit should be given to Germany in respect of the following:

(a) Any final balance in favor of Germany under Part III, Section V, which refers to the cession of Alsace-Lorraine: Part X, Section III, which refers to the settlement of debts between nationals of the late enemy countries through clearing houses; Part X, Section IV, which provides for compensation for damages or injury to or seizure of property rights in enemy countries.

(b) Amounts due to Germany in respect of transfers under Part III. Section IV, dealing with the cession of the Saar Basin; Part IX. which has to do with property, etc., ceded with German territory; Part XII, which provides for the surrender by Germany of some of her tugs and boats plying on rivers internationalized by the treaty (Rhine, Elbe, Oder, etc.). (c) "Amounts which, in the judgment of the Reparation Commission, should be credited to Germany on ac-

(c) "Amounts which, in the judgment of the Reparation Commission, should be credited to Germany on account of any other transfers under the present treaty of property, rights, concessions, or other interests." But in no case was credit to be given for cash, animals, securities, and property restored to their owners from whom they had been seized.

In accordance with the plan agreed upon at the Peace Conference the main bulk of Germany's indebtedness was to be covered by bond issues as an acknowledgment of the obligation. The details of the issues were as follows:

A first issue of 20 billions of gold marks, in bearer bonds, to be delivered to the commission forthwith, payable without interest on or before May 1, 1921. These bonds were to be amortized by the payment of the 20 billions of gold marks due prior to that date. A second issue of gold bearer bonds, to be delivered forthwith, to the amount of 40 billions of marks, bearing interest at the rate of $2\frac{1}{2}$ per cent per annum during the years 1921 to 1926, and at 5 per cent thereafter, with the addition of a further 1 per cent, beginning 1926, for amortization.

An undertaking, in writing, to be handed to the commission at once, to issue, at such time as the commission was satisfied of Germany's ability to meet the interest and sinking-fund obligations involved, a further 40 billions of gold marks of 5 per cent bearer bonds, of which the time and mode of payment of interest and principal would be as ordered by the commission.

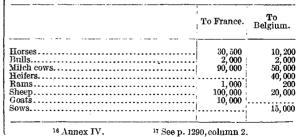
These bonds, when distributed by the commission, might be disposed of outright to individuals in place of Governments. Germany's liability to the Governments would be then by so much reduced, being transferred to the individual holders of the bonds. In this manner the circulation of the bonds is perfectly in accordance with the provisions of the treaty.

The payments in kind which Germany was to make, or might be called upon to make, were very varied and were stated with careful exactitude. The various categories will be considered in detail. \bullet

1. Reconstruction materials.¹⁶--By the end of 1919 the allied Governments were to file with the Reparation Commission lists showing (a) what animals, machinery, equipment, tools, etc., destroyed during the war, they desired to have replaced by similar articles; and (b) what reconstruction materials, machinery, furniture, etc., they desired to have Germany manufacture for them for purposes of restoration.

The commission, in view of these requests, would then formulate their total demands and present them to Germany. As a check on the commission, however, there were inserted in this portion of the treaty, not only a general principle, stating that Germany's own requirements were to be considered,¹⁷ but also a special requirement that articles actually in use in Germany should only be seized if there were no free stock available. Furthermore, in no case should more than 30 per cent of the equipment, etc., of any one establishment or undertaking be seized.

The following immediate advances of animals were required of Germany, the details of breed, etc., being specified:



The delivery of agricultural machinery, as provided for in the January, 1919, renewal of the armistice agreement, covering a wide variety of machines, was to continue. The commission, of course, was to fix the value of all such deliveries and give credit for the same to Ger-

many's reparation account. 2. Coal, etc.¹⁸—Some large options were accorded to the Allies by Germany to demand the delivery of vast quantities of coal. These options were as follows:

To France-delivery of 7,000,000 tons per annum for 10 years, plus an amount equal to the deficit in the actual production of the mines of the Nord and Pas de Calais in each year, as compared with their pre-war annual produc-tion. The total amount delivered, however, was not to exceed 20,000,000 tons in any of the first five and 8,000,000 tons in any one of the last five years. Delivery during each of the three years following the treaty of 35,000 tons of benzol, 50,000 tons of coal tar, and 30,000 tons of sulphate of ammonia.

To Belgium-delivery of 8,000,000 tons of coal annually for 10 years.

To Italy-4,500,000 tons of coal in the year ending June, 1920; 6,000,000 in the next year; 7,500,000 in the following; 8,000,000 in 1922-23, and in each of the succeeding six years, 8,500,000 tons.

The prices for coal were not to be fixed by the commission, but were prescribed in the treaty. Those for benzol, coal tar, and sulphate of ammonia were to be the same as those charged to German nationals. Prices for sea-borne coal were to be the same as the German export price f. o. b. German ports, or British export price f. o. b. British ports, whichever were the lower. For overland coal, the German pit-head price to German nationals, plus the lowest freight to the frontiers, provided that the pithead price were not greater than that of British coal for export. The Reparation Commission was to notify Germany of the deliveries required and to credit Germany's account with the value thereof.

3. Saar Basin.¹⁹—All the coal deposits, concessions, machinery, equipment, means of communication, and buildings belonging to the mines in the district, as defined in the treaty, were ceded to France for a period of 15 years, their value to be assessed by the Reparation Commission and Germany to indemnify her dispossessed nationals.

4. Dyes and chemical drugs.²⁰—Germany gave the Allies the option to require as part of reparation payments such dyestuffs and chemi-

> 18 Annex V. 19 Art. 45. 20 Annex VI.

cal drugs as the commission might fix, but in no case were the amounts demanded to exceed 50 per cent of the German stock of each particular kind demanded. In addition, until January 1, 1925, the Allies were given the option to demand delivery during any particular six months of amounts of specified kinds up to 25 per cent of the German production of those kinds in the preceding six months.

5. Shipping.²¹—Germany agreed to make good, ton for ton and class for class, all allied merchant ships and fishing boats lost or damaged owing to the war, and at the same time "waived all claims of any description against the allied and associated Governments in respect of the detention, employment, loss, or damage of any German ships or boats." Hence all German shipping already in the hands of the Allies was to become their property, on condition that each paid into the reparation account the excess of the fair value of the ships retained over that of the ships apportioned to it to replace war losses.

By the treaty Germany, as a contribution toward this obligation, ceded to the Allies the property in all German merchant ships of 1,600 tons gross and upward; one-half of the German merchant ships between 1,000 and 1,600 tons gross; one-fourth of the German steam trawlers; one-fourth of the other German fishing boats (fractions being calculated in terms of tonnage and totals including shipping under construction). All of this shipping was to be handed over to the Allies within two months of the treaty's coming into force. Germany, moreover, undertook to build for the Allies during the next five years such shipping as should be specified by the commission.

In addition, claims were waived to all German vessels sunk during the war which later might be salvaged, and, as regards shipping, Germany was to restore within two months all identifiable boats of inland navigation coming into her possession since August 1, 1914, and to make good the losses of the Allies in river craft by cession of an equal amount of her own, provided that the amount should not exceed 20 per cent of Germany's river fleet as on November 11, 1918.

6. Submarine cables.²²—The treaty named certain specific submarine cable rights belonging to Germany which she was to renounce in favor of the principal allied and associated Powers,23 their value being credited to reparation account.

... <u>`____</u>

Annex III.
 Annex VII.
 Great Britain, France, Italy, United States, Japan.

7. Miscellaneous.—In addition to the above, Germany was to be credited with--

(a) The value of nonmilitary material handed over at the

(b) The value of public utility interests demanded by and delivered to the Reparation Commission.²⁵

(c) The value of German Government property in areas ceded to the Allies, which was to be paid direct to the commission by the recipient Governments (France 26 and Bel-

(d) The proportion taken over by the recipient Govern-ments with ceded areas of the debt of the German Empire and of the States to which the areas belonged, as these debts stood on August 1, 1914, the proportion taken over to be determined by the commission and paid direct to the commission (France being exempted from this provision respecting Alsace-Lorraine, in consideration of Germany's having refused to take over a part of the French debt in 1871).

Following the transmission to Germany of the draft of the treaty, a long memorandum of "observations" thereon was prepared by the German peace delegation and remitted to the Allies. Count Brockdorff-Rantzau, spokesman for Germany, therein made an offer of a lump sum of 100 billions of marks, 20 billions thereof being payable by May 1, 1926, the remainder, without interest. over 50 to 60 years. It was pointed out by the Allies, however, in rejecting this proposal, that at 6 per cent the present value of the amount would be only about 30 billions of marks. The Allies' reply made only minor modifications in the treaty, but gave Germany an opportunity to submit within four months from the signing of the treaty a scheme, together with estimates, evidence, and arguments, for the liquidation of her reparation indebtedness by a lump-sum payment, by the carrying out of reconstruction work, by supplying labor, materials, technical service, etc. Such scheme and evidence, it was stated, would be carefully considered by the Allies, and a reply given within two months.

NOTE.-For purposes of calculating the periods men-Note.—For purposes of calculating the periods men-tioned in the treaty, the date is used when the first procès verbal of ratification by Gormany and three of the prin-cipal allied and associated Powers was completed.²⁷ The treaty was signed on June 28, 1919, and was ratified as follows: Germany—July, 1919. Great Britain, France, Italy, and Japan—October, 1919. On the other hand the "date of the coming into force of the treaty" is for each Power the date of ratification by that Power.²⁷

ADDENDUM—OTHER TREATIES.

The various other treaties which were concluded subsequently to the Versailles treaty are,

²¹ Art. 250. This includes various items, two of the most important being: (Art. VI) "Stores of food of all kinds for the civil population, eattle, etc., shall be left in situ;" (Art. VI) "5,000 locomotives and 150,000 wagons in good working order, with all necessary spare parts and fittings, shall be delivered to the associated Powers within 31 days." Further, 5,000 motor lorries were to be delivered within 36 days.
 ³⁵ Art. 260, see p. 1292, column 1.
 ³⁶ "In view of the terms on which Alsace-Lorraine was ceded to Germany in 1871." The reason for Belgium's exemption is not specifically stated.
 ³⁷ Miscellaneous provisions.

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in comparison with it, of relatively small importance. That between the Allies and Bulgaria, signed on November 29, 1919, at Neuilly, imposed a payment of 24 billions of gold francs as reparation, in half-yearly payments. The July 1, 1920, and January 1, 1921, payments were to represent interest at 2 per cent on the total from January 1, 1920. Thereafter, each half-yearly payment would include interest at 5 per cent on the outstanding capital sum, the whole of which would be extinguished by January 1, 1958. An interallied commission was to be set up at Sofia to consist of one member each from the British Empire, France, and Italy, and of a nonvoting member representative of Bulgaria. In the event of default in reparation payments, this body might control, to any extent and for any period it might think necessary, the collection of taxes, sources of revenue, disbursement of the proceeds, etc. Reparation payments were to be made through this body to the Reparation Commission set up under the Versailles treaty. While the interallied commission had no power of itself to reduce or postpone payments, it might recommend to the Reparation Commission a reduction of any particular payment, or of the capital sum, and the latter might grant a reduction or postponement by a majority vote. Bonds covering a part or the whole of the amount due might be called for by the Reparation Commission, which might dispose of them as it thought fit, such bonds being a direct obligation of the Bulgarian Government.

The treaty with Austria, signed at St. Germain-en-Laye on September 10, 1919, was, in its general provisions, almost identical with the Versailles treaty. It recognized Austria's responsibility for damages caused by her aggression and her inability to pay the whole The authority for the execution cost thereof. of the reparation provisions was the commis-sion appointed under the Versailles treaty, with the added provision that a special section of the commission was to be appointed to deal with Austria. It was given only consultative powers, except so far as the commission chose to delegate other powers to it. By May 1, 1921, the commission was to determine Austria's total liability, and by that date Austria was to pay such an amount as the commission demanded, out of which, as in the case of Germany, would be paid the expenses of the forces of occupation and the cost of approved imports. The Austrian section of the commission was to be composed of delegates from the United States, Great Britain, France, Italy, Greece, Poland, Rumania, the Serb-Croat-Slovene State, and Czechoslovakia. Of these the first four were in voting to have two votes each. The remaining States were to have one common representative. In working out the claims against Austria the commission was ordered to take account of the diminution of the country's resources resulting from the territorial provisions of the treaty. The system of covering the indebtedness by bonds, as set out in the Versailles treaty, was applied with small modifications to Austria.

As regards payments in kind demanded forthwith, several categories of demands were dealt with. The Austrian merchant fleet not being large enough to compensate the Allies for all their damages, the whole of that fleet was ceded to the Allies, together with river craft up to 20 per cent of the total possessed; all this to be delivered within two months.

The following animals were to be handed over as an immediate advance:

Kind of animals.	To Italy.	To the Serb-Croat- Slovene State.	To Ru- mania.
Milch cows. Heifers. Bulls. Calves. Working bullocks. Sows. Draft horses. Sheep.	50 1,000 1,000 2,000	1,000 300 25 1,000 500 1,000 1,000	1,000 500 25 1,000 $1,0001,0001,000$

In addition, during the six months following the treaty, such furniture as the commission demanded was to be supplied.

Five-year options were accorded the Allies to demand annual delivery of timber and timber manufactures, iron and iron alloys, and magnesite, these amounts to bear the same relation to the Allies' pre-war annual importations from Austria-Hungary as the resources of the present Austria bore to those of the prewar Austro-Hungarian Empire.

The treaty with Turkey was signed at Sèvres on August 10, 1920. All reparation claims, except as provided elsewhere, were waived by the Allies, owing to the large reductions in Turkish revenues due to the territorial rearrangements made under the treaty. A financial commission was created, consisting of delegates from France, the British Empire, and Italy, with a consultative Turkish representative, with large powers over the economic life of the country. It was to approve the budgets presented to the Parliament, to supervise execution thereof, to regulate and improve the currency, and to conserve and increase Turkey's resources. This commission was to have at its disposal all the Turkish revenues, which were

the second of the expenses of the forces of occupation. Turkey was to pay for all loss or damage suffered by civilian nationals of the Allies in respect of their persons or property through the negligence or the action of Turkish authorities prior to the treaty. Furthermore, Turkey agreed to make reparation to the European Commission of the Danube for damages sustained by that body. At the same time, all claims held against Turkey by Germany, Austria, Bulgaria, and Hungary were transferred to the Allies.

The United States Senate having voted against ratifying the treaty of Versailles, a separate bipartite treaty was concluded with Germany at Berlin, signed on August 25, 1921, and ratified by both parties in October of that year. The brevity of this treaty is due to the fact that it consisted in the main of a reservation of most of the rights accruing to the United States by the terms of the Versailles treaty, together with a repudiation of the "entanglements" and responsibilities into which it led them. The preamble to the treaty of Berlin contained a part of the joint resolution of Congress, approved by the President on July 2, 1921, from which the following is quoted:

* * There are expressly reserved to the United States and its nationals any and all rights, privileges, indemnities, reparations, or advantages, together with the right to enforce the same, to which it or they have become entitled under the terms of the armistice signed November 11, 1918, or any extension or modification thereof, or which were acquired or are in the possession of the United States of America by reason of its participation in the war or to which its nationals have thereby become rightfully entitled, or which under the treaty of Versailles have been stipulated for its or their benefit; or to which it is entitled as one of the principal allied and associated Powers, or to which it is entitled by virtue of any act or acts of Congress, or otherwise.

Germany accords these rights, which are mentioned specifically as being those contained in Section I, Part IV, and in Parts V, VI, VIII, IX, X, XI, XII, XIV, and XV of the Versailles treaty. Further,

* * * while the United States is privileged to participate in the Reparation Commission, according to the terms of Part VIII of that (the Versailles) treaty, the United States is not bound to participate in any such commission unless it shall elect to do so.

REFUNDING LOAN OF OCTOBER 16, 1922.

On October 9 the Secretary of the Treasury issued the following letter to banks and trust companies in the United States:

disposal all the Turkish revenues, which were to be applied in the first instance to the payment of its own salaries and expenses, and in abouts, with the right reserved to the Secretary of the Treasury to allot additional bonds to the extent that $4\frac{3}{4}$ per cent Victory notes or Treasury certificates maturing December 15 are tendered in payment.

per cent victory notes of reasury certificates matring December 15 are tendered in payment. The new bonds will be 25/30 year bonds, dated October 16, 1922, maturing October 15, 1952, and redeemable at the option of the United States on and after October 15, 1947. The bonds will be issued in both coupon and registered form, in denominations of \$100 and upward. Applications will be received through the Federal reserve banks, and the Treasury is prepared to make deliveries promptly upon allotment and payment. Subject to the limitations on the amount of the offering, allotments will be made in full, in the order of receipt of application, upon subscriptions for amounts not exceeding \$10,000 for any one subscriber, and upon subscriptions for which either 4½ per cent Victory notes or Treasury certificates maturing December 15 are tendered in payment. Other applications for amounts exceeding \$10,000 for any one subscriber will be received subject to allotment.

This is a refunding issue, and it affords a particularly favorable opportunity to holders of 4% per cent Victory notes to acquire a long-time Government bond on attractive terms in place of Victory notes which will mature or be redeemed within the next few months. I am, therefore, addressing this letter to the heads of all banking institutions in the country, and asking you to provide every possible facility for investing in the new bonds. I hope that you will also make a special effort to bring the offering to the attention of your customers, large and small, for it is the Treasury's desire to secure the widest possible distribution of the bonds among investors.

I think you will be interested in this connection to know what has already been accomplished in the refunding of the short-dated debt and what still remains to be done. On April 30, 1921, when the Treasury first announced its refunding program, the gross public debt, on the basis of daily Treasury statements, amounted to about \$24,000,-000,000, of which over \$7,500,000,000 was maturing within about two years. On September 30, 1922, the total gross debt on the same basis stood at about \$22,800,000,000, and of the early maturing debt about \$4,000,000,000 had already been retired or refunded, chiefly into short-term Treasury notes with maturities spread over the next four fiscal years. There will fall due this fiscal year about \$1,100,000,000 of Treasury certificates of indebtedness, about \$625,000,000 maturity value of war-savings certificates of the series of 1918, and about \$1,800,000,000 of Victory notes. Of the Treasury certificates, about \$48,000,000 represents Pittman Act certificates which will be retired this year through the recoinage of silver bullion, while about \$100,000,000 of loan certificates maturing October 16, 1922, will be paid out of funds already in hand. The retirement of these certificates will leave only tax certificates outstanding, and it will in any event continue to be desirable, with income and profits tax payments as large as they are, for the Treasury to have outstanding at least \$1,000,000,000 of tax certificates in amounts and with maturities conforming to the quarterly tax payments. This correspondingly reduces the amount

of necessary refunding into other securities. After October 16, 1922, the next maturities fall on December 15, and include about \$870,000,000 face amount of 44 per cent Victory notes called for redemption, and about \$420,000,000 of maturing tax certificates of Series TD and TD2-1922, against which the Treasury will receive in December about \$250,000,000 of income and profits taxes. On January 1, 1923, the \$625,000,000 of war-savings certificates become payable, but the Treasury has already announced, as you know, a new offering of Treasury savings certificates with a view to refunding as much as possible of the maturity into obligations of the same general character and with the same appeal to the needs of the small investor. The Treasury will shortly announce special facilities for the exchange of maturing war-savings certificates for the new Treasury savings certificates, and plans in this manner to provide for a substantial part of the war-savings maturity. The only Treasury certificates maturing in the second half of the fiscal year 1923 are about \$266,000,000 on March 15, 1923, and about \$273,000,000 on June 15, 1923, both of which are covered by the income and profits tax payments estimated for those dates. On May 20, 1923, the remaining \$930,000,000 of 44 per cent Victory notes will mature according to their terms.

The maturities which remain and have to be refunded the Treasury will meet through issues of refunding securities, properly adjusted to market conditions, and I believe it will be able to meet them, as it has in the past, without disturbance to the markets and without strain on the financial machinery. During the course of the refunding operations which have been in progress the Treasury has issued from time to time Treasury certificates of indebtedness, Treasury notes, and Treasury savings certificates, all relatively short-term. These operations have been successful and have been accomplished without disturbance to the market for outstanding securities. With the announcement of the bonds now offered, the Treasury is adding to its list a refunding issue of long-time bonds, on a basis which should prove particularly attractive to investors. These bonds will provide, through exchanges and otherwise, for a substantial part of the heavy maturities falling on December 15, and the success of the offering will leave only a normal amount of financing to be placed on that date.

It is four years since the Treasury has offered to the people of the United States an issue of long-time Government bonds. During that period it has been financing itself on a short-term basis, and it has succeeded, with your cooperation, in placing with investors throughout the country a great volume of Treasury certificates and Treasury notes. Now that the time has come for a longerterm operation, I am looking forward with confidence to your continued support, and hope that, as with previous offerings of Government securities, you will give your best efforts to the distribution of the new Treasury bonds among investors.

UNITED STATES OF AMERICA.

FOUR AND ONE-QUARTER PER CENT TREASURY BONDS OF 1947-1952.

(Dated and bearing interest from October 16, 1922. Due October 15, 1952. Redeemable at the option of the United States at par and accrued interest on and after October 15, 1947. Interest payable April 15 and October 15.)

The Secretary of the Treasury invites subscriptions, at par and accrued interest, from the people of the United States, for 44 per cent Treasury bonds of 1947–1952, of an issue of gold bonds of the United States authorized by the act of Congress approved September 24, 1917, as amended. The amount of the offering will be \$500,000,000, or thereabouts, with the right reserved to the Secretary of the Treasury to allot additional bonds up to a limited amount to the extent that 44 per cent Victory notes or Treasury certificates of indebtedness of Series TD or TD2–1922 are tendered in payment.

DESCRIPTION OF BONDS.

The bonds will be dated October 16, 1922, and will bear interest from that date at the rate of $4\frac{1}{4}$ per cent per annum payable April 15 and October 15 in each year, on a semiannual basis. The bonds will mature October 15, 1952, but may be redeemed at the option of the United States on and after October 15, 1947, in whole or in part, at par and accrued interest, on any interest day or days, on four months' notice of redemption given in such manner as the Secretary of the Treasury shall prescribe. In case of partial redemption the bonds to be redeemed will be determined by such method as may be prescribed by the Secretary of the Treasury. From the date of redemption designated in any such notice, interest on the bonds called for redemption shall cease. The principal and interest of the bonds will be payable in United States gold coin of the present standard of value.

Bearer bonds with interest coupons attached will be issued in denominations of \$100, \$500, \$1,000, \$5,000, and \$10,000. Bonds registered as to principal and interest will be issued in denominations of \$100, \$500, \$1,000, \$5,000, \$10,000, \$50,000, and \$100,000. Provision will be made for the interchange of bonds of different denominations and of coupon and registered bonds and for the transfer of registered bonds, without charge by the United States, under rules and regulations prescribed by the Secretary of the Treasury.

The bonds shall be exempt, both as to principal and interest, from all taxation now or hereafter imposed by the United States, any State, or any of the possessions of the United States, or by any local taxing authority, except (a) estate or inheritance taxes, and (b) graduated additional income taxes, commonly known as surtaxes, and excessprofits and war-profits taxes, now or hereafter imposed by the United States, upon the income or profits of individuals, partnerships, associations, or corporations. The interest on an amount of bonds and certificates authorized by said act approved September 24, 1917, and amendments thereto, the principal of which does not exceed in the aggregate \$5,000, owned by any individual, partnership, association, or corporation, shall be exempt from the taxes provided for in clause (b) above.

Any of the bonds which have been owned by any person continuously for at least six months prior to the date of his death, and which upon such date constitute part of his estate, shall, under rules and regulations prescribed by the Secretary of the Treasury, be receivable by the United States at par and accrued interest in payment of any estate or inheritance taxes imposed by the United States, under or by virtue of any present or future law upon such estate or the inheritance thereof. The bonds will be acceptable to secure deposits of public moneys, but do not bear the circulation privilege and are not entitled to any privilege of conversion.

APPLICATION, ALLOTMENT, AND PAYMENT.

Applications will be received at the Federal reserve banks, as fiscal agents of the United States. Banking institutions generally will handle applications for subscribers, but only the Federal reserve banks are authorized to act as official agencies.

Within the limitation on the amount of the offering applications from any one subscriber for an amount of bonds not exceeding \$10,000 will be allotted in full, and allotments thereon may be made upon application. Applications for amounts in excess of \$10,000 will be received subject to allotment. The right is reserved to reject any subscription for an amount in excess of \$10,000, and to allot less than the amount of bonds applied for and to close the subscriptions at any time without notice. The Secretary of the Treasury also reserves the right to make allotment in full upon applications for smaller amounts, and to make reduced allotments upon or to reject applications for larger amounts, and to make classified allotments and allotments upon a graduated scale; and his action in these respects will be final.

Payment at par and accrued interest for any bonds allotted must be made on or before October 16, 1922, or on later allotment; provided, however, that persons who desire to make payment in installments may pay 50 per cent on October 16, 1922, or on later allotment, and the balance on November 15, 1922, with accrued interest to that date on the deferred installment. Any qualified depositary will be permitted to make payment by credit for bonds allotted to it for itself and its customers up to any

amount for which it shall be qualified in excess of existing deposits, when so notified by the Federal reserve bank of its district, except upon subscriptions for which Victory notes or Treasury certificates of indebtedness of Series TD or TD2-1922 are tendered in payment. Treasury certificates of indebtedness of Series D-1922, maturing October 16, 1922, of Series TD-1922 and TD2-1922, both maturing December 15, 1922 (with any unmatured coupons attached), and Victory notes of the 44 per cent series, whether or not called for redemption, will be accepted at the Federal reserve banks at par, with an adjustment of accrued interest, as of October 16, 1922, in payment for any Treasury bonds of 1947-52 now offered which shall be subscribed for and allotted. Victory notes in coupon form must have all unmatured coupons attached, and if in registered form must be duly assigned to the Secretary of the Treasury for redemption, in accordance with the general regulations of the Treasury Department governing assignments. Payments must be made when and as herein provided under penalty of forfeitm of any installment previously paid and of all right and interest in the bonds allotted.

As fiscal agents of the United States, Federal reserve banks are authorized and requested to receive subscriptions and to make allotments thereon on the basis and up to the amounts indicated by the Secretary of the Treasury to the Federal reserve banks of the respective districts. Allotment notices will be sent out promptly upon allotment, and the basis of allotment will be publicly announced.

Bonds will be delivered promptly after allotment and upon payment, and coupon bonds may be delivered prior to October 16, 1922, to subscribers for amounts not in excess of \$10,000 who make payment in full upon allotment. The Federal reserve banks may issue interim receipts pending delivery of the definitive bonds.

Further details may be announced by the Secretary of the Treasury from time to time, information as to which, as well as forms for application, may be obtained from the Treasury Department, Division of Loans and Currency, Washington, D. C., or from any Federal reserve bank.

A. W. MELLON, Secretary of the Treasury. TREASURY DEPARTMENT, OFFICE OF THE SECRETARY,

October 9, 1922.

Foreign Branches of American Banking Institutions.

Following is a list of foreign branches and affiliations of American banking institutions, including national banks, trust companies, and other corporations organized under American State charters. This list does not contain the names of institutions having no foreign branches, though organized to finance foreign trade or to undertake foreign financial operations, particularly the two so-called Edge corporations, organized under section 25 (\tilde{a}) of the Federal reserve act. Nor does it include the names of a few banks controlled by American capital and operating in Mexico and Central America under charters granted by the respective foreign Governments. The banks are grouped under two general heads-(1) national and other member banks, and (2) all other institutions.

MEMBER BANKS. Bankers Trust Co., New York, N. Y .: Branches Paris, France. Equitable Trust Co., New York, N. Y.: Branches-London, England. Paris, France. . Mexico City, Mexico. Representatives Bombay, India. Calcutta, India. Hongkong, China. Yokohama, Japan. Berlin, Germany. Do not conduct regular banking business, but execute foreign exchange and investment trans- Farmers Loan & Trust Co., New York, N. Y.:
 Farmers Loan & Trust Co., New York, N. Y.:
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- ¹ Temporarily closed.

* Formerly branches of Commercial National Bank, Washington.

BUSINESS AND FINANCIAL CONDITIONS ABROAD.

THE RAILWAY SITUATION IN GREAT BRITAIN AND FRANCE.

Following the period of Government operation of railways in Great Britain and France, which was inaugurated early in the war, important legislation was enacted almost simultaneously in the two countries affecting the future operation of the railways and their relations to the respective Governments. A little more than a year has now elapsed since the new legislation went into effect, and sufficient data are now available to justify a review of these recent developments and the steps leading up to them.

GREAT BRITAIN.

THE END OF GOVERNMENT CONTROL.

At the very beginning of the war the British Government assumed control of all the most important railways of the United Kingdom, leaving only certain minor lines under the management of their owners. Early in the war the Government also had declared itself in favor of extending control over the railways for a period of two years after the war, and of continuing the guarantee of net earnings for such a period. It was realized that this would require additional legislation, inasmuch as the railways were taken over under the act of 1871 which permitted Government control only so long as an emergency existed. Nothing very definite, however, in the direction of a postwar policy for the railways was outlined until in August, 1918, the Government appointed a select committee on transport to study the problem. The committee, in presenting its second report in November, 1918, gave the following as its preliminary conclusions:

Your committee considers—

(1) That the organization of the transport agencies of the country—and particularly of the railways—can not be allowed to return to its pre-war position.

(2) That the temporary arrangements for the control of railways and canals during the war would not be satisfactory as a permanent settlement.
(3) That unification of the railway system is desirable

(3) That unification of the railway system is desirable under suitable safeguards, whether the ownership be in public or private hands.

The committee proceeded to enumerate several possible ways of carrying out these recommendations, some involving private and others public ownership. All of the general plans, it is interesting to note, pointed in the direction of further amalgamation and unification.

On February 26, 1919, the Government introduced a bill into Parliament "to establish a roads.

Ministry of Ways and Communications," the name being changed a little later to "Ministry of Transport." of Transport." Very wide powers were granted to the new Minister of Transport, the duties of the Board of Trade in relation to railways, inland waterways, roads, harbors, and piers being transferred to him. The Board of Trade, on the other hand, retained its functions pertaining to trade and foreign commerce. The bill provided that for a period of two years longer the new ministry should retain possession and control of the railways which had been taken over by the Government in the early days of the war. Among other things, it was pro-vided that the Minister of Transport should prepare within two years a program of future action. Important among the provisions of the bill was that creating a rates advisory com-mittee The Minister of Transport had to refer all questions of changes in rates to this committee for their advice, but all executive power lay with him.

Soon after the bill was passed and went into effect, the date being August 15, 1919, a railway advisory committee was formed to carry on certain of the functions of the railway executive committee, which as a department of the Board of Trade during the war had carried into effect the plans and orders of the Government. With the passing out of existence of the railway executive committee, the railways formed also a standing committee of general managers to represent their interests.

On June 24, 1920, the Minister of Transport's proposals for the permanent management of the railways were given to Parliament in the form of a "white paper." The idea of nationalization of the railways was rejected, but the principle of the elimination of competition was upheld as promoting economy of operation. The railroads of the United Kingdom under this scheme were to be amalgamated into seven groups, each managed by a board of directors elected by the shareholders, but on which the employees were also to be represented. As to revenue, Parliament was to lay down the principle that rates and fares should be such as to give the companies a net revenue equivalent to pre-war amounts. If there was any surplus beyond this the Government was to have a Disputes concerning wages and workshare. ing conditions were to be put before the central wages board and the national wages board. The Ministry of Transport was to have authority to require companies to make capital expenditures, to impose standards as to equipment and plant, and to compel cooperation between

Certain parts of this plan were subjected to despread criticism. The railways objected widespread criticism. to the proposed grouping, to workers being represented in the management, to the State taking part of the revenue, and especially to the future powers of the State in relation to the railroads. Finally, after much public discussion and debate, a modified plan for dealing with the railways was incorporated in a bill which on May 11, 1921, was introduced into the House of Commons, and was passed by Parliament in August.

THE RAILWAYS ACT OF 1921.

The act of 1921, which took effect on August 15, 1921, is divided into six parts as follows:

- I. Reorganization of the railway system.
- II. Regulation of railways. III. Railway rates.
- IV. Management and wages board. V. Light railways.
- VI. General.

Part I.—The new grouping of railroads is somewhat different from that proposed by the somewhat different from that proposed by the "white papers" and more nearly in accord with the ideas of the railway association. There are to be four groups—the North-western, Midland, and West Scottish; the Northeastern, Eastern, and East Scottish; the Western; and the Southern. Schemes for amalgamation and absorption of subsidiary companies are to be presented to the Minister of Transport not later than January 1, 1923, and to be referred by him to an amalgamation tribunal. These schemes were to come into effect not earlier than June 30, 1922, nor later than July 1, 1923. The progress already made in carrying the amalgamations into effect will be referred to below.

Part II.—The rights of the State are considerably cut down as compared with the former plan. The railway and canal commission or the Minister of Transport can, however, require a railway company to afford reasonable services and facilities to the public, and to make capital expenditures involving an outlay of not more than £100,000 in any one case.

Part III gives effect to the proposals of the rates advisory committee's report of 1920 on the revision of rates. A new body, the railway rates tribunal, was established, consisting of one person experienced in commerce, one in railroads, and a lawyer who must be the chair-man, besides a staff of ten persons. The functions of this important tribunal,

resembling in many respects the Interstate Commerce Commission of the United States, relate to-

(a) Alterations of classifications.(b) Variations or cancellation of through rates.

- (c) The institution of new group rates, or the cancellation, modification or continuance of existing ones.
- (d) The variation of any toll payable by the trader.
- The determination of the amount to be allowed for (e) terminal or private siding privileges. The reasonableness of any charge made by a company.
- (g) The reasonableness of contentions as to damage in
- transit or liability as to damage. (h) All questions concerning passengers' luggage.

The classification of articles in the first place is to be by the rates advisory committee which is to continue until that work is done. Schedules are to be submitted to the new tribunal under this classification and after they have been approved are to be put into effect. From that time they will be the only lawful rates. Subsequent changes can be made only on application to the tribunal. All exceptional rates are to cease to exist after the day the schedules go into effect, but new exceptional rates can be made if they are not less than 5 per cent or more than 40 per cent below the schedule. These rates must be reported to the minister fourteen days beforehand. The rates charged on the roads are to yield an amount, allowing for efficient and economical management, equal to the net revenue in 1913 with allowance for interest on capital expenditures not yielding a return in 1913. The tribunal is empowered to change rates so that the revenue will conform to this standard.

Part IV.—In case of disagreement between the railways and the trades unions, the act provides that all questions as to wages, hours, and conditions of work are to be referred to the central wages board or, on appeal, to the national wages board. The central wages board as reconstituted consists of eight representatives of the companies and eight of the employees.

Such, briefly, was the legislation enacted and machinery set up at the time the railways were returned by the Government to their owners on August 16, 1921.

PROGRESS OF AMALGAMATIONS.

As a result of this legislation, approximately 120 separate railway undertakings, including all the railways of Great Britain, large and small, are to be combined into four distinct groups or corporate entities. Under the terms of the act of 1921 the necessary amalgamation schemes are to come into operation not later than July 1, 1923, and the present companies are allowed until the end of 1922 to come to voluntary agreements among themselves upon the terms of union. Where the companies can not agree, the amalgamation tribunal decides the matters at issue. The tribunal, moreover, must approve all amalgamation proposals in detail before they go into effect.

The chief difficulties so far encountered in carrying the new plan into effect have arisen out of the conflicting interests of stockholders in the different railways to be combined. Since the railway act specifies which of the four great groups each railway company shall enter, the questions at issue have centered around the financial terms to be arranged between the present companies. This has involved a nice adjustment, not merely between companies that have always been in a strong position and others that for years have never paid a dividend, but also between the different classes of stockholders and bondholders in the same company. Under these circumstances it is not surprising that the progress toward unification has been slow; perhaps rather it is to be wondered at that, with all the difficulties in the way and the numerous interests involved, so much has already been accomplished.

Progress has thus far been mostly in the nature of preliminary consolidations of two or more companies within the proposed larger groups. Several such consolidations have been negotiated, voted upon favorably by the stockholders affected, and approved by the amalga-mation tribunal. For instance, the Great Western Railway—the most important company in the new western group—by the end of February of this year had come to terms with five of the six other constituent companies in its group, and on March 25, 1922, this preliminary amalgamation was approved by the amalgamation tribunal. In the northwestern group the London & North-Western Railway, which had already absorbed the Lancashire & Yorkshire, announced that a preliminary agreement had been effected in March of this year with the important Midland Railway. The problems of consolidation have been especially difficult in the northeastern group, which includes several of the strongest railways of Great Britain along with others in a much less favorable position. Nevertheless, in July six of the more prominent railways in this group announced the financial terms for consolidation that their directors had determined upon. This plan is to be submitted in due course to the stockholders of the six companies concerned and, if approved, will then be laid before the amalgamation tribunal for its sanction. In the southern group the terms of a preliminary scheme of amalgamation, as agreed upon by the directors of the London & South-Western Railway and the other constituent companies of the southern group, were announced on October 20, 1922. Additional plans are being actively negotiated in the different groups, the details of which, however, have not been announced.

CHANGES IN RATES.

The rate situation in Great Britain has been somewhat unusual. Throughout the war freight rates remained essentially unchanged at about the pre-war level. After the war, however, since the railroads were not making expenses and the Government was averse to meeting its guarantee from general taxes, the Minister of Transport asked for a revision of rates. Accordingly, on December 16, 1919, the rates advisory committee announced its policy for revision. Rates on short hauls were to be increased more proportionately than rates on long hauls, and those on valuable goods more than on less valuable goods. In-creases were to be in the form of percentage increases, for the most part, with small advances in flat rates. On January 15, 1920, this first interim revision went into effect, bringing increases ranging from 25 per cent to 100 per cent. The first revision, however, proved inadequate, for the roads were showing a deficit at the rate of £54,500,000 annually, which the Govern-ment desired to have made up in 11 months. The committee, therefore, recommended further increases in freight rates, which were put into effect in September, 1920. These several changes taken together resulted in advancing the general level of freight rates to about 100 per cent above the pre-war level.

Shortly after the railways were returned to their owners on August 16, 1921, certain reductions were made in the hope of stimulating On November 1, 1921, the English business. and Welsh companies reduced rates on raw materials to assist the steel trade, and on January 1, 1922, reductions were made in coal rates, those on certain other raw ma-terials, and on iron and steel in Class B. Class A and Class B rates generally, rates on iron and steel in Class C, and some others were reduced as from May 22, 1922. Finally, on August 1, 1922, there was a general reduc-tion of rates by the English and Welsh companies, especially affecting those rates that had not already been reduced. These recent changes have brought both class and exceptional rates down to 75 per cent above pre-war instead of 100 per cent above that level. The Scottish railway companies, while not reducing rates on local traffic, announced that as from August 1, 1922, through traffic of all classes would be charged the same rates as obtained on the English and Welsh lines. The amount involved in these reductions represents a considcrable saving to the business community, and the changes are expected to exercise a favorable influence upon trade.

FRANCE.

The close relations existing between the railways of France and the treasury draw attention to the fact that the railroad problem in that country is one not merely of industrial economics but also of public finance. The end of the war left French railways in a very unsatisfactory condition, which became worse in the trying months of 1920 and 1921. Since the passage of the law of October 29, 1921, a distinct improvement has taken place and the situation is now much more promising.

The French railways may be divided into three groups. In the first group is the company known as the State Kailways (Chemins de Fer de l'État), which is the successor of the Railway of the West, bought out by the State in 1908, and operated by the Government since the beginning of 1909. The securities of the West are still quoted, but it is regarded as a concern in liquidation. The second group, Compagnies d'Intérêt Général, includes the five great railway corporations, and, since the war, the Chemins de Fer d'Alsace et de Lorraine et du Guillaume-Luxembourg. These latter lines are administered by the State, and being small, are not of great importance. The third group is composed of minor lines (Compagnies Secondaires) of which the largest are the Algerian State Railways and the Oran Railway, both in Africa. That group will not be considered in this article.

The following table shows the size of the principal lines:

Railway.	Railway. Date of or- ganization.			
State Railway 1 Paris-Lyon-Méditerranée (with- ont Algerian lines) Nord Orléans Fst Midi Lines of Alsace-Lorraine and Guil- laume-Luxembourg	June, 1855 Sept., 1845 Aug., 1835 Dec., 1845 Nov., 1852	1958 1950 1956 1954 1954 1960	<i>Kilometers</i> . 9, 011 3, 830 7, 469 5, 027 4, 117 2, 228	

¹ The date of organization is that of the Chemins de Fer de l'Ouest, which was purchased by the State in 1908.

The total length of lines now in operation is 41,463 kilometers, or about 26,000 miles. The six systems (excluding the lines acquired during the war) represented about two-thirds of the mileage and 95 per cent of the railway revenue of the entire country before the war.

Prior to the war the relations of the railroad corporations to the Government were defined by the "Conventions of 1883," and it was expected that except in the eventuality of purchase by the State, these conventions would

provide a satisfactory basis for the relations between the railroads and the public until the expiration of the several concessions. Under these conventions the railways were regarded as monopolistic enterprises, conceded to private corporations, but held under the control of the State, to prevent abuse of their privileges. There was no idea of competition between the lines; each system serves a distinct territory. The railway corporations were closely associated in their finances with the public treasury, to the extent of aid for extension of lines and a guaranty of interest on their bonds and of dividends on their stocks. The amount of this guaranty was based upon the actual conditions existing at the time of the conventions. This guaranty of return was not a gift from the treasury, but took the form of advances made to cover deficits, bearing interest at 4 per cent. When any line had paid off its advances from the State, the dividends might be increased up to specified amounts. Beyond that limit the surplus was to be shared by the company and the State.

On the whole, the conventions worked well. Length of line doubled in the 30 years between 1883 and 1913, growing from 20,700 kilometers to 41,000 kilometers. Rates declined about 28 per cent. Financially the plan proved a marked success. The Est, Paris-Lyon-Méditerranée, and the Nord had paid off the advances from the Government, the Paris-Lyon-Méditerranée having even paid into the Government about 12,000,000 francs under the provisions for the division of surplus. The Midi was nearly in equilibrium, while the Orléans. making the poorest showing of the private lines, had a total deficit of only 17,000,000 francs. The State Railway had a deficit of about 84,000,000 francs, counting certain charges inherited from the period of its private operation.

There were, however, some important drawbacks to the system. The approaching expiration of the concessions, varying with the different roads between 1914 and 1960, caused uncertainty as to their ultimate future, and this, of course, was reflected in their credit, so that borrowing became increasingly expensive.

The system of rate making was unsatisfactory, the rates having some flexibility within the limits of the established schedule called the "cahier des charges". Theoretically, the initiative in rate charges was to come from the railroads, subject to the approval of the Ministry of Public Works. The tendency was to keep the rates low, which, however, did not cause hardships to the roads until the violent price changes incident to the war. The rate schedules were exceedingly involved, while the variations of rates on the different lines emphasized the need of a system of charges uniform on all the lines. Another disadvantage lay in the individualism of the various lines, leading to a serious lack of standardization of equipment, and to the failure to cooperate with inland waterways.

The financial structure of the railroads, which will be taken up in detail later, also brought certain disadvantages. Out of a total capitalization in 1913 of about 18,000,000,000 francs, 16,000,000,000 francs represented bonded indebtedness, while the shares with voting power constituted only about one-ninth of the capital engaged. As much of the stock was held by small owners, it was not difficult nor very expensive for interested persons to secure control of any railroad. The proportion of bonds to stocks is even higher now.

From these considerations, the conclusion seems warranted that, although the Conventions of 1883 did not produce an ideal basis for the conduct of French railways, they had achieved, on the whole, satisfactory practical results.

FRENCH RAILWAYS DURING THE WAR.

This situation was changed for the worse from the outbreak of the war. A centralized system of military administration was immediately imposed on them from necessity. Almost onetenth of their personnel was called away to military duty, although the great majority of railway workers of military age were simply mobilized at their respective jobs. But the necessities of recruiting personnel, whether because of increased traffic, or reductions of force by mobilization, death, retirement, or other causes, occasioned the companies no small difficulties.

Further, the rise in commodity prices, while rates remained practically stationary during most of the war period, obliged the companies to take advantage of the State guaranties men-tioned above. This left two of the lines, the Nord and the Paris-Lyon-Méditerranée, in a most difficult position, as their concessions expired December 31, 1914. Their arrangements with the Government were, however, extended and they were allowed to meet their deficits by the issue of securities, pending final arrange-ments to be made after the conclusion of hostil-To make matters worse, a considerable ities. part of the lines of the Nord and the Est was in the zone of war or actually in the hands of the enemy. Even when the lines were not actually subject to the rigors of the front, rough usage, abnormal traffic, and undermaintenance caused costly depreciation.

Following the conclusion of hostilities, little time was lost in returning the railways to private control. Without waiting to determine eventual policy, this was done by a decree of February 3, 1919. But the situation of the roads became rapidly worse. Prices, especially of coal, continued to rise, reflecting, as they had not completely done during the war, the serious depreciation of the franc.

While wage costs had greatly increased during the war, the largest single increment under this head came with the obligatory eight-hour law of April 23, 1919. This law is the principal reason for the enormous increase in the number of employees, which rose from 393,000 in 1913 to 467,000 in 1920. The law was put into force abruptly, with the result that the railways whose old personnel had already been depleted, and to an extent disorganized by the war, were obliged to hire great numbers of untrained, not to say incompetent, employees, thus adding an extra burden.

The following table shows the situation of the roads during these years:

Receipts and Deficits of the Six French Railways, $1913-1920.^1$

[In millions of francs.]

Year.	Receipts.	Deficit.
1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920.	2,020 1,733 1,815 2,233 2,433 2,969 3,851 5,333	79 311 272 217 287 448 1,369 2,772

¹ Source: Bulletin Financier of the Crédit Suisse, June 30, 1922. Later figures show the 1921 deficit as 2,981,000,000 francs.

As might be expected, the stocks and bonds of these companies reflected the gravity of their financial situation, despite the guaranty of revenue. The following table from L'Economiste Français, shows the change:

[Price, in francs.]

Railway.	Common s value 1,00	tock (par 0 francs).	3 per cent bonds, Series A (par value 500 francs).		
	July,	Feb.,	July,	Feb.,	
	1914.	1920.	1914.	1920.	
Nord.	1,300	930	404	307	
Est		651	425	322	
Orléans		910	417	336	
Paris-Lyon-Méditerranée		701	404	309	
Midi.		795	416	312	

The most urgent need was for an increase in rates which would correspond to increased costs and to the depreciation of the currency. The pressure of this condition is shown by the fact

that the coal bill of the railways was 183,000,-000 francs in 1913 and 781,000,000 francs in 1919, while wages and allowances had risen from about 800,000,000 francs in 1913 to 2,745,000,000 francs in 1919. An increase in rates of 25 per cent, granted by the law of March 31, 1918, had proved insufficient, as prices continued to rise during that year and the following. down to the spring of 1920. The deficits continued to mount, adding to the embarassments of the treasury, burdened with the charges of the war and facing those of reconstruction. To make the railroads self-supporting, a further increase was granted (law of February 14, 1920). The passenger rates were raised 45 per cent for third-class passengers, 50 per cent for second, and 55 per cent for first class. Freight rates in general advanced 115 per cent. The drastic effect of advanced 115 per cent. this increase is shown by the fact that it raised some tariffs to 500 per cent of their pre-war scale. In comparison with the advances in commodity prices, the average increases in freight rates do not seem to be excessive.

The two acts outlined above-the return of the lines to private control and the increase of rates-prepared the way for a general discussion of the whole railway question in France. As was stated earlier, the Conventions of 1883 had worked well, but the experience of over 30 years had shown the advisability of some changes. The situation arising from the war and its aftermath made a complete revision of policy imperative. First of all, as the table above has shown, the advances by the Government to the roads, as measured by the annual deficits, had reached figures which practically precluded repayment. But to offset these liabilities, the roads had enormous counterclaims against the Government. The financial relations of the treasury and the roads were in an almost inextricable tangle. Apart from this was the older and more persistent problem of providing France with a unified, selfsupporting railway system, instead of a number of more or less individualized railway systems, requiring frequent advances from public funds. and reluctant to cooperate with each other or with other forms of transportation.

Numerous projects were proposed, varying from Government ownership of all lines to a private monopoly of the combined systems. The Conféderation Générale du Travail private monopoly of the combined systems. The Conféderation Générale du Travail advanced a scheme for nationalization, and the great strike of May 1, 1920, centered around this demand. But extreme plans found little favor with the French public, of whom perhaps 3,000.000 are holders of railway securities. There was a strong feeling against

the bureaucratic administration of business affairs, which even many of those theoretically inclined toward nationalization regarded as too high a price to pay for the possible advantages.

During the years of 1920 and 1921 the needs of French transportation received thorough consideration and discussion, which led to the conventions between the Government and the lines, signed June 28, 1921, reproduced in the law of October 29, 1921, embodying the plan of M. Le Troquer, Minister of Public Works. The result is a system which provides for close cooperation between the lines, while retaining flexibility and the advantages of private initiative. The benefits of Government control seem to have been retained, and to counteract its disadvantages incentives are provided to stimulate efficiency of operation and encourage economy. The plan provides for a superior council (Conseil Supérieur des chemins de fer), with the president appointed by governmental decree, and 60 members. Of these, 30 represent the railroads, of which 12 represent the employees, being elected by them. The other 30 are to represent the public interest, 10 of them being public officials, and all appointed by the ministry. The Director of Railways, an official of the Ministry of Public Works, sits with the council as representative of Government. Of the members at present representing the public interest on the council, seven are delegates from municipal chambers of commerce, five from important industries, four from the agricultural associations, three from maritime enterprises, and three from miscellaneous organizations. This council has exceptionally wide powers, as it must be consulted on all questions of common interest to all the lines, in technical, commercial, administrative, and financial matters. It considers the construction of new lines, relations with other forms of transport, such as waterways, the question of rates, signals, policing, agreements with foreign lines, etc. The Minister of Public Works is not absolutely bound by decisions of the council, but in case of a difference the minister must accord the council a second hearing.

The minister is given great authority, especially in the matter of rates. He can lower particular rates at will, and effect general reductions on the advice of the council. He can enforce his decisions by legal means, while under the conventions, the only weapon

NOVEMBER, 1922.

Finances, files objection within one month. However, in case the proposed rates exceed certain fixed limits, they must be submitted to Parliament.

The roads agreed to construct certain new lines, bearing one-fifth of the expense, instead of the guaranty of 25,000 francs per kilometer under the conventions. The State's share, at its request, may be advanced by the roads, to be repaid by annuities.

FINANCIAL PROVISIONS OF THE LAW OF OCTO-BER, 1921.

The State agreed to restore the lines destroyed or damaged by war to their condition of August 2, 1914, and the roads waived any further claims for damages. The guaranty of revenue is assumed to have ceased in 1914, and thus the amounts advanced under the guaranty of revenues down to January 1, 1921, are considered offset by the claims of the companies against the Government, the slate being wiped clean.

From its receipts each road will keep the sums necessary to meet its operating expenses, interest on bonds, limited dividends, other costs, and its bonus or premium (prime de gestion). Lines showing a deficit may draw upon a common fund (fonds commun). Surpluses of the more favored roads are paid into the common fund, to which for the present money is advanced from the State treasury; and from 1921 to 1926, inclusive, all deficits in the common fund are to be met by the State. In case this fund becomes too large, all advances having been paid off and reserves established, the surplus belongs to the State-though this eventuality is virtually impossible, as such a contingency would call for a reduction of This plan establishes the financial solirates. darity of the railway systems, and rates are to be adjusted with that fact in mind.

But while this plan contemplates that the stronger roads, such as the Est, Nord, and the Paris-Lyon-Méditerranée, will assist in sup-porting the weaker lines, all are given an in-centive for efficiency and economy. In the Conventions two sorts of dividends had been provided for-the guaranteed dividend (revenu guaranti) and the possible dividend (dividende reservé). The latter might be paid, when earned, before division of surplus with the State became obligatory. The possible dividend was, of course, materially larger than the guaranteed dividend-in the Est more than twice as large. The guaranteed dividend remains," the other having been abolished under the new law; but to provide incentive a new scheme was devised, | cultural region comparatively. thinly popu-

called a "prime de gestion" (bonus for operation). This is divided into two phases, the prime du réseau" (bonus for the company) and "prime du personnel" (bonus for the employees). These are determined by rather complex calculations, being based on the improvement shown over the results of the year 1920. In the year 1921 one-third of this bonus went to the companies and two-thirds to the employees. Finally, provisions were made for the amortization of bonds before the eventual expiration of the concessions or franchises, and for the purchase of any line by the State in case it was found advisable.

One of the most interesting features of the whole scheme is that forbidding strikes, inserted to prevent the recurrence of the critical days of 1920. Every dispute between roads and employees becomes the object of compulsory arbitration before a tribunal of five members, two representing the employees, two representing the interested road, and a fifth to be designated by those members of the superior council not personally connected with the railroads.

Except for the powers reserved by the State or entrusted to the council the individual railroads preserve their liberty of action as of before the war. They are free to choose their own officers and employees and to maintain their own discipline.

Although the law was made retroactive to January 1, 1921, that year hardly offers a fair test of its worth. But the results were moderately satisfactory, as is shown by the following table covering the year 1921:

[ln m	tillions of f	ancs.]	~	
Railway.	Receipts.	Operat- ing ex- penses.	Câpital charges.	Total deficit.
Nord. Est. Paris-Lyon-Méditerranée Orléans. Jidi. État.	9859101,670924420995	1,060 907 1,734 1,094 499 1,486	169 163 362 217 104 196	244 160 426 387 183 687
Total	5,904	6, 780	1,211	2,087

These figures, taken from L'Economiste Européen, are the latest available. They do not exactly correspond with the figures published in the official Bulletin de Statistique, as the latter includes some sums received but not earned during 1921, etc. They show a notable reduction of the 1920 deficit; and one line-the Est-succeeded in meeting its operating expenses. About one-third of the total deficit is that of the Etat, a system which serves an agrilated. The following table shows the bonus due each road for the year 1921:

Est	4, 340, 000
Midi	955,000
Orléans	717,000
Nord	5,049,000
Paris-Lyon-Méditerranée	966, 000

The bonus for the Est passed the figure, after which one-half of the surplus must be paid to the common fund.

For the six main systems other data show improvement. The average operating ratio was 63 per cent in 1913, 134 per cent in 1920, and had declined to 114 per cent in 1921. The average number of employees, given as 393,000 in 1913, rose to 467,000 in 1920, and shows a small decline to 462,000 last year, though the item of salaries and wages increased. This was \$10,000,000 francs in 1913, 3,290,000,000 francs in 1920, and 3,410,000,000 francs in 1921.

CURRENT OPERATIONS.

One of the most significant facts is that the railways seriously damaged by the war have been doing very well. The table below summarizes the damage done and the repairs effected up to July 1, 1922, for all the French railways affected by the war:

> Railway, main lines: Destroyed, 2,404 kilometers. Reconstructed, completely. Bridges destroyed, 1,503.
> Bridges repaired, all.
> Railway, local lines: Destroyed, 2,407 kilometers.
> Restored, 1,328 kilometers.
> Bridges destroyed, 481.
> Bridges destroyed, 517.
> Bridges finally repaired, 539.

In addition, reparation deliveries from Germany included 2,600 locomotives and 70,000 cars.

The figures for the current year show marked improvement over those of last year. The gross receipts of the larger French railways during the period from January 1 to September 2, 1922, were as follows:

Railway.	Gross receipts, Jan. 1 to Sept. 2, 1922.	Increase over same period 1921.	Porcentage of increase.
État. Paris-Lyon-Méditerranée Nord. Orléans. Est. Midi. Alsace-Lorraine and Guil- laume-Luxembourg	Francs. 658, 995, 000 1, 142, 580, 000 693, 240, 000 589, 955, 000 654, 340, 000 300, 095, 765 309, 919, 000	Francs. 52,945,000 66,030,000 68,984,000 4,983,000 65,509,000 12,173,815 29,325,000	8.74 6.1 10.9 .85 11.13 4.22 10.45

The excellent showings made by the Nord and Est reflect the activity in restoring the devastated regions which they serve.

GENERAL COMMENTS ON FRENCH RAILWAY FINANCE.

In considering French railways, one important fact must always be held in mind. The private companies are only concessionaires. At the expiration of their concessions, the lines go to the State. Consequently all bonds are scheduled for amortization before the concessions expire. Elaborate provision has been made for the payment of equities existing at that time, and also, as was stated above, for the purchase, under exceptional circumstances, of any line before the expiration of its concession.

The following table prepared by the Crédit Suisse shows the capital structure of these lines, as of the end of 1921:

[In millions of francs.]

Railway.	Stocks.	Bonds.
État Orléans. Nord Est Midi Paris-Lyon-Médilerranéo (minus Algorian lines)	300 232 292 125 400	3, 478 4, 377 4, 060 2, 268 1, 142 8, 013
Total	1,349	23, 339

In comparison with American railroads, this arrangement seems to have too large a proportion of bonded indebtedness --18 to 1. But actually, under the Conventions of 1883 or the law of 1921, the proportion between the two makes comparatively little difference.

The capitalization per mile is on the average, rather higher than that of American lines, if the franc is taken at par.

Railway.	Total capi- talization (francs).	Kilometers operated at end of 1921.	Miles opcrated (§ mile=1 kilomcter).
État Orléans	4,677,000,000 4,292,000,000 2,560,000,000 1,267,000,000	9,011 7,800 3,830 5,027 4,119 9,781	5,6254,8752,3953,1402,5756,113
Railway.	Capitalizati	on per mile.	In dollars at 5 fr.=\$1.
État Orléans Nord Est Midi Paris-Lyon-Méditerranée		ncs. 8,000 0,000 2,000 5,000 2,000 5,000	$123,600 \\ 192,000 \\ 358,400 \\ 163,000 \\ 98,400 \\ 275,000$

While many problems remain to be solved, the outlook for the French railways seems hopeful. There is still considerable dissatis-

faction over the rigid acceptance of the eighthour day, which has recently been somewhat modified in the case of the clerical forces. But so far the railways have avoided the crisis which this fall has tied up a part of the shipping industry. The system of labor representation and the "prime du personnel" have promoted good relations and allayed unrest. Train schedules are nearly at their pre-warnormal of service. Electrification is being pushed, notably on the P. L. M., Orléans, and Midi, and numerous other improvements are being installed. There is agitation for reduced rates, but, realizing the need of securing the financial stability of the lines, the Supreme Council has decided to continue the present average rates until May, 1923, the general principle being that the rates should correspond with the level of prices. The law, which was passed by a large majority a year ago, seems to have met the expectations of its sponsors. Altogether, so far as can be observed at this time, the railways of France are at present in a satisfactory condition, with good prospects of improvement, unless involved in general political or economic disturbances not associated with their own industry.

THE GERMAN COAL SITUATION.

Germany to-day faces a coal shortage that tends to influence the entire economic future of the country. The abundance of cheap coal, coupled with labor paid for in paper marks, have been the main secrets of Germany's ability to produce goods cheaper than any other nation since the armistice. The prevailing coal shortage, however, has changed this situation to a very large extent. Not only has it tended to bring the price of German coal near the world price level but it has also necessitated the importation of large quantities of foreign coal. It has further increased the cost of production to such a degree that at the present time the coal question is one of the most important economic problems which the country faces. Coal output has to be considered in connection with reparation payments, since large quantities of coal must be delivered monthly to the Allies. It plays also an important rôle in Germany's balance of trade, and above all it exercises great influence on the productive capacity of the country. The loss of the Lorraine iron mines, which makes Germany's industries largely dependent upon foreign iron ore, enhanced further the importance of Germany's coal resources. Despite the fact that Germany is in possession of Westphalia, which contains the largest reserves of coking coal in Continental Europe, inducing | and 1921 is due largely to deliveries for repara-

many to believe that the present coal shortage is artificial, it is nevertheless true that a severe coal shortage exists. This shows that Germany's difficulties are not merely of a financial nature, growing out of the depreciation of her currency, but also that her industries rest upon an unstable basis. A survey, therefore, of the present coal situation and the causes of the prevailing coal shortage is useful since it enables one to understand the instability of Germany's economic situation and the reasons why it has become steadily worse.

PRODUCTION AND FOREIGN TRADE.

The output of coal in Germany immediately after the outbreak of the war (see Table I) showed an erratic downward movement. This was caused partly by the decrease in the number of employees who were mobilized for war service and partly by the decreased demand, since Germany was unable to export coal abroad to the same extent as before the out-break of hostilities. The production of coke, however, was well maintained throughout the entire war period, mainly due to the great demand for by-products of coke for war purposes.

While the output of coal and coke has thus been lower during the last few years than that of 1913, the output of lignite has increased considerably. This increase is due to several causes, prominent among which are the transfer of coal fields to other countries, which made coal scarcer, and the fact that many German industries and private households who are unable to purchase the more expensive coal meet their fuel needs by the much cheaper lignite. In addition, several new inventions have made the use of lignite more profitable.

In discussing Germany's coal supply mention should also be made of the production of briquets, which are made both of coal Coal briquets contained for the and lignite. period 1913 to 1919, about 93 per cent of coal, the rest being tar (pitch).

From the figures of production alone, how-ever, it is impossible to ascertain what the present coal situation is. The coal exports and imports of the country must first be analyzed before conclusions as to consumption and the

resulting coal shortage can be drawn. Both exports and imports (see Table II) show almost the same downward tendency. During the war coal was Germany's principal commodity in her trade with neutral countries, such as Scandinavia, Holland, and Switzerland, where it was exchanged primarily for foodstuffs. The rapid increase in the coal exports in 1920

tion account, the free exports being smaller than those of the previous years.

A brief analysis of imports by countries of origin (see Table III) shows also that distinct changes have taken place during the last few years. Coal imports from Holland, Belgium, and the territories of the former Austro-Hungarian Empire have decreased to a very large extent. The Dutch imports represent mainly transshipments from England and reflect the general status of Holland's present coal trade. The great quantity of American coal imported during 1920 is due mainly to various trade restrictions prevailing in Europe after the armistice.

Coal exports, on the other hand, have been largely influenced by reparation deliveries, which are also the main cause of the great change in the countries of destination. Before the war Austria-Hungary and Holland were Germany's best coal customers, while during 1921 France, Belgium, and Italy held the lead-ing places. "Free exports" of coal from Germany, that is, those not included in reparation deliveries, are of even less importance than shown by the official figures, if it is borne in mind that shipments to Poland, Danzig, Memel, and Austria are regulated by the peace treaty, and exports to the Saar Basin by the Wiesbaden agreement. Thus, only shipments to Czechoslovakia, Holland, Switzerland, and Scandinavian countries may be regarded as "free exports."

CONSUMPTION.

If the amount of coal produced in Germany is added to that of coal imports, and the coal exports are deducted, the result gives the approximate amount of coal for domestic consumption. (See Table IV.) A mere presentation of figures showing total coal available for consumption would, however, not give a true picture of the situation, since territorial changes have resulted in a decrease of the pop-ulation in Germany. For this reason per capita consumption figures have been computed. Coal consumed in Germany during 1921 was less by 40,000,000 metric tons than the consumption in 1913. This figure, however, is too large, since it refers also to the territories which have been ceded to other countries. Alsace-Lorraine, the Saar Basin, Luxemburg, and the eastern Provinces ceded to Poland consumed about 23,000,000 tons. Thus the territory constituting the present Germany consumed during 1913 about 158,-000,000 tons, as compared with 134,000,000 tons for 1920 and 139,000,000 tons for 1921, an underconsumption or shortage of about 20,-000,000 metric tons. This does not take tons, as compared with 3,500,000 metric tons

are discussed later. This figure gains further in importance if one considers that Germany's exports of coal for 1921 have also decreased by 19,000,000 metric tons as compared with 1913. In calculating the amount of coal consumed in Germany, lignite has been converted into terms of coal by assuming that 9 tons of German lignite and 3 tons of Bohemian lignite are each equal to 2 tons of coal.

The report of the Reichs Kohlenrat (Federal Coal Council) for the year 1921 contains interesting data, comparing the use of domestic coal for the years 1913, 1920, and 1921. These figures are presented in the following table in condensed form:

CONSUMPTION OF DOMESTIC COAL IN GERMANY.

[Quantities in	thousands	of	metric	tons.]
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Avail- able fuel at end of year.		Total (Total exports.		Deliveries to Entente.		Available supply for domestic consumption.		
		Weight.	Per- centa of tot suppl	ge al	Weight.	Per- centage of total supply.	in eig	zht.	Index (1913= 100).
1913 1920 1921	137,620 147,119	45, 422 24, 262 27, 213	17. 18.		15, 634 18, 598	11.4 12.6	148, 113, 119,	392 000 000	100. 0 76. 4 80. 8
	Domestic consumption.								
Yo	ear.	Doil	ailroads.		is, water	and	stry, agric	hous rultu	sehold, ire.
		Kant	oaus.	and elec- tricity.		Weig	ght.		(ndex 13=100).
1913 1920 1921		1	4, 004 6, 590 6, 782		11, 628 14, 867 14, 697	/ 83	2,760 3,000 9,000		100. 0 67. 4 72. 1

According to the above figures, the amount of German coal made available for domestic needs during 1921 shows a decrease of 28,000,-000 metric tons, or of 19.2 per cent as compared with 1913.

It is of interest to note that while industry, the household, and agriculture received less fuel during 1920 and 1921, railways, gas, water, and electrical plants received more coal during the past two years than during 1913. Railways during 1921 received 2,780,000 tons more than in 1913, and gas, water, and electrical plants 3,070,000 tons more. This increase is due largely to the greater use of coal of a lower quality. The situation of the railroads with regard to coal reserves is, however, precarious. Reserves on hand on July 15, 1922, were, according to reliable sources, 750,000 metric account of the altered needs of industry, which 'for the same date in 1913. The consumption of foreign coal by the Federal railways, it was stated, is such that without this coal the traffic efficiency would suffer considerably.

The above-mentioned shortage of 20,000,-000 metric tons of coal during 1921 has further increased during 1922, mainly due to the continuous decrease in the coal output. Produc-tion, for instance, amounted in July to 9,589,-000 metric tons and in August to 10,206,000 metric tons, which is, respectively, 1,995,000 metric tons and 1,378,000 metric tons below the monthly average production for the first six months of the present year.

The coal situation has further been aggravated by the greater requirements for coal for domestic consumption. During the war Ger-many was forced to develop new industries and many was forced to develop new industries and to create commodities which she previously bought from abroad. Due to the lack of petroleum, which is mainly imported, Ger-many was compelled to establish many gas and electrical plants in order to provide light for many small towns and villages which previously depended entirely upon petroleum for lighting purposes. The loss of the iron and for lighting purposes. The loss of the iron and steel factories located in Alsace-Lorraine also necessitated the establishment of new plants which further increased the demand for coal.

CAUSES OF THE PRESENT COAL SITUATION.

The facts in the present coal situation having been analyzed, it is now desirable to review the causes that have brought about the existing These are mainly the cession of shortage. important coal fields by Germany, the forced coal deliveries for reparation account, and the decrease in the output of the mines retained by In addition to these major causes Germany. there are also others of less importance, such as the great drought, which made the carrying of coal on the rivers very difficult, and the rail-road strike in February, 1922, which greatly disturbed the distribution of coal.

(a) Cession of Upper Silesia.—Through the loss of the Lorraine, Saar, and Upper Silesian coal fields Germany's pre-war capacity decreased as compared with that of 1913 by about 49,700,000 metric tons, or 26.15 per cent. By far the most important coal fields lost, however, are those of Upper Silesia, which during 1913 produced 43,801,000 metric tons of coal. The output of the part ceded to Poland amounted in 1913 to 33,000,000 metric tons, or 75 per cent of the total Upper Silesian output. Not including the Saar, the Palatinate, and the Lorraine coal fields, this in itself represents a loss of about 20 per cent of Germany's total coal output. The largest proportion of coal produced in Upper Silesia was shipped to Ger- | treaty, amounted to about 47,000,000 metric

many (see Table V), where many industrial sections depend on Silesian coal.

The decrease during 1921 is to be ascribed to the occupation of Upper Silesia by the Polish irregulars. The output for the first six months in 1922 amounted to 16,185,000 metric tons, the distribution of which, after deducting the quantity used by the mines themselves, was as follows: Motria tone

· ·	menie tons.
Former plebiscite area	1,334,000
Germany.	5,700,000
Poland	1,670,000
Austria	1,105,000
Czechoslovakia	260,000
Italy	543,000
Danzig	123,000
Memel	54,000
Mungary	S2, 00 0

From these figures it is evident that the Upper Silesian coal was mainly used by Germany, and that henceforth Germany will have to import large quantities of coal from Poland. The statement is often made in the German press that the transfer of the majority of coal mines in operation in Upper Silesia to Poland decreases the quantity of coal available for needs in Germany, since the exportation of coal from Poland into Germany is not assured. This is based upon the fact that many mines in Polish Upper Silesia have changed their ownership. Of the total coal mines, 11.5 per cent formerly owned by the Prussian State are now the property of the Polish Government. In addition, other mines have been acquired by British, French, and Polish companies. According to the peace treaty and the Geneva agreement, Poland is bound to permit the export of coal to Germany for 15 years. Polish railroads, however, have in several instances refused to carry coal from Upper Silesia into Germany. To indicate the real loss which Germany suffered from the cession of Upper Silesia, the coal fields which have not been opened should also be considered. Before the war Germany's coal wealth to a depth of 1,200 meters was estimated at 184,768,000,000 metric tons, of which 96,000,000,000 metric tons are in the ceded part of Upper Silesia.

(b) Coal deliveries.—Coal deliveries under the peace treaty are the second cause of the present coal situation. Including coke and lignite, coal shipped to the Entente in accordance with article 236 of the treaty of Versailles amounted to 2,419,000 metric tons for 1919, to 15,632,000 metric tons, or 11.36 per cent of the total available supply, for 1920, and to 18,069,000 metric tons, or 12.64 per cent, for 1921. The total shipments of coal to Belgium, France, and Italy up to July 1, 1922, under the terms of the peace tons. German coal shipments to France alone from the date of the armistice on November 11, 1918, to January 1, 1922, amounted to 27,202,-300 metric tons. Distribution, by periods, was as follows:

Under the protocol of Luxemburg:	Metric tons.
Nov. 11, 1918, to Aug. 31, 1919	4, 371, 700
Under the peace treaty:	
Sept. 1, 1919, to Jan. 10, 1920	2, 145, 200
Jan. 10, 1920, to Dec. 31, 1920	10, 635, 000
Sept. 1, 1919, to Jan. 10, 1920 Jan. 10, 1920, to Dec. 31, 1920 Jan. 1, 1921, to Dec. 31, 1921	10,049,000

Total coal deliveries for the first six months in 1922 amounted to 9,600,000 metric tons. Reparation deliveries are fixed for three months in advance. For May, June, and July they were 1,916,000 metric tons and for the three months from August to October, inclusive, 1,725,000 metric tons. It was further stipulated that should Germany's coal production increase sufficiently, deliveries to the Allies should be increased by about 20 per cent. Loss of the Upper Silesian coal fields and the decrease of the Ruhr output reduced Germany's productive capacity to such an extent that the deliveries for August, September, and October had to be decreased to 1,610,000 metric tons.

During several months Germany was unable to deliver the stipulated amount of coal. Since, however, the Reparation Commission insisted upon delivery in full, an agreement was reached between the interested parties whereby Germany was allowed to purchase coal in Great Britain and ship it at her expense to France and Belgium. The huge shipments of coal for reparation account and the increased imports of British coal for domestic German consumption have brought about an unusual transport situation. German coal is being shipped down the Rhine to provide French railways, gas and electrical plants with fuel, while the same barges carry British coal up the Rhine for southern and central German consumption. To avoid this double cost of transportation, the German Government made a proposal that it be permitted to ship British coal direct from Great Britain to France and Belgium, but this was not agreed to by the Reparation Commission.

Ås already indicated, France, Belgium, and Italy are the largest recipients of German coal. Deliveries during 1921, amounting to 18,000,-000 metric tons of coal, and of coke and briquets converted to coal equivalents, were distributed as follows:

[In thousands of metric tons.]

	Coal.	Coke.	Briquets.
France Belgium. Italy	6, 504 2, 598 2, 544	3, 838 134 62. 8	475.6 75.5

17134-22----4

The forced coal deliveries disturbed to a very "free coal shipments, large extent the especially those of Great Britain. Her exports of coal to the above-named countries have decreased rapidly. For instance, France, which during 1913 imported from Great Britain 12,776,000 metric tons of coal, imported during 1921 only 6,396,000 tons, showing thus a loss of imports of British coal about equal to the increase in the imports of German coal. Italy's coal imports from England show a still greater decrease, declining from 9,647,000 metric tons in 1913 to 2,905,000 tons in 1920 and to 3,383,000 tons in 1921. It would, however, be erroneous to ascribe this great slump in the British coal exports entirely to reparation deliveries, for the total coal exports from Great Britain decreased from 58,100,000 tons in 1913 to 20,100,000 tons in 1920 and to 18,800,000 tons in 1921. During the last few months of 1922 British coal exports showed an upward movement, mainly due to increased German imports.

(c) Decrease of output.—A third cause of the present coal shortage is the decline in the output of almost all German coal mines. Coal production fell from an average working day's output of about 480,000 metric tons in January and February and 500,000 tons in March to about 403,000 tons in June. The greatest drop in the coal output took place in the Ruhr Valley, where the six-month daily average for 1922 is 319,161 metric tons, as compared with 384,020 tons for 1913. The monthly output of coal in this district during 1921 and 1922, as compared with that of 1913, is shown in the following table:

. Month.	1913 j	1921	1922
January. Fobruary. March April. May. June.	Metric tons. 389,493 383,088 382,560 383,445 381,915 383,455	Metric tons. 332,904 340,609 307,407 303,655 299,123 307,033	Metric tons. 322,090 322,416 333,882 326,637 310,844 298,036
Six-month average	384,020	314,962	319, 181
July. August. September Oétober November December	376,740	309,514 320,522	302,469
Twelve-month average	379,840	310,866	

The decrease in the coal output is the direct result of the labor situation and above all of the shortening of the working day. Up to November 18, 1918, a shift was $8\frac{1}{2}$ hours; from that time until April 1, 1919, 8 hours; from then until April 9, 1919, $7\frac{1}{2}$ hours; and since then 7 hours. The abolition of overtime, which started in March, 1921, was not entirely offset by the increase in the number of employees, and meant a loss of approximately 38,000 metric tons daily, or an annual loss of about 11,000,000 metric tons. After prolonged negotiations between employers and unions, an agreement was reached on August 24, 1922, according to which the Ruhr miners pledged themselves to work two hours overtime three days a week. These additional six hours a week, it was estimated, would increase the total German coal output by about 500,000 metric tons a month, and will tend to decrease considerably the imports of foreign coal.

The productive capacity of the mines was further seriously affected by the emigration of miners to other trades and districts. According to a report of the Federal coal council, more than 25,000 miners left the Ruhr coal mines to engage in other trades. The number of employed miners decreased from 561,158 during April to 545,640 in May, and to 535,861 in June. A slump in the building trade, which set in during the end of the second quarter of the year, induced many miners to return to the coal mines. It was reported that during July the number of employees increased by about 3,600.

EFFECTS OF THE COAL SHORTAGE.

The immediate results of the prevailing coal shortage are manifold and tend to influence the productive capacity of German industries, the balance of trade, and practically all phases of Germany's economic life. In German circles it is also feared that a severe lack of coal, coupled with unemployment, may not be without serious effects upon the internal political situation.

Many German industrial concerns have been unable to provide themselves with coal for the winter, and it is generally believed that a large percentage of them will be forced either to close or to decrease their activity, which in turn will cause unemployment. The railways, which during 1920 and 1921 had coal reserves for about 25 days, report that their present stock is only for 12 days, and is steadily decreasing. On June 1, 1922, the consumption of coal by the mines had been decreased by 10 per cent, and since this reduction did not bring satisfactory results, a further 10 per cent decrease was decided upon on June 20, 1922. Gas and electrical plants, which previously were using only two or three kinds of coal, are at the present time forced to experiment with more than 45 different kinds, which further tends to increase the cost of gas and electricity. These plants are also suffering from a severe coal shortage. Thus, for in-

consumed by gas plants, as fixed by the Federal coal commissioner, was 624,000 tons, it being assumed that this amount would cover two-thirds of their actual needs. As a matter of fact, however, they received only the following quantities:

1922—January	265,000
February	286,000
March	234,000
April	
May	

The large gas plants of Mannheim, Nüremberg, Dresden, and Leipzig reported that during July they had supplies only for two, three and one-half, five, and six days, respectively. Other important gas and electrical plants, especially those located at the northwest coast, depend almost entirely upon British coal, large quantities of which it is reported are also consumed by many industries located in central and southern Germany. Use of British coal for domestic consumption has increased rapidly, since even railways have been forced to purchase large quantities of foreign coal. Imports of coal from Great Britain for the year 1913 amounted to about 9,000,000 metric tons, or to about 750,000 metric tons per month, while those for July, 1922, were about 1,200,000 metric tons, an increase of 62 per cent.

The shortage of coal and the ever-increasing importance of foreign coal forced the German Government to suspend the import tariff of 40 per cent ad valorem on coal. At first this tariff was abolished only for four months, namely, from March 31 to August 1, 1922. When the coal shortage became more acute, the period was extended until March 31, 1923. The result of this action was an immediate increase in imports, as may be seen from the following table:

IMPORTS OF COAL, COKE, AND BRIQUETS.

[In metric tons.]

Month.	Coal.	Coke.	Briquets.
1922. March April May June June July August	336, 921 333, 704 789, 799 1, 542, 223	5144,0389,838 $34,45627,61952,460$	3, 302 1, 515 336 3, 944 8, 365 7, 218

Total coal imports for the first six months amounted to 2,102,215 metric tons, as compared with 552,857 metric tons for the last half of 1921, and as already stated imports are steadily increasing.

from a severe coal shortage. Thus, for instance, the monthly average of coal to be increase the unfavorable balance of trade and

thus exercises a depressing influence on mark exchange. Since the imported coal is in almost all cases paid for in gold or in high valued foreign currencies, it necessitates an additional sale of paper marks. Foreign coal also brings in a new element of uncertainty in the price make exports more difficult, and may uliti-calculation of German manufacturers. Whereas mately lead to serious unemployment.

until recently the cost of coal could almost entirely be figured on a mark basis, at present the use of foreign coal makes such a calculation impossible. All these factors tend to in-crease the cost of production of German goods,

Table I.-PRODUCTION OF COAL, COKE, AND LIGNITE IN GERMANY.

[In thousands of metric tons.]

			Coa			Briq	uets.			
Year.	Ruhr.				9 	1	Coke.	Lignite.		
	Actual.	Percent- age of total.	Upper Silesia.	Saar.	Other districts.	Total.	CORC.	U	Coal.	Lignite.
1913 1914 1915 1916 1917 1918 1918 1919 1920 1921 (first 6 months)	114, 487 98, 255 86, 778 94, 563 99, 365 96, 017 71, 154 88, 408 94, 115	59. 8 60. 8 59. 1 59. 2 59. 2 60. 6 60. 9 67. 3 68. 9	$\begin{array}{r} 43, 435 \\ 36, 996 \\ 38, 107 \\ 41, 723 \\ 42, 752 \\ 39, 648 \\ 25, 701 \\ 31, 686 \\ 29, 639 \end{array}$	13, 217 10, 032 8, 384 8, 903 10, 265 9, 989 8, 981	$\begin{array}{c} 18,970\\ 16,072\\ 13,598\\ 13,980\\ 15,365\\ 12,600\\ 10,871\\ 11,247\\ 12,456\end{array}$	$\begin{array}{c} 190,109\\ 161,385\\ 146,867\\ 159,169\\ 167,747\\ 160,908\\ 116,707\\ 131,341\\ 136,210\\ 69,505\\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	87, 233 83, 694 87, 948 94, 180 95, 543 100, 599 93, 648 111, 880 123, 011 65, 887	4,081 4,938	$\begin{array}{c} 21, 498\\ 21, 098\\ 22, 750\\ 23, 484\\ 21, 541\\ 22, 709\\ 19, 301\\ 24, 273\\ 28, 243\\ 14, 221\\ \end{array}$

Fable II.--IMPORTS AND EXPORTS OF FUEL.

[In thousands of metric tons.]

	Imports.						Exp	orts.				
Year,	Coal and coal briquets.	Coke.	Total coal.1	Lignite.	Lignite briquets.	Total lignite.²	Coal and coal briquets.	Coke.	Total coal. ³	Lignite.	Lignite briquets.	Total lignite.4
1913	10,5666,4962,5501,378511200493341,3692,193	$593 \\ 360 \\ 89 \\ 105 \\ 105 \\ 25 \\ 25 \\ 2 \\ 8 \\ 52 \\ 2 \\ 8 \\ 52 \\ 105 \\ 105 \\ 25 \\ 105 \\ 25 \\ 105 \\ 105 \\ 25 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 105 \\ 10$	11, 3576, 9762, 6681, 518651233493351, 3702, 181	6,987 5,628 5,133 5,296 3,917 3,015 1,868 2,356 2,757 1,188	121 131 147 130 95 56 38 42 15,987	7, 350 6, 021 5, 574 5, 686 4, 202 3, 183 1, 982 2, 482 2, 757	$\begin{array}{c} 36,877\\ 29,166\\ 18,066\\ 20,768\\ 16,026\\ 13,575\\ 5,749\\ 15,541\\ 19,325\\ 4,280\\ \end{array}$	$\begin{array}{c} 6,411\\ 3,858\\ 3,714\\ 4,134\\ 3,004\\ 2,409\\ 3,421\\ 5,228\\ 5,434\\ 558\end{array}$	$\begin{array}{r} 45,422\\ 34,310\\ 23,018\\ 26,280\\ 20,031\\ 16,787\\ 10,310\\ 22,512\\ 26,570\\ 5,097\end{array}$	$ \begin{array}{r} 60\\ 47\\ 39\\ 37\\ 25\\ 31\\ 13\\ 72\\ 536\\ 9\\ 9 \end{array} $	861 805 522 502 353 243 246 261 986 176	2, 643 2, 460 1, 605 1, 543 1, 084 760 751 4, 342 2, 994

¹ Coke converted into coal.
 ² Lignite briquets converted into lignite.
 ³ Figures of coke converted to coal equivalents.

Figures of lignite briquets converted to lignite equivalents.
Estimated.
Reparations deliveries not included.

Table III.--IMPORTS OF COAL, COKE, AND BRIQUETS INTO GERMANY, BY COUNTRIES.

[Metric tons.]

Country.	1913	1919	1920	1921	Country.	1913	1919	1920	1921
Great Britain Netherlands Austria-Hungary Belgium.	545,700	2, 148 1 386	12, 877 45 1 37, 757 3, 521	577, 488 71, 427 1 68, 504 540	France. United States. Africa. Saar	17,007	20 46,230	984 258, 906 3, 005 26, 542	20 96, 541 543, 439

¹ Czechoslovakia.

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Table IV .-- CONSUMPTION OF FUEL.

[Thousands of metric tons.]

Year.	Coal.	Lignite.	Total coal and lignite. ¹	Per head of popula- tion.	Year.	Coal.	Lignite.	Total coal and lignite. ¹	Per head of popula- tion.
1913	156, 044 134, 051 126, 518 134, 408 148, 367	91, 940 87, 253 91, 917 98, 323 98, 661	179, 742 156, 118 149, 422 158, 784 172, 161	Tons. 2.68 2.33 2.25 2.41 2.62	1918 1919 1920 1921	144, 354 106, 446 109, 163 111, 010	103, 022 94, 879 110, 020 122, 774	168,664 128,412 134,715 139,519	<i>Tons.</i> 2, 54 2, 11 2, 23 2, 31

¹ Figures of lignite converted into terms of coal.

Table V.-SHIPMENTS OF UPPER SILESIAN COAL.

		Shipments to						
Year.	Total production of Upper Silesia.	Plebiscite area of Upper Silesia.	Poland, Austria, and Hungary.	Italy.	Czecho- slovakia, Danzig, and Memel.	Outside of	Percentage of total production.	
1920	27, 857 25, 983	8,322 7,736	5, 119 5, 103	660 929	1, 121 952	12, 550 11, 257	45.05 43.32	

CURRENT ECONOMIC CONDITIONS IN ARGENTINA AND BRAZIL.

ARGENTINA.

Foreign trade.-Notwithstanding the fact that there are at present in the economic situation of Argentina a number of unfavorable factors, such as the drop in imports and exports, reduced stocks of wheat, wool, and linseed, and excessive rainfalls, economic readjustment is progressing satisfactorily and general conditions remain favorable. The difficulty in collecting items drawn on the interior, due to a recent drop in Argentine exchange, has tended to restrict imports and purchases on a large scale, whereas the closing of the crop season has resulted in a reduction of exports. Figures showing the exports of some of the principal Argentine products during the first nine months of the current year, as compared with the same period of 1921, are indicated in the following table:

Commodity.	Exports 1 to Sep omitted	from Jan. ot. 30 (000
	1921	1922
Wheat	1,5612,1251,001353,2581,980	3, 204 1, 437 731 77 3, 230 2, 306

¹ Figures for 8 months.

The live-stock industry.—According to a report of the agricultural statistics division of the Government of Argentina, the number of loans on live stock and agricultural products has been gradually decreasing; and since prices for cattle are materially improving the live stock and agricultural industries may be considered as approaching more normal conditions. Figures showing the number and amount of live stock and agricultural loans for the first semester of the current year, are as follows:

Month.	Number of loans.	Amount in paper pesos.
1922. January Yebruary March April May June Total.	1,085 1,149 1,345 1,714 1,185 1,120 7,598	24, 374, 603 28, 344, 554 24, 518, 668 21, 339, 825 20, 278, 429 23, 358, 436 142, 214, 516

The classification of these loans as reported by the division of agricultural statistics follows:

Loans on	Number.	Amount in paper pesos.
Live-stock collateral Other products Machinery and tools.	3, 217 3, 477 904	93, 935, 292 44, 194, 665 4, 084, 559
Total	7, 598	142, 214, 516

The report further states that up to June 30, 1921, the total number of operations amounted to 116,330, with a value of 1,438,775,115 paper pesos, and the number of loans effected was 49,601 for a total value of 842,602,624 paper pesos. Further forced liquidation of cattle loans seems less probable at present than at the middle of the current year. The speculators and middlemen who had become prominent during the war period have been eliminated. The Banco de la Nación has been a powerful factor in the improvement of the cattle industry of Argentina through the extension of long-term credits. According to an official statement of the Minister of Agriculture issued on September 2, 1922, the estimated number of cattle in Argentina was placed at 28,000,000 and the number of sheep at 46,000,000. The number of meat cattle in Argentina will probably show a decrease in the next few years until a new level is reached, but the quality of cattle, it is stated, is likely to improve. Considerable at-tention has been devoted to the raising of dairy cattle and these will probably increase in number. The general tendency in the sheep industry has been toward the raising of fewer sheep and producing a better quality of wool. With regard to the hog industry, it appears that more attention is now being given to it and a steady increase in the number of animals available for export is anticipated. In the produc-tion of live stock in Argentina there is the ad-vantage of low costs on account of cheap land and labor as well as of mild weather conditions.

Government finances.—The customs revenue of the Argentine Government for the first seven months of the current year amounted to 140,198,009 paper pesos. This sum compares unfavorably with the customs receipts for the same period in 1921, which amounted to 151,189,466 paper pesos. Comparing the estimate of revenue from this source for the period above mentioned with the actual receipts, a deficit appears of 22,949,153 paper pesos.

President Irigoven recently sent to the Argentine Chamber of Deputies a bill which would authorize the municipality of Buenos Aires to issue bonds in an amount not to exceed 30,000,000 paper pesos, with interest at the rate of 5 per cent. The purpose of this issue is to provide funds to be used exclusively for the paving of streets in the municipality of Buenos Aires. The service and amortization of these bonds would be derived from a tax to be levied on the properties benefited by the Whether the Argentine Congress will paving. approve the bill is still uncertain. Another financial project of importance submitted to Congress by the executive has been an amend-

stipulates that the Government shall place at the disposal of the Argentine Transandine Railway Co. an amount not to exceed 2,500,000 gold pesos for financial purposes. The terms of the contract entered into by the Government with the Argentine Transandine Railway Co. provide for joint administration of the Chilean and Argentine Transandine Roads, and according to the message of the executive this company has requested that an additional 1,500,000 pesos be granted by the Government to be used in financing the electrification of 45 kilometers of the Argentine line connecting with the Chilean line. The committee of public works of the Chamber of Deputies has reported on a bill which was submitted by the executive in 1919, and again in 1921. This bill provides for the construction of a surface water drainage system in the Federal capital. The executive has been authorized to proceed with the construction of such a drainage system and to issue national sanitary work bonds in an amount not to exceed 120,000,000 pesos, in series, as the work proceeds. These bonds are to bear interest from date of issue at the rate of 6 per cent per annum, with cumulative amortization of 1 per cent, and service is to be met out of the revenues derived from the works to to be constructed under the terms of the authorization.

The executive of Argentina, in a message to Congress, has recommended the cancellation of the indebtedness of the Republic of Paraguay as outlined in article 3 of the peace treaty of February 3, 1876. This indebtedness origi-nated from damage to public property and expenses of the Paraguayan war. The bill as recommended by the President follows:

The public debt, recognized and accepted by the Republic of Paraguay under the terms of the treaty of peace of February 3, 1876, as owing to the Argentine Republic on account of indemnity for the expenses of the war incurred by the latter (art. 3, par. 1), and on account of demonst the momentum (m. 2)) is barely desired damage to public property (par. 2), is hereby declared canceled, as are also the interest payments stipulated in article 4 of the said treaty.

The President of Argentina sent a message to Congress on September 8, 1922, asking approval of an ad referendum contract that had been entered into by the National Government with two New York banking firms for a loan of up to \$212,000,000 American currency, as the equivalent of the sum of 500,000,000 Argentine paper pesos at par of exchange. This conditional loan has for its purpose the consolidation of the national floating debt and the repayment of the Government's indebtedness to the Banco de la Nación Argentina, and is to be known as the foreign loan of 1922. ment to Law 11174 of October 13, 1921, which The message of the President to Congress explains that the contract provides for a loan of \$100,000,000 American currency, with the option on the part of the bankers to loan \$112,000,000 more, at $6\frac{1}{2}$ per cent interest. The loan is to be floated at 97, and provides for a 1 per cent cumulative annual amortization.

General strikes in Buenos Aires.—The Department of Labor of Argentina has published statistics showing that during the period of six years from 1916 to 1921 a total of 120 strikes took place in Buenos Aires affecting 663,902 workmen, as shown in the following table:

Year.	Number of strikes.	Number of workmen.	Average number of workmon per strike.
1916	9	24, 853	2, 759
1917	15	105, 126	7, 008
1918	17	43, 625	2, 566
1919	37	246, 715	6, 679
1920	30	115, 483	3, 849
1921	12	128, 100	10, 675
Total	120	663, 902	5, 589

Of the total number of strikes, 42 were successful and affected 135,641 workmen; 52 strikes, affecting 460,541 workmen, were unsuccessful; and the other 26 strikes, affecting 67,720 workmen, were partially successful. The causes of the strikes in the Federal capital were as follows:

Causes assigned.		Number of workmen.
Wages Hours Organization. Working conditions. Various causes.	55 6 37 8 14	$135,036 \\ 4,175 \\ 277,136 \\ 37,000 \\ 210,555$

According to the estimates of the Department of Labor, the total loss to workmen for the six years under review amounts to about 48,000,000 paper pesos. The classification of the strikes by industries for the same period was as follows:

Industries.		Number of workmen.
Foodstuffs. Clothing. Lumber. Typographical Metallurgical Building. Transportation. Tanning. Electrotechnical Paper. Various.	$12 \\ 17 \\ 1 \\ 8 \\ 17 \\ 35 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $	$\begin{array}{c} 9,483\\79,525\\18,220\\1,800\\20,050\\32,050\\220,526\\1,200\\1,000\\2,700\\2,700\\2,700\\2,700\\2,700\end{array}$

BRAZIL.

Foreign trade.—General trade conditions, as reported in the October BULLETIN (p. 1191), have not undergone material change. The recent decline in Brazilian exchange has been generally attributed to the shortage of coffee bills, to the present reduction of exports, and to the fact that there has been a large demand for foreign exchange to cover future purchases. The financial problems facing the Government have also been given as a reason for the present depression in trade. The opinion has been freely expressed by business men in Brazil that measures will have to be taken looking toward the improvement of the exchange situation; otherwise cancellation of foreign purchases may be expected, entailing disturbance of markets and of business in general. It is hoped, however, that with the stabilization of political conditions and the stimulation of trade afforded by the centennial celebration, a marked improvement may be expected shortly. The condition of the cotton, rice, and cocoa crops is reported to be satisfactory, and the heavy rainfalls in the State of São Paulo increase the probabilities of a large coffee crop for the 1922-23 season. The live-stock industry, on the other hand, is still considerably depressed.

Coffee shipments during the first semester of 1922 amounted to 65 per cent of all exports. This percentage had only been equaled in 1919. The price of coffee has shown a remarkable increase during the present year. The following table shows the amount, value, and average value per bag of coffee exported from Brazil during the first semester of the years 1913 and 1919 to 1922, inclusive:

First semester	Thousands of bags.	Value, in contos of reis.	A verage value per bag, in milreis.
1913.	4,096	209, 769	51
1919.	7,425	659, 921	89
1920.	5,434	462, 968	85
1921.	5,731	384, 777	67
1922.	5,995	657, 251	110

Exports of cocoa during the same period in 1922 amounted to 15,519 tons, against 26,872 tons in the first semester of 1921, thus showing a considerable reduction. On the other hand, the exports of sugar during the same periods amounted to 113,549 tons and 69,652 tons, respectively. Exports of hides did not undergo material change, but exports of frozen and chilled meat from Brazil suffered a severe reduction. During the first six months of 1921 Brazil exported 55,741 tons of meat and during the same period in 1922 this amount was reduced to 12,358 tons.

The extent to which prices of export and import commodities in Brazil still continue inflated as compared with the year 1913 is shown in the following table of values of exports and imports in 1921 on the basis of 1913 values:

	12 mo	6 months,		
	1913 1921		1922.	
EXPORTS.				
Volume (tons) Actual values (contos) Value on basis of 1913 (contos) Difference in favor of actual values' Difference (per cent)	981, 767	$\begin{array}{c} 1,919,000\\ 1,709,722\\ 1,362,490\\ 347,232\\ 25.5 \end{array}$	975, 000 1, 008, 664 692, 250 3J6, 414 45, 6	
IMPORTS.				
Volume (tons) Actual values (contos) Value on basis of 1913 (contos) Difference in favor of actual values Difference (per cont)		${ \begin{array}{c} 2,578,000\\ 1,689,839\\ 443,416\\ 1,246,423\\ 281,2 \end{array} } }$	$1, 598, 000 \\705, 075 \\274, 856 \\430, 219 \\156, 4$	

According to the above table, the actual value of exports in currency was 25.5 per cent higher in 1921 than the value of these exports on the basis of 1913 unit values, and 45.6 per cent higher in 1922. Owing to the considerable fall in exchange, actual values of imports in currency are much higher in 1921 and 1922 than on the basis of 1913 values. During the first semester of the current year, notwithstanding the continued fall in exchange, the actual currency value of imports was only 156.4 per cent higher than in terms of 1913 unit values, as compared with 281.2 per cent in 1921. This reduction undoubtedly has been the result of deflation of prices abroad.

Government and State finances.—The condition of the finances of the Federal and State Governments of Brazil have followed a course parallel to the general economic development of the country, as is indicated by the frequent attempts on the part of various State and city governments of Brazil, to float loans in the United States in addition to the internal loans placed with local institutions in Brazil. Since 1907 the receipts and expenditures of the Government of Brazil have shown a continued deficit. The following table gives the figures of revenues and expenditures and yearly deficits since 1913:

[In thousands of milreis.]

Year.	Rece	Receipts.		Expenditures.		eficit (—), lus (+).
	Gold.	Paper.	Gold.	Paper.	Gold.	Paper.
1913 1914 1915 1916 1917 1918 1919 1920 1921 1922		$\begin{array}{c} 394, 322\\ 280, 721\\ 209, 144\\ 342, 134\\ 368, 062\\ 378, 787\\ 430, 330\\ 459, 782\\ 468, 235\\ 727, 673\\ \end{array}$	$\begin{array}{c} 91,208\\ 52,343\\ 79,023\\ 88,635\\ 105,454\\ 80,002\\ 122,275\\ 104,358\\ 53,034\\ 85,931 \end{array}$	$\begin{array}{c} 629,690\\ 505,620\\ 516,620\\ 517,591\\ 571,219\\ 692,603\\ 676,758\\ 480,044\\ 547,589\\ 831,155\end{array}$	$\begin{array}{r} +62, 496\\ +26, 322\\ -30, 708\\ -26, 505\\ -39, 488\\ +24, 967\\ -40, 806\\ +15, 025\\ +9, 115\\ +6, 345\end{array}$	$\begin{array}{r} -235,368\\ -224,899\\ -307,476\\ -175,457\\ -203,177\\ -313,816\\ -246,428\\ -20,262\\ -79,354\\ -1103,482\end{array}$

¹ Budget as approved.

The municipality of Rio de Janeiro has obtained authorization to float a loan for \$30,-000,000 in the United States. The finance committee of the lower house in granting to the prefect authority to contract this loan recommended also the indorsement of the Federal Government. The loan is to be guaranteed by real estate taxes and transmission of property taxes, and the proceeds will be "used for the consolidation of a considerable part of the debt of the prefeitura." The terms of the loan are not yet known. The debt of the city of Rio de Janeiro in United States dollars, pounds sterling, and Brazilian currency is given as follows:

	United States dol- lars.	Pounds sterling.	Brazilian currency, contos of reis.
Loans with Federal guaranty	13,000,000	1, 291, 480	112,086
Loans without Federal guaranty.	12,000,000	6, 116, 940	
Total debt	25,000,000	7, 408, 420	

According to official reports the municipality of Rio de Janeiro is in need of funds not only to meet expenditures arising out of several improvements under way, but also in order to meet the budget deficits. The following table shows the municipal revenues collected and expenditures effected during the years 1920 and 1921, in milreis:

	1920	1921
Receipts Expenditures	57, 397, 614 76, 093, 355	65, 544, 883 82, 326, 627
Deficit	J 8, 695, 741	16,781,744

The governor of the State of Bahia has started negotiations for a loan of 70,000 contos of reis to be used in the consolidation of the foreign debt. The interest mentioned in this connection is 6 per cent and the price of issue 95. A loan for \$5,000,000 was floated early in October by the State of Bahia. The interest rate was placed at 8 per cent and the price of issue at 99½ for the first \$2,000,000, and at 100½ for the balance of \$3,000,000. The proceeds of this loan, which matures on October 1, 1942, are to be used for the construction of State highways. According to the terms of the contract, the Government of the State of Bahia is under obligation to meet the conditions of this loan in preference to any other loans present or future. It is reported that the authorities of the State of Ceara are negotiating for a loan in the United States for \$2,000,000, the proceeds of which are to be used for improvements in the city of Fortaleza.

According to recently published reports, the Government of the State of Sergipe is negotiating with a southern banking institution for a loan of \$500,000, to be used in the electrification of the street car and lighting system of Aracaju, the capital of the State. This State, which is the smallest in Brazil, has no foreign debts. As a supplement to the financial information regarding the State of São Paulo given in the October BULLETIN (p. 1193), the following table is presented showing the financial condition of that State as of December 31, 1921:

ASSETS.

	in milreis. J
Property of the State	337, 272, 894
Property of the State Bonds and other securities	2,881,660
Active debts	120 786 161
Balance for the year 1922.	99, 882, 169
Balance in savings accounts	40, 736, 173
Balance in savings accounts Compensation account in the liabilities	75, 558, 598
compensation accounts in the nationales	10,000,000
Total assets	677, 117, 655
LIABILITIES.	
	201,008,535
External debt	201, 008, 535 266, 583, 000
External debt	266, 583, 000
External debt Internal debt	266, 583, 000 30, 970, 219
External debt Internal debt. Floating debt Fredits from savings, deposits, etc.	266, 583, 000 30, 970, 219 82, 618, 717
External debt Internal debt Floating debt Fredits from savings, deposits, etc Valorization operation: Balance from Federal loan of	266, 583, 000 30, 970, 219 82, 618, 717
External debt. Internal debt. Floating debt Predits from savings, deposits, etc. Valorization operation: Balance from Federal loan of £3,000,000 is £569,190 at exchange of 16d.	266, 583, 000 30, 970, 219 82, 618, 717 8, 337, 850
External debt Internal debt Floating debt Fredits from savings, deposits, etc Valorization operation: Balance from Federal loan of	266, 583, 000 30, 970, 219 82, 618, 717 8, 337, 850 11, 840, 735

On August 24, 1922, the President of Brazil igned a law providing for a credit in an unount not to exceed 400,000 contos of reis to be used in assisting agricultural enterprises. According to the terms of the decree, the loans will be handled by the Banco do Brasil, which will open an agricultural credit department. The Government is authorized to issue, through the department mentioned, bonds of the public debt up to the amount above indicated. This department is authorized to issue mortgage bonds at a rate of interest not to exceed 5 per

cent, and will be charged with floating mortgage loans issued by the agricultural credit banks which are to be established in the different States and under their respective guaranties. The full amount of bonds, it is reported, will not be offered for sale at once, since this would have a detrimental effect on the market, but the Banco do Brasil will use a considerable part of its own resources until it is found desirable to make use of the Government bonds.

ECONOMIC AND FINANCIAL CONDITIONS IN MEXICO.

In the September and October issues of the BULLETIN (pp. 1080 and 1195) the commercial, agricultural, and mining conditions, as well as the condition of the live-stock industry, the petroleum industry, and foreign trade in Mexico were discussed. The following article contains a discussion of the country's monetary conditions and an analysis of the railroad situation.

MONETARY CONDITIONS.

According to the currency law of the Mexican Republic, dated March 25, 1905, which remained in force until the Carranza régime, the theoretical unit of the monetary system of that country is represented by 75 centigrams of pure gold. This unit is denominated a peso. The old duro or silver peso, which contains 24.4388 grams of pure silver, is declared to have a legal value equal to the said 75 centigrams of pure gold. The Mexican peso is divided into 100 cents, and the coins in use at present are of the following denominations:

Gold coins—20 pesos, 10 pesos, 5 pesos, $2\frac{1}{2}$ pesos, 2 pesos.

Silver coins—1 peso, 50 cents; 25 cents, 10 cents.

Nickel coins—5 cents.

Bronze coins—5 cents, 2 cents, 1 cent.

According to the currency law above referred to, the gold coins are composed of 900 thousandths of fine gold and 100 thousandths of copper. The peso consists of 9,027 ten-thousandths of pure silver, and 973 ten-thousandths of copper. Its equivalent in American currency is \$0.4985. The other silver coins are composed of 800 thousandths of silver and 200 thousandths of copper. The bronze coins are composed of 95 parts of copper, 4 of tin, and 1 of zinc. The nickel coins are made of commercially pure nickel. The right of coining belongs exclusively to

debt up to the amount above indicated. This The right of coining belongs exclusively to department is authorized to issue mortgage the executive. Under ordinary conditions new bonds at a rate of interest not to exceed 5 per silver coins are struck and issued in exchange

for gold coin or bullion in the proportion of 75 centigrams of pure gold per peso. This ruling ceases to bear effect when the bullion value of the silver coins is greater than their coinage value at the legal parity adopted. Gold coins and silver pesos are unlimited legal tender, but the other silver coins are legal tender only to an amount not exceeding 20 pesos in one single payment. Nickel and bronze coins are legal tender in amounts not exceeding 1 peso in one and the same payment. Mexico was placed on a gold basis in 1916. The country now has only a metallic circulation, with gold as a basis and silver and bronze coins used as subsidiary currency. It is interesting to note that in 1895 there were 13 mints in Mexico. This number was reduced to four in 1904, due to the betterment in the facilities for transportation of the mineral from the mine to the mint. At the present time there is only one mint in operation in the Republic, which is located in Mexico City.

A decree enacted on November 13, 1918, modified the currency law of 1905. No change was made in the theoretical unit of the monetary system, but the old peso ceased to be coined and was no longer to be considered as legal tender. The silver coins continued to be in denominations of 10, 20, and 50 cents, 800 thousandths fine with 200 thousandths copper. According to this decree, the law of March 25, 1905, was to continue in force with its additions and amendments, when not in conflict with the provisions of the decree of November 13, 1918.

A great scarcity of circulating medium has been felt in Mexico since early in 1918. Due to the increase in the price of silver in foreign markets, the silver coins of Mexico began to disappear from circulation. In order to meet the situation, the Government authorized the issue of gold coins of a value of 2 and 2.50 pesos. A decree enacted on November 13, 1918, provided that the old 1-peso pieces should not be used as coin, since they had practically disappeared from circulation. The same decree ordered as substitution for the fractional circulating currency the coining of new silver pieces, as follows: One-peso coins, with a weight of 18 grams—14½ grams fine; 50 centavos, with a weight of 9.265 grams—7.25 grams fine; coin of 20 and 10 centavos, with an amount of pure silver and a weight in proportion to the other pieces.

In March, 1921, an order was issued by the Government to the effect that no gold should leave Mexico without proper official authorization, and in order to further avoid the exportation of gold from the country in exchange for

American bills, a new decree was issued on June 6, 1921, prohibiting the circulation of foreign currencies, the text of which follows:

ARTICLE I. From and after July 1, next, the importation and circulation in the Republic of bank notes of all kinds of foreign currency except gold is and shall be prohibited. The forms of currency to which this article refers may not be used as conventional and substituted symbols of the national currency.

ARTICLE II. Persons disobeying the terms of this decree by the importation or circulation of any forms of currency to which it refers, shall be liable to a fine equal to twice the amount, calculated in domestic gold currency, of the forms of currency which they have attempted to introduce or circulate, and shall be liable, likewise, to the confiscation of such currency imported or circulated.

ARTICLE III. The penalties mentioned in the foregoing article shall be applied by the judicial authorities of the federation, and in each case the actual currency in question which it has been attempted to import or circulate shall remain under bond in the respective administrative office.

The vicissitudes through which Mexico has passed on account of the revolutionary paper money issues started in 1913, when the Government of General Huerta obliged the banks of issue to emit notes in amounts far superior to those authorized under the banking law of 1897 which was then in force. The circulation of these notes was made obligatory, and the banks were not obliged to exchange them. The paper currency of the State banks was made legal tender throughout the Republic by a decree issued on January 7, 1914, subject to the following conditions:

(1) The interested banks to conserve in their vaults the metallic reserves provided for in their concessions.

(2) Creation of a special fund to be known as the "guarantee fund of the fiduciary circulation" to be established to guarantee redemption of bills in coin, in case of any institutions being unable to meet their responsibilities. This fund to be formed by each bank paying in coin an annual assessment of three-fourths of 1 per cent of its authorized emission of notes, up to \$5,000,000; one-half of 1 per cent of any amount exceeding \$5,000,000; and less than \$10,000,000 and less than \$20,000,000; and one-cighth of 1 per cent for sums beyond that amount. Payments to be made in advance during the first three business days of the months of January and July.

(3) The guarantee fund to be supervised by four unremunerated commissioners, two elected by the State banks, one by the clearing house of the capital, and one by the department of finance. It is further stipulated that the guarantee fund shall be deposited as a special deposit with the national bank, or with any other banking institution designated by the Government finance department.

Another decree was issued on the same date authorizing banks to issue notes in amounts three times the value of their cash on hand. The value of the notes issued by the State banks under the above stipulations decreased in value gradually, and the present quotations for these notes on the Mexico City Stock Exchange are either nominal or exceedingly low in comparison with their face value.

The first revolutionary paper money was issued by the Carranza faction according to the provisions of a decree dated April 26, 1913. This issue, known as the Monclova issue or "dos caritas," was not to exceed 5,000,000 pesos, but in December of the same year it was found necessary to increase the amount by 20,000,000 pesos, and in February of the following year the amount was raised again by 50,000,000. This last issue was called the Constitutionalist issue. Upon the arrival of the Carranza army in Mexico City in August, 1914, it was found necessary to convert the previous issues and to emit additional paper currency to meet the expenses of the campaign in the south. Therefore, on November 19, 1914, authorization was given by the Carranza government for a new issue of 130,000,000 pesos. At the same time the metallic currency in the country had disappeared from circulation. Small pieces of cardboard were printed to take the place of the small coins. In the north, under authorization of Carranza, other paper currencies were issued by several factions, among which were notable those of Villa, Obregón, and Pablo González. The printing of the different issues was poor and counterfeiting was common. At a certain period there were 22 kinds of paper currency in circulation, and it is estimated that the first two periods of the Mexican revolution amounted to 671,954,221 pesos. The printing of the constitutionalist issues was continued in Veracruz while the Carranza government was established there. The final issue of paper money was also authorized by the Carranza government in Mexico City. This paper money was known as "infalsificables" (noncounterfeitable). According to the decree authorizing this issue a metallic reserve was to be deposited with the treasury amounting to 20 cents Mexican for every infalsificable peso issued. The constitutionalist issues were exchanged for infalsificables at a certain rate. All business transactions with paper money issued by the constitutionalist government were prohibited under heavy penalties. Of this issue 400,000,-000 pesos were put in circulation. Their value as currency suffered a gradual depreciation, and upon the reestablishment of the country's monetary system on a metallic basis in 1918, the redemption of the infalsificable issue was effected through the payment of railroad fares, freight charges, and import and export duties in that currency according to the terms of a Government order. A decree effective March 1, 1920, provided for a surtax of 10 per cent on all imports and exports. This tax was to be met in Mexican gold or infalsificables at the rate of 1 peso to 10 centavos. The purpose of this same applies to the port of Mazatlán, which is

decree was to withdraw from circulation the infalsificable issues. According to recent reports the infalsificable issue has supposedly

been eliminated, but the decree is still in force. In the peninsula of Yucatán the Comisión Reguladora established its paper currency, to be used as circulation medium in that section of the country. This paper, rated in 1920 at 85 centavos to the Mexican peso, was subsequently repudiated. Of the 60,000,000 pesos printed, 40,000,000 were burned by the Government and the balance left in circulation.

THE RAILROADS OF MEXICO.

The first railroad in the Mexican Republic was built in 1854, when a line 10 miles long was laid between the port of Vera Cruz and the village of Tejería. Some time afterwards the Central Government of Mexico granted a concession to an English syndicate to build a railroad from Veracruz to the capital, and the main line was finally opened on January 1, 1873.After this date, an era of considerable railroad building was inaugurated, under the supervision of General Diaz, who became Pre-sident of the Republic in 1876. The average yearly railway construction in Mexico from 1877 to 1882 was 482 miles. In 1875 there were in that country 360 miles of railroads; in 1886 there were 3,675 miles; in April, 1897, there were 7,126 miles, and at the end of 1900 there were 8,460 miles completed under Federal concession. These figures do not include lines built under State concessions. In 1905 the length of the railroad lines was increased to 10,557 miles, and, according to the message of President Diaz delivered on September 16, 1910, on the one hundredth anni-versary of the independence of Mexico, there were in operation in that country 15,260 miles of railways under Federal jurisdiction and 3,007 miles under State jurisdiction.

Railways in Mexico have been built, as in other Latin American countries, each one to serve a special purpose, and no special attention has been given to develop any general plan. In consequence, some parts of the country are thickly covered with railways, whereas other sections have remained undeveloped on account of the lack of railways or other means of quick transportation. As an example of this the case of the port of Acapulco may be taken. Acapulco is the best natural port of the country situated in the State of Guerrero, which is one of the richest States of Mexico on account of its fertile soil and mines, but due to the mountainous character of this State no railroad construction has been undertaken so far. The separated from the central plateau by the western range of mountains.

The incorporation of several railway lines into the National Railways of Mexico was started in 1903, when the Government began to purchase the controlling interest of three of the most important railways in the country. The consolidation did not take place, however, until 1909. The Government owned 50.3 per cent of the stock. This company gradually absorbed other roads, and in 1914 it became by far the most important railway system of the Mexican Republic. The mileage of the National Railways of Mexico and date of incorporation into the system are shown in the following table:

Name of railroad.	Mileage.	Year incorporated.
National R. R. Co. of Mexico	3, 428 1, 905	1909 1909 1910 1910
Mexican Pacific Ry. Co. Vera Cruz & Isthmus Ry. Co. Pan American R. it. Co. Mexican Southern Co. and Interoceanic Ry. of Mexico ³ .	220 297	1909 1913 1914 1908

¹ Including other subsidiaries of the National R. R. Co. of Mexico and the Mexican Central Ry, Co. (Ltd.) operated under rental contract.

The concessions granted by the government of General Diaz to private companies for railroad construction provided for the surrender of the roads to the Government after a certain period, which usually amounted to 90 years, upon the payment by the Government of compensation for rolling stock, buildings, and materials on hand at the date of the transfer.

On December 4, 1914, the Carranza government enacted a decree seizing the National Railways of Mexico as well as those privately owned, and under an official bureau started to operate all the Mexican railway lines under the name of Constitutionalist Railways of Mexico.

At the time of the Government seizure the National Railways of Mexico owned 5,896 miles of track and controlled an additional 2,716 miles. The following lines were owned: The National Railway, with 1,218 miles, extending from Nuevo Laredo to Mexico City. This is one of the most important railways in Mexico, since it is the shortest route to all parts of the country from the eastern section of the United States. Next in importance is the Mexican Central, with a mileage of 3,516 miles, extending from Ciudad Juarez to Mexico City and traversing the great central uplands. Of importance also are the Mexican International Railway and the Vera Cruz & all the railways of Mexico with few exceptions

Isthmus Railway, which connects the port of Vera Cruz with the Tchuantepec Railway. Another important line controlled by the National Railway System is the Pan American Railway, which starts at the station of Picacho on the Tchuantopec Railroad and extends to the border of Guatemala. The most important narrow-gauge lines belonging to this system are the Interoceanic Railway, which is 736 miles in length, running from Vera Cruz to Mexico City, and the Mexican Southern, 282 miles in length, connecting the city of Puebla with Ejutla in the State of Oaxaca.

The most important privately owned railwavs in Mexico are the following: The Mexican Railway, which extends from the port of Vera Cruz to Mexico City, is 340 miles in length. The Tehuantepec Railway, which crosses the isthmus from Puerto Mexico to Salina Cruz, was owned jointly before the revolution by the Mexican Government and its builders, Messrs. Pearson & Co., of London, each having an equal amount of capital invested. This line has 220 miles of track. The Mexican Northwestern Railway was incorporated under the laws of Canada. It runs from Ciudad Juarez to Chihuahua and has 512 miles of track. The Southern Pacific Railway of Mexico is owned by the Southern Pacific Railway of the United States. The United Railways of Yucatan had 500 miles of railway in operation in 1918.

The seizure of the Mexican railroad lines by the Carranza government in December, 1914, marks the beginning of an era of disintegra-tion of the railroad system. Military needs were given preference, and, although prac-tically all lines suffered considerably, those of the north show the consequences of the revolution more severely; their buildings, stations, large sections of tracks, and bridges were destroyed and their rolling stock also destroyed or rendered unfit for service. According to the report for the fiscal year ending June 30, 1918, the total mileage given to the Constitutionalist Railways of Mexico was placed at 7,494 miles, of which 613 were not in operation for various reasons. Two years before, in 1916, the disintegration of the railways had already become The following table comparing the manifest. rolling stock of the National Railways of Mexico on June 30, 1913, and the rolling stock belonging to the Constitutionalist Railways in 1916, will give a clear idea of the considerable reduction due mainly to destruction during that period of three years. Attention must be called to the fact that the system of Constitutionalist Railways comprised at that time

Rolling stock.	National 191		Constitu railway	
tioning sects.		Narrow gauge.	Standard gauge.	Narrow gauge.
Passenger coaches Froight cars Locomotives (gauge not specified)	435 16, 661 72	1,831		101 1,397 19

The scarcity of freight cars brought about disorganization of trade. This situation was still further aggravated by the action of local authorities, who in 1915 almost paralyzed all movements of freight by placing all sorts of restrictions on supplies leaving the section under their jurisdiction.

Only those repairs which were essential to the continuance of traffic were made while the railways were in the hands of the Carranza government. In a report prepared by the director general of the Constitutionalist Railways and published on June 30, 1921, the following estimates were given as the cost of immediate repairs needed in the National Railways' property.

ESTIMATED COSTS OF NEEDED REPAIRS ON NATIONAL RAILWAYS.

[In Mexican pesos; peso=\$0.4985.]

Tracks (includes purchase of 16,080 crossties,	
86,671 tons of rails, accessories, and tools)	27, 393, 617
Buildings (repairing and reconstruction)	2, 774, 000
Signal, water, and fuel stations (repairing and	
reconstructing)	769,000
Loading platforms, fences, and other small	
structures	379,000
Bridges	8, 558, 048
Rolling stock:	. ,
To replace equipment destroyed or con-	
demned during revolution	5,000,000
To repair equipment now in use	4,000,000
(I) - 4 - 1	40.079.005

From the time when the railroads were seized until November, 1916, practically all revenues collected by the Constitutionalist Railways were in paper money. All rates were increased from time to time, but never in proportion to the severe decline in value of the several issues of paper currency then in circulation. In November, 1916, the old rates were reestablished, to be collected in coin or "in-falsificables" (the last paper issue of the Carranza government) at their market value, with the result that the finances of the railways were greatly improved. The net carnings of the National Railways during the year 1912-13 were placed at \$10,563,168. This amount was reduced to \$1,143,305 in the year 1913-14. At that time the railways under Government amounted to \$4,020,000.

control defaulted, and interest payments have been in arrears since. Dividend payments stopped likewise, and during the year 1917-18 carnings amounted to only \$1,067,386. At the end of the following fiscal year there resulted a deficit of 22,372,606 gold pesos, and for 1919-20 the deficit increased to 23,557,264 gold pesos. The profit and loss statement of the National Railways as of June 30, 1920, shows a total deficit of 169,445,025 gold pesos. According to the latest reports the net earnings for the year 1920-21 have been placed at 16.012,675 pesos. This amount is more than half the sum needed in 1923 to meet the debt service and interest on the debentures of this system of railways under the agreement recently concluded between the international bankers' committee and the Finance Minister of the present Government of Mexico. This agreement is now awaiting approval by the Mexican Senate.

The most important line which remained in operation throughout the year 1919 was that running from Laredo to Mexico City. Interest was still being centered in military operations mainly and congestion of merchandise at the customhouse of Laredo was the cause of much general concern. The same situation prevailed in the port of Vera Cruz, where at the beginning of 1921 it was estimated that from 40,000 to 50,000 tons of freight were held for transportation to the interior. The Mexican Railway, a British company, was seized first in November, 1914, and during the entire period under Government supervision only the most necessary repairs were made. This has been one of the most prosperous railroads of Mexico. The net earnings for 1913 amounted to 5,006,906 pesos, but only small payments on account of compensation were made by the Carranza government during its control. The second seizure of the road took place in 1917, but in 1921 it was returned to its owners.

The contract of operation of the Tehuantepec Railway by Messrs. S. Pearson & Son was canceled immediately after the seizure of the property in April, 1917. The amount of \$3,750,000 in treasury bonds bearing interest not to exceed 3 per cent was paid by the Carranza government for the acquisition of the property and for losses sustained during the revolution. The Mexican Northwestern Railway of Mexico is reported to have suffered the most on account of the revolution. Several of the most important battles were fought in villages on this line. The Southern Pacific Railway was not seized until 1917, but its losses from revolutionary causes have been considerable. It is reported that the losses sustained by this line between 1910 and 1913

On June 1, 1921, President Obregon appointed a personal representative to study the railroad situation, with a view to bringing about increased efficiency. Steps were taken toward the reorganization of the National Railways System, and new locomotives were purchased in the United States, the results of which were soon apparent in the increased movement of merchandise from important centers. New consideration is again being given to the con-struction of the Tampico-Mexico City and Acapulco railway, which would form a transcontinental highway and be of great benefit to the country. Other plans are being formed for the construction of new railroads, but no definite reports are available with regard to the materialization of these plans.

The latest estimate available with regard to the amount of capital invested in the railways of Mexico was prepared by the American consul at Chihuahua in 1912. The total amount of American capital invested in Mexican railway stocks was placed at \$235,464,000, and in railway bonds at \$408,926,000. English capital invested in railway stocks was reported at \$81,237,800 and at \$87,680,000 in bonds; French capital in railway bonds at \$17,000,000; Mexican capital in railway stocks at \$125,-440,000 and at \$12,275,000 in bonds. Other countries were reported as having invested \$75,000 in stocks and \$38,535,380 in bonds.

The first steps toward the resumption of payments on the obligations of the National Railways of Mexico were taken during the conference held between the committee of international bankers and the Moxican Secretary of Finances in June, 1922. According to the plan of readjustment, the following bonds, notes, and other national railway securities are included in the readjustment plan:

National Railways of Mexico guaranteed general mortgage 4 per cent 70-year sinking fund redeemable gold bonds, due October 1, 1977

Vera Cruz & Pacific Railroad Co. first-mortage 44 per cent

sold bonds, due July 1, 1934. National Railways of Mexico prior lien 4½ per cent 50-year sinking fund redeemable gold bonds, due July 1, 1957. National Railroad Co. of Mexico prior lien 4½ per cent

gold bonds, due October 1, 1926. National Railroad Co. of Mexico first consolidated mort-gage 4 per cent gold bonds, due October 1, 1951.

The Mexican International Railroad Co. first consolidated

The Merican International Failbad (O. Ins. Consolutated mortgage 4 per cent gold bonds, due September 1, 1977.
Pan American Railroad Co. first-mortgage 5 per cent gold bonds, due January 1, 1924.
Pan American Railroad Co. general mortgage 5 per cent gold bonds, due January 1, 1937.

Mexican Central Railway Co. (Ltd.), 5 per cent priority

Mexican Central Railway Co. (Ltd.), 5 per cent priority Mexican Central Railway Co. (Ltd.), equipment bonds, assumed by the National Railways of Mexico, as follows: (a) First series dated April 1, 1897.

(b) Second series dated October 2, 1899.

(c) Series No. 8 dated August 17, 1906.
(d) Series No. 10 dated January 1, 1907.

(e) Series No. 11 dated March 22, 1907.

National Railways of Mexico 6 per cent secured gold notes (secured by Government obligations):

- (a) National Railways of Mexico secured gold notes, series B
- (b) National Railways of Mexico 6 per cent 3-month
- secured gold notes. (c) National Railways of Mexico 6 per cent 3-year secured gold notes
- (d) National Railways of Mexico 6 per cent secured

(a) Anatomia Partways of Mexico 6 per cent secured gold notes, series C.
 National Railways of Mexico 6 per cent secured notes (secured by National Railways of Mexico 2-year 6 per cent
 (a) National Railways of Mexico 2-year 6 per cent

- secured gold notes, due June 1, 1915. (b) National Railways of Mexico 6 per cent secured notes, due July 1, 1916.

Tehuantepec National Railway 5 per cent gold loan,

series A, due June 30, 1953. Tehuantepec National Railway 4½ per cent gold loan, series B, due June 30, 1953.

The following table shows in tabulated form the amounts of the different railway obligations included in the agreement:

National Railways guaranteed 4s	\$50, 748, 575
Vera Cruz & Pacific 4 ¹ / ₂ s	7,000,000
National Railways prior lien 41s	84, 804, 115
National Railroad prior lien 4 ¹ / ₂ s	23,000,000
National Railroad 4s, 1951	24,740,000
Mexican International prior lien 4s, 1977	4,206,500
Mexican International prior lien 41/8	5,850,000
Pan American 5s, 1934.	2,003,000
Pan American 5s, 1937	1,484,000
Mexican Central priority 5's	1,374,000
National Railways equipment 5s	1, 112, 456
National Railways notes	33, 662, 131
Tehuantepec second mortgage 41s	2,000,000
Miscellaneous	1,750,000
Total railroad debt	243, 734, 777

The text of the agreement in connection with the reorganization of the National Railway System follows:

The holders of outstanding railway bonds and notes shall present their existing securities to be stamped with the agreement of the Mexican Government assuming the pay-ment of principal, interest, and a sinking fund of the securities. For all amounts paid by the Mexican Govern-ment on account of the railroads for such interest, principal, and sinking fund the Government will be a creditor of the railways in the same manner as is provided in the execurailways in the same manner as is provided in the execu-tive decree and plan of readjustment and union of the Mexican Central Railway Co. (Ltd.) and National Rail-road Co. of Mexico with respect to payments made on account of its guaranty of the general mortgage 4 per cent bonds of the National Railways of Mexico. The liens created on the railway properties by the present mortgages and indentures in favor of the railway recursive now cutotonding are to be held by a two-to-

securities now outstanding are to be held by a trustee or trustees satisfactory to the international committee, and are not to be enforced unless the Government is in default in its obligations under this plan, when they may be enforced in favor of the holders of railway securities.

The Government will make prompt return of the rail-ways to private management, details of which are to be arranged.

Ten per cent annually of the gross receipts of the railways is to be set aside and paid over currently, as herein provided, toward the Government debt service, including the railway debt, and proper provision is to be made therefor in the rates by surcharge or otherwise.

Until the full cash payment of current interest on the bonds is resumed, the net operating revenues of the rail-ways are to be added to the fund provided for the Govern-

NOVEMBER, 1922.

ment debt service, and thereafter are to be applied to the service of the railway securities.

The Mexican Government recognizes the obligation to restore the railroads, including rolling stock, to the same condition that they were in when the Government took them over, and will make every effort to do it (viz, such restoration) as soon as possible.

Railway notes that have matured, or are about to mature, will be extended for a reasonable length of time.

The full debenture interest would require more than \$11,000,000 per annum, whereas the net earnings amount at present to about \$8,000,000. It seems, therefore, that under the above arrangement the holders of bonds of the Mexican railways will be benefited if the agreement is confirmed, but the holders of the stock of this system must wait for some time before any earnings can be applied to the payment of dividends.

NOTE.—Mexican foreign trade figures for 1921 as reported in the table on page 1198 of the October, 1922, BULLETIN, must be corrected in view of later information from official sources. The bureau of special taxes of the Secretary of Finance in Mexico gives imports in 1921 as 525,018,093 pesos, exports as 729,426,933 pesos, and the excess of exports as 204,408,840 pesos. The large favorable balance of trade indicated by these figures is to be accounted for by increases in exports of petroleum and other mineral products, which as a group are reported at 661,590,857 pesos in 1921, or over 90 per cent of the total export trade.

CURRENCY AND BANKING IN SOUTH AFRICA.¹

I. INTRODUCTORY.

Among the financial developments in South Africa during the past few years, the most striking is the establishment of a central bank in a gold-producing country, which has temporarily abandoned the gold standard. The resemblance between many of the provisions of the legislation creating the bank to those of the Federal reserve act adds further interest to a consideration of these developments. It is desirable, therefore, before coming to a description of the financial organization of the country to present certain facts concerning its resources, industry, and trade.

It would be difficult to find a country whose products are so homogeneous as are those of South Africa. Gold is the foundation of the country's prosperity. Although mining began at a fairly early date, it was not until the early nineties that, owing to the introduction of the cyanide process, production reached large proportions. In 1888 its value was less than

£1,000,000 and in 1892 over £4,500,000. In 1898 over £16,000,000 were produced, and in 1916, the peak year, with no gold premium, the figure approached closely to £40,000,000. With regard to other industries, it is worthy of notice that in the year ended June 30, 1920, with a total factory output for the Union valued at nearly £93,000,000, the value added to materials brought to factories was but £39,000,000. This amount is considerably less than the total value of the gold and diamond output for 1920—£34,500,000 and £14,750,000, respectively. The fact that of the total factory output mentioned, £35,000,000 consisted of food and drink, £7,250,000 of building and contracting materials, and £4,500,000 of heat, light, and power, suggests that such manufacturing as the Union does undertake is almost wholly for home consumption.

The foreign trade figures bear out this fact in no uncertain manner. The following tables show the relative importance of the various classes of South African imports and export in pre-war and post-war years.

IMPORTS OF VARIOUS CLASSES, BY VALUE.¹

[Expressed as percentages of total.]

	1913	1914	1919	1920	1921 2
Living animals Articles for use in agriculture (including agricultural ma-	0, 66	0.34	0. 86	0. 51	0.59
chinery from 1919) Food and drink	1, 82 18, 14	$1.77 \\ 16.97$	2, 00 9, 55	1.73 13.82	2.58 10.81
ture Manufactured articles Imports from Rhodesia	9.82 69.28 .28	8, 55 71, 93 , 44	$\begin{array}{r} 8.73 \\ 77.48 \\ 1.38 \end{array}$	8, 73 73, 96 1, 25	8.01 76.92 1.00
*	100.00	100.00	100.00	100.00	100.00

¹ Including Government stores; excluding specie. ² Excluding Government stores and specie.

EXPORTS OF VARIOUS CLASSES, BY VALUE.³

[Expressed as percentages of total.]

	1913	1914	1919	1920	1921 4
Living animals	0.06	0.09	0.05	0.08	0.08
products Product of mines	$18.39 \\ 77.90$	$22.76 \\ 71.31$	$32.26 \\ 61.45$	29.23 60.51	$\begin{array}{c} 28.46 \\ 61.11 \end{array}$
Other articles	. 64	.90	1.37	1.98	1,65
Imports reexported	$2.19^{-0.22}$	$1.34 \\ 3.60$. 85 4. 02	1.48 6.72	$1.78 \\ 6.92$
	109.00	100.001	100.00	100.00	100.00

³ Including ships' stores: excluding specie. ⁴ Excluding ships' stores and specie.

These figures show the great predominance of manufactures in the import trade and of minerals in the export trade, the latter, however, showing a steady decline, with an increasing importance of agricultural products.

¹ In the preparation of this article the chief sources of information have been the official publications of the Union Government (office of census and statistics), the Journal of the Institute of Bankers in South Africa, besides various British and foreign periodicals, pamphlets, and scientific journals.

At the same time, the homogeneity of the imports is much less marked than of the exports. The seven leading imports together comprised only 38.8 per cent of the total. But, on the other hand, in 1920 the six leading exports were gold (£35,500,000), sheep's wool (£16,000,000), diamonds (£11,500,000), coal (£5,000,000), hides and skins (£4,250,000), and wattle bark (£1,000,000); and these together comprised 82.8 per cent of the total exports.

In foreign trade, South Africa is predominantly dependent upon Great Britain, both as a source of imports and as a market for exports. Hence, in part, the important influence exerted by British upon South African banking methods. The following trade figures are indicative of the large place occupied by the United Kingdom in South Africa's foreign trade.

IMPORTS FROM VARIOUS PARTS OF THE WORLD, BY VALUE.¹

	1913	1914	1919	1920	1921 2
United Kingdom Other parts of British Em-	56.77	59.37	46. 89	54. 83	õ 4. 76
pire	11, 98	13.01	16. 46	12, 83	11.43
Total British Empire Foreign countries	$\begin{array}{c} 68.75 \\ 31.25 \end{array}$	$72.38 \\ 27.62$	63, 35 36, 65	$\begin{array}{c} 67.66 \\ 32.34 \end{array}$	$\begin{array}{c} 66.19\\ 33.81 \end{array}$
	100.00	100.00	100.00	100.00	100.00
			·		

[Expressed as percentages of total.]

¹ Including Government stores; excluding specie. ² Excluding Government stores, not ellocated.

EXPORTS TO VARIOUS PARTS OF THE WORLD, BY VALUE.³

[Expressed as percentages of total.]

	1943	1914	1919	1920	1921 4
United Kingdom Other parts of British Em-	88.67	81.99	75.54	68.37	75.36
pire	3.06	5.08	6.13	9.02	6.61
Total British Empire Foreign countries.	91.73 6.45	90. 07 6. 93		77.39 17.69	81, 97 12, 45
Shipped as stores and through post	1.82	3.00	2.79	4, 92	5.58
	100.00	100.00	100.00	100.00	100.00

* Excluding specie. * South African produce.

Owing to the absence of a mint in South Africa, exports of specie are negligible in importance, while imports are naturally of much greater extent. In 1920, for example, they amounted to over £4,000,000, almost wholly from the United Kingdom, the currency standard being the English sovereign. It is inter-

esting to observe the increased importance of exports to foreign countries during and since the war.

The Union comprises an area slightly larger than that included in the three States of Texas, New Mexico, and Oklahoma. It has, too, a slightly larger population, with this important distinction-that whereas in the three States mentioned there are only about 750,000 negroes, there are in South Africa but 1,500,000 whites. Hence industry in South Africa is based upon low-paid native labor to an extent which renders the prosperity of the gold-mining industry largely dependent upon a plentiful supply of colored workers. In December, 1920, there were over 190,000 natives employed on mines and works in the Transvaal, 97,000 of whom were recruited from Portuguese territory.

Of the four Provinces in the Union—the Cape, Natal, Transvaal, and the Orange Free State—the second is by far the most thickly populated. Outside of this area the population clusters thickly around the gold mining areas of the Transvaal, the diamond fields of the Cape Province, and the industrial areas at the southeast and southwest corners of the Cape, while elsewhere, owing to vast areas of semidesert and desert, the population becomes progressively sparse.

II. BANKING DEVELOPMENT PRIOR TO THE ACT OF 1920.

The growth of banking in South Africa has continued steadily, though slowly, during the past 30 years. The following table has been extracted from a more complete one, compiled by the Union government from figures furnished by the banks themselves:

PRINCIPAL ASSETS AND LIABILITIES OF SOUTH AFRICAN BANKS, 1891-1921, ON DECEMBER 31 OF EACH YEAR.

[Thousands of pounds sterling.]

ASSETS.

Year.	Coin and bullion.	Ad- vances.	Bills dis- count- ed.	Securi- tics.	Total.
1891	4,473 9,280 8,809 8,110 7,851 6,961 112,153 19,009	4,209 10,693 15,511 23,765 26,669 33,878 60,651 50,568	5,611 7,926 8,362 11,417 14,477 14,398 30,488 24,346	2,095 3,495 6,365 5,684 4,557 7,740 8,707 10,140	$\begin{array}{c} 21,546\\ 42,451\\ 54,244\\ 65,317\\ 72,284\\ 87,230\\ 137,295\\ 127,726\end{array}$

¹ Including gold certificates.

NOVEMBER, 1922.

Year.	Notes.	De- mand de- posits.	Time de- posits.	Re- serve fund.	Paid- up capital.	Total.
1891 1896 1901 1906 1911 1916 1920	939 2,047 2,251 2,075 2,379 3,432 9,469 9,183	6, 415 20, 183 22, 607 20, 076 23, 322 30, 907 58, 717 49, 403	5,680 6,813 10,172 20,977 21,070 24,379 43,615 41,595	764 1,213 2,124 3,398 3,025 2,793 4,213 4,303	2, 596 3, 222 7, 219 5, 057 4, 797 5, 197 5, 543 5, 463	21, 546 42, 451 54, 244 65, 317 72, 284 87, 230 137, 295 127, 726

LIABILITIES.

Perhaps the most noteworthy feature of the table lies in the fact that, while cash reserves have only doubled, the total liabilities have increased six-fold. The situation is in part improved by the fact that, in addition to coin and bullion, the banks held in 1921 some $\pounds 6,500,000$ as balances with the reserve bank. Nevertheless, in South Africa, as elsewhere, a much larger credit structure now stands upon the available supplies of metal than was the case 30 years ago. That this is not by any means a pure war development is proved by comparing the increases between 1891 and 1911, with those between 1914 and 1921.

Some of the figures for the years 1905 to 1921 have been plotted on the accompanying graph. From these curves it will be seen that South Africa provided no exception to the world-wide expansion of credit and currency during, and for a short time after, the war. As elsewhere, prices, and hence banking figures, appear to have become more or less stabilized on a considerably higher level, with a much smaller metallic basis for the credit structure.

Along with the growth of banking resources has gone a steady reduction in the number of banks doing business. In the statistics for 1891, quoted above, the returns of eight banks are included. In 1892, however, the African Banking Corporation absorbed the Worcester Commercial Bank (Ltd.). In 1900 a new bank-the Robinson S. A. Banking Co.-was founded, only to be liquidated five years later. In 1910 the National Bank of South Africa absorbed the National Bank of the Orange Free State, in 1912 the Bank of Africa, and in 1914 the Natal Bank. In 1920 the African Banking Corporation amalgamated with the Standard Bank, the latter giving its name to the new concern. This left but three banks--the Standard, National, and Netherlands. In addition, there remained the Stellenbosch-a small local bank--while the number was added to by the inclusion in 1921 of the Colonial Banking and Trust Co. The National City Bank of New York entered the South African field in 1920, but withdrew in 1921.

By far the greater part of the banking business of the country is now transacted by two banks. The largest bank at the present time is the Standard, with deposit liabilities (on April 30, 1922) of £36,000,000, followed by the National Bank of South Africa with £31,000,000. No other bank (excepting the reserve bank) has deposits of over £1,000,000.

The banking structure is similar to that of the United Kingdom in that it consists of a system of branches of big banks all over the country, rather than of independent banks of all sizes. The National, with its head office in Pretoria, and the Standard, with its in London, have 418 and 370 branches, respectively, throughout the Union as well as in southwest Africa, Basutoland, and other British territories. The Netherlands Bank, whose head office is at Amsterdam, operates in the Provinces of the Cape, Transvaal, and the Orange Free State, while the Stellenbosch has no branches, operating only in the town from which it takes its name. The Colonial is not a check-paying bank, although it publishes returns under the acts of 1917 and 1920.

Even before 1920 there were four laws in operation to control banking, principally with the object of protecting the public in the matter of note issue. These are still effective, subject to the amending provisions of the act of 1920. The earliest of these was the Cape Colony Act No. 6 of 1891, which required note-issuing banks having their head offices outside the Province to deposit Government securities in exchange for bank notes up to the par value of the bonds. These notes were then guaranteed by the Union government and became legal tender throughout the Province. It should be noted that, by the locality clause, only the Stellenbosch would be exempted from the deposit of bonds. The Transvaal Law No. 2 of 1893 and Orange Free State Ordnance No. 20 of 1902 permitted banks to issue notes up to the amount of their paid-up capital, with a cash reserve of one-third. No such laws were ever enacted in Natal. In 1917, by the passage of the Union Act No. 7 of that year, all banks were required to furnish the treasury with detailed returns of assets and liabilities at the end of each quarter, and such further returns as the treasury might need to ensure compliance with the bank-note laws.

Out of these legal requirements grew a somewhat complex currency system, in which, apart from distinctions as to issuer, there were, on account of the provisions of the Cape Colony law, two classes of bank notes—legal tender and other—both of which were redeemable in gold at the bank of issue. These were combined for convenience in the table and diagram below, but are carefully distinguished in the returns. Up to 1914 they were roughly equal in amount, but from that date the non-

legal tender notes secured a predominance, their amount in 1921 being over four times as large as that of legal-tender notes.

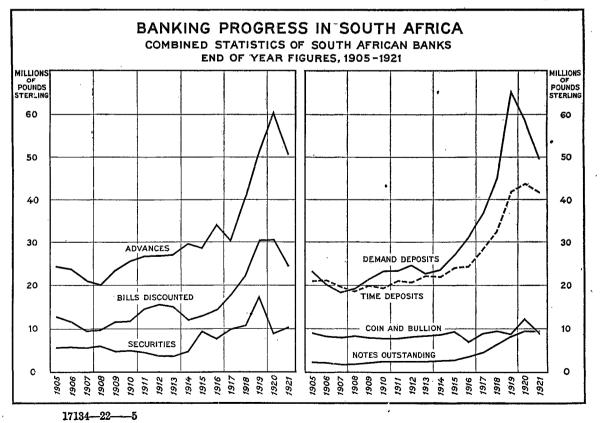
The gold in circulation was the English sovereign, minted in England and shipped over, for besides the notes already mentioned British gold coin, and subsidiary silver and copper to the same amounts as under English law, were legal tender. The position regarding the gold coinage became very acute during the war, the banks having the greatest difficulty in persuading the Imperial Government to consent to the export of gold coin in the required amounts-a fact which was in part responsible for the large expansion of note issues shown in the figures above.

The inconveniences of the situation were accentuated by the heavy illicit exports, which the Government, through geographical con-siderations, was unable to prevent. The export of gold coin was, as in other countries, prohibited at the outbreak of war. But the high price of gold in the eastern markets and the comparative ease of carrying it over the border attracted a great deal of coin out of the country. Furthermore, the practice of paying The result was a rise in prices, which put the

the native workers in the Witwatersrand in gold, coupled with the fact that many of these were from Mozambique, a Portuguese colony, gave increased facilities for evasion of the law. The treasury estimate placed the gold disappearing from circulation between April 1, 1918, and March 31, 1920, at nearly £3,000,000, despite the strengthening of the embargo in September, 1919, to prohibit export to Mozambique.

After the war, to great difficulties were added heavy losses on the part of the banks in replenishing their gold reserves, owing to the removal of war restrictions on the bullion market in July, 1919, and the immediate appearance of a premium in terms of sterling. So that at the time the banks were paying as high as 28 shillings for bullion to be coined into a sovereign in England they were legally bound to pay out upon demand a sovereign for every 20-shilling note presented for redemption.

During the war, then, South Africa was as far from a gold standard as was Great Britain, though it could not conserve its gold supplies, even under those circumstances, owing to its inability to cope with illicit gold exports. Moreover, expansion of the currency was facilitated by the permission grapted to issue notes of $\pounds 1$ and of 10s., the old limit having been $\pounds 5$.



gold mines in a most unfavorable position. Throughout the war the gold output was sold at the fixed price of 77s. 9d. per standard ounce, by agreement between the Bank of England, the mining companies, the South African banks, and the Union government. This meant that while costs of production, freight, etc. (which the producers were required to pay), were rising, the price of the product was unaffected. A new agreement was effected, however, between the Bank of England and the Union government, which came into operation on July 24, 1919. This allowed for the sale of the gold in London by the producers' agents, N. M. Rothschild & Sons, at the best price obtainable. At the same time the imperial treasury authorized the Bank of England to issue licenses for the reexport of gold within five weeks of its arrival in London. So that practically a free market for bullion (as distinct from specie) was then reopened.

Nevertheless, the comparative unprofitableness of production up to that time, forcing elimination of some of the least profitable mines, together with general deterioration of mineral resources, caused a noticeable decline in gold production, as suggested in the following table:

GOLD PRODUCTION AND PRICES IN SOUTH AFRICA, 1914-1921.

Year.	Gold output of Transvaal (value in £).	Wholesale price index.
1914	38, 628, 437 39, 489, 522 38, 306, 381 35, 758, 636 135, 389, 091 134, 635, 947	100 117 134 154 168 181 245 192

¹ Not including premium.

It was established by the low-grade mines commission, set up by the Government in June, 1919, and corroborated by expert opinion, that many mines were saved by the gold premium, and could only exist under its encouragement. Twenty-one mines, producing over £1,000,000 of gold per month, were included in this category. These are experiencing great difficulty in adjusting costs to the falling price of gold, and the problem, in relation to the economic future of the country, is being found exceedingly difficult of solution. The disappearance of the gold premium will, of course, coincide with the return of sterling to parity with the dollar, and the bad effects of this movement upon the gold industry will

be in proportion to the lag between the rise in the exchange value of sterling and the corresponding fall in South African commodity prices and wages. Hence the gold producers in general are not eager for the return to the gold standard and the disappearance of the premium, while the banks and the general public are strongly in favor of a reversion to the pre-war conditions of currency and exchange.

III. STEPS LEADING TO THE PASSAGE OF THE ACT OF 1920.

Such, briefly, was the position which the act of 1920 was intended to ameliorate. One of the principal directions of agitation was along the line of the effort to establish a mint in South Africa to obviate the difficulties and expense incidental to replenishing the coinage by imports of specie from England. For a decade past, the question had been discussed, but in December, 1916, had received a quietus by a minute addressed to the imperial secretary of state for the colonies by the lords of the treasury. In this document the opinion was expressed that the establishment of a mint would not be advantageous to the Union government, the assumption being that a gold-producing country is ill advised to coin all or most of the gold it produces, unless its specie requirements are likely to absorb most of the gold coined. South Africa, of course, falls far short of this standard. The position became so acute, however, that early in 1919 the Minister of Finance announced that steps would be taken to establish the desired gold mint, and legislation was passed in the following session to that end.

In other respects numerous suggestions were made, some authorities holding the view that the alleviation of the post war difficulties was procurable through an immediate return to a free gold market. The leading opponent of this view was Mr. (now Sir) Henry Strakosch. In view of these differences of opinion, the Government called a conference, which met in October, 1919, to advise them on the questions of establishing "natural" exchanges between South Africa and the rest of the world and a free market for gold in the Union. The resolutions adopted by the conference were as follows:

1. (a) That the establishment of natural exchanges and of a free market for gold in the Union is desirable; (b) that to this end the establishment of a mint and a refinery should proceed with the utmost dispatch; (c) that the gold producers be requested to take steps to secure a modification of their selling agreement with the Bank of England, so as to permit of the termination at short notice; (d) that the embargo on the export of specie from the Union be not continued after the establishment of the mint.

2. During the course of their investigations the conference have been impressed with the necessity for one uniform bank act for the whole of the Union and would impress upon the Government the urgency of the introduction of such a measure in the next session of Parliament which should provide, *inter alia*, stringent pro-visions against inflation of currency.

At the beginning of 1920, in response to a request from the Prime Minister, Mr. Henry Strakosch expressed his views on the problem, his opinion being published in pamphlet form. In this much-discussed monograph, a return to "natural exchanges" was determinedly opposed, it being argued that such action would produce violent fluctuations in exchange on all countries not on a gold standard, and hence jeopardize trade with England; that it would encourage imports from abroad and exports of capital and impede home production. Hence it would be impossible to return to and maintain a gold standard. On the contrary, the report suggested the issue by the Government of gold certificates having 100 per cent gold backing, but inconvertible so long as gold commanded a premium; and the establishment by private capital of a central reserve bank, following in principle the Federal Reserve System of the United States, which would hold the reserves of the country and have a monopoly of note issue based on 40 per cent gold and 60 per cent short-term commercial paper.

The next step was the appointment, in March, 1920, of a select committee to inquire into the effects of the embargo on the cost of living and the question of its removal, and the desirability and practicability of modifying the laws relating to banking and currency. The committee considered at great length the pamphlet and oral evidence of Mr. Strakosch, and that they were much influenced by his opinions is patent from the arguments adduced and recommendations made in the report. Among other things, the report stated (a) that the removal of the embargo might in time completely denude the country of its specie reserves; (b) that a sudden rise of the exchanges to gold parity would seriously injure the Union's industries and produce a financial crisis in gold mining, and would encourage the withdrawal of capital from the Union, discouraging its entry; (c) that the Union cur-rency should be restored gradually but definitcly to an effective gold basis; and (d) that a central reserve bank should be established.

Immediately upon the receipt of this report a bill based thereon was introduced into Parliament. The bill met with much opposition, on the ground that the issue of the proposed gold certificates constituted a definite abandonment of the gold standard, throwing open the road to inflation. There was, how-I and three, elected by the nonbank stockholders,

ever, no cleavage of opinion along party lines and, with one amendment, the bill as presented was passed in July, 1920, the act coming into operation on December 17 of that year.

IV. THE CURRENCY AND BANKING ACT, 1920.

The gold problem.—In order to regularize and gradually to improve the situation with respect to the premium on gold and the efforts to return to a gold standard, the first chapter of the act provided for the issuance by the treasury of gold certificates to an amount equal to the face value of good-weight coin and $\pm 3.17.10\frac{1}{2}$ per standard ounce of bullion or light coin presented there, subject, in the latter case, to a brassage charge to be fixed by regulation. These were to be full legal tender and redeemable in gold on demand at the treasury. But when there existed a premium on gold in the Union the Governor-General might proclaim the suspension of redeemability while the premium lasted, and during that time the treasury might require any bank to deposit there a part or all of the gold coin held by it or on its behalf, receiving gold certificates in exchange. The opponents of the bill in Parliament secured their only success in this chapter by the insertion of a clause limiting the term of the suspension provisions to June 30, 1923. Constitution of the Central Reserve Bank.—

The banking provisions of the act are in many respects copied directly after the United States Federal reserve act, to the appropriate sections of which references will be made. These will be found on page 1331 at the conclusion of this section of the article.

The bank, situated at Pretoria, was to have a capital of £1,000,000, which might be increased by the board of directors with the consent of the treasury. Not more than one-half of this was to be subscribed by the banks in the Union, in proportion to their paid-up capital and surplus, in each case a minimum of 5 per cent being The remaining half was to be offered to set. the public at par, any amount not subscribed to be taken up by the treasury. The liability of shareholders was limited to the amount unpaid on their shares.^a

The management of the bank was entrusted to a board of 11 directors. Two of these, appointed by the Governor-General for a term of five years, being men of tested banking experience, were to act as governor and deputy governor of the bank, giving their whole time to the bank's affairs and receiving a salary fixed by the board. These were to have no interest in any other bank. Three directors were to be appointed by the Governor-General,

were to be actively engaged, one in agriculture, one in commerce, and one in industry. These six might not be directors, officers, or employees of any other bank, nor members of Parliament or of any provincial council. The remaining three, experienced in banking or finance, were to be nominated by the stockholding banks and appointed by the Governor-General, but no stockholding bank could vote in the election of directors. These last nine were to be elected for a three-year term, the early terms being so arranged that one director of each class would retire annually. All were to be British subjects, resident in the Union.^b

The profits of the bank, after allowing for bad and doubtful debts, depreciation, superannuation of staff, and "all such items as are usu-ally provided for by bankers," were to be apportioned to a 6 per cent cumulative dividend on paid-up capital and to a reserve fund until the reserve equaled 25 per cent of the paid-up Thereafter, one-half of the surplus capital. over the 6 per cent was to go to reserve, onequarter to the Government, and one-quarter to the stockholders, so long as the last quarter did not exceed 4 per cent on the paid-up capital. Any surplus over 4 per cent on the paid-up capital. Any surplus over 4 per cent would go to the Government. After the reserve had been built up to 100 per cent of paid-up capital, dividends might be paid up to 10 per cent, the surplus going to the Government.^c But so long as the export of gold or the convertibility of cold contificates was restricted and initial of gold certificates was restricted, no dividends in excess of 6 per cent might be paid, the difference between 6 per cent and 10 per cent being devoted to the strengthening of the bank's gold reserves.

Powers and duties of the bank.---The bank was given the power to appoint agents and correspondents and to establish branches inside and, with the consent of the treasury, outside, the Union; d to act as bankers and financial agents for the Government; and to fix its discount rates. Its business consisted in part of the issue of notes, the receiving of deposits, and the collecting of money for corporations and individuals. It might buy, sell, or rediscount promissory notes, bills of exchange, or other commercial paper bearing at least two good signatures, having not more than 90 days to run; agricultural and live-stock paper having up to six months to run up to 20 per cent of its total discounts; and paper for carrying or trading in Union government securities up to 90 days provided it bore the indorsement of a bank. It might further buy or sell sight drafts, acceptances, or bills drawn in or on utside countries.^e

curities of the Government or local authorities which had less than six months to run.^f But it might invest not more than the amount of its capital and reserve in the securities of any government up to two years maturity, and might invest its staff and superannuation funds in any Union government securities. At the same time it was permitted to buy and sell any securities for its customers. The bank was specifically prohibited from investing in real estate and from purchasing any bank shares, or loaning on their security.

The collateral against which it might loan or advance included stock, debentures or bills of the Union government or local authorities having not more than six months to run, eligible paper, and gold coin and bullion or documents of their shipping or storage. Advances on mortgages of fixed property were prohibited. Other miscellaneous powers included dealing in and lending gold and bullion, taking custody and management of moneys, securities, and other valuables, and acting as agent for any bank, domestic or foreign. On the other hand, sundry restrictions prohibited it from engaging in trade in any way, making unsecured loans or advances, drawing or accepting bills payable otherwise than on demand, accepting deposits for a fixed term, and paying interest on current accounts.

Currency reform.—The Central Reserve Bank was given the sole right of note issue for 25 years. But until the complete substitution of reserve bank notes for those of other banks becomes practicable these latter may continue to be issued, under certain conditions: a 40 per cent gold reserve must be kept against the circulation, and, in addition to the duty heretofore levied under an act of 1911, a 3 per cent tax on the amount of circulation in excess of that outstanding on December 31, 1919, must be paid.

When the bank was in a position to issue its own notes, it was provided that the treasury should fix a date on which the other banks should cease to issue or reissue theirs. From that date all previous laws relating to note issues would be invalid, and each bank would pay, for a period of two years, a tax of onefourth of 1 per cent per month on its outstand-ing circulation. Two years thereafter all banks were to pay over the amount of their outstanding notes to the reserve bank, which would then assume the liability for their redemption.

The notes of the bank are redeemable on demand at the place of issue in gold specie or gold certificates, and are good for payment of As a further guaranty of liquidity the bank taxes, duties, fees, etc., payable to the Union was empowered to buy or sell only those se- or provincial governments. They are secured

by a minimum of 40 per cent gold and for the remainder of their par value by commercial paper, as well as by a first charge on all the bank's assets.^f The provisions for the suspension of the reserve requirements under a graduated tax on the deficits are identical, in fact if not in terminology, with those of the Federal reserve $act.^{g}$

Reserves.-In addition to the reserve against notes, the bank must keep a 40 per cent specie or bullion reserve against deposits and bills payable.^f Not more than 20 per cent of this amount may be in the form of silver, and only one-quarter may be held outside the Union, and then only when permitted by the treasury and when earmarked for the bank's account. All banks in the Union are required to keep a reserve at the central bank of 13 per cent against their demand liabilities 1 (other than notes) and 3 per cent against time liabilities, to the public.^h For three years, however, a minimum of 10 per cent on the former is con-The penalties for infraction of this ceded. rule are heavy, for, besides having to pay a fine at the rate of 10 per cent per annum on the deficit, a bank may make no new loans nor pay any dividends until the reserve is brought up to the required level.

Publicity.—The treasury is empowered at any time to inspect the books and records of the reserve bank and to demand returns from any other bank.ⁱ The bank must supply weekly returns, in the form specified, ^j as well as copies of the annual accounts, to be published by the treasury, and all banks in the Union are required to furnish the treasury with monthly returns. In these must be shown the amounts of notes issued or payable in the Union, and in circulation; demand and time liabilities to the public in the Union; gold and subsidiary coin and gold certificates held in the Union; and the reserve balances at the central bank.

Distinctions between the act of 1920 and the Federal reserve act .--- A fundamental distinction exists between the bases of the Federal Reserve System and the South African Central Reserve Bank. It lies in the fact that at the time of the South African act the great bulk of the business was done by three banks, now reduced by fusion to two. With the two or three other financial institutions which have retained their autonomy, these compose the entire corporate membership of the reserve bank. In this respect of concentration of banking functions is seen perhaps most conspicuously the influence of British methods. Partly owing to this factor, and in part to centralized legislative machinery, the South African act required all

banks in the Union to subscribe to the reserve bank, while in the United States only the 8,000 national banks were compelled to join the Federal Reserve System, or forfeit their national charters, the 20,000 State banks being left free to determine their own course.

Two points in the act call for distinctive mention. In the first place, the provisions for the reform of the currency, looking toward uniformity and centralization of issue, go much further than do those of the Federal reserve act. In this matter again, there is a striking similarity to British methods. The act of 1844, providing for the eventual surrender of all private bank-note issues in England to the Bank of England, while much slower in its action,¹ had the same end in view and was as thorough in method.² The result of this change from the American to the British model is that the powers of emission of the banks in South Africa must be surrendered, while those of the national banks in the United States only may, in a very much longer period.

The second important distinction lies in the nature of the bank's dealings. Here again the English pattern is followed. The Bank of England is far from being a bank solely for bankers and the Government. On the other hand, apart from their fiscal functions, the Federal reserve banks are in the main bankers' banks, their open-market operations being restricted by law and moderate in volume. The South African Central Reserve Bank is permitted to deal with the public, and the prescribed form of weekly statement requires three separate subitems-"Government," "bankers," and "other" deposits. To the extent to which the bank utilizes these powers, then, it is in direct competition with the other institutions operating in the Union.

Finally, it is noteworthy that the institution founded under this act is the first true central bank to be established in the British dominions.

REFERENCES TO COMPARABLE SECTIONS OF THE FEDERAL RESERVE ACT.

a Section 2.

- ^b Section 1; section 4, as amended June 21, 1917 (section 2), and Soptember 26, 1918; section 10, as amended March 3, 1919, and June 3, 1922.
 Section 7, as amended March 3, 1919.
- d Section 3, as amended June 21, 1917 (sections 1, 6).

¹ That is, liabilities payable within 30 days or subject to less than 30 days' notice.

¹ The last private note issue (that of Fox, Fowler & Co.) lapsed, by absorption, in 1921; but for several years past the private circulation had been of practically negligible importance. ² After the passing of the act no bankers, except those already issuing, were to issue notes and then not in excess of their circulation at that time: no bank whose issue lapsed for any reason, could resume the issue of notes: by the act of 1833, joint-stock banks were expressly permitted to establish thomselves in London, without the power to issue notes, hence a note-issuing bank, on combining with one of these, lost its right of issue; if a country bank lost its right to issue, the bank might be au-thori ed by the Queen in Council to increase its flduciary issue by two-thirds of the amount of the lapsed issue. This right has not been fully taken advantage of.

- ^e Section 13, as amended March 3, 1915, September 7, 1916, and June 21, 1917 (sections 4, 5); section 14, as amended September 7, 1916, and June 21, 1917 (section 0): and function 21, 1917 (section 6); section 15.
- f Section 16, as amended September 7, 1916, and June 21, 1917 (section 7).

g Section 11.

h Section 19, as amended August 15, 1914, and July 21, 1917 (section 10), and September 26, 1918 (section 14).

i Section 21.

j Section 11.

V. THE ACT IN OPERATION.

Gold.—In accordance with the provisions of the act, the issue of gold certificates by the treasury was begun immediately after its coming into operation and proceeded so rapidly that by February 12, 1921, there were $\pounds 8,123,-$ 067 of this form of money outstanding. Dur-ing the ensuing 16 months, however, the increase was comparatively slow, only £2,000,000 being added by June 3, 1922. There being a premium on gold, the redeemability of the certificates was suspended immediately. This, however, does not permit of any reduction of gold backing, an amount of gold being held equal to that of the certificates outstanding.

The act has produced no perceptible improvement in gold production. On the contrary, in 1921, 8,114,581 ounces fine were mined—a reduction of 39,000 from the 1920 figure. In the first five months of 1922, largely owing to strikes and political disturbances, only 1,791,-347 ounces were mined in the Union.

The price of gold in London has fallen very considerably since the time of the act's passage. On December 31, 1920, it was £5 16s.1d. per ounce fine. By June 30, 1921, it was 110 shillings, and the end of the year saw it below the 100 mark. On September 29, 1922, it had reached £4 13s.10d. While the decline in the premium on gold has been large, it by no means, follows that it will entirely disappear by June 30, 1923, when the suspension provision lapses.

This contingency was early foreseen in South Africa itself, and Sir Henry Strakosch was again called upon to make recommendations as to the manner in which the limitation clause of the suspension of redeemability provision should be dealt with. In his memorandum the author pointed out that to return to gold parity demanded the most drastic deflation, which might seriously damage the country's industries. Moreover, since the external purchasing power of a currency unit responds more readily than its internal purchasing power to changed monetary conditions, the country's specie reserves would be seriously depleted. Furthermore, even if by a "huge effort of deflation" the progress toward coincidence between internal and external purchasing power were accelerated, the violent fluctuations in the case 1921, however, when the list was closed, the

of other countries would have similar disturbing effects to those of a disparity in the case of the South African currency. Apart from exchange difficulties, however, the lag in the case of internal purchasing power would force several of the gold mines to close down, and physical conditions would in many cases make permanent the cessation of operations. Quoting Doctor Vissering and Professor Cassel in support of his view, Sir H. Strakosch was led to the conclusion that "to resume specie payments * * at a definite and early date would be disastrous." The select committee of 1920 having reported that "it was not practicable to fix any definite time limit" for that step, the author recommended the deletion from the act of the clause limiting irredeemability to June 30, 1923.

In October, 1921, the Government called a conference to consider this same question. The conference gave its opinion that a definite attempt to bring about the necessary deflation by June 30, 1923, might result in a grave and violent crisis. Accordingly it suggested the provisional extension of inconvertibility until June 30, 1925, with the proviso that if in the meantime gold should reach its normal price, the Governor-General's power to suspend redemption should automatically lapse. At the same time the reserve bank should be authorized to take steps to prevent any further infla-tion of the currency. On the other hand, the conference recommended the immediate abolition of all restrictions on the export of gold bullion-a step on the advisability of which two members of the conference strongly disagreed with their six colleagues. In addition the somewhat novel suggestion was made that, "if necessary, the law be altered so as to prevent a debtor discharging his obligations (unless with the consent of the creditor) in any form of money other than that specified in the contract." At the time of writing no definite decision has been arrived at by the Government, but it would seem very unlikely that an automatic return to convertibility on July 1, 1923, will be permitted, through failure to amend or delete the limitation clause.

Banking.-The foundation of the Central Reserve Bank in December, 1920, was accompanied by the appointment as governor of Mr. W. H. Clegg. This fact is of peculiar significance in that Mr. Clegg had spent 34 years in the service of the Bank of England, having risen at the time of the appointment to the office of chief accountant in that institution.

Of the total capital to be raised, £300,000 was allotted to banks, the remainder being offered to the public at par. Up to June 18,

amount applied for was only £365,000, leaving £335,000 to be taken up by the Government. This fact gives rise to a situation in which, by contrast with the Federal Reserve System, the Government has a large interest as stockholder in the operations of the bank.

The reserve bank notes, in denominations of $\pounds 1, \pounds 5, \pounds 20$, and $\pounds 100$, were ready for issue in January, 1922, and by July 29, 1922, the amount in circulation was nearly $\pounds 6,500,000$. At the same time between December 31, 1921, and June 30, 1922, the circulation of the other banks within the Union was reduced by less than $\pounds 1,250,000$.

The nature and growth of the bank's operations up to the present time are indicated in the following table:

LIABILITIES AND ASSETS OF THE SOUTH AFRICAN RESERVE BANK ON JULY 16, 1921, AND JULY 29, 1922.

[In pounds sterling.]

	July 16, 1921.	July 29, 1922.
LIABILITIES.		
Capital paid up Reserve.	293, 391	1,000,000 2,081
Notes in circulation Bankers' deposits Other liabilities		6,426,646 5,551,894 57,871
Total	6, 152, 839	13,011,492
ASSETS.		
Gold com and bullion	500,000	$\begin{array}{r} 248,350\\ 8,927,103\\ 250,022\\ 317,836\\ 2,200,000\\ 56,800\\ 1,000,000\\ 41,381\end{array}$
Total	6, 152, 839	13,041,492

The bank's net profit for the nine months ending March 31, 1922, was $\pounds 45,524$. This, it will be seen, represents just about 6 per cent per annum on the capital stock.

The following composite statements of the institutions furnishing returns under the act of 1920 give some indication of the reaction of the other banks to the new arrangements:

LAABILITIES TO THE PUBLIC IN THE UNION.

	June 30, 1921.	June 30, 1922.
Legal-tender notes	6,747,567 41,886,838 29,770,116	£1,341,623 6,255,014 40,231,422 27,067,884 74,895,943

CASH RESERVES IN THE UNION.

· · · · · · · · · · · · · · · · · · ·	, <u>.</u>	
	June 30, 1921.	June 30, 1922.
Gold coin and bullion Subsidiary coin. Gold certificates held in Union South African reserve bank notes Balances in South African Roserve Bank .		$\begin{array}{c} \pounds 543, 547 \\ 1, 449, 706 \\ 2, 782, 179 \\ 4, 229, 298 \\ 6, 142, 220 \end{array}$
Total Percentage of reserve to deposits	12, 194, 427 15. 21	15, 146, 950 20, 22

The changes since 1920^{1} are, of course, most conspicuous on the assets side. The gold, gold certificates, and subsidiary coin have been reduced by 61 per cent, while this gap has been filled by £6,250,000 of balances at the reserve bank and by reserve-bank notes. It will be noted that the amount of balances more than meets the normal reserve requirements of the act.

The statement prescribed for the Central Reserve Bank in Schedule II of the act is in some respects similar to that required of the Federal reserve banks. Thus, in the item "gold coin and bullion," the amount held outside the Union must be separately stated, but by contrast with the American returns, gold certificates are also separately stated. There is no distinction as to the security behind bills discounted, but they are split up into "domestic" and "foreign." Deposits are divided, along the American lines, into "Government," "bankers," and "other," though the last has a different meaning, consisting of deposits made by the public.

PRICES IN URUGUAY.

The National Bureau of Labor of the Uruguayan Government has recently released the following table of average prices and corresponding index numbers of articles of prime necessity for the years 1913 to 1921, inclusive. The prices prevailing in 1913 have been taken as the base and the index numbers of all commodities for that year are given as 100. The list of commodities is primarily one of foodstuffs, and the table, therefore, suggests the trend of the cost of living in Uruguay since the outbreak of the war. It may be noted from this table that general prices reached a peak in 1920, when several commodities had advanced to more than 250 per cent of their level in 1913. The index numbers for 1921, on the other hand, show the result of the liquidation period which

¹ See table on pp. 1325, 1326.

began during 1920. It is of particular interest to note the striking decrease in the prices of beef and mutton, two of the most important Uruguayan products. The severe drop in

AVERAGE ANNUAL PRICES OF SELECTED COMMODITIES IN URUGUAY.

	Edible	e oils.	Ri	ce.	Sug	ar.	Far	ina.	Spag	hetti.	Hard	tack.	Beef t	allow.	Corn	meal.										
Year.	Average price per kilo.	Index num- ber.	Average price per kilo.	Index num- ber.	Average price per kilo.	Index num- ber.	Average price per kilo.	Index num- ber.	Average price per kilo.	Index num- ber.	Average price per kilo.	Index num- ber.	Average price per kilo.	Index num- ber.	Average price per kilo.	Index num- ber.										
1913. 1914 1915 1916 1917 1918. 1919 1920 1921	.53 .53 .67 1.06 1.02	100. 0 137. 5 132. 5 132. 5 167. 5 265. 0 255. 0 285. 0 285. 0 260. 0	$\begin{array}{c} 0.14\\.18\\.20\\.20\\.23\\.27\\.31\\.36\\.28\end{array}$	100. 0 128. 6 142. 9 142. 9 164. 3 192. 9 221. 4 257. 1 200. 0	$\begin{array}{c} 0.15 \\ .20 \\ .23 \\ .25 \\ .29 \\ .32 \\ .35 \\ .41 \\ .31 \end{array}$	$\begin{array}{c} 100.\ 0\\ 133.\ 3\\ 153.\ 3\\ 166.\ 7\\ 193.\ 3\\ 213.\ 3\\ 233.\ 3\\ 273.\ 3\\ 206.\ 7\end{array}$	$\begin{array}{c} 0.11 \\ .09 \\ .09 \\ .10 \\ .12 \\ .14 \\ .15 \\ .14 \\ .11 \end{array}$	100. 0 81. 8 81. 8 90. 9 109. 1 127. 3 136. 4 127. 3 100. 0	$\begin{array}{c} 0.11 \\ .12 \\ .16 \\ .13 \\ .16 \\ .15 \\ .16 \\ .22 \\ .23 \end{array}$	$100.\ 0\\109.\ 1\\145.\ 5\\118.\ 2\\145.\ 5\\136.\ 4\\145.\ 5\\200.\ 0\\209.\ 1$	0. 12 .12 .15 .11 .13 .13 .15 .15 .18 .19	100. 0 100. 0 125. 0 91. 7 108. 3 108. 3 125. 0 150. 0 158. 3	0.28 .25 .24 .27 .30 .31 .36 .36 .33	100. 0 89. 3 85. 7 96. 4 107. 1 110. 7 128. 6 153. 6 117. 9	$\begin{array}{r} 0.08 \\ .09 \\ .09 \\ .08 \\ .10 \\ .10 \\ .10 \\ .12 \\ .12 \end{array}$	$\begin{array}{c} 100.\ 0\\ 112.\ 5\\ 100.\ 0\\ 125.\ 0\\ 125.\ 0\\ 125.\ 0\\ 125.\ 0\\ 150.\ 0\\ 150.\ 0\end{array}$										
<u></u>	Wheat	flour.	Eg	gs.	Mi	lk.	Crushe	d corn.	Flour	bread.	Bea	ins.	Table	e salt.	Coars	e salt.										
Year.	Aver- age price per kilo.	Index num- ber.	Aver- age price per dozen.	Index num- ber.	Aver- age price per liter.	Index num- ber.	Aver- age price per liter.	Index num- ber.	Aver- age price per kilo.	Index num- bcr.	Aver- age price per kilo.	Index num- ber.	Aver- age price per kilo.	Index num- ber.	Aver- age price per kilo.	Index num- ber.										
1913. 1914 1915. 1916. 1917. 1917. 1918. 1919. 1920. 1921.	.09 .12 .09 .12 .12 .12 .10 .11	100. 0 112. 5 150. 0 112. 5 150. 0 125. 0 137. 5 187. 5 200. 0	0.22 .29 .28 .29 .31 .32 .35 .41 .38	100. 0 131. 8 127. 3 131. 8 140. 9 145. 5 159. 1 186. 4 172. 7	0.08 .06 .07 .08 .08 .08 .08 .09 .10 .09	100. 075. 087. 5100. 0100. 0112. 5125. 0112. 5	0.10 .11 .10 .10 .11 .11 .12 .10 .12 .12	110.0 100.0 100.0 110.0 120.0	$\begin{array}{c} 0.10 \\ .14 \\ .15 \\ .13 \\ .14 \\ .14 \\ .14 \\ .14 \\ .18 \\ .20 \end{array}$	$100. 0 \\ 140. 0 \\ 150. 0 \\ 130. 0 \\ 140. 0 \\ 140. 0 \\ 140. 0 \\ 140. 0 \\ 180. 0 \\ 200. 0$	$\begin{array}{c c} 0.19 \\ .19 \\ .24 \\ .23 \\ .23 \\ .22 \\ .22 \\ .22 \\ .24 \\ .23 \\ \end{array}$	$\begin{array}{c} 100.\ 0\\ 100.\ 0\\ 126.\ 3\\ 121.\ 1\\ 121.\ 1\\ 115.\ 8\\ 115.\ 8\\ 126.\ 3\\ 121.\ 1\end{array}$	$\begin{array}{c} 0.04\\ .08\\ .09\\ .08\\ .10\\ .10\\ .10\\ .11\\ .13\\ .13\\ \end{array}$	$\begin{array}{c} 100.\ 0\\ 200.\ 0\\ 225.\ 0\\ 200.\ 0\\ 250.\ 0\\ 250.\ 0\\ 250.\ 0\\ 325.\ 0\\ 325.\ 0\end{array}$	$\begin{array}{c} 0.02\\.02\\.03\\.03\\.04\\.04\\.04\\.04\\.04\\.04\\.04\\.04\\.04\end{array}$	100. 0 100. 0 150. 0 150. 0 200. 0 200. 0 250. 0 200. 0 200. 0										
	Sem	io la.	Vin	egar.	"Mate	e" tea.	Be	ef.	Mutton.		Mutton.		Mutton.		Mutton.		ı. Pork.		Mutton. Por		Mutton. Por		Sweet p	otatoes.	Irish p	otatoes.
• Year.	Aver- age price per kilo.	Index num- ber.	Aver- age price per liter.	Index num- ber.	price	Index num- ber.	Aver- age price per kilo.	Index num- ber.	Aver- age price per kilo.	Index num- ber.	Aver- age price per kilo.	Index nurn- ber.	Aver- age price per kilo.	Index num- ber.	Aver- age price per kilo.	Index num- ber.										
1913	16 .19 .16 .18 .18 .19 .19	100. 0 100. 0 118. 8 100. 0 112. 5 118. 8 118. 8 137. 5 137. 5	.12	$\begin{array}{c} 100.\ 0\\ 137.\ 5\\ 250.\ 0\\ 150.\ 0\\ 175.\ 0\\ 187.\ 5\\ 200.\ 0\\ 200.\ 0\end{array}$	$\begin{array}{c c} 0.28 \\ .30 \\ .30 \\ .30 \\ .30 \\ .30 \\ .30 \\ .30 \\ .44 \\ .40 \end{array}$	107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 117.9	$\begin{array}{c c} 0.22\\ .17\\ .20\\ .21\\ .20\\ .22\\ .27\\ .27\\ .19\\ \end{array}$	100. 0 77. 3 90. 9 95. 5 90. 9 100. 0 122. 7 122. 7 86. 4	0.30 .21 .20 .24 .24 .24 .24 .24 .26 .29 .21	100. 0 70. 0 66. 7 80. 0 80. 0 80. 0 86. 7 93. 7 70. 0	$\begin{array}{c c} 0.42 \\ .33 \\ .37 \\ .40 \\ .44 \\ .45 \\ .45 \\ .45 \\ .42 \\ \end{array}$	100, 0 78, 6 88, 1 95, 3 104, 8 107, 1 107, 1 107, 1 100, 0	$\begin{array}{c} 0.05\\.05\\.06\\.06\\.06\\.07\\.07\\.06\\.06\\.06\\.06\\.05\end{array}$	100. 0 100. 0 120. 0 120. 0 100. 0 140. 0 120. 0 120. 0 120. 0	$\begin{array}{c} 0.06 \\ .08 \\ .11 \\ .08 \\ .11 \\ .12 \\ .10 \\ .10 \\ .10 \end{array}$	100. 0 133. 3 183. 3 183. 3 183. 3 200. 0 166. 7 166. 7										
· · ·			Ale	ohol.	Dena	tured hol.	Cha	rcoal.	w	ood.	Ker	osene.	Tobacco.		Mat	ches.										
	Year.		Aver- age price per liter.	Index num- bor.	Aver- age price per liter.	Index num- ber.	Aver- age price per sack.	Index num- ber.	Aver- age price por 100 pieces.	Index num- ber.	Aver- age price per liter.	Index num- ber.	Aver- age price per kilo.	Index num- ber.	Aver- age price per dozen boxes.	Index num- ber.										
1913 1914 1915 1916 1917 1918 1919 1920 1921			$\begin{array}{c} 0.46\\ .51\\ .58\\ .58\\ .66\\ .74\\ .88\\ .1.09\\ 1.47 \end{array}$	100, 0 110, 9 119, 6 126, 1 143, 5 160, 9 191, 3 237, 0 319, 6	$\begin{array}{c} 0.26 \\ .27 \\ .23 \\ .25 \\ .27 \\ .30 \\ .27 \\ .26 \\ .27 \\ .26 \\ .27 \end{array}$	$\begin{array}{c} 100, 0\\ 103, 8\\ 88, 5\\ 96, 2\\ 103, 8\\ 115, 4\\ 103, 8\\ 100, 0\\ 103, 8\end{array}$	1.03 .98 .89 .83 1.22 1.31 1.25	100. 0 82. 4 78. 4 71. 2 66. 4 97. 6 104. 8 100. 0 100. 0	.99 .98 1.03 1.22 1.17	$100.0 \\ 104.0 \\ 97.0 \\ 99.0 \\ 98.0 \\ 103.0 \\ 122.0 \\ 117.0 \\ 116.0 \\ 116.0 \\ 116.0 \\ 116.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 100.0 \\ 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212,5\end{array}$	1.79 1.82 1.82 1.88 1.92 1.86 1.98	$100. 0 \\ 127. 9 \\ 130. 0 \\ 130. 0 \\ 134. 3 \\ 137. 1 \\ 132. 9 \\ 141. 4 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 143. 6 \\ 1$.19 .20 .22 .22 .22	$\begin{array}{c} 100.\ 0\\ 237.\ 5\\ 237.\ 5\\ 250.\ 0\\ 275.\ 0\\ 275.\ 0\\ 312.\ 5\\ 300.\ 0\\ \end{array}$										

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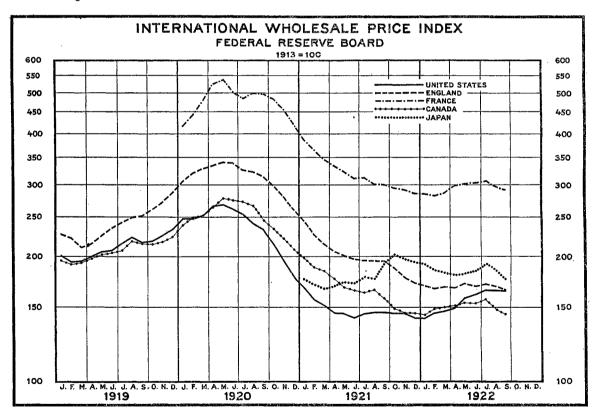
PRICE MOVEMENT AND VOLUME OF TRADE.

INTERNATIONAL WHOLESALE PRICE INDEX.

During September the trend of wholesale prices in all countries covered by the Federal Reserve Board's index was downward, ranging from a decrease of one point in the United States to eight points in Japan. Prices in England were only one point higher than those in the United States with reference to 1913. When all indexes are converted to a gold basis, the closest approximation is between British and Canadian prices.

The prices of raw materials and of consumers' goods declined in all five countries during September. Producers' goods, or commodities in a semimanufactured state, on the other hand, either increased or remained unchanged, except in Japan, where there was a decided general decrease in this group. Prices within the trade groups show that, whereas goods exported from all these countries, except France, decreased, the prices of goods imported rose with the exception of those in Japan.

Prices in general are falling from the July level, which in all five countries was the peak of the current year to date. In England prices have been relatively steady, with a spread of but seven points during the year. The July peak in Japanese prices came in a two months' sudden rise from the year's low point in May. In the other countries (United States, France, and Canada), prices increased steadily from the beginning of the year up to July. The decline during August and September has, however, brought prices in Japan, England, and Canada to the lowest point of 1922.



	Bas	sod on prices in respective currencies. Converted to gold basis.								
Year and month.	United States.	England.	France.	Canada.	Japan.	United States.	England.	France.	Canada.	Japan.
1913, average. 1919, average. 1920, average. 1921, average.	211	100 241 314 201	100 478 321	100 207 250 167	100 181	100 211 239 148	100 221 242 159	100 185 124	100 199 223 150	100 175
1921, September	146 145 143 142	194 187 177 172	301 295 292 287	158 149 145 145	192 202 197 193	146 145 145 142	148 149 144 144	$113 \\ 111 \\ 109 \\ 117$	141 136 133 135	186 193 189 186
1922. January	146 147 149 158 161	170 167 168 167 171 169 171 168 165	286 283 287 299 302 303 306 297 292	144 149 150 152 154 153 154 149 144	191 185 182 180 180 184 192 184 176	142 146 147 149 158 161 165 165 165	148 150 151 151 156 154 154 150	121 128 134 143 143 138 131 122 116	137 145 145 148 152 151 152 149 144	181 176 173 171 171 170 184 176 169

INTERNATIONAL WHOLESALE PRICE INDEX-FEDERAL RESERVE BOARD.

INDEX NUMBERS OF WHOLESALE PRICES IN THE UNITED STATES.¹

[Average prices in 1913-100.]

Year and month.	Goods produced.	Goods imported.	Goods exported.	Raw materials.	Pro- ducers' goods.	Con- sumers' goods.	All com- modities.
1919, average 1920, average 1921, average.	214 242 148	174 191 108	$221 \\ 235 \\ 136$	209 235 141	198 237 142	221 244 160	211 239 148
1921. September October November December	143	106 107 108 111	149 146 143 141	138 140 141 140	133 132 128 127	162 158 157 153	146 145 145 142
1922. February	$ \begin{array}{r} 143 \\ 144 \\ 155 \\ 158 \\ 162 \\ 162 \\ 162 \end{array} $	$110 \\ 110 \\ 111 \\ 115 \\ 119 \\ 124 \\ 128 \\ 127 \\ 128 \\ 127 \\ 128 \\ 135 \\ 135 \\ 135 \\ 110 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 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\\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 \\ 127 $	$150 \\ 155 \\ 157 \\ 156 \\ 160 \\ 164 \\ 163 \\ 156 \\ 154 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 \\ 155 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¹A complete description of the United States index number, as originally published, may be found in the May, 1920, BULLETIN, pages 499-503. Revisions in prices or weights appear in the BULLETINS for June, 1920; June, 1921; and May, 1922.

INDEX NUMBERS OF WHOLESALE PRICES IN ENGLAND. 1

[Average prices in 1913-100.]

Year and month.	Goods produced.	Goods imported.	Goods exported.	Raw materials.	Pro- ducers' goods.	Con- sumers' goods.	All com- modities.	
1919, average. 1920, average. 1921, average.	315	247 294 171	275 438 183	226 291 197	261 355 178	241 292 219		221 242 159
1921. September	192	$170 \\ 163 \\ 154 \\ 152$	$171 \\ 175 \\ 164 \\ 158$	195 187 177 173	$165 \\ 166 \\ 153 \\ 147$	212 200 191 186	194 187 177 172	148 149 144 144
1922. January	171 172 171 175 175 172 172	$\begin{array}{c c} & 149 \\ & 148 \\ & 147 \\ & 148 \\ & 153 \\ & 153 \\ & 154 \\ & 158 \\ & 155 \end{array}$	$158 \\ 151 \\ 153 \\ 152 \\ 155 \\ 158 \\ 158 \\ 158 \\ 159 \\ 159 \\ 159 \\ 159 \\ 159 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 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144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 144 \\ 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\\ 167 \\ 171 \\ 169 \\ 171 \\ 169 \\ 171 \\ 168 \\ $	$\begin{array}{c} 148 \\ 150 \\ 151 \\ 151 \\ 156 \\ 154 \\ 156 \\ 154 \\ 156 \end{array}$
September October	165	157 161	154 149		143 143	177 170	165 163	150 14

1 A complete description of the British index may be found in the February, 1922, issue of the BULLETIN, pages 147-153.

· · · · · · · · · · · · · · · · · · ·	[Average p	rices in 191	3=100.]					
Year and month.	Goods produced.	Goods imported.	Goods exported.	Raw materials.	Pro- ducers' goods.	Con- sumers' goods.	All com- modities.	Converted to gold basis.
1920, average 1921, average	466 322	536 313	512 288	506 341	433 248	474 348	478 321	185 124
	291	314 314 304 303	276 291 294 283	328 319 315 313	240 238 233 230	309 304 305 294	301 295 292 287	113 111 109 117
1922. February. March April May June. July. August. September.	282 288 302 305 305 306 295	295 286 282 282 283 295 308 309 320	277 275 272 274 279 292 297 296 301	508 300 305 318 322 327 332 329 322	229 227 229 228 226 230 236 233 234	209 300 306 327 333 327 325 303 296	286 283 299 302 303 306 297 292	121 128 134 143 143 138 138 131 122 116

INDEX NUMBERS OF WHOLESALE PRICES IN FRANCE.¹

¹ A complete description of the French index may be found in the August, 1922, issue of the BULLETIN, pp. 922-929.

INDEX NUMBERS OF WHOLESALE PRICES IN CANADA.¹

[Average prices in 1913=100.]

Year and month.	Goods produced.	Goods imported.	Goods exported.	Raw materials.	Pro- ducers' goods.	Con- sumers' goods.	All com- modifies.	Converted to gold basis.
1919, average 1920, average 1921, average	249	204 253 164	220 268 181	197 235 155	188 255 174	227 270 183	207 250 167	109 223 150
1921. October November December	148	$155 \\ 153 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 \\ 151 $	175 149 138 137	147 136 131 131	159 153 152 149	174 166 164 164	158 149 145 145	141 136 133 135
1922. January	148 150 152 153 151 153 146	$151 \\ 150 \\ 150 \\ 151 \\ 157 \\ 162 \\ 165 \\ 166 \\ 170 \\ 171$	$\begin{array}{c} 139\\ 152\\ 151\\ 153\\ 154\\ 149\\ 154\\ 144\\ 133\\ 134\\ \end{array}$	$\begin{array}{c} 132\\ 138\\ 140\\ 142\\ 145\\ 143\\ 143\\ 143\\ 136\\ 133\\ 135\\ 135\\ 135\\ \end{array}$	$\begin{array}{c} 147\\ 147\\ 146\\ 146\\ 146\\ 150\\ 152\\ 154\\ 154\\ 155\\ \end{array}$	$\begin{array}{c} 161 \\ 164 \\ 166 \\ 169 \\ 168 \\ 168 \\ 171 \\ 166 \\ 157 \\ 158 \end{array}$	$\begin{array}{c} 144\\ 149\\ 150\\ 152\\ 154\\ 153\\ 154\\ 149\\ 144\\ 145\end{array}$	$137 \\ 145 \\ 145 \\ 148 \\ 152 \\ 151 \\ 152 \\ 149 \\ 144 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 \\ 145 $

¹ A complete description of the Canadian index may be found in the July, 1922, issue of the BULLETIN, pp. 801-806.

INDEX NUMBERS OF WHOLESALE PRICES IN JAPAN.¹

[Average prices in 1913=100.]

Year and month.	Goods produced.	Goods imported.	Goods exported.	 Raw materials.	Pro- ducers' goods.	Con- sumers' goods.	All com- modities.	Converted to gold basis.
1921, average	186	· 154	173	154	188	193	181	175
1921. September	197 208 204 201	167 172 162 154	175 185 183 192	159 171 167 167	199 209 193 192	207 217 215 209	192 202 197 193	186 193 189 186
1922. January. March. April. May. June. July. August. September.	187 186 185 188 197	$153 \\ 151 \\ 153 \\ 151 \\ 157 \\ 166 \\ 167 \\ 160 \\ 156 \\ 156 \\ 166 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 \\ 156 $	197 186 175 176 183 192 196 189 189	$168 \\ 163 \\ 157 \\ 157 \\ 164 \\ 168 \\ 170 \\ 161 \\ 159 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 159 \\ 161 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 \\ 150 $	191 183 183 183 182 191 195 187 176	208 198 195 192 189 191 203 196 185	191 185 182 180 180 184 192 184 192 184	181 176 173 171 171 176 184 176 169

¹ A complete description of the Japanese index may be found in the September, 1922, issue of the BULLETIN, pp. 1052-1059.

COMPARATIVE WHOLESALE PRICE LEVELS IN PRINCIPAL COUNTRIES.

ALL-COMMODITIES INDEX NUMBERS.¹

1

		·					EUROPE.		· · · · · · · · · · · · · · ·				
Year and month.	Bel- gium; Minis- try of Labor. ²	Bul- garia; General Statis- tical Bureau.	Den- mark; Finans- tidende. ³	France; General Statis- tical Bureau.4	Ger- many; Frank- furter Zei- tung. ⁵	Ger- many; Federal Statis- tical Bureau.6	Italy; Riccardo Bachi. ⁸	Nether- lands; Central Bureau of Sta- tistics. ⁷	Norway (Chris- tiania); Oekono- misk Revue. ⁹	Poland; Central Statis- tical Office.	Spain; Institute of Geog- raphy and Sta- tistics. ¹⁶	Dorgs	Switzer- land; Dr. J. Lorenz. ³
	(128)		(33)	.(45)	(98)	(38)	(100)	(53)	(93)	(58)	(74)	(47)	(71)
1913 1914 1915 1916 1917 1918 1919 1920 1921	13 100	100 103 137 18 268 667 830 1, 166 1, 940 2, 006	14 100 138 164 228 293 294 382 250	100 101 137 187 262 339 357 510 345	¹⁵ 100 ¹⁹ 1, 997 ¹⁹ 2, 127	100 106 142 153 179 217 416 1,486 1,911	$100 \\ 95 \\ 133 \\ 202 \\ 299 \\ 409 \\ 364 \\ 624 \\ 578$	$100 \\ 105 \\ 145 \\ 222 \\ 286 \\ 392 \\ 297 \\ 282 \\ 181$	233	17 100	$ \begin{array}{r} 100\\ 101\\ 119\\ 141\\ 166\\ 207\\ 204\\ 221\\ 190\\ \end{array} $	12 100 116 145 185 244 339 330 347 211	100
1921. September October November December	364 372 374 369	1,758 2,052 2,061 2,155	224 202 186 188	344 331 332 326		2,067 2,460 3,416 3,487	580 599 595 595	180 169 165 165	287 286 276 269		183 185 184 183	182 175 174 172	
1922. March. April	360 360	2,287 2,514 2,695 2,436 2,489 2,526 2,531	182 178 177 179 180 180 178 178 176 180	307 314 317 325 325 331 329 337	7,379	5,4336,3556,4587,0309,95717,99027,42056,600	533 527 524 537 558 571 582 601	161 161 165 166 159 147	240 236 231 230 232 227 225 221	73, 729 75, 106 78, 634 87, 694 101, 587 135, 786 152, 365	176	$164 \\ 165 \\ 164 \\ 164 \\ 165 \\ 163 \\ 158 \\ 155$	171 163 161 160 161 163 163 163 163
	EUROP	Econ- led.		TH AND S AMERICA.				ASIA AND	OCEANIA	•		AFF	LICA.
Year and month.	United King- dom; Board of Trade.	United King- dom; Statist.4	United States; Bureau of Labor Statis-	Canada; Depart- ment of Labor. ¹¹	Peru; Depart- ment of Statis- tics.20	Aus- tralia; Bureau of Census and Sta-		Dutch East Indies; Statis- tical	India (Cal- cutta); Depart- ment of Statis-	(Tokyo)		Egypt (Cairo); Depart- ment of Statis-	South Africa; Office of Census and Sta-

	Board of Trade.	Statist.4	Statis- tics.	Labor.11	Statis- tics.20	and Sta- tistics.4	of Fi- nance. 21	tical	ment of Statis- tics.6	Japan.	Statis- tics.	Statis- tics.	and Sta- tistics.
	(150)	(45)	(404)	(271)	(58)	(92)	(147)		(75)	(56)	(106)	(23)	(187)
1913. 1914. 1915. 1916. 1917. 1917. 1918. 1919. 1920.	314	$226 \\ 242 \\ 295$	$ 100 \\ 98 \\ 101 \\ 127 \\ 177 \\ 194 \\ 206 \\ 226 $	$ \begin{array}{r} 100\\ 101\\ 110\\ 135\\ 177\\ 206\\ 217\\ 246 \end{array} $	$ \begin{array}{r} 100 \\ 104 \\ 120 \\ 146 \\ 176 \\ 212 \\ 220 \\ 238 \\ \end{array} $	15 100 141 132 155 170 180 218	133 140	23 100 232 232 281 226	24 100 112 128 147 180 198 204	$ \begin{array}{r} 100 \\ 96 \\ 97 \\ 117 \\ 147 \\ 192 \\ 236 \\ 259 \\ \end{array} $	$100 \\ 104 \\ 123 \\ 134 \\ 151 \\ 175 \\ 178 \\ 212$	25 100 102 124 168 207 225 299	100 127 145 158 170 231
1921	201	182	147	182	205	167	145	186	181	200	201	171	·····
September October November December	185	175 163 161 157	141 142 141 140	172 169 168 170	205 203 195 190	160 156 151 148	148 146 144 146	188 175 170 166	187 184 180 180	207 219 214 209	197 195 191 188	169 180 171 160	143
1922. March. April. May. June. July. August. September. October.	163 164 163 163 159 157	157 158 159 159 157 157 152 150	$142 \\ 143 \\ 148 \\ 150 \\ 155 \\ 155 \\ 155 \\ 153 \\ 154$	$167 \\ 166 \\ 167 \\ 165 \\ 166 \\ 164 \\ 163 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 \\ 162 $	190 187 186	146 148 155 156 157 155 158	$152 \\ 150 \\ 146 \\ 144 \\ 145 \\ 142 \\ 139 \\ 143 \\ 143 \\ 143 \\ 143 \\ 143 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 \\ 152 $	$164 \\ 164 \\ 166 \\ 167 \\ 168 \\ 162 \\ \dots$	182 182 187 183 181 178 176 177	201 197 194 197 201 195 193 190	180 180 177 175 175 177 177 177	$153 \\ 148 \\ 141 \\ 139 \\ 138 \\ 139 \\ 138 \\ 139 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 $	132 131

The number of commodities or quotations used in the computation of each index is indicated by figures in parentheses at head of each column.
A verage of last half of month.
First of month.
Beginning of month—not always the lst.
A verage 'or the month.
Based upon price of 52 commodities during 1920; 53 during 1921.
38 commodities prior to 1920; 76 commodities during 1921. Average for the month.
End of years and end of month.
Ibnd of years and end of month.
Middle of month.
July 1, 1913, to June 30, 1914-100.

1 13 April, 1914=100. 14 July 1, 1912, to June 30, 1914=100. 15 July, 1914=100. 16 Dec. 31, 1913, to June 30, 1914=100. 17 January, 1914=100. 18 December figure. 19 January figure. 20 Average for month until September, 1921; thereafter prices as of 15th of month. 22 February, 1913=100. 23 As of Jan. 1. 24 End of July, 1914=100. 25 Jan. 1, 1913, to July 31, 1914=100.

The foreign index numbers published on the preceding page are constructed by various foreign statistical offices, and are sent to the Fed-eral Reserve Board by cable. The BULLETIN for January, 1920, contains a description of the French, Australian, Japanese, and Canadian indexes. A description of the method used in the construction of the Swedish index number appeared in the BULLETIN for February, 1921; the British index number, compiled by the Board of Trade, was described in the March, base. 1921, BULLETIN; and the Italian index number was discussed in the April, 1921, issue. The December, 1921, BULLETIN contains a description of the index published by the Federal Statistical Bureau for Germany, and the in-dexes for Switzerland, Netherlands, Norway, Bulgaria, Egypt, the Union of South Africa, the Dominion of New Zealand, and Peru. The index number for the Dutch East Indies was described in the BULLETIN for March, 1922, that for Poland in the BULLETIN for July, 1922, while a description of the Belgian index may be found in the October, 1922, issue. The revised

index of the United States Bureau of Labor

Statistics was first published in the July, 1922,

BULLETIN; and a description of the Frankfurter

Zeitung's revised index was given in the issue

for September, 1922. Lack of space prevents

the publication of group index numbers for

many of these countries except occasionally, but they can be obtained at any time upon

request. Reference may be made to the September, 1922, BULLETIN, pp. 1092-1100,

for a more complete series of group index

numbers than appears in this issue.

In only a few of the index numbers is 1913 used as the basis in the original computations. In most cases in which 1913 appears as the basis for the computation the index numbers have been shifted from their original bases. The computations in such cases are, therefore, only approximately correct. In certain of the index numbers July, 1914, or the 12 months' period immediately preceding is used as the base.

A description of the international price index numbers of the Federal Reserve Board for the United States, England, Canada, France, and Japan may be found in the BULLETINS for May, 1920; February, 1922; July, 1922; August, 1922; and September, 1922, respectively. A comparative summary table showing the Board's international index for these five countries appears on page 1336.

Index numbers showing the price levels of separate groups of commodities in the United States and a few foreign countries are presented on the following pages. Group index numbers computed by the Federal Reserve Board as part of its international series of price indexes will be found on pages 1336, 1337 of this issue.

The revised series of group index numbers for the United States, showing the Federal Reserve Board's regrouping of the new index of the Bureau of Labor Statistics, based upon 404 quotations, was published for the first time in the September, 1922, BULLETIN. A similar regrouping by the Federal Reserve Board of the old index of the Bureau of Labor Statistics first appeared in the October, 1918, issue.

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

		R	aw materia	ds.		Bro		4.11
Year and month.	Agricul- tural products.	Animal products.	Forest products.	Mineral products.	Total raw ma- terials.	Pro- ducers' goods.	211 231 159 154 153 151 146 148 150 149 150 151	All commodi- ties.
	(21)	(21)	(11)	(35)	(88)	(117)	(199)	(404)
1913	100 250 255 134		$100 \\ 211 \\ 312 \\ 166$	100 180 236 185	106 218 229 142	100 179 214 135	211	100 206 226 147
1921. September October. November. December.	141 135 130 130	105 107 103 103	154 162 175 169	168 174 178 179	137 138 137 137	126 126 125 125	155 154 153	141 142 141 140
Io22. February March. April. May. June. June. July August. September. October.	140 141 145 152 146	109 121 122 120 122 123 130 127 132 132	167. 166 165 167 174 186 188 191 199 204	178 177 178 180 202 211 241 261 236 218	139 146 147 148 157 159 171 173 168 166	123 118 120 122 125 127 129 129 132 135	150 149 150	138 141 142 143 148 150 155 155 155 153 154

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Year and month.	Farm prod- ucts.	Foods.	Cloths and clothing.	Fuel and lighting.	Metals and metal products.	Building mate- rials.	Chem- icals and drugs.	House furnish- ing goods.	Miscel- laneous.	All commod- ities.
	(56)	(110)	(65)	(20)	(37)	(41)	(43)	(31)	(25)	(404)
1913 1919 1920 1921	100 231 218 124	100 207 220 144	100 253 295 180	100 181 241 199	100 162 192 129	100 201 264 165	100 169 200 136	100 184 254 195	100 175 196 128	100 206 226 147
1921. September October. November. December.	124 124 121 120	142 140 139 136	178 180 180 180	181 189 197 199	116 116 114 113	156 159 163 158	131 131 129 127	179 180 178 178	118 118 119 121	141 142 141 140
1922. January. February. March. April. May. June. July. September. October.	$\begin{array}{c} 122\\ 131\\ 130\\ 129\\ 132\\ 131\\ 135\\ 131\\ 133\\ 138\\ 138\\ 138\\ \end{array}$	$131 \\ 135 \\ 137 \\ 137 \\ 138 \\ 140 \\ 142 \\ 138 \\ 138 \\ 138 \\ 138 \\ 138 \\ 140 \\ 140 \\ 142 \\ 138 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 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\\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 \\ 140 $	176 174 172 171 175 179 180 181 183 183	$195 \\ 191 \\ 194 \\ 216 \\ 225 \\ 254 \\ 271 \\ 244 \\ 226$	$112 \\ 110 \\ 109 \\ 113 \\ 119 \\ 120 \\ 121 \\ 126 \\ 134 \\ 135$	157 156 155 160 167 170 172 180 183	$124 \\ 123 \\ 125 \\ 124 \\ 122 \\ 122 \\ 121 \\ 122 \\ 121 \\ 122 \\ 124 \\ 124$	178 177 175 175 176 176 176 173 173 173	$117 \\ 117 \\ 117 \\ 116 \\ 116 \\ 114 \\ 114 \\ 115 \\ 116 \\ 116 \\ 120 \\ 120 \\ 117 \\ 117 \\ 117 \\ 117 \\ 117 \\ 117 \\ 117 \\ 110 \\ 120 \\ 110 \\ 120 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 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110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 \\ 110 $	$138\\141\\142\\143\\148\\150\\155\\155\\155\\155\\155\\155\\155\\155\\155$

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

GROUP INDEX NUMBERS-FRANCE-GENERAL STATISTICAL BUREAU.

Year and month.	Animal foods.	Vegetable foods.	Sugar, coffee, and cocoa.	All foods.	Minerals.	Textiles.	Sundries.	All indus- trial materials.	All com- modities.
	(8)	(8)	(4)	(20)	(7)	(6)	(12)	(25)	(45)
1913 average. 1919 average. 1919 average. 1920 average. 1921 average. 1921.	392 503 380	100 313 427 330	100 253 422 343	100 336 459 355	100 272 449 275	100 444 737 355	100 405 524 374	100 373 550 338	100 357 510 345
October	345	305	305	323	262	391	365	338	331
1922. July. August. September. October.	359 354 346 341	293 292 279 283	339 336 333 311	330 327 318 313	265 275 279 309	392 421 418 446	326 330 341 347	322 - 334 - 339 - 357	325 331 329 337

GROUP INDEX NUMBERS-GERMANY-FRANKFURTER ZEITUNG.

[July, 1914=100.]

Year and month.	Foodstuffs and luxuries. (26)	Textiles and leather. (16)	Minerals. (18)	Miscel- laneous. (17)	Industrial finished products. (21)	All com- modities. (98)
July, 1914 January, 1920. January, 1921. January, 1922. 1922.	100 1,972 2,019 3,840	100 3,407 3,840 7,168	100 2,719 2,780 5,178	100 1, 101 1, 776 3, 149	100 1,343 1,594),159	100 1,997 2,127 4,238
Beginning of— July. August September. October November.	6, 323 13, 691 29, 175 38, 595 88, 980	$\begin{array}{c} 13,938\\21,910\\36,398\\72,688\\153,896\end{array}$	$12,168\\18,355\\42,648\\54,905\\128,982$	6, 881 10, 993 21, 605 32, 134 72, 038	6,750 8,519 19,352 35,025 57,683	9,140 13,935 28,919 44,089 94,492

GROUP INDEX NUMBERS--GERMANY-FEDERAL STATISTICAL BUREAU.

[1913=100.]

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Year and month.	Goods produced. (16)	Goods imported. (22)	All com- modities. (38)	Year and month.	Goods produced. (16)	Goods imported. (22)	All com- modities. (38)
1913 average 1919 average 1920 average 1921 average 1921. October	385	100 558 2,652 2,533 3,585	100 416 1,486 1,911 2,460	1922. June. July August. September. October.	6, 540 9, 168 15, 080 24, 280 49, 850	9,479 13,854 32,490 43,110 90,340	7,030 9,957 17,990 27,420 56,600

GROUP INDEX NUMBERS-ITALY-RICCARDO BACHI.

Year and month.	Vegetable foods. (25)	Animal foods. (13)	Chemicals. (11)	Textiles. (12)	Minerals and metals. (16)	Building materials. (6)	Other vegetable products. (5)	Sundrics. (12)	All com- modities. (100)
1920	100	100	100	100	100	100	100	100	100
1922. January	112	114	73	72	64	92	112		92
June July	109 112	97 100	76 68	74 76	57 61	76 79	105 113	87 91	86 89
August	$\begin{array}{c} 115\\112\end{array}$	100 110	70	78 80	63 65	81 81	119 120	93 95	92 93
October	113	114	. 72	85	69	86	124	96	96

GROUP INDEX NUMBERS-SWEDEN-GÖTEBORGS HANDELS OCH SJÖFARTSTIDNING.¹ [July 1, 1913-June 30, 1914=100.]

Year and month.	Voge- table foods (16)	Animal foods. (7)	Raw ma- terials for agri- culture. (5)	Coal. (2)	Motals. (5)	Building mate- rials. (7)	Wood pulp. (3)	Hides and lcather. (5)	Textiles. (3)	Oils. (2)	All com- modities. (47)
1913–14. 1919. 1920. 1921.	100 261 262 210	100 409 296 220	$100 \\ 340 \\ 312 \\ 227$	$100 \\ & \begin{array}{c} 804 \\ 1,007 \\ 285 \end{array}$	100 258 278 159	$100 \\ 286 \\ 371 \\ 243$	100 308 675 310	100 211 215 107	$\begin{array}{r}100\\324\\144\end{array}$	100 294 228	$100 \\ 330 \\ 347 \\ 211$
1921. September	183	208	207	223	130	191	178	108	166	191	182
1922 June	174 174 168 146	165 164 168 179	170 167 162 160	155 160 167 169	121 121 123 119	209 215 213 215	144 149 149 154	87 88 90 *	172 179 170 171	154 154 154 150	$\begin{array}{c c} & 164 \\ & 165 \\ & 163 \\ & 158 \end{array}$

¹ Formerly published in Svensk Handelstiding.

GROUP INDEX NUMBERS-UNITED KINGDOM-BOARD OF TRADE.

Year and month.	Cereals.	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 com- modities. (150)
1913 average 1920 average 1921 average	100 273 194	100 263 219	100 278 214	100 272 209	100 406 237	100 252 179	100 480 192	100 362 173	100 274 196	100 340 197	100 314 201
1921. September 1922.	195	200	201	199	207	161	213	163	190	187	191
JuneJuly July August September	$154 \\ 156 \\ 151 \\ 142$	173 170 169 174	179 181 161 152	169 169 160 156	157 155 151 149	139 138 142 140	187 191 186 185	167 168 167 169	$163 \\ 162 \\ 160 \\ 161$	160 160 159 158	163 159

GROUP INDEX NUMBERS-CANADA-DEPARTMENT OF LABOR.

Year and month.	Grains and fodder. (15)	Animals and meats. (17)	Dairy prod- ucts. (9)	Fruits and vege- tables. (20)	Other foods. (25)	Textiles.	Hides, leather, etc. (11)	Metals. (23)	Imple- ments. (10)	Build- ing ma- terials, lumber. (14)	Fuel and lighting. (10)	Drugs and chemi- cals. (16)	All com- modi- ties. (264)
1913 1919 1920 1921	$100 \\ 227 \\ 263 \\ 150$	100 199 198 149	100 192 204 157	100 206 261 172	$100 \\ 222 \\ 258 \\ 181$	$ \begin{array}{r} 109 \\ 285 \\ 303 \\ 189 \end{array} $	100 213 192 110	$100 \\ 173 \\ 203 \\ 150$	$100 \\ 228 \\ 245 \\ 240$	100 171 268 211	100 201 255 218	100 205 204 177	100 217 246 182
1921. September	144	133	141	170	170	183	100	143	235	189	206	171	172
1922. June July August September	143 143 130 121	144 143 138 132	117 120 120 128	180 178 156 137	$153 \\ 154 \\ 152 \\ 156$	180 184 181 181	99 100 105 105	137 138 142 144	213 216 216 218	173 178 179 179	221 234 257 243	162 160 161 160	165 166 164 163

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COMPARATIVE RETAIL PRICES IN PRINCIPAL COUNTRIES.

In the following table are presented statistics showing the trend of retail prices and the cost of living in the United States and certain other countries:

INDEX NUMBERS OF RETAIL PRICES AND COST OF LIVING	INDEX	NUMBERS	OF	RETAIL	PRICES	AND	COST	OF	LIVING
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		Retail	prices.		Cost of living.											
Year and month.	United States.	France 1 (Paris).	Italy.	Sweden.	Austria (Vienna).	Belgium.	Germany (46 cities).	Germany (Berlin).	Poland.	Switzer- land.	United King- dom.	India (Bom- bay).	South Africa.			
1913 1914 1920 1921	* 100 199 150	⁸ 100 371 337	2 100 454 548	* 100 298 237	³ 100	4 100 434	⁵ 100 813 1,047	⁶ 100 1,080 1,236	* 100 28,622	7 100 210	³ 100 249 226	* 100 173	* 100 155 133			
1921. September. October November. December.	150 150 149 147	329 331 326 323	542 581 583 585	228 218 211 202	53, 300	422 439 451 447	1,062 1,140 1,397 1,550	1, 212 1, 340 1, 767 1, 934	39, 817 48, 656 47, 628 46, 740	203 199 192 189	220 210 203 199	185 183 182 179	130 128 127 124			
1922. January February March April May June July September. October	136 136	319 307 294 304 317 307 297 289 291 290	576 559 546 524 530 522	190 189 185 182 178 179 179 181 180 178	66,900 77,000 77,800 87,200 109,300 187,100 264,500 593,200 1,130,600	418 394 372 368 365 373 372 369	$1,640 \\ 1,989 \\ 2,302 \\ 3,175 \\ 3,462 \\ 3,779 \\ 4,990 \\ 7,029 \\ 11,376 \\ 19,504$	$\begin{array}{c} 1,903\\ 2,177\\ 2,740\\ 3,177\\ 3,455\\ 4,149\\ 6,122\\ 10,271\\ 16,368\\ 21,306\end{array}$	46, 883 48, 085 52, 358 58, 627 63, 914 68, 406 78, 798 90, 823	186 175 170 162 156 155 159 154	192 188 186 182 181 180 184 181 179 178	$173 \\ 165 \\ 165 \\ 162 \\ 163 \\ 163 \\ 163 \\ 165 \\ 164 \\ \dots $	122 120 120 122 122 121 120 120 120			

Average for the month.
 Average for the year.
 July.

The American index number, constructed by the Bureau of Labor Statistics, was based upon the retail prices of 22 articles of food, weighted according to family consumption, until January, 1921, when it was increased to 43 articles reported by dealers in 51 important cities. The method of weighting continues the same, although the actual "weight" applied has been changed. The original basis, that of the year 1913, has been shifted to July, 1914.

The retail price index for Paris, compiled by the French General Statistical Office, consists of retail prices of 13 different commodities, weighted according to the average annual consumption of a workingman's family of four persons. Eleven of the commodities included in this index are foods, and the other two are kerosene and alcohol.

The Italian retail price index for the most important cities, computed by the Italian Ministry of Labor, consists of retail prices of 21 commodities. Of the commodities included, 20 are foods and the other commodity is charcoal.

The Swedish index number consists of the retail prices of foodstuffs, fuel, and lighting and is based upon the prices of 51 articles in 44 towns (in 1920, 50 articles in 49 towns), weighted according to the budget of a working-man's family which before the war had a yearly income of 2,000 kronor.

The Austrian index, computed by the Paritatische Kommission, includes food, clothing, fuel, lighting, and rent. Prices, collected from cooperative associations and firms, are those ruling on Vienna markets. An average is obtained for each article and weighted according to the theoretical weekly expenditure of a normal person.

The Belgian index number of cost of living, constructed by the Ministry of Labor, consists of the retail prices of 30 commodities, weighted according to a standard budget based on an inquiry into the expenditures of 848 families of the laboring and small middle classes.

The German cost of living index for 46 cities is furnished

by the Federal Statistical Bureau and includes food, fuel,

light, and rent. The Berlin index, computed by Dr. R. Kuczynski, is based on the minimum cost of subsistence for a working-class family of four persons in Berlin. The groups included in the budget are food, clothing, heating, lighting, and rent

The Polish Central Statistical Office furnishes an index Ine Folish Central Statistical Office furnishes an index including food, clothing, heating, lighting, rent, and mis-cellancous expenditures. Official prices are used for State-controlled goods, but when the official ration is less than a standard budget the balance is reckoned at the trade price. The system of weighting is according to a theoretical budget for a working-class family of four persons in Warsaw. The Swiss index number computed by the second

The Swiss index number, computed by the social statistics service of the Burcau of Labor, is based on an investigation into household budgets made in 1920, and refers to about one-third of the entire cost of living of the family of a skilled worker.

The British index number of the cost of living, con-structed by the Ministry of Labor, consists of the retail prices not only of foodstuffs, but of other articles as well. Retail clothing prices, rents, and the cost of fuel, lighting, and miscellaneous household items are also taken into consideration. The index number is weighted according to the importance of the items in the budgets of workingclass families.

The Indian index, including food, clothing, heating, lighting, and rent, is computed by the labor office secre-tariat. Prices are collected twice a week from 10 retailers in Bombay. The index is weighted according to the average aggregate expenditure of the whole of India during five years before the war.

The South African index, computed by the Office of Census and Statistics, includes food, heating, lighting, and rent. Until December, 1919, it was weighted according to a standard budget, but since then the aggregate expenditure method has been adopted.

⁴ Apr. 15, 1914=100. ⁵ 1913-1914=100.

August, 1913-July, 1914=100. 7 June.

INDEXES OF INDUSTRIAL ACTIVITY IN FOREIGN COUNTRIES.

UNITED KINGDOM.

		PRODU	CTION.				EXPORTS	•		імро	ORTS.		SHIP	PING.	Unem- ployed
Year and month.	Coal.	Pig iron.	Steel ingots and cast- ings.	Fin- ished steel.	Raw cotton, visible supply. ¹	lron and steel manu- fac- tures.	Cotton manu- fac- tures.	Coal.	Raw cotton.	Raw wool.	Raw wet hides.	Hides, dry and salted.	aon	Vessels cleared.	among approx- imately 12,000,- 000 in- sured persons.
Monthly average: 1913 1920 1921	Long tons (000). 23,953 19,108 13,696	Long tons (000). 855 670 218	Long tons (000). 639 756 302	Long tons (000). 646 238	Balcs (000). 1,397 1,234	Long tons (000). 414 271 142	Sq.yds. (000,000) ² 596 374 244	Long tons (000). 6,117 2,078 2,055	Pounds (000,000) 181 158 98	Pounds (000,000) 67 73 63	Pounds (000). 6,927 4,025 4,792	Pounds (000). 5,189 6,277 2,469	Gross tons. (000). 2,003 3 603 3,313	Tons (000). 5,652 3,049 3,032	Per cenu.
November	16,589 16,517 321,090 17,875 322,594	94 158 236 272 275	434 429 405 444 381	321 322 304 330 292	1, 194 1, 060 1, 123 1, 216 1, 271	77 133 156 194 205	214 268 345 366 333	3, 103 3, 407 3, 406 3, 594 4, 309	63 74 733 195 166	75 63 57 67 84	6,088 7,655 6,407 8,967 7,875	1, 549 2, 636 4, 226 4, 504 3, 800	3, 283 2, 640	3,777 4,104 4,056 3,944 4,003	13.2 12.2 12.8 15.7 16.2
May June July August	19,921 ³ 22,875 19,146 15,827 23,135 19,151	288 300 394 408 369 399 412 430	328 415 549 404 462 400 473 528 556	271 321 369 294 334 316 342	$\begin{array}{c} 1,298\\ 1,240\\ 1,112\\ 1,181\\ 1,143\\ 1,111\\ 890\\ 864\\ 853\end{array}$	253 224 296 258 272 236 252 270 279	342 254 307 305 345 315 447 381 400	4,021 4,014 5,201 4,097 5,057 4,794 5,064 6,146 7,083	134 99 83 101 120 127 111 81 60	90 112 123 117 138 97 79 107 52	4, 557 12, 184 4, 568 3, 164 2, 994 2, 772 7, 390 7, 281 7, 339	4, 186 12, 882 4, 102 3, 590 2, 471 3, 393 2, 982 4, 422 3, 616	2, 236 	3,919 3,903 4,814 4,184 5,104 4,975 4,828 5,885 5,731	16. 2 15. 2 14. 6 14. 4 13. 5 12. 7 12. 3 12. 0 11. 9

¹ Figures for end of the month.

² Expressed in yards.

³ Figures for 5 weeks.

FRANCE.

PRODUCTION. EXPORTS. IMPORTS. TRANSPORTATION. Unem-Cotton ployed receiving municipal stocks Raw Year and month. Raw silk for Receipts of at Havre.1 Coal for cotton for Crude Vessels Pig iron. Total. Total. aid in Paris. consumpprincipal railways.2 consump tion. steel. consumpcleared. tion. tion. Metric tons. 27,428 19,577 16,666 Bales ³ (000). 274 225 Metric tons (000) 1,558 2,005 1,472 Tons (000). 2,176 1,412 1,802 Francs (000). 5 165, 892 479, 894 516, 397 Metric tons (000) 4 391 Metric Metric Metric Metric Monthly average: 1913..... 1920..... tons (000) 1,840 1,071 1,333 *Metric* tons (000) 3,685 4,211 3,165 tons (000) Number. tons. 629 3, 022 20, 671 286 280 254 255 390 206 1921..... 169 1921. 1,035 1,172 1,252 1,515 2,507 2, 593 3, 993 2, 809 5, 161 5, 197 255 244 256 295 301 232 236 260 277 10, 700 11, 769 25, 757 29, 059 30, 835 2,039 1,972 2,007 1,862 1,992 August.... September October... November December... 132 131 181 192 202 261 385 277 1, 065 1, 874 1, 301 3, 291 2, 895 9, 706 7, 486 5, 348 3, 730 4, 175 518, 517 697, 979 483, 216 641, 887 208 302382 1922. 1922. January. Pebruary. March. April. May. June. June. July. August. September. 1,676 2,153 2,081 1,538 2,058 1,829 1,631 1,767 1,735 1,744 1,934 2,088 2,340 2,473 2,523 2,399 454, 323 468, 175 472, 779 608, 764 472, 607 504, 431 651, 720 546, 310 720, 210 $14,870 \\ 14,714 \\ 20,978 \\ 17,391 \\ 18,090 \\ 32,380 \\ 26,325 \\ 16,325 \\ 16,325 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 14,100 \\ 1$ 1,554 1,520 1,570 1,794 1,538 1,799 1,936 1,788 2,616 312 323 386 383 442 416 428 447 315 188 502 467 408 207 404 391 566 579 3,396 4,126 4,434 3,787 4,396 4,307 4,223 4,512 4,1384,658 4,385 3,546 2,447 1,636 958 602 606 410 317 367 324 163 127 138 169 145 153 364 358 369 397 135 16,291 99 720,210

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

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	PRODU	CTION.		EXPO	ORTS. ¹			IMP	ORTS. ¹		SHIPI	PING.	UNEM ME	
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 vesso Ham	lsin	Appli- cants for every 100 avail- able posi- tions.	Unem- ployed persons receiv- ing State aid.
Monthly average: 1913 . 1920 . 1921 .	Metric. tons (000). 17,003 13,043 13,664	Metric. tons (000). 7,266 9,303 10,241	<i>Metric</i> <i>tons.</i> 541, 439 145, 883 203, 681	Metric tons. 60,919 ⁵ 46,772 39,037	Metric tons. 21, 812 8, 462 8, 530	Metric tons. 2, 881, 126 608, 749 518, 937	Metric tons. 16,608 54,025 11,860	Metric tons. 920 5 232 393	Metric tons. 43, 424 12, 490 30, 894	<i>Metric</i> <i>tons</i> . 1, 224, 951 537, 535 619, 194	Number. 1,256 401 700	Tons. (000). 1,182 374 794	Number. 169 165	Number (000). 366 310
1921. September October November December	13, 974 13, 885 14, 373 14, 052 14, 343	10,606 10,359 10,567 10,479 11,029	240,071 225,331 246,115 233,204 214,812	37, 456 34, 615 33, 067 35, 697 46, 397	9,618 10,156 10,255 9,953 9,212	613, 739 649, 158 576, 048 569, 657 640, 877	$14,725 \\17,688 \\12,506 \\12,628 \\10,984$	328 447 774 346 388	52, 433 28, 766 29, 739 27, 242 28, 313	356, 397 564, 827 919, 822 937, 268 790, 811	942 957 915 838 - 503	955 1,018 1,047 881 873	142 132 128 136 148	267 232 186 150 149
1922. January. Kebruary. March April. May. June. July. August. September.	13,800 14,670 11,416	10, 978 10, 091 12, 260 10, 634 11, 437 10, 487 11, 411 12, 147	221, 743 172, 709 211, 979 200, 677 209, 432 213, 220 212, 365 198, 408	39, 470 45, 689 48, 813 46, 112 47, 354 49, 347 44, 162 50, 978	9, 552 9, 332 12, 299 11, 095 12, 629 16, 335 12, 671 12, 616	752, 340 669, 433 795, 200 795, 940 701, 941 528, 766 199, 961 121, 359	10, 400 26, 202 26, 988 24, 091 25, 619 15, 723 14, 119 11, 011	347 383 440 462 486 436 436 435 459	23, 426 17, 915 26, 130 24, 070 26, 112 22, 037 26, 085 20, 915	941, 972 492, 705 809, 722 865, 778 1, 519, 365 1, 159, 329 961, 768 996, 962	745 461 894 972 1,143 1,092 793 1,005 945	$\begin{array}{r} 875\\716\\969\\1,112\\1,244\\1,287\\1,065\\1,171\\1,208\end{array}$	150 145 113 113 107 103 106 109 122	$ \begin{array}{c} 165\\203\\213\\116\\65\\29\\20\\15\\\end{array} $

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 inters.
 ⁴ Includes manganese ore.
 ⁵ Average based on 6 months.
 ⁶ Coal, excluding coke.

SWEDEN.

	PRODU	CTION.	EXPO	DRTS.	IMPORTS.	TR.	ANSPORTATIO	ON.	Unem-
Year and month.	Pig lron.	Iron and steel ingots.	Unplaned boards.	Paper pulp.	Coal.	Vessels entered.	Vessels cleared.	Freight carried on State railways.	ployed workmen per 100 vacancies.
Monthly average: 1913 1920	Metric tons (000). 61 39 26	Metric tons (000). 49 37 17	Cubic meters (000). 328 306 162	Metric tons (000). 71 73 40	Metric tons (000). 408 234 122	-Net tons (000). 1,147 677 519	Net tons (000). 1,147 692 482	Metric tons (000). 830 991 589	Number. 112 107 276
1921. August September October November December	16	15 16 16 22 17	205 325 370 361 356	66 49 54 99 104	148 279 219 192 246	592 609 670 601 575	536 530 595 578 582	575 566 691 721 558	235 227 263 384 473
1922. January February March April Jule June July August September	22 19 24 21 19	13 17 22 21 31 31 24 27	87 25 63 66 99 500 608 539 508	28 11 36 21 76 80 89 104 113	114 62 197 206 230 172 214 294 229	442 285 617 524 600 596 625 694	409 255 509 485 633 738 787 836	485 630 730 622 578 645 715 765	482 479 381 368 257 217 203 172

JAPAN.

Tant file shake office a figure file of the state of figure	PF	ODUCTIO	 N.	Raw	····· ··· ··· ·	EXP	ORTS.			IMPORTS.		TRAN	NSPORTAT	non.
Year and month.	Cotton yarns.	Silk fabrics (habu- taye).	Paper.	silk stocks, Yoko- hama mar- ket.		Silk fabrics (habu- taye).	Cotton yarns.	Sheet- ings and shirt- ings, gray.	Raw cotton, ginned.	Wool.	Tron plates and sheets.	Vessels cleared in foreign trade.	carried	Re- ceipts of State rail- ways.
Monthly average: 1913 1920 1921	Bales (000). 126 151 151	Hiki 1 (000). 149	Pounds (000). 44, 538	Bales. 53, 111 58, 477	Piculs. ² 16, 857 14, 557 21, 836	Piculs. 2,302 2,264 1,702	Piculs. 113, 374 74, 839 73, 064	Yards (000). 7,921 28,465 23,210	Piculs (000). 537 648 718	Piculs. 13, 162 46, 918 22, 277	Piculs (000). 132 528 312	<i>Tons</i> (000). 2,075 2,216 2,324	Tons (000). 2,923 4,548 4,342	Yen (000). 11,723 27,589 31,182
1921. July September October November December	140 136 149 159 168 178	158 144 136 145 170 169	44, 632 46, 244 45, 559 45, 969 45, 658 46, 781	56, 283 55, 012 59, 450 53, 535 48, 832 44, 766	22,684 25,808 22,563 24,006 29,169 37,250	$1,447 \\1,896 \\1,632 \\1,253 \\1,855 \\1,857$	54, 158 44, 479 36, 996 53, 506 53, 484 68, 032	24,406 19,080 13,309 13,289 16,707 20,382	671 899 893 685 696 646	38,610 17,799 32,246 34,013 14,639 24,064	$182 \\ 323 \\ 101 \\ 218 \\ 296 \\ 371$	2, 419 2, 552 2, 328 2, 491 2, 611 2, 718	$\begin{array}{r} 4,229\\ 4,141\\ 4,286\\ 4,625\\ 4,610\\ 4,922 \end{array}$	29, 971 32, 958 30, 580 34, 960 31, 729 32, 520
1922. January February March April. May June June June	184	166 129 153 110 160 173	46, 488 46, 605 49, 644 52, 687 53, 975 52, 791	40, 561 32, 213 44, 701 40, 777 18, 293 18, 547 45, 484	16, 924 18, 102 16, 647 27, 380 35, 147 29, 569 34, 541	1, 080 1, 551 2, 003 1, 669 1, 977 2, 176 1, 793	$\begin{array}{c} 61,414\\ 63,719\\ 123,605\\ 138,226\\ 146,354\\ 139,057\\ 51,660\end{array}$	19, 124 24, 990 24, 194 24, 725 25, 821 29, 713	1, 161 1, 168 1, 084 707 580 490 433	41, 724 93, 411 64, 865 76, 416 24, 753 68, 415 37, 431	462 594 637 582 752 890	2, 749 2, 817 3, 094 2, 971 3, 287 3, 024 2, 987	$\begin{array}{c} 4,102\\ 4,261\\ 5,066\\ 4,968\\ 5,225\\ 4,965\end{array}$	28, 576 28, 036 36, 337 42, 074 38, 486 32, 180

¹ One hiki equals two pieces.
 ² A pical 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, India, Canada, Brazil, Japan, and the United States.

[In thousands of pounds sterling.]

		IMPORTS	•				EXPORTS	•		1. 1	
Year and month.	Food, mi drink, rial and ma	aw Articles s and icles inly inly anu- factured	laneous, includ- ing	i -	Food, drink, and tobacco.	Raw mate- rials and articles mainly unmanu- factured.	mainly	Miscel- laneous, includ- ing parcel post.	Total.	Reex- ports.	Total exports and roex- ports.
Monthly average: 1913. 1920. 1921.	63,817 59	,485 16,134 ,196 37,787 ,598 20,421	259 254 268	64,061 161,387 90,557	2,716 4,245 3,122	5, 825 12, 126 5, 297	34, 281 93, 312 49, 055	949 1, 523 1, 126	43,770 111,206 58,600	9, 131 18, 563 8, 921	52, 901 129, 769 67, 521
1921. September October November December	48, 410 20 44, 475 21 41, 246 29 39, 063 27	,465 17,905 ,256 18,691 ,946 17,913 ,792 18,291	338 320 154 165	87, 119 84, 742 89, 259 85, 312	3, 300 3, 466 3, 586 3, 187	6, 997 7, 359 7, 046 7, 44 6	44,009 50,328 51,094 47, 364	942 1,113 1,169 1,378	55, 248 62, 265 62, 895 59, 375	8, 595 10, 386 9, 823 9, 204	63, 843 72, 651 72, 718 68, 579
1922. January February March April. May Jume July August September	33,972 24 32,257 20 45,261 22 40,097 21 43,075 25 39,936 25 38,817 24 37,762 24	565 17,710 220 16,576 095 20,309 404 18,962 358 20,207 242 18,857 237 18,579 141 20,326 848 19,244	215 199 176 263	76, 488 69, 375 87, 879 80, 661 88, 814 84, 298 81, 784 82, 661 76, 944	3,270 3,011 3,045 3,044 2,806	7,032 6,869 8,465 7,376 8,757 7,671 8,041 8,900 10,099	51,824 48,000 51,760 44,336 45,073 40,556 48,455 47,149 48,361	1,429 712 1,085 785 1,171 875 1,117 878 897	63, 147 58, 335 64, 581 55, 508 58, 045 52, 146 60, 419 60, 032 62, 511	8,459 10,174 10,154 9,200 8,965 8,720 8,317 7,504 6,381	$\begin{array}{c} 71,606\\ 68,509\\ 74.735\\ 64,708\\ 67,010\\ 60,866\\ 68,736\\ 67,536\\ 68,892 \end{array}$

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FOREIGN TRADE OF FRANCE.¹

IMPORTS.						EXPORTS.						
Year and month.		In thousan	ds of francs.		In	In thousands of francs.					In thou-	
	Food.	Raw mate- rials.	Manufac- tured articles.	Total.	thou- sands of metric tons.	Food.	Raw mate- rials.	Manufac- tured articles.	Parcel post.	Total.	sands of metric tons.	
Monthly average: 1913 1920 1921	151, 465 989, 576 517, 158	412, 144 2, 096, 379 1, 033, 170	138, 169 1, 072, 787 412, 045	701, 778 4, 158, 741 1, 962, 373	3, 685 4, 211 3, 165	69,908 217,733 161,031	154, 841 509, 485 463, 219	301, 421 1, 413, 548 1, 067, 413	47, 182 100, 479 104, 430	573, 351 2, 241, 245 1, 796, 092	1, 840 1, 071 1, 333	
1921. September October November December	691, 972 717, 091 564, 012 754, 671	1, 204, 213 1, 191, 860 1, 446, 125 1, 856, 148	329, 494 318, 000 323, 593 543, 445	2,226,951	3, 993 2, 809 5, 161 5, 197	146, 467 132, 424 157, 180 259, 605	482, 376 478, 875	 1, 087, 443 1, 041, 594 992, 256 1, 193, 161	95, 852 103, 078 120, 343 180, 059	1, 774, 653 1, 759, 472 1, 748, 654 2, 182, 320	1, 172 1, 252 1, 515 2, 507	
1922. ² January March April May June ³ July st September	$\begin{array}{c} 352, 572\\ 385, 021\\ 460, 765\\ 438, 000\\ 504, 000\\ 483, 356\\ 476, 813\\ 510, 597\\ 473, 000 \end{array}$	1,137,855 1,005,463 983,000	465,737 323,000 310,000 285,448 318,169 352,229		3, 396 4, 126 4, 434 3, 787 4, 396 4, 307 4, 223 4, 512 4, 138	121, 526 153, 892 130, 595 136, 000 132, 000 113, 435 179, 407 141, 000	448,455 456,930 461,000 498,000 374,959 408,005	994,852 1,106,507 1,189,712 1,231,000 1,127,000 885,029 931,066 1,055,000	134,000 111,000 59,619 157,836	$1,638,741 \\1,853,312 \\1,876,668 \\1,962,997 \\1,886,964 \\1,433,042 \\1,676,000 \\1,741,000 \\1,741,000 \\1,880,964 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,900 \\1,$	1,799 1,936 1,788	

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

FOREIGN TRADE OF GERMANY.

		IMPORTS.1			EXPORTS.2	
Year and month.	Gold and	Merch	andise.	Gold and	Merch	andise.
•	silver (in thousands of marks).	In millions of marks.	In thou- sands of metric tons.	silver (in thousands of marks).	In millions of marks.	In thou- sands of metric tons.
Monthly average: 1913. 1020. 1921 ^s		890 9, 910	6,073 1,570 2,194	8,450 17,773 34,901	841 5,776 8,295	6, 141 1, 651 1, 715
1921. September. October. November. December.	35,765 26,674 60,693 5,312 4,922	9,382 10,642 13,814 12,273 13,702	2,111 2,533 3,005 2,535 2,086	13,514 26,832 30,013 44,073 86,227	7,492 9,681	1,828 1,871 1,973 1,908 1,930
1922. February March A pril May June July August	$\begin{array}{r} 46,409\\7,566\\12,315\\31,910\end{array}$	$12,641 \\ 12,001 \\ 22,919 \\ 28,266 \\ 32,417 \\ 34,364 \\ 45,748 \\ 56,472$	$\begin{array}{c} 2,309\\ 1,475\\ 2,645\\ 2,889\\ 3,810\\ 4,029\\ 4,798\\ 4,676\end{array}$	134,05457,42546,89851,45175,844109,298124,178152,906	14, 394 14, 482 21, 283 22, 948 27, 080 30, 232 35, 708 60, 295	2,027 1,747 2,153 2,176 2,093 1,880 1,636 1,407

Not including philanthropic gifts.
 Not including deliveries on reparations account.
 Average for 8 months. Figures covering first 4 months of 1921 are not available.

Note.—Currencies have not been converted to a common unit, nor are methods of valuation the same in all coun-tries. In England, Sweden, India, Japan, and Brazil imports are given c. i. f. values; exports and reexports current f. o. b. values. In France and Italy the value of foreign trade is estimated not in terms of current prices, but in terms of those of some earlier period, usually the preceding year. In the Netherlands imports are given in declared values for about 110 articles of the import schedule. In other cases official valuations are applied to both imports and exports. Canadian imports and exports are quoted at the fair market value at the point of origin. In the United States imports represent either actual foreign market value or the export value including any export tax imposed by the country of exportation, whichever is higher; exports are expressed in terms of their value at the time of exporta-tion, with the exception of reexports from bonded warehouses, which are expressed in their import value.

Year and month.	(In mil	ly. llions of re.)		rlands. lions of lers.)	(In mil	den. lions of 10 r.)	(In mil	ada. llions of ars.)	(In mil	azil. llions of reis.)	(In mi	lia. lions of pees.)	(In mi	oan. llions of n.)
	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	304 1,322 1 1,041	210 650 1 657	(²) 278 187	(²) 142 114	71 281 106	68 191 91	56 89 103	31 107 101	84 174 141	82 146 142	134 173 280	205 272 214	61 195 135	53 162 104
1921. July August September October November December	557 981 962 1,101 1,125 1,521	441 587 659 683 718 856	189 171 187 197 179 176 180	121 105 143 136 115 107 97	93 98 103 126 101 95 112	69 94 113 105 99 103 108	$58 \\ 62 \\ 65 \\ 60 \\ 60 \\ 64 \\ 60$	60 56 62 60 81 88 87	$128 \\ 163 \\ 104 \\ 101 \\ 112 \\ 96 \\ 113$	$123 \\ 162 \\ 144 \\ 183 \\ 166 \\ 155 \\ 175 \\ 175 \\ 175 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 \\ 123 $	195 177 208 197 235 264 232	165 173 196 200 182 199 218	148 110 132 129 130 152 161	$107 \\ 99 \\ 106 \\ 96 \\ 112 \\ 121 \\ 146$
1922. January	1, 169 1, 313 1, 248		$\begin{array}{c} 152\\ 153\\ 180\\ 167\\ 194\\ 151\\ 164\\ 179\\ 165\\ \end{array}$	$\begin{array}{c} 86\\ 86\\ 113\\ 93\\ 108\\ 101\\ 105\\ 100\\ 128\\ \end{array}$	$\begin{array}{c} 77\\ 49\\ 109\\ 102\\ 97\\ 93\\ 83\\ 105\\ 109\\ \end{array}$	61 38 71 60 90 104 113 132 123	$51 \\ 54 \\ 79 \\ 48 \\ 66 \\ 62 \\ 61 \\ 67 \\ \ldots$	47 47 61 33 70 73 72 74	92 101 131 127 127 129 109 146	199 161 172 187 141 149 154 182	276 189 215 178 191 164 182 212	230 222 277 239 273 192 244 252	179 198 208 185 169 157 142 137 134	87 101 115 129 154 146 144 145 149

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

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

FOREIGN TRADE OF UNITED STATES.

[In thousands of dollars.]

		IMPORTS.								EX	PORTS.					
	Merchandise.						Merchandise.									
Year and month.	Gold.	Silver.	mate- rials	condi- tion and	stuffs partly	Manu- fac- tures for further use in manu- factur- ing.	fac- tures ready for con-	Total mer- chan- dise. ¹	Gold.	Silver.	Crude mate- rials for use in manu- factur- ing.	in crude condi- tion and	Food- stuffs partly	Manu- fac- tures for further use in manu- factur- ing.	Manu- fac- tures ready for con- sump- tion.	Total mer- chan- dise. ²
Monthly average: 1913 1920 1921	5,309 34,756 57,606	7,338	145,995	48,136	103,178	66,871	73,060	149,383 439,873 209,085	7,650 26,841 1,991	9,468	155,897	76,499	27,069 93,050 55,809	79,875	267,071	207,002 685,668 373,760
1921. September October November December	66,515 47,110 51,860 31,685	$7,510 \\ 5,912$	59,460	23,326 29,338	23,883 26,205	27,707 30,398	51,665 53,365	179,283 188,028 211,027 237,373	2,449 7,576 607 2,162	4,782 4,804	68, 391 121, 322 88, 545 89, 950	40,205 30,052	41,449	28,129 33,260	98,323 95,538	325,774 343,597 294,437 296,306
1922. January February April May June July August September	26, 571 28, 701 33, 488 12, 244 8, 994 12, 969 42, 987 19, 092 24, 464	4,771 6,953 4,800 5,512 6,346 6,957 4,944	80,971 86,910 69,804 88,088 91,146	22, 370 28, 756 25, 711 31, 264 26, 170 27, 596 22, 489	27,762 36,014 32,482 34,785 37,346 38,511 42,404	34,041 42,820 37,252 39,398 46,471 48,398 48,430	49, 375 59, 880 50, 820 58, 254 58, 439 49, 464 55, 858	256, 178 217, 073 252, 817 260, 391 252, 128 281, 412	$\begin{array}{c} 863\\ 1,732\\ 963\\ 1,579\\ 3,407\\ 1,601\\ 645\\ 956\\ 1,399\end{array}$	7,092 4,302 5,109 5,677 6,004 6,289 3,861	73,001 79,511 64,441 70,219 60,024	27,799 34,507 31,174 34,143 41,000 41,958 61,339	45, 164 58, 899 47, 372 50, 376 55, 485 40, 226 40, 071	32, 193 43, 632 37, 969 40, 467 39,086 35, 676	84, 684 112, 765 113, 876 112, 112 121, 284 109, 544 104, 871	330, 267 318, 100 307, 689

¹ Including miscellaneous merchandise imported. ² Including miscellaneous and foreign merchandise exported.

FOREIGN TRADE INDEX.

There are presented below the usual indexes designed to reflect the movements in foreign trade of the United States, with the fluctuations due to price changes eliminated. The commodities chosen for these indexes are those for which prices are compiled by the Federal Reserve Board in the preparation of its international price index.¹

INDEX OF VALUE OF FOREIGN TRADE IN SELECTED COMMODITIES AT 1913 PRICES.

[Monthly average values, 1913-100.]

1										
	_	Exp	orts.		Imports.					
	Raw mate- rials (12 com- modi- ties).	Pro- duc- ers' goods (10 com- modi- ties).	Con- sum- ers' goods (7 com- modi- ties).	Total (29 com- modi- ties).	Raw mate- rials (10 com- modi- ties).	Pro- duc- ers' goods (12 com- modi- ties).	Con- sum- ers' goods (5 com- modi- ties).	Total (27 com- modi- ties).		
1913, year 1919, year 1920, year 1921, year	100. 0 88. 9 92. 2 103. 1	100.0 155.1 158.7 116.9	100. 0 183. 6 133. 6 124. 1	100.0 115.3 107.5 108.9	100.0 157.5 135.8 113.6	100.0 192.9 227.5 162.8	100.0 147.5 138.8 141.4	100. 0 168. 4 168. 8 135. 6		
1921. January February March April May June July August September. October November. December.	91.0 78.0 76.5 97.6 107.9 111.6 142.7	$\begin{array}{c} 208.6\\ 162.4\\ 135.1\\ 132.5\\ 96.4\\ 94.2\\ 78.6\\ 99.6\\ 89.7\\ 107.0\\ 100.2\\ 96.0 \end{array}$	$126.2 \\ 119.4 \\ 120.2 \\ 116.4 \\ 110.8 \\ 132.2 \\ 133.8 \\ 160.7 \\ 142.3 \\ 113.2 \\ 106.2 \\ 107.8 \\ 107.8 \\ 107.8 \\ 100.2 \\ 107.8 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.2 \\ 100.$	$\begin{array}{c} 120.2\\ 104.1\\ 92.7\\ 90.5\\ 100.3\\ 111.5\\ 112.9\\ 142.1\\ 118.6\\ 118.4\\ 98.1\\ 96.9 \end{array}$	74.5 118.2 160.6 153.3 98.7 94.5 99.3 116.8 102 8 96.1 115.1 133.0	130, 9 143, 7 177, 2 177, 6 150, 0 152, 3 126, 6 165, 1 137, 7 173, 5 199, 4 219, 1	$123.9 \\135.4 \\178.9 \\185.1 \\162.1 \\130.4 \\121.4 \\129.8 \\99.3 \\116.5 \\149.2 \\164.8 \\$	102.6 130.1 169.5 167.1 127.2 120.8 112.6 136.0 114.6 126.9 150.6 168.7		
1922. January February March April July July August September.	82.6 68.5 89.8 90.5 78.3 86.3 79.1 88.8 91.2	104.3 86.0 121.7 120.9 128.8 124.3 124.0 90.0 98.9	129.7 127.6 156.5 150.5 155.4 169.2 133.5 126.3 111.5		118.4 123.3 148.1 125.5 144.6 148.7 146.9 174.2 143.3	228.7 281.3 306.8 236.1 227.9 273.3 266.3 255.5 182.7	135. 2 133. 5 161. 1 152. 0 168. 0 137. 3 137. 5 120. 3 90. 6	160. 1 183. 4 206. 5 169. 1 177. 9 191. 0 187. 7 194. 2 148. 6		

Volume of exports in September was practically the same as in August. Raw materials and producers' goods showed increases, but were counterbalanced by declines in consumers' goods. The only raw materials which declined during September were wheat, corn, lumber, and refined copper. Cotton and bituminous coal showed the most pronounced gains, and the total of raw materials exported was larger than for any month this year. Small gains in all producers' goods except sole and

upper leather and structural steel and steel plates brought the total considerably above last month. A continued decrease in the exports of sugar was mainly responsible for the lowering of total exports of consumers' goods. Lard and illuminating oil also decreased.

All classes of imports registered decided declines during September. Refined copper was the only incoming raw material which showed a gain over August. Raw silk and cotton each declined more than 30 per cent and tobacco over 50 per cent. Large decreases were also noted in hides and skins, lumber, tin, and pulp wood. In producers' goods the most marked reductions occurred in imports of india rubber and cane sugar, while burlap showed the only pronounced gain. As is usual in September, all items listed as consumers' goods showed decreases. Imports of tea declined 18 per cent, coffee 14 per cent, olive oil and cocoa over 30 per cent, and bananas over 40 per cent.

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. For the methods used in constructing the index see the August, 1921, BULLETIN, pages 931-934.

Relative Ocean Freight Rates in United States and Europe Trade.

[January, 1920, rates=100.]

		United States Atlantic ports to										
Month.	United King- dom.	French Atlantic.	Nether- lands and Belgium.	Scandi- navia.	Medi- terra- nean.	All Europe.						
1921. January February March. April May June July July September October November December	42.5 42.9	30, 2 27, 7 24, 6 32, 6 35, 0 34, 7 33, 2 33, 4 32, 7 28, 5 25, 0 22, 7	34. 1 29. 2 28. 3 36. 6 38. 2 38. 3 37. 0 36. 7 35. 8 30. 7 25. 2 22. 9	42. 9 30. 9 30. 8 29. 4 31. 3 31. 3 29. 0 28. 4 28. 2 26. 7 24. 0 23. 3	43. 2 43. 8 42. 2 35. 7 34. 6 34. 0 34. 7 34. 3 33. 6 33. 3 32. 9 32. 3	43, 3 38, 5 35, 9 39, 0 40, 1 37, 6 36, 8 36, 7 36, 0 32, 3 28, 8 27, 2						
1922. January February March July June July September October	34.7 33.1 27.3 27.9 27.5 28.8 29.2	22.7 25.7 26.5 24.8 25.5 26.1 25.9 23.4 24.1 23.9	25. 2 24. 9 22. 7 22. 8	23. 4 23. 3 23. 4 24. 0 23. 4 23. 4 23. 4 23. 0 22. 4 22. 6 22. 9	32. 2 31. 8 30. 1 27. 1 27. 4 26. 4 24. 0 22. 2 21. 6	27. 1 29, 1 28. 3 25. 4 25. 7 25. 7 25. 7 25. 9 24. 6 23. 4 22. 7						

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.

SAVINGS DEPOSITS.

Comparison of savings deposits on October 1, 1922, with deposits on September 1, 1922, and October 1, 1921, are shown for 881 banks distributed throughout all sections of the United States. The figures for districts No. 1 and No. 2 are those of large mutual savings banks, but in all other districts reports of other banks are included to make the figures thoroughly representative. In all districts where reporting commercial banks subdivide their time deposits, statistics of savings deposits subject to notice (excluding time certificates of deposit) are used. This is in accordance with the definition given in the board's regulation D, series of 1920.

During September the volume of savings deposits increased in nine Federal reserve districts. Declines were registered in districts No. 3 (Philadelphia), No. 6 (Atlanta), and No. 11 (Dallas). The largest gain was shown in district No. 5 (Richmond) and amounted to 1.8 per cent. During the year ending October 1 savings deposits increased in all districts. The most important increases were 12.8 per cent in district No. 8 (St. Louis) and 13.2 per cent in district No. 11 (Dallas).

[Amounts in thousands of dollars.]

District.	Num- ber of banks.	Oct. 1, 1922.	Sept. 1, 1922.	Oct. 1, 1921.
No. 1 (Boston) No. 2 (New York) No. 3 (Philadelphia) No. 4 (Cleveland) No. 5 (Richmond) No. 6 (Atlanta) No. 7 (Chicago) No. 8 (St. Louis) No. 9 (Minneapolis) No. 10 (Kansas City) No. 11 (Dallas) No. 12 (San Francisco)	$\begin{array}{c} 64\\ 30\\ 80\\ 18\\ 93\\ 78\\ 219\\ 35\\ 15\\ 61\\ 113\\ 75\\ \end{array}$	$\begin{array}{c} 1,108,924\\ 1,744,493\\ 420,090\\ 383,995\\ 274,199\\ 159,103\\ 785,767\\ 117,136\\ 80,827\\ 90,327\\ 73,454\\ 782,673\\ \end{array}$	$\begin{array}{c} \mathbf{1, 104, 435} \\ \mathbf{1, 728, 310} \\ \mathbf{422, 128} \\ \mathbf{380, 941} \\ \mathbf{260, 220} \\ \mathbf{159, 694} \\ \mathbf{778, 906} \\ \mathbf{116, 715} \\ \mathbf{79, 195} \\ \mathbf{88, 686} \\ \mathbf{73, 699} \\ \mathbf{772, 150} \end{array}$	$\begin{array}{c} 1,061,285\\ 1,657,028\\ 409,904\\ 379,358\\ 245,192\\ 151,942\\ 765,278\\ 103,788\\ 76,611\\ 81,950\\ 64,888\\ 709,498 \end{array}$
Total	881	6, 020, 988	5, 974, 079	5, 706, 722

REPORT OF KNIT GOODS MANUFAC-TURERS OF AMERICA.

The total production of winter and summer underwear for August is compared with previous months in the following table:

1922	Number of mills report- ing.	Actual produc- tion (dozens).
April. May June July August September Winter underwear (September) Summer underwear (September).	47 47 50 49 52 42	$\begin{array}{c} 522,035\\ 518,150\\ 564,893\\ 422,872\\ 519,511\\ 513,572\\ 318,220\\ 195,352\\ \end{array}$

Order and production report for month ended September 30, 1922, follows. The number of mills reporting was 43.

	Dozens.
Unfilled orders 1st of month	1.370.492
Unfilled orders 1st of month New orders received during month	494, 998
Total (A)	1, 865, 490
Shipments during month	
Shipments during month Cancellations during month	8, 597
Total (B)	595, 460
Total (B) Balance orders on hand Oct. 1 (A-B)	1, 270, 030
Production	457, 941

Forty representative mills which reported for August and September, 1922, furnish the data for the following table:

[In dozens.]

	August (40 mills).	Septem- ber (40 mills).	Gain.	Loss.
Unfilled orders end of month.	992, 183	826, 806		165, 377
New orders.	363, 476	291, 309		72, 167
Shipments.	505, 110	456, 686		48, 424
Cancellations.	11, 782	8, 597		3, 185
Production.	399, 503	358, 342		41, 161

NOVEMBER ESTIMATE OF CORN PRO-DUCTION.

Following is a table showing, by Federal reserve districts, the preliminary estimate of corn production issued by the United States Department of Agriculture as of November 1, 1922, compared with the forecast made in October and the estimate for 1921:

PRODUCTION OF CORN, BY FEDERAL RESERVE DISTRICTS. [Nov. 1, 1922, estimate of the Department of Agriculture. In thousands of bushels.]

Federal reserve district.	Prelimi- nary esti- mate for 1922 (Nov. 1).	Oct. 1, 1922, forecast.	Prelimi- nary esti- mate for 1921.
Boston New York Philadelphia Cleveland Richmond Atlanta. Chicago St. Louis Minneapolis Kansas City	33, 564 64, 000 208, 100 180, 288 207, 651 978, 997 394, 428 270, 167 392, 203	$\begin{array}{c} 13,256\\ 36,260\\ 59,416\\ 204,684\\ 177,638\\ 204,128\\ 966,204\\ 391,149\\ 265,326\\ 383,448\\ 100\\ 172\end{array}$	$14, 447 \\ 42, 872 \\ 69, 416 \\ 209, 377 \\ 173, 687 \\ 250, 255 \\ 967, 277 \\ 416, 543 \\ 302, 344 \\ 442, 158 \\ 180, 900 \\ 900 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ 100 \\ $
Dallas San Francisco Total	141,641 11,849 2,896,108	140, 178 11, 712 2, 853, 399	180, 803 11, 193 3, 080, 372
			[

The preliminary estimate shows an increase of 43,000,000 bushels in corn production, compared with the forecast made in October, the crop being larger in every important producing district. Compared with 1921, however, this year's corn crop is lower by 194,000,000 bushels, and compared with the average for the five years 1917-1921, this year's corn production falls short by about 52,000,000 bushels, or 2 per cent.

PRODUCTION AND SHIPMENT OF FINISHED COTTON FABRICS.¹

		Aug	gust.			Septe	mber.	
	White goods.	Dyed goods.	Printed goods.	Total.	White goods.	Dyed goods.	Printed goods.	Total.
Total finished yards billed during month: District 1. District 2. District 3. District 5. District 6. District 6.	16,088,423 8,026,229 7,761,719 8,252,955 642,979	24, 544, 825 1, 664, 778 6, 630, 080 57, 769 1, 743, 314	9,814,405 3,285,016	52, 627, 483 16, 684, 216 14, 391, 799 8, 310, 724 2, 386, 293 2, 478, 968	12,260,2086,892,5537,855,0348,278,347456,394	7,534,986	10, 145, 265 1, 575, 782	47, 246, 265 15, 327, 972 15, 390, 020 8, 289, 209 2, 066, 826 2, 221, 251
Total	40,772,305	34,640,766	13,099,421	96, 879, 483	35, 742, 536	32,765,740	11,721,047	90, 541, 543
Total average per cent of capacity operated: District 1 District 2. District 3 District 5 District 6 District 6 District 8	69 73 97 66 0	82 44 82	53 32	66 50 89 66 72 100	57 72 100 76 0	75 35 83	50 28 	61 54 92 76 57 93
A verage for all districts	72	77	49	66	69	71	46	65
Total gray yardage of finishing orders received: District 1 District 2. District 3 District 5 District 6 District 8	12, 962, 333 5, 434, 130 7, 935, 135 6, 976, 466 89, 372	22, 413, 399 2, 714, 687 7, 252, 518 55, 324 2, 516, 157	8, 445, 379 2, 962, 776	46, 372, 919 13, 800, 942 15, 187, 653 7, 031, 790 2, 605, 529 2, 249, 921	14, 440, 389 8, 363, 226 8, 490, 015 9, 495, 300 68, 873	$\begin{array}{c} 27,877,701\\ 3,354,301\\ 6,985,722\\ 60,649\\ 1,946,637\end{array}$	8, 836, 215 4, 301, 759	54, 911, 459 21, 338, 973 15, 475, 737 9, 555, 949 2, 015, 510 2, 553, 278
Total	33, 397, 436	34, 952, 085	11, 408, 155	87, 248, 754	40,857,803	40, 225, 010	13, 137, 974	105,850,906
Number of cases of finished goods shipped to customers: District 1 District 2 District 3 District 5 District 6 District 8	6, 174 3, 022 4, 797 1, 501 0	7, 424 139 2,690	3,318	28, 353 7, 692 7, 487 3, 783 0 733	4,866 4,503 5,285 1,584 0	7,004 340 3,034	2,775	26, 905 9, 883 8, 319 4, 235 0 502
Total	15,494	10,253	3,318	48,048	16,238	10,378	2,775	49,844
Number of cases of finished goods held in storage at end of month: District 1 District 3. District 3. District 5. District 6. District 6. District 8.		5,685 361 410	2,397	23, 743 12, 476 7, 314 1, 351 430 212	4,812 6,848 285	5, 612 532 475	2, 543	22, 423 12, 832 7, 700 1, 356 378 201
Total	11,012	6,456	2,397	45, 526	11,145	6,619	2, 543	44,890
Total average work ahead at end of month (expressed in days): District 1 District 2 District 3 District 5 District 5 District 5 District 6 District 6 District 8	2.4 9.3 14 14 0	11 4.3 12	10 4.7	8.1 5.4 13 14 18 7.6	4. 2 13 15 12 0	15 6.2 18	14 12	11 9.4 17 12 37 10
A verage for all districts	7.9	10	9.3	8.7	9.1	14	14	12

¹ The National Association of Finishers of Cotton Fabrics at the request of the Federal Reserve Board have arranged for a monthly survey within the industry. The results of the inquiries are herewith presented in tabular form. The sceretary of the association makes the following statement concerning the tabulation: The accompanying figures are compiled from statistics furnished by 34 out of 58 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, 72 per cent; dyed goods, 62 per cent; printed goods, 30 per cent. The figures given reports from exactly the same finishers for the two months, both for the totals and for the subdivisions, and, therefore, are strictly comparable.

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

PHYSICAL VOLUME OF TRADE.

The indexes of domestic business continued to move upward during September, especially those representing agricultural and mineral Wheat receipts were smaller than in products. the corresponding month last year, whereas rye receipts were more than double those for last Sep-Wheat flour production which has intember. creased each successive month since April reached a total of 13,785,000 barrels. Both receipts and shipments of live stock from 15 western markets were larger than any previous month this year. The number of cattle slaughtered under Federal inspection showed a slackening, which is customary during September. The consumption of both raw cotton and raw

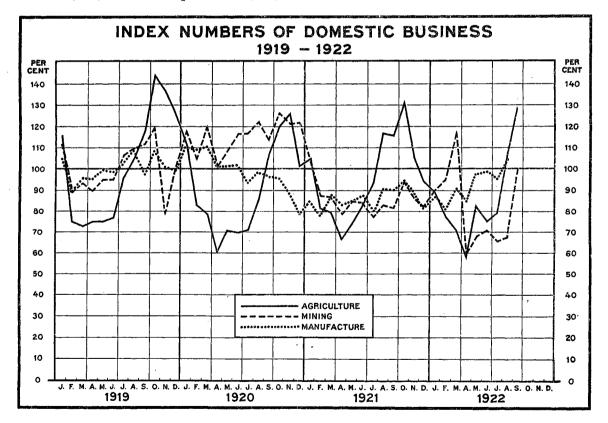
The consumption of both raw cotton and raw silk by manufacturing establishments decreased slightly during September as compared to August but were well in advance of the consumption for the corresponding month last year. Stocks of cotton showed the regular seasonal increase during September.

The output of bituminous coal in September rose to 40,964,000 tons compared to 22,328,000

tons in August, while the anthracite mines produced 4,979,000 tons as compared to 161,000 tons in August. Beehive and byproduct coke output increased in September.

The production of both pig-iron and steel ingots reached the highest level since 1920 in October. Copper production declined somewhat from the high August total, but with the exception of last month was higher than for any other month since December, 1920. The output of slab zinc is still mounting, while stocks continue to decline. Tin consumption by factories increased materially over that for August and stocks at the end of the month declined more than 50 per cent.

The number and value of permits issued in 168 selected cities declined but were much larger than those for last September. Freight car loading of all commodities except coal and live stock were less in September than in August but the increases in these two commodities were so decided that the total car loadings for September were slightly larger than for August.



Leaf

tobacco.

 $\begin{array}{c} 195.7\\ 297.4\\ 181.1\\ 24.1\\ 8.9\\ 4.1\\ 12.1\\ 54.7\\ 79.3\\ 107.6 \end{array}$

188.5 117.0

Fruit.

94.6

95.5 137.4 175.1 139.0 183.3 123.8 86.4 79.9 69.9 34.7 83.6

96. 1 55. 5 130. 4 103. 0 105. 7 93. 8

59.3 43.1

38.0

Zinc. | Lead.

1

65.9 45.2 40.0 42.1 45.9 49.5 39.4 37.2 36.6

37.0 53.8 56.0

÷. 17.3

² Partly estimated.

 $110.8 \\77.1 \\57.8 \\51.3 \\67.4 \\57.8 \\52.7 \\56.0$

52.7 56.0 114.7 195.3 163.2 133.4

76. 8 43. 3 42. 8 37. 0 50. 1 43. 0

33.4 48.3

139.5

Cop-per.

 $\begin{array}{c} 80.0\\ 71.2\\ 83.0\\ 47.6\\ 22.6\\ 18.1\\ 16.6\\ 19.9\\ 19.5\\ 22.9\\ 20.8 \end{array}$

INDEXES OF DOMESTIC BUSINESS. [Monthly average of 1919=100.] AGRICULTURAL MOVEMENTS.

96.5 73.9 76.4 74.2 77.3 81.9

81.9 68.1 85.4 85.9 107.0 99.2 82.0

91. 8 76. 5 79. 2 71. 8 90. 2 88. 7 81. 2 96. 5

106.6

MINERAL PRODUCTS.

An-

thra-cite coal.

Total

agricul ture.

105.0 81.1 79.4 66.3 73.6 82.2 93.4 116.7 115.3 130.9

104.6 93.9

88.977.7 70.7 57.4 82.6 75

¹Combination of 14 independent series.

Bi-

tumi-

nous

coal.

Total ani-mals. grains. Cotton.

97.9

97.9 66.7 77.5 60.5 71.7 96.0 151.9 195.5 151.6 121.3 65.3 79.0

83. 8 92. 3 73. 0 49. 6 92. 5 77. 1

106.4 153.8 150.6

Crude petro-leum.

120. 3 111. 2 130. 2 127. 3 133. 6 128. 4 128. 4 128. 1 130. 2 116. 3 113. 2 120. 0 133. 3

94.8 76.0 62.6 46.8 47.9 41.8 33.9 37.4 38.7 48.9 55.5 64.7

INDEXES OF DOMESTIC BUSINESS-Continued.

MINERAL PRODUCTS-continued.

Date.	Total min- eral prod- ucts.	Bi- tumi- nous coal.	An- thra- cite coal.	Crude petro- leum.	Iron.	Cop- per.	Zinc.	Lead.
1922. January February April May June July August September.	67.9 70.6 65.4	98.5 107.3 131.5 41.3 53.1 58.4 44.5 58.3 107.3		$\begin{array}{c} 137.1\\ 129.7\\ 149.1\\ 141.9\\ 147.7\\ 143.8\\ 148.0\\ 147.1\\ 143.8\\ \end{array}$	64.3 63.9 79.9 81.3 90.5 92.6 94.2 71.1 79.8	24. 1 34. 8 58. 0 71. 7 83. 7 89. 0 85. 0 93. 9 89. 1	60.3 57.3 67.5 65.6 69.8 72.6 81.2 79.9 84.3	101.0 93.4 93.0 88.8 89.0 89.1 84.4 96.7 95.3

	- 1				1			}	1	
113. 2 101. 2	Р	RODUC	TION	OF M	IANU	FACTU	RED	GOODS	•	
27.5 5.5 3.9 1.5 12.3	Date.	Total man- uíac-	Steel.	Lum- ber.	Pa- per.	Petro- leum.	Tex- tiles.	Leath- er.	Food.	To- bacco.
² 55.2 ² 83.9	1921.	ture.1						 ,		
ed.	January February	84.5 77.4			87.8 79.5				88.2 77.4	87.8 94.1
	March April	87.8 83.1	62.5 48.3	89.3 87.5	84.4 81.7	$113.0 \\ 113.8$	90.8 91.5	72.0 75.8	88.1 84.0	106, 1 95, 5
	May June	87.1	39.9	89.6	72.4 70.2	110.1	101.9	81.1	82, 2 85, 1	99.3 106.8
Lead.	July August	90.7	45.3	99.7	75.6	108.3 110.6	103.4	85.7	98.5	$100.6 \\ 117.2$
l	September . October	94.6		103.1	90.8	110.2 119.7	104.8	86.2	99.8	111.6 115.8
109.1	November December	89.5 81.3	66.0 56.8	$\begin{array}{c}100.6\\92.2\end{array}$	95.8 94.7	117.1 119.6				
94.3 86.1	1922.	' j								
77.8 78.0	January February	80.2	69.3		90.0		96.8	78.1	88.5	90.6 83.8
74.6	March April	90.9 84.7		102.5 98.1	108.4 99.9				96.5 84.9	. 98. 4 89. 6
72.4 87.8	May June	1 98.1 ¹		121.1 104.4	112.3	132.2		70.4	96.8	
79.7 100.4	July August	95.3	98.9	104.3 116.2	99.9	146.2	95.0	72.1	97.5	
103.3 103.2	September .			101.5						
	¹ Combina	tion of :	34 inde	epender	nt seri	es.				

¹ Combination of 7 independent series.

Commodity Movements.

			0	age		aver- nonth		Sept.,	Aug.,	Sept.,	age		f aver- month
	Sept., 1922.	Aug., 1922.	Sept., 1921.	Sept.,	Aug.,	Sept.,		1922.	1922.	1921.	Sept., 1922.	Aug., 1922.	Sept., 1921.
GRAIN AND FLOUR.				1922.	1922.	1921.	GRAIN AND FLOUR—Continued.						
Receipts at 17 interior centers (000 omitted): Wheat (bu.) Corn (bu.) Oats (bu.) Ryc (bu.)	59,769 34,732 22,880 11,979	22,058 26,519 14,085	64,670 37,334 21,792 5,488	140.2 86.3 203.5	134.2 77.1 319.5	107. 4 150. 7 82. 2 99. 7		18,708 8,072 29,562 3,736	11, 852 4, 390 32, 048 2, 213	52,137 2,482	96.9 67.4	$\begin{array}{c} 143. \ 1\\ 132. \ 7\\ 50. \ 2\end{array}$	44.8
Barley (bu.) Total grain (bu.). Flour (bbls.)	5,081 134,441 3,924	4,121 129,427 2,990	5, 086 134, 370 3, 421	109.6	101.5		Barley (bu.) Total grain (bu.).	1,295 61,373	980 51,483				96.7 130.9
Total grain and flour (bu.)							Total visible supply (000 omitted): Wheat (bu.) Corn (bu.) Oats (bu.)	36,610 13,041 37,458	30, 586 8, 229 40, 073	13,262	57.7 209.3) 137.5 197.1
Shipments at 14 interior centers (000 omitted): Wheat (bu.) Corn (bu.) Oats (bu.). Rye (bu.). Barley (bu.)	17,873 14,366 10,043	19,964 17,846 11,903	42,727 27,706 15,342 5,542 3,676	99.1	116.0 402.8	204.7 105.8 136.3	Receipts at 9 seaboard centers (000 omitted): Wheat (bu.) Corn (bu.) Oats (bu.)	18,879 3,943	32,480 6,260 3,847 3,808	33,050 2,213 2,222 1,180	$\begin{array}{c} 61.1 \\ 282.7 \\ 152.5 \\ 228.2 \end{array}$	433.9	
Total grain (bu.). Flour (bbls.)	78,278 6,404			$108.2 \\ 143.2$	140.7 116.7		Total grain (bu.). Flour (bbis.)		49, 222	43, 442	91.3	124.0	$\begin{array}{c} 103.4 \\ 5 106.7 \\ 4 116.2 \end{array}$
Total grain and flour (bu.)	107,098	125, 553	119,625	115.8	135. 9	129.4	Total grain and fiour (bu.)	45, 181	56, 895	54,051	90.6	121. 3	3 108.4

Date.

1921.

January..... February.....

December.....

1922.

1922. January. February. March. April. May.

Date.

1921.

 June.
 75.1

 July
 79.8

 August.
 2 106.7

 September.
 2 128.8

Total

min-eral

prod-ucts.1

1353

COMMODITY MOVEMENTS-Continued.

	Sept.,	Aug.,	Sept.,	age		aver-		Sept.,	Aug.,	Sept.,	age	cent of same : 9-1921.	
	1922.	1922.	1921.	Sept., 1922.	Aug., 1922.	Sept., 1921.		1922.	1922.	1921.	Sept., 1922.	Λug., 1922.	Sept, 1921.
GRAIN AND FLOUR—Continued.							LIVE STOCK Continued.						
Stocks at 8 seaboard centers at close month (000 omitted): Wheat (bu.) Corn (bu.) Rye (bu.) Barloy (bu.)	$10,277 \\ 1,007 \\ 2,768 \\ 558 \\ 2,356 \\ 12,202 \\ 12,202 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 \\ 14,002 $	11, 208 782 2, 814 339 3, 414	17,627 999 1,863 1,640 3,812	$130.3 \\ 134.8 \\ 36.6 \\ 59.0$	106, 2 158, 0 37, 1 75, 0	129.3 90.7 107.7 95.4	Exports of cortain meat products (lbs., 000 omitted): Beef Canned Fresh Pickled and other cured Hog products	287 209 2, 841	258 300 2, 621	239 2, 857		10.3 106.8	108.7
Total grain (bu.). Wheat flour produc- tion (bbls.)	16,966 13,785	18, 557 12, 271	25,941 13,349	64.1	81.6 104.6	98.1 108.6	Bacon Hams and shoulders	30, 448 20, 592		44,718		64.0 68.9	Ì
LIVE STOCK.	10,760		10,049		101.0	106.0	Lard Pork, pickled	61, 120 4, 009	68,907'	17, 138 104, 741 2, 990	97.5	123.4	167.1
Receipts at 59 principal markets (head, 000 omitted):							DAIRY PRODUCTS.	.,	0,001	_, 000	100.2	100.0	
Cattle and calves Hogs Sheep Horses and mules (43 markets)	2,359 3,043 2,217 39	2, 137 3, 016 1, 913 23	1, 894 2, 647 2, 555 21	108, 0 122, 8 72, 4 53, 2	126, 8	106.9	Receipts at 5 principal markets(000 omitted) Butter (lbs.) Checse (lbs.) Eggs (cases) Cold-storage holdings at	46, 419 17, 729 815	62, 494 19, 819 1, 028	14,841	103. 8 156. 3 96. 1	112. 2 125. 5 102. 1	
Total	7,658	7,089	7, 117	98.2	99.5	91, 2	close of month (000 omitted):	1		00.100			
Shipments at 54 princi- pal markets (head, 000 omitted): Cattle and calves Hogs Sheep	1, 234 1, 143 1, 233	1, 031 1, 052 885	906 948 1,376	125.0	122.7	103.7	Creamery butter (lbs.) American cheese (lbs.) Eggs (cases)	96, 367 49, 453 7, 868		90, 123 44, 842 6, 275	81.9	87.6	
Horses and mules (43 markets)	36	22	1,510		41.6	28.5	OTHER AGRICUL- TURAL PRODUCTS.						1
Total	3,646	2, 990	3,250	94.9	90.3	84.6	Cotton seed (tons):			574,970	162.0	159.9	137.5
Receipts at 15 western markets (head, 000 omitted): Cattle and calves	1,839	1,639	1 417	109.8	111.4	84.6	Received at mills Crushed On hand at mills at close of month	680, 841 332, 281 347, 228	90, 931 48, 816 55, 995	304, 298 270, 169	145.8	105.0	133.5
Hogs. Sheep. Horses and mules	2,033 1,315 29	2, 183 1, 185 17	1,784	121, 1 61, 3	123.6 64.9	106.3 77.0	Cottonseed oil (lbs., 000 omitted): Production Stocks	98, 608 54, 906	13,354 10,038	99, 803 50, 576	139.3 129.5		
Total	5, 216	5,024	4,868	94.1	98.4	87.8	Oleomargarine con- sumption (lbs., 000			17, 723	63.4	46.3	69.8
Shipments at 15 western markets (head, 000 omitted): Cattle and calves Hogs Sheep	984 618 678	810 646 517	698 584 840	114.0 54.6	114.4 55.8	107.7 67.7	omitted) Tobacco sales at losse- leaf warehouses (lbs., 000 omitted): Bright bolt Virginia, dark North Carolina.	16,113 1,586 45,247	11, 754	1,650 41,756	14.8 84.1	158.1	46.6 77.6
Horses and mules Total	27	16	15 2,137	57.5 81.6		31.8 81.4	South Carolina. Burley	1,009	1,162	2,288 2,346		66.0	28.2
Shipments of stockers and feeders from 34 markets (head, 000 omitted): Cattle and calves	596	446	391		131. 1	79.7	Sale of revenue stamps for manufacture of tobacco, excluding Porto Rico and Philippine Islands	121	178	265		33. 3	
Hogs Sheep	33 525	30 350	38 551	64.8	85.4	74.1	(000 omitted): Cigars (large) Cigars (small)	625,772 55,497	60, 498	55, 800	104.2	115.8	104.8
Total	1,154	826	980	77.5	79.1	65.8	Cigarettes (small) Manufactured to- bases (lbs.)						113.8
Slaughter at principal centers under Federal inspection (head, 000 omitted): Cattle. Calves. Hogs. Sheep.	796 353 2, 747 1, 013	$345 \\ 2,888$	689 321 2, 423 1, 249	107.4 128.8	108.4 129.9		bacco (lbs.) Fruit shipments (car- loads): ' Grapofruit Lemons Oranges Apples Apples holdings (bbls., 000 omitted)	33, 807 11 789 1, 173 4, 312	57 833 1, 561 2, 385	2, 993 3, 384			
Total	4, 910	5, 018	4,682		112.6	104.5	White potatoes, ship- ments (carloads)	1,397 23,244	17, 399	792 26,040	•••••	•••••	
Meats, cold storage holdings at close of month (lbs., 000 omitted): Beef Pork products Lamb and mutton.	53, 566 489, 514 3, 539	619,671	59, 822 471, 901 5, 993	74.5	75.6	71.9	Sugar, 7 ports (long tons): Receipts Meltings Raw stocks, close of month	243, 571 312, 909 180, 577	501, 203 540, 024 262, 959	240, 211 262, 817 137, 390	•••••		•••••

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COMMODITY MOVEMENTS-Continued.

	Sept.,	Λug.,	Sept.,	age	ent of same :)-1921.	aver- month		Sept.,	Aug., 1922.	Sept.,	age	ent o: same : 9–1921.	f aver- month
	1922.	1922.	1921.	Sept., 1922.	Aug., 1922.	Sept., 1921.		1922.	1922.	1921.	Sept., 1922.	Aug., 1922.	Sept., 1921.
FOREST PROD- UCTS.	/						FUEL AND POWER-Continued.						
Lumber: Number of mills- National Lum-							Oil refineries—Contd. Stocks at close of month (000 omit-						
ber Mfg. Assn. Southern pine Western pine	551 150 50	535 153 52	454 186 53			· · · · · · · ·	ted)— Crude oil (bbls.) Gasoline (gals.).	34,030 703,738	35,287 772,909	16,374 567,646	206.4	205.5 143.8	99.3 128.5
Douglas fir Production (ft.,	116	120	103				Gas and fuel	285,520	324,586	389, 893	80.5	88.3	109.9
000,000 omitted:) National Lum- ber Mfg.Assn.	1,207	1, 327	825	116, 3	119.6	79.5	(gals.) Lubricating (gals.)	220,668	1,358,870 226,691	1,243,446 242,530	i		134.1 133.8
Southern pine Western pine Douglas fir	368 156 342	401 169	83	116.4	119.6 101.3 117.6 119.1	62.0	Electric power pro- duced by public util-	<u>-</u>	<u></u>	<u></u>			
Shipments (ft.) 000,000 omitted)	092 	920 	202	110.5	115.1	00.3	kw. hours):		-				
National Lum- ber Mfg.Assn. Southern pine	1,067 301	1, 230	434	$114.1 \\ 76.2$	118.4 131.7	88.6 109.8	Produced by water power Produced by fuels	••••••	1, 524, 2 43 2, 538, 852	1,101,576 2,273,127		100.0 133.4	73.6 120.1
Western pine Douglas fir Receipts at Chicago	133 298	156 385	90 217	122.3 124.6	131.7 110.9	82.1 90.6	Total				í———		
and St. Louis (M ft.)	548, 378	506, 116	388, 740	137.5	136.9	97.5	METALS.	i					
Chicago and St. Louis (M ft.)	332, 417	343, 651	246, 602	130. 5	142.6	96.8	Iron and steel (long tons, 000 omitted): ² Pig-iron production	2,628	2,034	1,247	123.6	92.4	58.4
Oak flooring— Production Shipments	23, 903 25, 672	27, 669 2 0, 037	14, 900 16, 837				Steel-ingot produc- tion. Unfilled orders, U.	2,872	2,374		120.6		67.9
Stocksatend of month Unfilled orders.	20, 120 35, 957	21, 054 37, 173	33, 415 9, 552		ł		tion	6,902	6,692	4,287	100.5	94.6	62, 4
Naval stores at 3 south- eastern ports: Spirits of turpen-	00,001	01,210	0,002				Fabricated struc- tural steel con- tracted for, ton-						
Receipts	29,954	30, 000	28, 786	108.9	101.7	104.7	nage. Silver production of United States (troy	135,069	141,561	86,000			
Stocks at close of month Rosin (bbls.)—	28, 444	26, 041	54, 949	67.5	74.0	130 . 5	ozs., 000 omitted) Copper production (lbs., 000 omitted)	5,325 95,665			 122.4		
Receipts Stocks at close of month	92,487	93, 737	83, 484 322, 898			99.1 140.4	Zinc (lbs., 000 omitted):2 Production	53,003 79,880					
FUEL AND POWER.	334,785	329, 189	344, 090	140.4	145. 9	140.4	Stocks at close of month Tin (lbs., 000 omitted):	36,086	37,612	141,648			
Coal and coke (short tons, 000 omitted):							Imports Deliveries to fac-	7,379) '	83.1 123.3	93.8	65.3 63.6
Bituminous coal production (est.). Anthracite coal—	40,964	22, 261	35,105	93.3	52.9	80.0	tories Stocks at close of month	11,312 1,236					
Production Coke—	4,979	161	7,124	77.6	2.1	111.0	TEXTILES.						
Beehive pro- duction (est.). By-product,	606	539	2 89	47.8	43.4	22.8	Cotton (bales, 000 omitted):	1 200	EAT	1 145	162 4	190.6	194 7
production, (est.) Petroleum (crude):	2,244	1,794	1,423				Sight receipts Port receipts Overland move-	1, 389 803	198	668	175.7	73.7	134.7 146.1
Production (bbls., 000 omitted) Stocks at close of	45, 246	46, 521	36, 5 08	1 2 5. 6	122.6	101.4	ment American spinners' takings	41 367	(106 447			213.0 133.9
month (000 omit- ted).	273, 264	271,901	172,874	189.4	189.4	119.8	Stocks at ports and interior points Stocks at mills	1, 280	695	2,382		42.1	
Producing oil wells (number) Oil refineries: ¹	1,572	1,709	788	92.3	93.9	46.3	Stocks at ware- houses	1, 065 3, 217	1, 550	4, 313	100.5	64.0	134.7
Total production (000 omitted) Crude oil run	· }						Visible supply Consumption by mills	2, 228 495	· · .	3, 944 485	72.3 103.6	1	128.0 101.4
(bbls.) Gasoline (gals.).	43, 817 549, 958	44,378 569,711 192,924	36,045 431,577 143,652	121.5 137.2 100.2	127.7 144.2	99.9 107.7 78.0	Spindles active dur- ing month (num- ber, 000 omitted).	33, 297					
Kerosene (gals.) Gas and fuel (gals.)	184,383 914,289		143,052 784,450		t	1	Wool: Consumption by	00, 101		50,010			00.0
Lubricating (gals.)	88, 824		66, 473	115.6	1		mills (lbs., 000 omitted)	54,771		•			

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COMMODITY MOVEMENTS---Continued.

	Sept.,	Aug., 1922.	Sept.,	age		aver- month		Sept.,	Aug.,	Sept.,	age	cent of same 9–1921.	month
	1922.	1922.	1921.	Sept., 1922.	Aug., 1922.	Sept., 1921.		1922.	1922.	1921.	Sept., 1922.	Aug., 1922.	Sept. 1921.
TEXTILES-Contd.							MISCELLANEOUS MANUFACTURES.						
Wool-Continued. Percentage of idle							Wood puip (short tons): Production	272 697	282 570	193 479	108 4	111.2	76.9
machinery on 1st of month to total reported—1							Consumption Shipments	272,697 239.801 54,318	282,570 258,871 52,962	193, 479 184, 609 42, 459	$111.0 \\ 88.7$	116.3 86.7	85. 69.
Looms wider than 50-inch							Stocks, end of month Paper (short tons):	178, 517	209,957	186,454			1
reed space Looms 50-inch	27.6	35.3	23.7	93.2	113.1	80.1	Newsprint Production	125, 402	133, 236	98, 898	113.5	116, 0	89.
reed space or less Sets of cards	23, 6 13, 8	32.5 15.7	25, 8 22, 3	87.1 60.3	113, 2 66, 8	95. 2 97. 4	Shipments Stocks, end of	126, 494	134,490	95, 785	113.1	117.7	85.0
Combs Spinning spin-	21.7	24.0	14.3	140.0	121.2		month Book production Paper board pro-	18,810 87,782	19,902 87,922	30, 241 62, 416	77.1 110.8		
dles, woolen Spinning spin- dles, worsted.	15.3 18.6	17.1 25.2	22.4 8.6	Ì	68, 4 125, 4	91.4 61.9	duction Wrapping paper	198,248	195,115	160,207		ļ .	1
Percentage of idle house on 1st of	10.0	20, 2	0.0	10070		0110	production Fine paper produc- tion	70,329 31,576	74, 315 33, 081	59,095 20,555	109.1 109.3	113.6	
month to total reported—							Building materials (000 omitted):	51,570	33,031	20,000	109.5	110.7	
Looms wider than 50-inch space	27.6	36.4	25.8				Clay fire brick— Production	48,839	51,828	24,641	103.0	110.7	52.
Looms 50-inch reed space or			P** F				Shipments Stocks, close of month	52, 693 156, 899	49,075 162,876	25,931 141,017	Į.	1	
less Set of cards Combs	28.7 8.7 6.8	41.7 11.2 14.5	27.5 21.0 24	•••••		·····	New orders Unfilled orders.	$156,899 \\ 59,771 \\ 79,511$	162,876 52,300 74,399	25,512 27,033	129.6	107, 4	55.
Spinning spin- dles, woolen	11.9	13.8		1		1	Silica brick— Production Shipments	$12,861 \\ 11,332$	9,666 11,687	4,970 4,178			
Spinning spin- dles, worsted. Raw silk:	16.0	. 28.6	7.8				stocks, close of month	37,108	35,743				1
Imports (lbs., 000 omitted)	3,887	5, 547	4, 598	87.5	143, 4	103.5	Face brick— Production	51,674	46,849	41,066		79.5	78.
Consumption (bales)	34, 212	1	31, 229				Shipments Stocks in sheds and kilns	43,621 100,559	46,710 91,339	34, 848 125, 850	85.6	1	107.
Stocks at close of month (bales)	36, 795	32, 515	23, 036				Unfilled orders, close of month	80, 886	75, 825	40,387			
HIDES AND LEATHER.							Ccment (bbls., 000 omitted)— Production	11, 424	11,664	10.027			
Sales of raw hides and							Shipments Stocks, close of	12,444	14,361			1	+
skins during month (number, 000 omit-							month Rubber (lbs., 000 omit- ted):	4,726	5,746	6,953			
ted): Cattle hides Calfskins	1,565 1,358	1, 211 1, 144	1,028				Imports of crude rubber	44, 345	54,332	34, 546	142.7	167.0	111.
Kip skins Goat and kid	$209 \\ 1,589$	215 1, 114	188	•••••		•••••	Consumption by tire manufactur- ers	28,051	33,739	10 476			
Cabretta Sheep and lamb Stocks of raw hides and	47 3,186	22 2, 546	42 1, 852		•••••		Pneumatic tires (000 omitted):				1		1
skins at close of month (number, 000							Production Shipments, domes- tic	2,505 2,502	2,905 3,030	•	••••	1	
omitted): Cattle hides Calfskins	5,515	5, 343	6,086	91.1 121 5		100, 5 114, 9	Stocks Inner tubes:	4,612	4,629	3,041			
Kip skins Goat and kid	3,674 990 8,641	9, 197	938 10, 746	100.0 62.1		94.8 77.3	Shipments, domes-	3,501 3,559	3,808		•••••		
Cabretta	810 10,475	663	791 12, 606	42.4		41.5 116,4	tic Stocks Solid tires:	5,165	4,220 5,207	3,828	•••••		
Production of leather: Sole leather (sides). Skivers (dozens)	1,491,498 31,934	1, 509, 364 30, 629	1, 507, 185 20, 683				Production Shipments, domes-	83	84		•••••		
Oak and union harness (sides							tic Stocks Automobiles:	68 200	69 190	50 162		 	
stuffed) Boots and shoes, out-	131,265	130, 103	49, 507	<u></u>			Production (num- ber)—					[
put (pairs, 000 omit- ted):							Passenger cars Trucks	186,628 18,358				 	
Men's Women's	8,514 8,741	9,062					Shipments— Railroad (car- loads)	25,950	32, 814	19.002			
Others Total	28,961						Driveaways (machines)	30,055	36,754				ļ
¹ Figures for Oct. 1, 19	•						Boat (ma- chines)	8,002	10,096				1

COMMODITY MOVEMENTS-Continued.

	Sept., 1922.	Aug., 1922.	Sept., 1921.	age		aver- month		Sept.,	Aug.,	Sept.,	age		aver- month
	1922.	1922.	1921.	Sept., 1922.	Aug., 1922.	Sept., 1921.		1922.	1922.	1921.	Sept., 1922.	Aug., 1922.	Sept., 1921.
MISCELLANEOUS M A N U F A C - TURES—Contd.							TRANSPORTA- TION—Continued.						
Locomotives (number): Domestic shipped Foreign completed. Vessels built in the	113 6			117.7 10.3			Freight-car surplus (number): Total Box Coal	5,843 201 3,486	70, 455 3, 850 54, 566	172, 420 42, 093 98, 048	8.3 1.2 9.3	9.5	245.8 242.3 261.5
United States and officially numbered by the Bureau of Navigation: Number Gross tonnage	76 15,834		67 105,352				Freight-car shortage (number): Total Box Coal Bad-order cars, total	130, 325 66, 529 38, 954 291, 645	35, 819 13, 835	3, 621 2, 478 142	271.0 229.8 328.9	117.9 83.8	8.6 1.2
TRANSPORTA- TION. Railroad operating sta- tistics: Net ton-miles, rev-					-		Vessels cleared in for- eign trade (net tons): American Foreign		•	<u>_</u>			101.5
enue and non- revenue (000,000 omitted) ¹ Net tons per train Net tons per loaded car	•••••	27, 073 645 25, 0	30, 382 670 27, 4				Total Percentage of Americantototal Panama Canal traffic (tons, 000 omitted): 1	47.1			92.8	104.3	101.6
Revenue freight loaded and received from connections, classi- fied according to na- ture of production (short tons):							Total cargo traffic American vessels British vessels Commerce of canals at Sault Ste. Marie (000 omitted): Eastbound		1, 211 582 3 67	839 380 202		167.7	97.0
Grain and grain products Live stock Coal. Coke Forest products Ore. Merchandise, I. c. 1. Miscollaneous	222, 336 151, 783 738, 885 37, 529 246, 441	252, 795 133, 492 443, 244 37, 639 260, 282	240, 865 128, 686 705, 403 21, 579 201, 103	105.3 109.6 91.0 84.1 91.6	110.0 56.3 88.5 104.3	92.9 86.9 48.3 81.4	Grain other than wheat (bu.) Wheat (bu.) Flour (bbls.) Iron ore (short	15, 728 37, 520 1, 560	9, 217 1, 203	28, 120 1, 516	153.2	144.5 112.6	169.0 148.9
Merchandise, l. c. 1 Miscellaneous	227, 275 984, 917 1, 441, 702	298, 190 1, 037, 350 1, 467, 169	972, 984 972, 296 1, 251, 499	119.2 98.6	133.3 116.5 103.7	48.5 117.7 85.6	tons) Total (short tons)	6, 658 8, 451		3, 61 0 5, 018	98.3 111.0	149.8 151.0	
Total					101.7	91.2	Westbound— Hard coal (short tons)	11		281	4.7		122.4
Revenue freight load- ed, classified accord- ing to geographical							Soft coal (short tons) Total (short	2, 354	185	994	168.5	10.2	71, 1
divisions: Eastern Allegheny Pocahontas Southern Northwestern	116, 719 523, 151 658, 485	811,662 133,388 510,707 697,519	713, 940 132, 108 516, 933 554, 682	76.9 96.9 100.0	96.0 98.1 114.4	85.9 87.0 95.8 84.2	tons) Total freight (short tons)	2, 535 10, 986		_,	135, 8 115, 9		
Central western Southwestern Total	614, 644 291, 808	269, 248		104.5	99.3	100, 0							

¹ Figures for August, 1922, July, 1922, August, 1921.

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BUILDING STATISTICS.

BUILDING PERMITS IN 166 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 (14 cities).	District No. 7 (19 cities).	District No. 8 (4 cities).	District No. 9 (9 cities).	District No. 10 (14 cities).	District No. 11 (9 cities).	District No. 12 (20 cities).	Total (166 cities).
1921, September 1922.	2, 442	7, 895	2, 990	4,124	3, 389	2, 847	9,024	2, 036	1,975	2, 739	2, 598	11, 174	53, 233
January February. March. A pril. May. June. July. August. September.	1, 024 2, 367 3, 011 2, 018 2, 945	4, 176 4, 210 13, 284 9, 056 10, 136 9, 572 7, 761 7, 828 8, 424	1, 623 2, 081 3, 557 4, 386 3, 991 3, 624 3, 029 3, 044 3, 680	$1,724 \\ 2,619 \\ 4,986 \\ 6,149 \\ 6,666 \\ 5,839 \\ 4,680 \\ 5,093 \\ 4,789$	2, 188 2, 305 4, 101 4, 397 5, 321 4, 509 3, 756 4, 018 3, 997	2, 155 2, 566 3, 211 3, 215 3, 443 3, 085 2, 978 3, 130 3, 114	3, 498 4, 815 8, 806 11, 546 13, 799 11, 898 10, 385 11, 112 10, 553	1, 141 1, 434 2, 218 2, 650 2, 955 2, 507 2, 291 2, 354 2, 373	523 517 1, 493 3, 342 3, 391 2, 422 2, 125 2, 244 1, 923	1, 336 1, 758 2, 711 3, 103 3, 554 2, 888 2, 467 2, 778 2, 629	1, 653 2, 114 2, 623 2, 586 2, 794 2, 545 2, 238 2, 534 2, 534 2, 223	8, 298 7, 600 11, 196 10, 966 11, 266 10, 156 9, 415 11, 596 11, 291	28, 884 33, 043 60, 453 64, 407 69, 334 61, 990 53, 722 58, 604 57, 893

	VAL	UE OF PEF	MITS ISSUE	ED.			
	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 (14 cities).	District No. 7 (19 cities).
1921, September	\$5, 799, 540	\$47, 360, 128	\$7, 820, 694	\$12,730,361	\$9, 284, 277	\$5,019,328	\$24, 937, 967
January	13, 812, 829 9, 109, 108 10, 657, 535	$\begin{array}{c} 50,145,296\\ 50,372,553\\ 119,964,783\\ 54,704,292\\ 57,843,585\\ 73,352,564\\ 47,144,023\\ 49,210,637\\ 56,670,108\\ \end{array}$	$\begin{array}{c} 6, 878, 523\\ 8, 275, 338\\ 14, 116, 292\\ 17, 020, 500\\ 13, 844, 813\\ 18, 177, 759\\ 15, 898, 696\\ 15, 352, 655\\ 15, 868, 670 \end{array}$	7, 829, 585 13, 814, 868 15, 693, 183 22, 614, 084 22, 428, 251 26, 558, 680 22, 036, 882	$\begin{array}{c} 8, 352, 615\\ 7, 513, 542\\ 11, 329, 049\\ 11, 971, 471\\ 13, 348, 592\\ 15, 730, 766\\ 15, 514, 625\\ 11, 605, 153\\ 12, 969, 812\\ \end{array}$	$\begin{array}{c} \textbf{3,734,262} \\ \textbf{4,630,052} \\ \textbf{6,021,211} \\ \textbf{4,951,558} \\ \textbf{7,262,167} \\ \textbf{6,498,677} \\ \textbf{7,516,036} \\ \textbf{7,985,212} \\ \textbf{6,326,074} \end{array}$	18, 905, 561 20, 419, 417 33, 747, 135 35, 089, 303 53, 806, 499 49, 934, 583 38, 151, 182 40, 452, 972 31, 550, 169
		District No. 8 (4 cities).	District No. 9 (9 cities).	District No. 10 (14 cities).	District No. 11 (9 cities).	District No. 12 (20 cities).	Total (166 cities).
1921, Septembor		\$5, 820, 895	\$4,004,238	\$6, 286, 923	\$5,680,968	\$20, 134, 993	\$154, 880, 312
1922. February		6,076,684 7,443,855 5,855,459 5,698,702 5,815,805	2, 110, 424 1, 569, 774 4, 526, 209 8, 196, 110 9, 913, 853 6, 020, 186 7, 663, 443 8, 284, 659 4, 737, 015	5, 023, 603 4, 336, 011 7, 165, 925 8, 384, 552 10, 807, 084 8, 894, 131 8, 040, 606 9, 793, 352 8, 352, 440	4, 960, 078 4, 419, 789 5, 620, 336 6, 228, 385 4, 752, 642 5, 276, 819 5, 861, 650 5, 010, 204 4, 980, 057	22, 872, 876 18, 917, 868 27, 432, 286 30, 195, 952 28, 271, 238 29, 598, 278 22, 391, 0164 29, 424, 332 23, 968, 073	138, 631, 902 141, 715, 243 259, 754, 421 212, 323, 919 239, 017, 520 252, 431, 008 209, 613, 436 221, 605, 682 204, 227, 009

VALUE OF BUILDING CONTRACTS AWARDED, BY FEDERAL RESERVE DISTRICTS.

[F. W. Dodge Co.]

VALUE OF CONTRACTS FOR ALL CLASSES OF BUILDINGS.

	District No. 1.	District No. 2.	District No. 3.	District No. 4.	District No. 5.	District No. 7.	District No. 9.1	Total (7 districts).
1921, October	\$20, 498, 363	\$74, 429, 237	\$18, 295, 400	\$26,969,803	\$19, 463, 402	\$36, 250, 434	\$8,047,792	\$203, 951, 431
1922. January. Pebruary. March. April. May. June. June. July. September. October.	42, 196, 915 31, 589, 783 36, 259, 420	54, 962, 847 60, 152, 424 90, 088, 870* 117, 814, 885 91, 441, 141 81, 614, 205 79, 819, 084 80, 810, 922 64, 208, 556 65, 060, 956	12, 128, 900 11, 828, 700 24, 558, 100 25, 739, 294 26, 630, 900 28, 768, 377 43, 818, 9.11 24, 947, 916 20, 439, 852	21,066,282 20,602,823 29,661,058 38,089,754 58,432,714 30,668,191 25,362,187 20,983,619 22,997,450 19,684,627	$\begin{array}{c} 14,002,399\\ 16,518,079\\ 24,116,011\\ 25,618,120\\ 32,268,767\\ 46,801,800\\ 52,224,001\\ 50,811,596\\ 34,634,723\\ 35,164,630\\ \end{array}$	$\begin{array}{c} \textbf{29, 182, 324} \\ \textbf{32, 344, 424} \\ \textbf{58, 081, 526} \\ \textbf{64, 236, 566} \\ \textbf{71, 117, 055} \\ \textbf{77, 560, 940} \\ \textbf{83, 159, 795} \\ \textbf{56, 954, 434} \\ \textbf{62, 219, 681} \\ \textbf{52, 048, 241} \end{array}$	$\begin{array}{c} \textbf{3, 613, 148} \\ \textbf{5, 192, 824} \\ \textbf{11, 933, 270} \\ \textbf{9, 878, 501} \\ \textbf{12, 455, 410} \\ \textbf{12, 153, 061} \\ \textbf{9, 304, 325} \\ \textbf{8, 249, 905} \\ \textbf{5, 868, 200} \\ \textbf{4, 523, 126} \end{array}$	$\begin{array}{c} 150, 258, 355\\ 161, 438, 756\\ 264, 651, 165\\ 322, 630, 241\\ 323, 044, 164\\ 311, 688, 517\\ 303, 548, 609\\ 288, 409, 499\\ 244, 261, 613\\ 222, 226, 485\end{array}$
	VALU	E OF CONTI	RACTS FOR	RESIDENTI	AL BUILDIN	IGS.		
1921, October	\$8,094,387	\$39, 738, 113	\$5, 449, 400	\$8,991,474	\$5, 937, 599	\$1 1,660,499	\$ 2, 256, 545	\$82, 128, 017
January	13, 524, 827 14, 018, 303 12, 518, 840	$\begin{array}{c} 35,652,203\\ 38,657,156\\ 51,116,514\\ 53,677,473\\ 30,943,547\\ 40,483,063\\ 33,364,787\\ 29,091,738\\ 34,536,710\\ 33,237,936 \end{array}$	$\begin{array}{c} 6,280,200\\ 5,647,700\\ 9,552,500\\ 10,408,700\\ 11,168,868\\ 11,275,517\\ 7,826,581\\ 8,828,667\\ 8,142,367\\ 10,072,260 \end{array}$	6, 279, 459 5, 545, 073 10, 641, 177 16, 127, 627 19, 121, 798 16, 036, 790 8, 074, 163 6, 320, 030 8, 555, 717 7, 416, 108	6, 597, 861 7, 299, 608 9, 796, 405 10, 297, 280 13, 009, 760 17, 434, 095 15, 406, 301 13, 409, 258 12, 736, 605 13, 729, 840	10,601,761 9,388,615 17,225,204 17,661,586 24,574,835 28,206,838 20,633,345 18,833,050 * 15,011,664 20,291,379	1,049,594 962,757 2,348,511 4,175,963 4,240,047 2,677,184 2,415,438 2,535,590 2,453,723 2,227,614	71, 228, 675 71, 680, 853 112, 577, 307 125, 873, 456 126, 677, 155 128, 632, 327 100, 365, 188 90, 963, 784 92, 986, 411 100, 527, 800

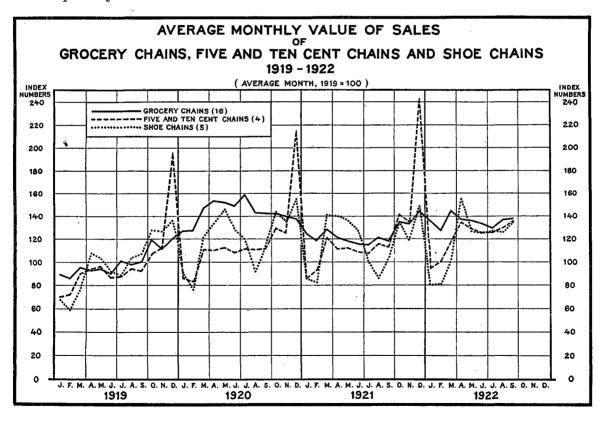
¹ Montana not included.

RETAIL TRADE.

The following tables are a summary of the data obtained from 502 representative department stores in the 12 Federal reserve districts. In districts Nos. 1, 2, 3, 5, 6, 7, 9, 11, and 12 the data were received in (and averages computed from) actual dollar amounts. In districts Nos. 4, 8, and 10 most of the material was received in the form of percentages, and the averages for the cities and districts computed from such percentages were weighted according to volume of business done during the calendar year 1921. The tables for the month of August are based on reports from 25 stores in district No. 1 (Boston), 64 stores in district No. 2 (New York), 144 stores in district No. 3 (Philadelphia), 28 stores in district No. 4 (Cleveland), 25 stores in district No. 5 (Richmond), 37 stores in district No. 6 (Atlanta), 58 stores in district No. 7 (Chicago), 21 stores in district No. 8 (St. Louis), 23 stores in district No. 9 (Minneapolis), 16 stores in district No. 10 (Kansas City), 21 stores in district No. 11 (Dallas), and 31 stores in district No. 12 (San Francisco). Figures for Altoona, in district No. 3 (Philadelphia), are shown separately for the first time this month. | month.

A comparison of monthly changes in activity of different types of retail business since January, 1921, is shown in the second of the following tables. The 176 department stores are located in districts Nos. 1, 2, 3, 5, 6, 9, 11, and 12, while the mail-order houses do business in all parts of the United States. The United States index for department stores has been recomputed by weighting the districts according to the buying power, as measured by population and banking resources. Chain-store figures are based upon the total sales of the same reporting chains for each month, but the actual number of stores in these chains varies slightly.

Mail-order business for the month of September shows a great improvement over August and is higher than for any month since last April. Sales of all types of reporting chains have increased during the month and are substantially larger than during September, 1921. The greatest improvement over last year's sales is shown in sales of grocery, five-and-ten, and music chains. Sales of shoe and music chains have registered the greatest increase during the month.



CONDITION OF RETAIL TRADE IN THE FEDERAL RESERVE DISTRICTS. [Minus sign (-) denotes decrease.] Percentage of average stocks outstanding or-

District and city.	sales	as comp	increase ared wit od previo	h corre-	Percen at cl with	ose of n	ncrease in Nonth co	n stocks mpared	averag at close month age m sales fo	tage of e stocks of each to aver- onthly or same iod.	outstan ders at month purcha ing pr	atage of ding or- close of to total ses dur- evious ar year.
	Sep-	Au-	July 1, close	1922, to		month 15 year.	Previou	smonth.	July 1, close	1922, to e of—	Sept.,	Aug.,
	tember, 1922.	gust, 1922.	Sept., 1922.	Aug., 1922.	Sept., 1922.	Aug., 1922.	Sept., 1922.	Aug., 1922.	Sept., 1922.	Aug., 1922.	1922.	1922.
District No. 1: Boston	17.5	 5.9	11.1	6.8	6.7	4.7	13.0	; 1.7	358.8	302.0	7.4	
Boston Outside District.	19.1	1.2	6.8 10.0	0.5	-4.4 3.5	-0.3 3.2	7.2		433.0 376.4	450.0 407.0	7.6 7.9	
District No. 2: New York and Brooklyn	ì	7.6	10,1	4.9	-1.1	0.4	10.7	3.6	417.6	453.5	8,1	6,6
Buffalo Newark	$9.5 \\ 12.1$	$2.1 \\ -1.3$			-7.2 L,0	$-2.8 \\ -7.0$	10.6 9.4	0.6	440.8 406.6	462.2 453.0	9.1 6.8	7.5 7.3
Rochester Syracuse	11.7	-7.5	6.3 0.4	3.5 6.0	9,6 0,9	-18.0 -17.4	$\begin{array}{c} 7.4 \\ 9.3 \end{array}$	4.8	383.7 405.5	386.0 438.0	7.8 5.0	$6.2 \\ 5.8$
Bridgeport Outside. District.	15.0	-4.4 7.6	$5.2 \\ 5.2$	$\begin{array}{c} 1.3\\ 4.4 \end{array}$	-0.7 -10.6	-1.6 -3.6	$\begin{array}{c}11.9\\2.2\end{array}$	1.8 8.8	408.0 574.0	380.3 573.9	8.2 8.4	9.3
District No. 3:		5.3	7.7	2.6	-J.8	-1.4	10.2	4.4	412.5	444.6	7.8	7.3
Philadelphia Allentown	21.3	$2.8 \\ 4.5$	6.7 7.4	0.4 - 1.1	-4.0 -2.6	-4.1 	12.5 9.0	3.2		402.8	9.3 4.2	8.5
Altoona Harrisburg Johnstown	36.3	6.6 -3.9	-0.5 13.8 -9.4	$3.2 \\ -14.0$	-10.7 9.3 -3.8	6.1	19.1		514, 8 509, 0	522.0 477.1	11.5	7.4
Reading.	$18.2 \\ -12.5$	-3.9 5.6 -12.8	10.2 -21.8	-14.0 5.2 -21.8	0.8	-5.1 4.7 15.1	10.0	3.1	$486.8 \\ 663.7 \\ 519.1$	651.6 512.0	17.3	10.6 33.0
Reading. Scranton Trenton Wilkes-Barre.	15.2 -3.1	-11.0	-10.3	-14.0 5.5 -14.1	-0.9 -9.4	-0.5 -4.2			489,4 577.1	496.1		
winnington.	20.0	$5.2 \\ 1.7$	7.0	-1.1 -2.0	-6.7 2.1	-12.6 1.7	9.0 12.0		800.7 611.8	807.6 609.0	8.6 9.0	7.3 9.5
Outside District District No. 4:	15.3	1.5	4.2	-1.5	-2.6	-1.9	11.9		482.5	476, 2	9.0	
District No. 4: Cleveland Pittsburgh	18.0	16.1 9.1	17.9 8.3	$\begin{array}{c} 10.0\\ 4.8 \end{array}$	-0.04 9.1	$3.4 \\ -11.0$	9.0 8.5		378.5 408.0	$ \begin{array}{c} 382.7 \\ 415.7 \end{array} $	$7.6 \\ 7.4$	10.3 8.5
Cincinnati Toledo	12.0	$2.8 \\ 5.6$	-1.7 8.9	-1.7 7.2	-10.9 -5.6	$-14.9 \\ -2.8$		3.2	$571.0 \\ 388.4$	535.0 432.1	8.8 6.4	$10.8 \\ 6.9$
Outside District	25.0 18.8	19.4 10.8	17.2 10.4	$ \begin{array}{r} 14.8 \\ 6.3 \end{array} $	-0.1 -5.7	$\begin{vmatrix} 3.2 \\ -5.7 \end{vmatrix}$	7.0 8.4	7.3 5.6	540.7 433.5	488.5 424.4	$10.8 \\ 7.8$	14.2 9.4
District No. 5: Baltimore	10.6	1.1		-1.8	-6.1	-7.8	15.7	2.5	465.9	493.9	8.4	
Richmond. Washington	7.3	-4.8	-1.4	12.2 -5.9	-7.6	5.2		$5.2 \\ 10.1$	$371.2 \\ 509.9$	$ \begin{array}{r} 449.4 \\ 509.2 \end{array} $	$\begin{array}{c} 13.4\\ 6.5\end{array}$	7.4
Outside District	8.8 10.6	-4.7 0.8		-9.3 -2.8	$-8.2 \\ -3.2$	$\begin{vmatrix} -4.3 \\ -2.9 \end{vmatrix}$	11.3 13.4	1.1 4.9	567.6 483.0	575.5 508.3	7.0 8.0	7.0 7.8
District No. 6: Atlanta Birmingham	8.9 21.9	$\begin{array}{c} 11.1\\ 21.3 \end{array}$	3.6 17.3	5.5 14.6	6.8	10.7	13.9	5.6	591.1	632.4 500 .9	5.1 7.2	9.6
Chattanooga Nashville	0.5	-15.3 2,1	-15.0 4.8	-4.9 0.0	-3.9 -17.0	0.8 -14.1	7.0	-17.1	470.7 295.2	966.0 599.3		7.0
New Orleans. Savannah	-3.8	$-\frac{2.1}{8.2}$ -12.7	-5.3 -16.8	-8.5 -20.1	-7.8 -4.0 -22.7	5.8 0.2 17.3	6.1 7.2 9.2	5.7 5.2 2.6	$575.1 \\ 565.3 \\ 704.4$	573.3 708.2	$\begin{array}{c} 6.9 \\ 11.2 \\ 6.2 \end{array}$	11.0
Outside District	4.2	-4.0 -1.6	-2.6 -1.6	-6.6 -3.7	-14.4 -6.3	-17.8 -3.9	13.4 8.6	6.9 6.0	$634.2 \\ 550.1$	656.6 593.4	5.7 8.0	8.7 9.7 9.5
District No. 7: Chicago		5.3	6.2	2.2	1.2	-9.5	6.9	4.2	310.9	3 9 0.1	5.1	6.7
Detroit	28.21	18.1	$20.5 \\ -3.0$	15.4	-2.7 -3.5	1. ĭ	-5.1 2.5	13.4	335.3 661.5	394.3	11. î 6. 0	11.1
Milwaukee Indianapolis Des Moines	10.6 8.6		6.4 10.3		3.5		5.7		316.2		6.8	
Outside District	$\begin{array}{c} 5.2\\ 15.2 \end{array}$	$-3.4 \\ 7.6$	1.2 9.4	-3.5 5.7	-5.9 -2.5	-4.1 -2.4	8.1 2.7	9 .2 10.6	588.5 428.8	$575.7 \\ 473.4$	7.1 8.8	7.4 9.3
District No. 8: St. Louis	9.9	0.5	3.0	-1.4	-4.3	4.4	5.0	10.0	470.3	457.0	9.2	8.6
Louisville Memphis Little Rock	-0.6 19.3	-5.5 11.8	1.4 11.6	-0.6	18.9	-18.9 -11.9	13.1 15.1	14.7	395.1 534.4	418.9 644.9	6.8 11.2	8.5 11.1
Outside	5.6 4.9 8.6	-8.2 9.0 0.9	-16.9 -5.0	-12.8 -11.5	-12.6	-0.8 -2.7	$ \begin{array}{c} 16.8 \\ 6.6 \\ 9.7 \end{array} $	7.7 6.0	557.2 552.3	770.1	7.0 9.1	$11.0 \\ 11.3$
District District No. 9 District No. 10:	8.0 4.1	-0.9	2.3 1.7	-0.8	-6.4 -3.0	-7.0 -2.8	8.7 4.9	8.8 4.8	480. 8 472. 9	525. 9 486. 6	9.0 7.7	9.0 8.1
Kansas City	-2.6 -4.1	-13.4 -5.7	-7.7 -1.5	12.9	-11.9 0.3	$-6.2 \\ -0.1$	1.9 6.2	12.3 6.2	$530.0 \\ 517.4$	591.8 599.2	6.2 10.7	$7.3 \\ 12.2$
Denver. Outside District	5.9 0.7	-9.1 -9.5	-1.0 0.0 -3.3	-7.9	$-5.2 \\ -6.6$	-3.3 -3.3	8.2 5.5	19.2 12.7	578.9 542.5	615.9 601.8	9.8 8.2	12.2 10.5 9.9
District No. 11: Dallas		2.5	9.0	-6.6	-12.0	-10.7	3.7	9.8	471.4	573.4	8.9	9.9 14.0
Fort Worth Houston	16.4	-5.1 0.9	2.8 -1.8	-7.8 -1.2	-9.1 -10.0	-10.4 -4.9	8.9 4.2	10.0 12.5	536.1 591.9	589.1 638.3	7.9 7.7	10.8 10.0
Outside District	6.1	-13.8 -4.2	-11.0	-13.9 -8.2	-14.5	-15.7 -11.0	8.9 6.0	13.9 11.5	507.2 511.3	547.2 579.8	5.2 7.7	8.9 11.9
District No. 12: Los Angeles	1 1	7.2	6.0	6.7	-13.1	-20.4	4.1	-3.3	411.6	389.6	7.5	8.9
San Francisco Oakland	3.9 3.6	4.3	3.7 0.2	3.5 1.4	-3.6 -4.0	$-1.2 \\ -0.8$	7.6 5.6	$5.4 \\ 6.6$	458.1 571.3	457.5	8. 1	13.3
Seattle	$8.6 \\ -6.1$	13.0 5.6	10.5 -5.6	11.5 -5.8	-0.1 1.6	-0.1 0.3	4.0 4.5	13.1 5.3	388.8 653.4	297.8 691.8	9.5 7.4	10.4 8.5
Salt Lake City District	-0.4 3.7	0.2 5.7	-1.9 4.3	2.8 4.8	-1.7 -5.7	-3.4 -7.6	6.5 5.7	$6.8 \\ 4.1$	590.7 455.7	306.7 454.4	4.5 7.9	10.6
United States	11.9	3.2	5.1	ĩ. ĩ	3.8	-3.4	8.1	6.5	457.4	486.2	8.2	9.0
17134-227												

17134-22----7

VALUE OF RETAIL TRADE.

[Average monthly value 1919=100.]

	De-	36-8		Chain	stores.	ri 		Do-	36-21		Chain	stores.	•
	part- ment stores (176 stores).	Mail- order houses (4 houses).	Gro- cery (16 chains).	Five and ten (4 chains).	Drug (7 chains).	Cigar (3 chains).		part- ment stores (176 stores).	Mail- order houses (4 houses)	Gro- cery (16 chains).	Five and ten (4 chains).	Drug (7 chains).	Cigar (3 chains).
1919. January. February. March. April. May. June. June. July. August. September. October. November. December.	75.7 68.9 85.4 98.3 98.1 93.1 77.2 77.6 96.4 124.6 122.1 182.7	$\begin{array}{c} 86.1\\ 73.1\\ 82.6\\ 91.5\\ 81.3\\ 74.5\\ 76.1\\ 82.1\\ 102.1\\ 102.1\\ 155.9\\ 148.2\\ 146.4 \end{array}$	89.4 86.0 95.7 92.9 94.3 90.3 101.2 98.6 100.2 119.8 111.5 120.2	70. 2 72. 3 90. 8 93. 9 96. 4 86. 3 87. 9 94. 6 92. 5 107. 9 112. 1 195. 1	92.7 96.6 95.3 94.4 93. i 100.8 101.5 98.5 104.6 103.8 135.0	74.8 77.0 93.7 91.7 102.1 98.2 99.9 96.2 110.2 114.9 149.0	1921. January. February. March. April. May. June. July. August. September. October. November. December.	108.5 79.7 83.2 92.7	69. 1 64. 8 95. 1 77. 5 60. 2 62. 1 49. 3 56. 4 72. 7 88. 6 83. 3 80. 3	124.6 118.4 128.7 121.7 118.8 116.0 115.1 121.4 118.3 118.3 118.3 133.5 144.5	86.1 92.9 121.1 111.9 112.2 109.7 108.0 116.0 113.4 141.9 134.1 241.6	117.3 110.7 123.6 121.8 119.2 120.6 122.1 119.8 119.4 124.2 115.2 146.1	119. 9 116. 5 131. 8 131. 8 129. 5 127. 8 128. 0 128. 0 128. 0 128. 0 124. 8 172. 7
1920. January February March April. May June July. August Soptember December December	118.0 92.2 90.9	120, 2 122, 2 130, 7 107, 5 90, 4 87, 3 80, 7 80, 2 90, 5 103, 7 125, 5 97, 9	127.4 128.1 147.9 153.8 152.4 149.8 159.3 143.3 142.6 142.6 142.6 140.0 137.8	85.6 82.6 111.1 110.6 112.9 108.9 112.0 111.1 111.7 129.9 125.7 214.6		$\begin{array}{c} 106.8\\ 106.1\\ 120.3\\ 123.2\\ 135.6\\ 129.6\\ 137.3\\ 129.2\\ 136.6\\ 151.0\\ 133.9\\ 180.5 \end{array}$	1922. January February March April. June July. August. September	80.0 101.5 111.9 113.9 105.8 78.4	65.3 59.4 83.5 77.1 69.9 68.8 58.4 57.2 176.1	$145.4 \\ 137.4 \\ 136.5 \\ 133.2$	94. 6 100. 8 118. 4 134. 9 129. 6 124. 9 126. 3 130. 4 136. 1	117.0 114.5 123.2 120.3 122.9 123.5 125.7 127.9 123.4	111.0 109.3 124.3 124.5 128.8 105.8 105.8 127.3 126.9 135.4

· Partly estimated.

CONDITION OF WHOLESALE TRADE.

PERCENTAGE OF INCREASE (OR DECREASE) IN NET SALES IN SEPTEMBER, 1922, AS COMPARED WITH SEPTEMBER, 1921.

	Groc	eries.	Dry g	goods.	Hard	ware.	Boot sho		Furn	iture.	Dro	ugs.	Auto pli	sup- es.	Static	mery.	Farn plem	n im- ents.	Auto	tires.
District.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.
No. 2. No. 3. No. 4. No. 5. No. 6. No. 7. No. 8. No. 9.	5.9 -1.5 3.6 2 4.7 -7.3 -1.6	45 37 40 16	2 -1.1 -8.5 -22.6 2.3 6.5 3	$22 \\ \\ 15 \\ 21 \\ 10 \\ 5$	16.024.79.29.618.113.714.0	19 24 17 3 13	-7.7 1.8	12 19 11 10 6		10	19.1 2.8	16 13 3 13			-2.4 34.2	\				
No. 10 No. 11 No. 12	-4.7 17.4 13.9		$ -8.1 \\ -1.0 \\ 1.7$	5 11 15	9.0 33.9 17.2	12		14	.9 25.3 .01	15 15		8	.4	17	8.1	28	78.1 36.9		 4. 1	21

PERCENTAGE OF INCREASE (OR DECREASE) IN NET SALES IN SEPTEMBER, 1922, AS COMPARED WITH THE PRE-CEDING MONTH (AUGUST, 1922.)

					ī				[īī			1		1	
No. 2	7.9	42	0.1	8	7.6		17.7				6.7				-9.6					
No. 3	1.4	67	27.4	22	5.3	35	24.1	12		!	. u	16	• • • • • •		· · · · · ·					
No. 4	4.7	;;	13.9		15.4	·····	19 5		11 0	10	4		• • • • • •		• • • • • •	· • · • • •		• • • • • •		
No. 5	2.9	45	2.1 -2.2	15 21	$9.8 \\ 5.3$	19	13.5 -6.2							¦	58.4		-1.8	· · · · · · · · · · · · · · · · · · ·	••••	
No. 6	8 5.9	40	6.8		5	17			11.0	10	.2		-16.3	8			-1.0			
	-3.5		-2.8	5	3. 3	3	-12.0													
	-6.0	52		6 i	-5.3	13				,				i!			-51.0			
No. 10	8.5		-5.2		3.8				10.6										!	
	22.6		-5.2		21.4						4.3^{1} -4.9						-16.6			
No. 12	8.4	31	6.7	15_{1}	1.0	22	2.2	14	15.5	10	-4.9	9	-4.9	17	3.6	28	-3.8	24	¦ -7.0	21
ł		1						<u></u> _	<u> </u>	<u> </u>	1									ł

DISCOUNT AND OPEN-MARKET OPERATIONS OF FEDERAL RESERVE BANKS.

Following is a set of tables showing the volume of bills discounted and of acceptances and Government securities purchased by the Federal reserve banks during September, 1922:

VOLUME OF OPERATIONS DURING SEPTEMBER, 1922.

	Bills dis-	Bills bought in	pure	tes securities hased.	Municipal	То	tal.
Federal reserve bank.	counted for member banks.	opon market	Bonds and notes.	Certificates of indebtedness.	warrants purchased.	September, 1922.	September, 1921.
Roston. New York. Philadelphia. Cloveland. Richmond. Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	$\begin{array}{c} 391, 409, 970\\ 166, 725, 590\\ 93, 866, 327\\ 75, 707, 957\\ 35, 792, 177\\ 109, 232, 905\\ 69, 051, 278\\ 11, 689, 183\end{array}$	$277,000 \\ 4,117,346$	\$2,060,000 90,889,100 1,037,350 1,036,400 386,650 16,008,500 9,147,750 405,500	$252,962,500 \\ 3,890,000 \\ 636,500 \\ 134,000 \\ 31,744,500 \\ 821,500 \\ 1,848,000 \\ 1,848,000 \\ \end{array}$		$\begin{array}{c} 76, 416, 057\\ 42, 413, 359\\ 181, 857, 549\\ 70, 072, 778\\ 22, 684, 933\\ 20, 285, 980\\ 18, 816, 717 \end{array}$	\$361, 689, 198 1, 561, 218, 110 280, 400, 156 231, 416, 308 226, 412, 844 137, 488, 607 333, 920, 311 133, 337, 983 52, 564, 483 72, 916, 330 66, 064, 545 192, 743, 987
Total: September, 1922 September, 1921 9 months ending Sept. 30, 1922	1, 267, 357, 685 3, 033, 108, 667 13, 439, 405, 613	217,052,760 81,882,895 1,370,127,111	120, 971, 250 11, 303, 300 939, 843, 900	315, 203, 000 523, 968, 000 2, 255, 561, 500	\$137,632	1,920,584,695 18,005,075,756	3, 650, 262, 862
9 months ending Sept. 30, 1921	46, 870, 022, 669	1, 003, 219, 531	41, 269, 750	3, 101, 288, 557		•••••	51, 015, 800, 507

VOLUME OF BILLS DISCOUNTED DURING SEPTEMBER, 1922, BY CLASSES OF PAPER; ALSO NUMBER OF MEMBER BANKS ACCOMMODATED.

	Customers' paper	Member bank note		Commercial	Agricul-	Live-	Banl	kers' accepts	nces.
Federal reserve bank.	secured by Govern- ment obli- gations.	Secured by Government. obligations.	Other- wise secured.	paper, n. c. s.	tural paper.	stock paper.	Foreign.	Domestic.	Dollar exchange.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	$1,489,952 \\121,885 \\49,084 \\120,037 \\102,424 \\149,461 \\182,716 \\6,785$	$\begin{array}{c} \$51, 240, 800\\ 294, 538, 450\\ 117, 097, 350\\ 70, 709, 900\\ 58, 797, 545\\ 6, 591, 850\\ 61, 775, 977\\ 48, 131, 230\\ 5, 301, 270\\ 9, 382, 080\\ 5, 574, 336\\ 73, 080, 022 \end{array}$		\$102, 821, 253 94, 768, 177 49, 289, 512 21, 612, 464 11, 648, 473 25, 208, 816 39, 350, 927 17, 671, 869 3, 580, 927 4, 889, 248 4, 839, 241 28, 815, 393	\$416, 181 420, 876 153, 767 141, 378 2, 866, 668 3, 157, 852 7, 720, 889 2, 395, 548 1, 744, 072 1, 704, 164 1, 191, 944 1, 245, 655	\$7, 872 5, 855 79, 608 22, 893 151, 222 86, 437 563, 576 3, 515, 906 2, 353, 185 647, 431		\$33,000	
Total: September, 1922 August, 1922 September, 1921 August, 1921	1, 592, 541 46, 059, 694	802, 270, 810 727, 893, 985 1, 564, 636, 534 2, 021, 810, 753	24,357,058 26,072,966 34,920,255 33,017,993	404, 496, 350 303, 907, 508 1, 318, 405, 581 1, 344, 637, 416	23, 158, 994 25, 994, 308 43, 283, 772 41, 288, 185	7, 433, 985 6, 434, 590 15, 212, 842 13, 745, 037		33,000 7,540 2,605,480 1,417,632	

	Trade acc	eptances.		Total reduced t maturity			Member bar	ıks.
Federal reserve bank.	Foreign.	Domestic.	Total all classes.	Amount.	Per cent.	Number in district	Accomn	nodated.
	Foreign.				of total.	Sept. 30.	Number.	Per cent.
Boston		$136,660\\ 63,076\\ 1,095,893\\ 240,341\\ 383,213\\ 104,651\\ 550,478\\ 21,675\\ 1,742\\ 123,705$	$\begin{array}{c} \$154, 774, 919\\ 391, 409, 970\\ 166, 725, 590\\ 93, 866, 327\\ 75, 707, 957\\ 35, 792, 177\\ 109, 232, 905\\ 69, 051, 278\\ 11, 689, 183\\ 19, 574, 480\\ 14, 549, 371\\ 124, 983, 528\\ \end{array}$	$\begin{array}{c} {\rm $76,956,539}\\ {\rm $188,455,816}\\ {\rm $96,624,865}\\ {\rm $77,159,743}\\ {\rm $83,974,527}\\ {\rm $199,743,374}\\ {\rm $268,046,232}\\ {\rm $102,483,373}\\ {\rm $41,787,007}\\ {\rm $59,770,893}\\ {\rm $41,787,007}\\ {\rm $59,770,893}\\ {\rm $51,305,721}\\ {\rm $100,936,441} \end{array}$	$\begin{array}{c} 6.1\\ 14.9\\ 7.6\\ 6.1\\ 6.6\\ 9.4\\ 21.2\\ 8.1\\ 3.3\\ 4.7\\ 4.0\\ 8.0\\ \end{array}$	$\begin{array}{r} 429\\804\\714\\882\\629\\540\\1,444\\606\\1,019\\1,151\\863\\836\end{array}$	160 264 300 278 328 298 715 271 288 316 425 301	$\begin{array}{c} 37.3\\ 32.8\\ 42.0\\ 31.5\\ 55.2\\ 49.5\\ 44.7\\ 28.3\\ 27.5\\ 49.2\\ 36.0 \end{array}$
Total: September, 1922 August, 1922 September, 1921 August, 1921	\$7.98	2,968,305 2,402,539 4,509 4,506	1, 267, 357, 685 1, 094, 305, 977 3, 033, 108, 667 3, 513, 063, 190			9, 917 9, 917 9, 807 9, 802	3,941 4,042 5,427 5,453	39, 8 40, 8 55, 3 53, 6

1 Total discounts multiplied by ratio of average maturity of bills discounted by each bank to average maturity (13.43) for system.

e e Second

VOLUME OF BILLS DISCOUNTED DURING SEPTEMBER, 1922, 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.	391,409,970	\$166,725,590	166,725,590	Per cent. 4.00 4.00 4.50	Days. 6.68 6.46 7.78
Cloveland Richmond Atlanta.		75,707,957 35,792,177 109,232,905	93, 866, 327 75, 707, 957 35, 792, 177 109, 232, 905	4.50 4.50 4.50 4.50	11. 04 14. 89 44. 96 32. 95
St. Lõuis Minneapolis. Kansas City. Dallas.		$\begin{array}{r} 11,689,183 \\ 19,574,480 \\ 14,549,371 \end{array}$	69,051,278 11,689,183 19,574,480 14,549,371	4.50 4.50 4.50 4.50	19.93 48.00 41.00 47.35
San Francisco. Total: September, 1922. August, 1922			1,267,357,685 1,094,305,977	4.00	10. 84 13. 43 13. 48

¹ Includes \$8,873,772 of bills discounted at 5 per cent.

VOLUME OF BANKERS' AND TRADE ACCEPTANCES PURCHASED DURING SEPTEMBER, 1922, BY CLASSES.

Federal reserve bank.		Bankers' ac	ceptances.		Trad	le acceptar	nces.	Total bills	Total redu common m basis	aturity
	Foreign.	Domestic.	Dollar. exchange.	Total.	Foreign.	Domestic.	Total.	purchased.	Amount	Per cent of total.
Boston New York. Philadelphia Cleveland. Richmond Atlanta. Chicago. St. Louis Minneapolis	$\begin{array}{c} 84,848,511\\ 1,872,093\\ 7,857,560\\ 112,500\\ 4,796,332\\ 17,622,683\end{array}$	$\begin{array}{c} \$7, 641, 630\\ 19, 980, 355\\ 879, 867\\ 2, 577, 962\\ 595, 600\\ 1, 304, 200\\ 6, 842, 261\\ 200, 000\\ \end{array}$	3,131,000 20,000 201,971 406,700	$ \begin{array}{r} 10,817,493 \\ 708,100 \\ 6,100,532 \end{array} $	\$1,139,956	\$148,715 75,210	\$1,288,671 75,210	$\begin{array}{c} 109, 248, 537\\ 2, 771, 960\\ 10, 892, 703\\ 708, 100\\ 6, 100, 532 \end{array}$	14,348,789	9.7 45.7 1.8 6.6 .4 2.8 15.4 .1
Kansas City. Dallas. San Francisco	3,686,268	$277,000 \\ 381,078 \\ 9,410,421$	50,000 746,188	$\begin{array}{r} 277,000\\ 4,117,346\\ 34,592,329\end{array}$	44,994		44,991	$\begin{array}{r} 277,000\\ 4,117,346\\ 34,637,323\end{array}$	436,842 3,708,153 33,829,127	$\begin{array}{r} .2\\ 1.7\\ 15.6\end{array}$
Total: Sept., 1922 Aug., 1922	160,792,652 144,236,793	50,270,374 34,287,658		215,643,885 184,828,097		223,925	1,408,875 379,034	217,052,760 185,207,131	217,052,760	100.0
Sept., 1921 Aug., 1921		23, 591, 388 21, 711, 986	3,489,516 5,795,624	81,772,017 107,270,061		 		81,882,895 107,303,045		

¹ Total purchases multiplied by ratio of average maturity of bills purchased by each bank to average maturity (51.24) for system.

VOLUME OF ACCEPTANCES PURCHASED DURING SEPTEMBER, 1922, BY RATES OF DISCOUNT CHARGED; ALSO AVERAGE RATES AND MATURITIES.

Federal reserve bank.	3 per cent.	3½ per cent.	3 ₁₈ per cent.	31 per cent.	33 per cent.	3½ per cent.	33 per cent.	3‡ per cent.	37 per cent.	4 per cent.	44 per cent.	Total.	Av- erage rate (365 day ba- sis).	Av- erage matu- rity.
Boston New York Philadelphia Cleveland Richmond Atlanta. Chicago St. Louis	2, 313, 313 5, 302, 763 481, 974 10, 779, 873	17, 814, 173 313, 447 2, 518, 611 2, 778, 279	168, 518 210, 000	2,756,601 140,000	175,709	\$63, 782 1, 571, 814 70, 000 600, 000 524, 000	\$25, 842 67, 353	\$8,550 78,015		\$3, 300 76, 210	\$568, 100 1, 310, 992	\$23, 227, 615 109, 248, 537 2, 771, 960 10, 892, 703 708, 100 6, 100, 532 24, 871, 644 200, 000	3.08 3.18 4.31 3.57 3.17	46.56 71.73 67.50 59.72 51.11 68.66
Minneapolis Kansas City Dallas San Francisco Total: Sept.,	2,036,513 14,086,210	1, 071, 873 14, 762, 410	91,210	877, 602 4, 121, 633	570, 688	31, 358 884, 325		100, 000 41, 716	\$79, 125		277,000	277,000 4,117,346 34,637,323	3.21	80. 81 46. 15 50. 04
1922	73, 918, 629 114, 057, 588	1					1. I I					217, 052, 760 1 185,207,131		

¹ Includes \$75,000 of acceptances purchased at 5 per cent.

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

HOLDINGS OF EARNING ASSETS, BY CLASSES.

Following is a set of tables giving a detailed analysis of the different classes of carning assets held by the Federal reserve banks at the end of September, 1922:

AVERAGE DAILY HOLDINGS OF EACH CLASS OF EARNING ASSETS, EARNINGS THEREON, AND ANNUAL RATES OF EARN-INGS DURING SEPTEMBER, 1922.

	ب۷	verage daily h	oldings of—	-		Earning	s on—		Annu	al rate of	f earning	s on
Federal reserve bank.	All classes of carning assets.	Dis- counted bills.	Pur- chased bills.	United States securities.	All classes of earning assets.	Dis- counted bills.	Pur- chased bills.	United States securi- ties.	All classes of carning assets.	Dis- counted bills.	Pur- chased bills.	United States securi- ties.
Boston. New York. Philadelphia. Cleveland. Richmond. Atlanta. Chicago. St. Louis. Minrcapolis. Kansas City. Dallas. San Francisco.	\$79, 299, 983 278, 251, 537 100, 601, 193 125, 910, 842 43, 347, 324 42, 418, 712 103, 747, 217 64, 748, 348 39, 433, 999 64, 255, 276 42, 767, 245 128, 555, 363	53, 220, 397 40, 138, 742 26, 881, S05 38, 239, 222 33, 490, 858 54, 077, 104 22, 181, 556 36, 362, 633 19, 432, 143 33, 778, 011.	69, 253, 357 26, 851, 598 33, 858, 504 407, 200 2, 656, 976 14, 188, 893 14, 330, 825 76, 733	$\begin{array}{c} 155, 777, 783\\ 33, 610, 853\\ 65, 170, 473\\ 4, 700, 900\\ 6, 270, 878\\ 35, 481, 160\\ 28, 235, 967\\ 13, 053, 033\\ 44, 746, 400\\ 5, 745, 500\\ \end{array}$	\$236, 847 \$11, 289, 325, 335 390, 615 150, 903 331, 596 206, 932 143, 191 215, 671 152, 196, 402, 013	$175,072 \\ 148,440 \\ 99,581 \\ 141,513 \\ 123,971 \\ 200,165 \\ 82,085 \\ 104,886 \\ 77,112 \\ 131,472 \\ 131,472 \\ 131,472 \\ 131,472 \\ 131,1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 1000 \\ 10$	67, 678 86, 379 1, 515 7, 790 35, 914 36, 268 375 8, 218	458, 066 109, 217 204, 655	3, 55 3, 93 3, 78 4, 24 4, 17 3, 89 3, 89 4, 42 4, 08 4, 33	4.00 4.50 4.50 4.50 4.50 4.50 4.50 4.84 4.83 4.74	3. 10 4. 53 3. 57 3. 08 3. 08 5. 94 3. 08	3.58 3.58 3.95 3.82 2.04 2.63 3.28 3.82 3.82 3.56 3.76 2.65
Total: Sept., 1922. Aug., 1922.	l, 113, 337, 037 l, 053, 098, 212	416, 612, 107 396, 243, 184	209, 786, 158 159, 020, 851	486, 920, 439 497, 824, 877	3, 511, 891 3, 445, 314	1, 514, 089 1, 502, 777	535, 565 420, 119	1, 462, 166 1, 522, 410	3.84 3.85			3.65 3.60
Sept., 1921. Aug., 1921.	1, 740, 473, 882 1, 844, 940, 407	1, 445, 689, 968 1, 558, 012, 798	40, 020, 253 38, 157, 531	254, 763, 661 248, 770, 078	7, 647, 567 8, 492, 069	6, 951, 881 7, 826, 240	175, 311 173, 556	520, 375 492, 273				

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: Minneapolis, \$18,333, \$71, and 4.69 per cent.

HOLDINGS OF DISCOUNTED BILLS, BY CLASSES.

		[End	or septem	iber ngures	s. In thou	sands of do	mars.j					
		Custom- ers'		r banks' al notes.				Banko	rs' accep	tances.		accept- ces.
Federal reserve bank.	Total.	paper secured by Gov- ernment obliga- tions.	Secured by Gov- ernment obliga- tions.	Other- wise secured.	Commer- cial paper, n. e. s.	Agricul- tural paper	Live- stock paper	For- eign.	Domes- tic.	Dollar ex- change.	r or-	Domes- tic.
Boston New York	36, 443 70, 079	428 486	9,440 49,620		25,600 19,116	862 592	10		 			103 265
Philadelphia Cleveland Richmond	41,333 25,173	219 338 300	28,500 12,626 14,157	159 1,453	12, 171 10, 129 17, 728	364 571 8,658		· · · · · · · · · ·				79 1,105 418
Atlanta Chicago	42,773 37,791 60,983	179 156	1,864	35	23, 878 21, 370	10,408 22,139	1,031					344 393
St. Louis Minneapolis	28,753 25,953	$\begin{array}{c} 169 \\ 17 \end{array}$	8,658 2,186	329	11,812 3,944	7,286 11,812	$358 \\ 7,467$	 •••••	· · · · · · · · · ·			437 198
Kansas City Dallas San Francisco	22,996 29,614 41,805	118 23 120	2,685 1,910 11,691	292 10, 144	5, 685 5, 791 7, 184	4, 731 10, 096 9, 304	11.339					2 163 189
Total: Sept. 30, 1922 Aug. 31, 1922	463, 696 397, 448	2, 553 2, 525	160,227 123,588	12,499 12,374	$164,408\\123,316$	86, 823 97, 404	33, 457 34, 903		33 43		116	3,696 3,179
Sept. 30, 1921 Aug. 31, 1921	1, 413, 013 1, 491, 935	67, 870 82, 053	428, 974 463, 123	18,048 16,242	671, 810 695, 691	$152,251 \\ 157,394$	63, 749 65, 033	503 635	342 1,080		91 104	9,375 10,580

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

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

		All classes.]	Bankers' a	cceptances	j.	Tra	de accepta	ances.
Federal reserve bank.	Total.	Pur- chased in open market.	Dis- counted. for member banks.	Total.	Foreign.	Domestic.	Dollar exchange.	Total.	Foreign.	Domestic
Boston . New York. Philadelphia. Cleveland . Richmond. Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas.	39,783 1,202 5,301 17,205 12,008 198 279	$\begin{array}{c} 17,216\\ 85,174\\ 22,188\\ 38,678\\ 784\\ 4,957\\ 16,812\\ 11,538\\ \end{array}$	103 265 79 1,105 418 344 393 470 198 2 2 163	17, 216 83, 842 22, 116 38, 628 784 4, 957 16, 812 11, 571 277 6, 660	10,508 64,531 17,801 31,491 113 4,126 13,111 11,038	5,708 15,624 3,985 7,037 671 831 3,405 433 277 1,304	1,000 3,687 330 100 	$103 \\ 1, 594 \\ 151 \\ 1, 155 \\ 418 \\ 344 \\ 393 \\ 437 \\ 198 \\ 2 \\ 163$	1, 180 72	103 414 79 1,155 418 344 393 437 198 2 163
San Francisco Total: Sept. 30, 1922 Aug. 31, 1922 Sept. 30, 1921	40,283	40,094	189	40,054	31,688 189,688 143,963 29,145	46, 415 29, 587 15, 022	1, 226 6, 814 5, 817 1, 594	229 5;187 4,147 9,592	40 1,292 968 217	189 3,895 3,179 9,375
Purchased in open market: Sept. 30, 1922		180,176		242, 884 179, 324 44, 916	189, 688 143, 963 28, 642	46, 382 € 29, 544 14, 680	6, 814 5, 817 1, 594	1, 491 852 126	1,292 852 126	199
Discounted for momber banks: Sept. 30, 1922. Aug. 31, 1922. Sept. 30, 1921.			3,729 3,338 10,311	33 43 845	503	43		3, 696 3, 295 9, 466	116 91	3, 696 3, 179 9, 375

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

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

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

		Member	r banks.	Nonmem- ber banks	Private	Branches and
Federal reserve bank.	Total.	National.	Non- National.	and bank- ing cor- porations.	banks.	agencies of foreign banks.
Boston New York Philadelphia Cleveland Richmond	17, 216 83, 842 22, 116 38, 628 784	9,492 31,142 9,314 16,229 644	5, 372 26, 013 6, 431 15, 647	2,002 9,756 2,880 3,609	350 10,600 2,415 1,958 140	6, 331 1, 076 1, 185
Atlanta. Chicago. St. Louis . Minneapolis.	4,957 16,812 11,571	740 7,939 4,872	2, 193 7, 125 6, 119	2,024 1,604 547	33	144
Kansas City Dallas San Francisco	$277 \\ 6,660$	277 3, 072 16, 951	2, 486 11, 481	538 4, 940	216 3, 427	348 3,255
Total: Sept. 30, 1922. Aug. 31, 1922. Sept. 30, 1921. Purchased in open market:	179, 367	$100,672 \\74,182 \\17,896$	82, 867 61, 808 16, 111	27,900 23,246 5,245	19, 139 12, 482 2, 644	12, 339 7, 649 3, 865
Sept. 30, 1922. Aug. 31, 1922. Sept. 30, 1921.	242, 884 179, 324 44, 916	100, 639 74, 147 17, 767	82, 867 61, 800 15, 859	27, 900 23, 246 4, 813	19, 139 12, 482 2, 635	12, 339 7, 649 3, 842
Disconinted for member banks: Sept. 30, 1922. Aug. 31, 1922. Sept. 30, 1921.	43	33 35 129	8 252	432	9	23

BANKING CONDITIONS, BY FEDERAL RESERVE DISTRICTS.

For the four weeks ending October 18, 1922, reporting member banks in all the Federal reserve districts show increases in their loan account, the aggregate increase for all the reserve districts being \$366,000,000, of which \$112,000,000 is reported for New York City and \$65,000,000 for Chicago. Government security holdings also show a total increase of \$69,000,000, all the Federal reserve districts except Atlanta, Minneapolis, and Dallas reporting larger totals than four weeks earlier. Government security holdings declined for the first three weeks of the period, but show an increase for the week ending October 18 as a result of the issue by the Government of the refunding loan on October 15. Holdings of

corporate securities show an increase of \$17,-000,000 in New York City, offset by a decrease of \$7,000,000 in the other cities. Demand deposits advanced by \$245,000,000, of which \$127,000,000 is reported for the member banks in New York City. The only district for which demand deposits of reporting member banks do not show an increase is Kansas City, where a nominal decline is shown. Time deposits show a moderate increase in all the districts except Boston and New York. Accommodation at Federal reserve banks increased by \$110,000,000, of which \$49,000,000 was in New York City and \$18,000,000 in Chicago.

CHANGES IN PRINCIPAL RESOURCES AND LIABILITIES OF REPORTING MEMBER BANKS IN EACH FEDERAL RESERVE DISTRICT BETWEEN SEPTEMBER 20 AND OCTOBER 18, 1922.

Federal reserve district.	Loans cou	and dis- nts.	United States Gov- ernment securi- tics.				Demand deposits.		Time d	leposits.		odation at 1 reserve
	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease
Boston . New York New York City . Philadelphia Cleveland Richmond Atlanta. Chicago City of Chicago . St. Louis Minneapolis	21 80 65 22		1 6 19			2 1 2 4	$\begin{array}{c} 31 \\ 133 \\ 127 \\ 10 \\ 3 \\ 8 \\ 13 \\ 111 \\ 7 \\ 8 \\ 2 \end{array}$			3 11 15	$\begin{array}{c} 4\\ 56\\ 49\\ 3\\ 9\\ 5\\ 2\\ 24\\ 18\\ 1\\ 1\end{array}$	
Kansas City Dallas San Francisco	16		3 5	4	1	2	15 12	1	3 6		5 1	
Total	366		69		10		245		29		110	

[In millions of dollars.]

A comparison of Federal reserve bank dis- | cities and for nonreporting member banks is counts for reporting member banks in leading | presented in the table below:

FEDERAL RESERVE BANK DISCOUNTS FOR REPORTING AND FOR NONREPORTING MEMBER BANKS IN EACH DISTRICT.

 $[\Lambda mounts in thousands of dollars.]$

Federal Reserve	Total discounts for member banks.			Discounts for reporting member banks.			Discounts for nonreporting member banks.			porting	age discounts for re- g member banks are l discounts.		
district.	Nov. 5, 1920.	July 26, 1922.	Oet. 18, 1922.	Nov. 5, 1920.	July 26, 1922.	Oet. 18, 1922.	Nov. 5, 1920.	July 26, 1922.	Oct. 18, 1922.	Nov. 5. 1920,	July 26, 1922.	Oct. 18, 1922.	
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	108,871 165,489	$\begin{array}{c} 26,047\\ 30,610\\ 41,278\\ 24,967\\ 35,509\\ 29,968\\ 52,246\\ 16,027\\ 25,984\\ 18,205\\ 33,556\\ 45,034 \end{array}$	$\begin{array}{c} 30,675\\ 102,506\\ 42,452\\ 42,384\\ 43,283\\ 35,734\\ 82,923\\ 25,673\\ 23,275\\ 24,089\\ 21,525\\ 36,580 \end{array}$	$\begin{array}{c} 97,907\\ 950,071\\ 115,068\\ 73,842\\ 76,520\\ 119,152\\ 377,980\\ 115,163\\ 72,920\\ 118,502\\ 49,845\\ 111,465\end{array}$	$\begin{array}{c} 16,513\\ 15,469\\ 15,737\\ 7,700\\ 8,064\\ 4,123\\ 7,196\\ 2,495\\ 2,732\\ 2,254\\ 3,943\\ 11,606 \end{array}$	$\begin{array}{c} 21,956\\ 89,980\\ 20,381\\ 25,945\\ 19,520\\ 13,325\\ 40,756\\ 11,192\\ 2,997\\ 10,351\\ 5,636\\ 11,538\end{array}$	$\begin{array}{c} 21,423\\ 38,192\\ 33,903\\ 14696\\ 48,941\\ 57,750\\ 104,684\\ 37,801\\ 35,380\\ 42,570\\ 59,026\\ 54,024 \end{array}$	9, 534 15, 141 25, 541 17, 267 25, 845 45, 050 13, 532 23, 202 15, 951 29, 913 33, 428	$\begin{array}{c} 8,719\\ 12,526\\ 22,071\\ 16,439\\ 23,763\\ 22,409\\ 42,167\\ 14,481\\ 20,278\\ 13,738\\ 15,889\\ 25,042 \end{array}$	$\begin{array}{c} 82.0\\ 96.1\\ 77.2\\ 83.4\\ 61.0\\ 67.4\\ 78.3\\ 75.3\\ 67.3\\ 73.6\\ 45.8\\ 67.4\\ \end{array}$	$\begin{array}{c} 63.\ 4\\ 50.\ 5\\ 38.\ 1\\ 30.\ 8\\ 22.\ 5\\ 13.\ 8\\ 13.\ 8\\ 15.\ 6\\ 10.\ 5\\ 12.\ 4\\ 11.\ 6\\ 25.\ 8\end{array}$	$\begin{array}{c} 71.6\\ 87.8\\ 48.0\\ 61.2\\ 45.1\\ 37.3\\ 49.1\\ 43.6\\ 12.9\\ 43.0\\ 26.2\\ 31.5\end{array}$	
Total	2,826,825	379, 981	511,099	2, 278, 435	97,832	273, 577	548, 390	282,149	237, 522	80.6	25.7	53. 5	

NOVEMBER, 1922.

	Increase (+) or dec discou		n total	Increase (+ in	·) or decre	ease (-) for er banks.	r report-	Increase rep	ase (+) or decrease () for non- reporting member banks.			
Federal Reserve district.	Nov. 5, 1920, to July 26, 1922. July 26, 1922, to Oct. 18, 1922.					July 26, 1922, to Oct. 18, 1922.		1920, to , 1922.	July 26, 1922, to Oct. 18, 1922.				
	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	
Boston New York. Philadelphia Cleveland Richmond. Atlanta St. Louis. St. Louis Minneapolis. Kansas City Dallas. San Francisco	$\begin{array}{c} -93,283\\ -957,653\\ -107,093\\ -63,571\\ -89,652\\ -146,934\\ -430,418\\ -136,937\\ -82,366,\\ -142,867\\ -75,015\\ -120,455\\ \end{array}$	$\begin{array}{c} -78.2 \\ -96.9 \\ -72.3 \\ -71.8 \\ -71.5 \\ -83.1 \\ -89.2 \\ -89.5 \\ -76.1 \\ -88.7 \\ -68.9 \\ -72.8 \end{array}$	$\begin{array}{r} +4,628\\ +71,896\\ +1,174\\ +17,417\\ +7,474\\ +5,766\\ -2,659\\ +9,646\\ -2,659\\ +5,884\\ -12,331\\ -8,454\end{array}$	$\begin{array}{r} +17.8\\ +234.9\\ +2.8\\ +69.8\\ +20.9\\ +19.2\\ +58.7\\ +60.2\\ -10.3\\ +32.3\\ -36)4\\ -18.8\end{array}$	$\begin{array}{r} -81,394\\ -934,602\\ -99,331\\ -66,142\\ -68,456\\ -115,029\\ -370,784\\ -112,668\\ -70,188\\ -70,188\\ -116,248\\ -45,902\\ -99,859\end{array}$	$\begin{array}{c} -83.1 \\ -98.4 \\ -86.3 \\ -89.6 \\ -89.5 \\ -96.5 \\ -98.1 \\ -97.8 \\ -96.3 \\ -98.1 \\ -92.1 \\ -89.6 \end{array}$	$\begin{array}{r} +5,443\\+74,511\\+4,644\\+18,245\\+11,456\\+9,202\\+33,560\\+8,607\\+205\\+8,097\\+1,693\\-68\end{array}$	$\begin{array}{r} +33.0\\ +481.7\\ +29.5\\ +236.9\\ +142.1\\ +223.2\\ +466.4\\ +348.6\\ +9.7\\ +359.2\\ +42.9\\6\end{array}$	$\begin{array}{r} -11,889\\ -23,051\\ -8,302\\ +2,571\\ -21,196\\ -31,905\\ -59,634\\ -24,269\\ -12,178\\ -26,619\\ -29,113\\ -20,596\end{array}$	$\begin{array}{r} -55.5 \\ -60.4 \\ -24.7 \\ +17.5 \\ -43.3 \\ -55.2 \\ -57.0 \\ -64.2 \\ -34.4 \\ -62.5 \\ -49.3 \\ -38.1 \end{array}$	$\begin{array}{r} -815\\ -2,615\\ -3,470\\ -828\\ -3,982\\ -3,436\\ -2,883\\ +949\\ -2,924\\ -2,213\\ -14,024\\ -8,386\end{array}$	$\begin{array}{r} -8.5 \\ -17.3 \\ -13.6 \\ -4.8 \\ -14.4 \\ +13.3 \\ -6.4 \\ +7.0 \\ -12.6 \\ -13.9 \\ -46.9 \\ -25.1 \end{array}$	
Total	-2, 446, 844	-86.6	+131,118	+34.5	-2,180,603	-95.7	+175,745	+179.6	-266,241	-48.5	-44,627	-15.8	

FEDERAL RESERVE BANK DISCOUNTS FOR REPORTING AND FOR NONREPORTING MEMBER BANKS IN EACH DISTRICT-Continued.

The dates shown in the table are November | 5, 1920, when the peak of credit expansion was reached, July 26, 1922, when the discounts for reporting member banks were at their lowest, and October 18, the latest available date. During the period between November 5, 1920, and July 26, 1922, total holdings of paper discounted for member banks declined in all the Federal reserve districts, the largest per cent, for Dallas. During the twelve weeks after July 26, increases in discounts are shown for nine of the Federal reserve districts. Continued liquidation was reported for the Minneapolis, Dallas, and San Francisco banks, the largest proportion of liquidation, amounting to 36 per cent, being shown for Dallas. Of the increases, by far the largest, amounting to \$72,000,000, is shown for the New York reserve bank.

In comparing the changes during the first period for reporting member banks and for nonreporting member banks, it is to be noted that, while drastic reduction of loans is reported by both classes of banks, the reporting member banks in leading cities reduced their borrowings from the reserve banks by about 96 per cent, while the banks outside of these cities show a reduction of only 49 per cent. For the banks in leading cities reductions are shown in all the districts, the percentages of reduction ranging from a minimum of 83 per cent for Boston to over 98 per cent for New York and Chicago. The banks in smaller places also show liquidation for every district but one. In Cleveland, where Federal reserve bank credit was not utilized by member banks in the district to the same extent as in other reserve districts, the borrowings of member banks outside of the large centers show an increase of about 18 per cent between city banks, the country banks in all the dis-

November 5, 1920, and July 26, 1922. The range of percentages of decline for the other eleven districts is between 24.7 per cent in Philadelphia and 64.2 per cent in St. Louis.

During the most recent 12 weeks, increases in borrowings from Federal reserve banks by reporting member banks are shown for all the districts, except Dallas, San Francisco, and Minneapolis, the decrease in the first named district being substantial-\$12,000,000, or 36 per cent. Increases in the different districts were uneven, ranging from 3 per cent in the Philadelphia district to 235 per cent in the New York district. Of the total increase of \$131,000,000, the New York banks' share is about \$72,000,000. Among the member banks outside of the leading centers continued liquidation is shown for the most recent 12 weeks in all the districts, except St. Louis, where an upward turn is recorded. The decréases are of varying amounts, and in the case of the Dallas district they total as much as \$14,000,000, or 47 per cent. In none of the other districts does the reduction amount to as much as 30 per cent.

The general inference to be drawn from this table is that during the period from November 5, 1920, to July 26, 1922, member banks in leading citics liquidated their indebtedness to the Federal reserve banks much more rapidly and more completely than did member banks outside of the leading cities. The liquidation, though differing somewhat from district to district, amounted to over 80 per cent for the reporting member banks in every district, while for nonreporting member banks one district showed an increase and the liquidation did not exceed 65 per cent in the case of any district. During recent weeks the resumption of borrowings from the reserve banks has been almost entirely by the tricts, except St. Louis, reporting further liquidation.

A statement showing the principal items of the condition of the Federal reserve banks for each week between that ending September 27 and that ending October 25 follows:

[In	millions	of	dollars].
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	Cash re- serves.	Bills dis- counted, total.	Govern- ment securi- ties.	Total de- posits.	Federal reserve notes in actual circu- lation.	Reserve ratio.
Sept. 27	3, 203. 1	$\begin{array}{r} 420.2\\ 434.2\\ 524.8\\ 511.1\\ 469.4 \end{array}$	451, 4	1, 840. 1	2, 243. 4	78.4
Oct. 4	3, 213. 0		483, 3	1, 877. 7	2, 274. 7	77.4
Oct. 11	3, 210. 0		474, 6	1, 922. 2	2, 320. 1	75.7
Oct. 18	3, 214. 2		446, 9	1, 956. 1	2, 315. 4	75.2
Oct. 25	3, 211. 9		408, 6	1, 841. 8	2, 298. 5	77.6

Federal reserve bank loans increased by over \$104,000,000 for the first two weeks of the period, but declined by about \$55,000,000 during the second two weeks, the net result being an increase of \$49,000,000 for the four weeks. Similarly, Federal reserve notes in circulation, which increased by \$77,000,000 during the first two weeks, declined by \$22,000,000 during the second two weeks. A moderate increase in cash reserves, accompanied by a net addition of \$55,000,000 to note circulation, with deposits remaining nearly constant, has resulted in a decline of the reserve ratio from 78.4 to 77.6 per cent.

Changes in the principal resources and liabilities of each Federal reserve bank for the four-week period ending October 25 is shown in the following statement:

CHANGES IN PRINCIPAL RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK BETWEEN SEPTEMBER 27 AND OCTOBER 25, 1922.

Federal reserve bank.			Government se- curities.		Total deposits.		Federal notes in c	reserve reulation.	Reserver	percentage.		
Dank.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Increase.	Decrease.	Sept. 27.	Oct. 25.
Boston New York Philadelphia Cleveland Richmond Atlanta. Chicago St. Louis. Minneapolis Kansas City Dallas. San Francisco	7.17.29.13.017.011.52.7	10.5 11.1 24.7 		2.2 2.2 10.6 4.3		41.7 7 10.7 .5 .4 1.9 	5.6 3.6 2.1 3.1 2.1 .6 5.4	0.1 3.7 7.1 7.6 	$\begin{array}{c} 2.1\\ 11.0\\ 6.4\\ 8.9\\ 5.7\\ 8.7\\ 10.6\\ 4.0\\ 3.5\\ 2.1\\ 1.5\end{array}$	9.3	$\begin{array}{c} 81.9\\ 83.7\\ 75.2\\ 71.9\\ 76.7\\ 9\\ 87.7\\ 63.1\\ 65.9\\ 63.8\\ 67.5\\ 67.4\end{array}$	$\begin{array}{c} 76.7\\ 83.4\\ 75.7\\ 74.0\\ 76.4\\ 78.0\\ 83.7\\ 68.6\\ 73.0\\ 63.9\\ 61.7\\ 67.1\end{array}$
Total	8.8	•••••	49.2			42.8	1.6		55.2		78.4	77.6

[Amoun's in millions of dollars.]

CASH RESERVES, TOTAL DEPOSITS, FEDERAL RESERVE NOTE CIRCULATION, AND RESERVE PERCENTAGES FOR OCTOBER AND SEPTEMBER, 1922.

[Daily averages.	Amounts in thousands of dollars.]
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Federal reserve bank.	Total cash	sh reserves. Total deposits. Federal reserve notes in circulation.				Reserve percentages.		
	October.	September.	October.	September.	October.	September.	October.	September.
Boston New York. Philadolphia. Cleveland. Richmond. Atlanta. Chicago. St. Louis. Minreapolis. Kansas City. Dallas. San Francisco.	103,131	$\begin{array}{c} 243,018\\ 1,106,352\\ 217,839\\ 260,858\\ 109,932\\ 135,449\\ 573,470\\ 85,879\\ 69,523\\ 92,926\\ 55,012\\ 242,162\end{array}$	$\begin{array}{c} 127,096\\720,184\\112,084\\149,087\\60,333\\51,746\\266,684\\65,850\\47,157\\88,306\\55,238\\137,597\end{array}$	$149,683 \\59,764 \\50,327 \\268,616 \\64,152 \\46,516 \\83,095 \\50,475$	$197, 384 \\ 607, 779 \\ 199, 305 \\ 223, 160 \\ 94, 053 \\ 124, 162 \\ 391, 325 \\ 85, 642 \\ 56, 238 \\ 66, 843 \\ 43, 720 \\ 223, 402 \\ 100, 100, 100, 100 \\ 100, 100, 100, 1$	$\begin{array}{r} 182,496\\ \cdot 211,789\\ 84,303\\ 116,550\\ 383,126\\ 73,809\\ 51,820\\ 62,649\\ 37,816\end{array}$	77. 8 79. 8 75. 9 73. 4 74. 8 79. 1 84. 2 68. 1 73. 8 63. 5 65. 4 67. 8	77. 9 82. 9 73. 9 72. 2 76. 3 81. 2 88. 0 62. 3 70. 7 63. 8 62. 3 62. 3 67. 9
Total: 1922 1921 1920 1919	3, 211, 513 2, 905, 727 2, 162, 178 2, 207, 386	3, 192, 420 2, 836, 396 2, 139, 280 2, 157, 932	$\begin{array}{c} 1,876,362\\ 1,728,029\\ 1,867,589\\ 1,980,676\end{array}$	$\begin{array}{c}1,866,300\\1,716,162\\1,912,070\\1,930,969\end{array}$	2,309.013 2,456,121 3,336,768 2,738,394	2,493,910	76.7 69.4 143.1 148.5	78.0 67.4 1 43.3 1 50.4

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

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CONDITION OF FEDERAL RESERVE BANKS.

RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON WEDNESDAYS, OCTOBER 4 TO OCTOBER 25, 1922.

RESOURCES.

[In thousands of dollars.]

	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chi- cago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Gold and gold certifi-						1999			<u></u>				
cates: Oct. 4. Oct. 11. Oct. 18. Oct. 25. Gold sottlement	$\begin{array}{c} 270,158\\ 265,341\\ 257,920\\ 277,629 \end{array}$	$15,890 \\ 16,001 \\ 16,122 \\ 16,214$	155, 687 150, 261 142, 532 161, 429	6,082 6,211 6,393 6,492	13, 758 13, 774 13, 814 13, 904	3,927 3,960 4,155 4,358	5,458 5,520 5,570 5,576	25,559 25,649 25,750 25,883	$3,804 \\ 3,877 \\ 3,655 \\ 3,722$	7,473 7,470 7,500 7,511	2,758 2,777 2,790 2,717	9, 575 9, 587 9, 753 9, 865	$\begin{array}{c} 20,187\\ 20,254\\ 19,880\\ 19,958\end{array}$
Gold settlement fund—F. R. Board: Oct. 4. Oct. 11. Oct. 18. Oct. 25. Gold with F. R.	538, 211 570, 599 591, 159	38, 350 29, 362 34, 650 32, 363	97, 931 131, 679 204, 410 198, 541	40, 951 40, 771 31, 449 36, 335	62, 121 63, 061 58, 462 68, 171	35, 279 40, 755 33, 560 39, 641	31,616 27,640 22,520 22,779	122, 969 107, 426 83, 441 95, 388	22,606 23,742 19,811 21,950	25, 308 22, 436 21, 716 24, 982	33, 587 27, 209 31, 075 28, 270	21,849 25,570 24,329 18,006	35,674 30,948 28,736 29,450
agents: Oct. 4 Oct. 11 Oct. 18 Oct. 25	1	$182,526 \\179,736 \\177,430 \\184,018$	$\begin{array}{c} 771, 617 \\ 731, 405 \\ 731, 173 \\ 680, 984 \end{array}$	158, 833 166, 879 164, 755 163, 816	176, 490 180, 094 180, 298 180, 777	63,038 61,853 65,693 64,123	93,609 102,334 101,364 100,627	386, 797 383, 183 378, 178 369, 459	62,666 70,609 72,297 70,815	36, 391 42, 602 42, 144 41, 658	53, 812 59, 547 58, 804 58, 178	$\begin{array}{r} 26,022\\ 25,710\\ 25,355\\ 26,606\end{array}$	183, 131 188, 988 185, 974 183, 341
Gold redemption fund: Oct. 4 Oct. 11 Oct. 18 Oct. 25 Total gold reserves:		9,474 11,271 12,512 4,960	5,488 8,075 10,359 8,438	10,728 6,564 8,878 5,663	3,899 3,808 4,145 4,231	3,441 3,474 3,454 3,928	1,124 1,709 1,970 2,000	$11,549 \\ 14,240 \\ 18,297 \\ 26,008$	2,107 2,249 2,115 2,513	1,383 1,874 1,846 2,035	1,836 1,728 2,085 2,304	1,063 1,354 1,122 1,363	3, 857 4, 754 4, 486 3, 713
Oct. 4. Oct. 11. Oct. 18. Oct. 25.	3,089,280 3,089,980 3,086,813 3,085,093	$246,240 \\ 236,370 \\ 240,714 \\ 237,555$	1,030,723 1,021,420 1,068,474 1,049,392	$216,594 \\ 220,425 \\ 211,475 \\ 212,306$	256, 268 260, 737 256, 719 267, 083	$\begin{array}{c} 105,685\\ 110,042\\ 106,862\\ 112,050 \end{array}$	$131,807 \\ 137,203 \\ 131,424 \\ 130,982$	546,874 530,498 505,666 516,738	91, 183 100, 477 97, 878 99, 030	70, 555 74, 382 73, 206 76, 186	91, 993 91, 261 94, 754 91, 469	$58,509 \\ 62,221 \\ 60,559 \\ 55,840$	242, 849 244, 914 239, 082 236, 462
Silver, etc.: Oct. 4 Oct. 11 Oct. 18 Oct. 25 Total reserves:	$123,725 \\ 120,037 \\ 127,384 \\ 126,835$	11,270 10,032 12,417 12,228	$34,540 \\ 33,786 \\ 35,802 \\ 34,407$	$\begin{array}{c} 15,935\\ 16,414\\ 16,905\\ 16,185 \end{array}$	9, 258 7, 913 8, 327 8, 896	6,762 6,860 8,107 8,878	6,239 5,942 5,631 6,042	19, 565 19, 610 20, 400 20, 585	5,712 5,321 5,018 5,294	978 864 827 863	3, 479 3, 599 3, 789 3, 486	6, 183 6, 124 6, 163 6, 225	3, 804 3, 572 3, 998 3, 746
Oct. 4 Oct. 11 Oct. 18 Oct. 25 Bills discounted: Secured by U. S.	3, 213, 005 3, 210, 017 3, 214, 197 3, 211, 928	216.402	1,065,263 1,055,206 1,104,276 1,083,799	232, 529 236, 839 228, 380 228, 491	265, 526 268, 650 265, 046 275, 979	112,447 116,902 114,969 120,928	138,046 143,145 137,055 137,024	566, 439 550, 108 526, 066 537, 323	96, 895 105, 798 102, 896 104, 324	71,533 75,246 74,033 77,019	95, 472 94, 860 98, 543 94, 955	64,692 68,345 66,722 62,065	246,653 248,516 243,080 240,208
oblications- Oct. 4 Oct. 11 Oct. 18 Oct. 25 Other bills dis-	156, 318 232, 280 194, 155 195, 510	9,379 11,652 9,899 12,192	$36,529 \\110,261 \\57,515 \\63,061$	27, 247 29, 359 28, 926 30, 093	14, 694 21, 693 24, 240 21, 599	14, 034 13, 849 15, 727 14, 484	4, 305 2, 066 3, 916 2, 697	25, 216 24, 713 28, 204 25, 668	7, 498 5, 131 7, 268 9, 259	1, 961 1, 671 1, 766 1, 876	2,189 2,366 5,435 3,542	1, 613 1, 490 2, 038 1, 313	11,653 8,029 9,221 9,726
counted	$\begin{array}{c} 277,878\\292,506\\316,944\\273,889\end{array}$	$16,778 \\ 22,775 \\ 20,776 \\ 17,750$	$21,248 \\ 40,000 \\ 44,991 \\ 22,865$	$10,339 \\ 10,917 \\ 13,526 \\ 10,893$	11, 697 14, 386 18, 144 15, 830	28,742 27,789 27,556 26,773	32, 800 30, 246 31, 818 29, 554	$\begin{array}{r} 41,399\\ 41,148\\ 54,719\\ 44,703 \end{array}$	19, 158 18, 049 18, 405 19, 606	$22,570 \\ 22,190 \\ 21,509 \\ 22,082$	$20,028 \\ 17,321 \\ 18,654 \\ 19,623$	24, 222 21, 135 19, 487 18, 218	28, 897 26, 544 27, 359 25, 992
markel: Oct. 4. Oct. 11. Oct. 18. Oct. 25. U. S. bonds and	235, 458 246, 620 256, 815 257, 691	17, 924 20, 617 23, 843 26, 299	81, 376 85, 589 85, 401 78, 670	21, 188 19, 846 26, 293 22, 143	37, 091 36, 962 35, 864 34, 581	784 944 1, 221 1, 739	5, 269 4, 205 7, 935 9, 746	17, 151 17, 711 16, 101 14, 801	10, 544 9, 023 8, 810 9, 065		$ 101 \\ 101 \\ 101 \\ 392 $	$egin{array}{c} 6,303 \ 8,000 \ 8,585 \ 16,092 \end{array}$	$\begin{array}{r} 37,727\\ 43,622\\ 42,661\\ 44,163\end{array}$
notes: Oct. 4. Oct. 11. Oct. 18. Oct. 25. U. S. certificates of indebtedness: One-year certifi-	253,042 236,145 226,210 206,630	11, 289 11, 172 11, 278 • 11, 661	77, 535 68, 797 53, 447 38, 184	24, 617 23, 617 24, 139 24, 107	27, 895 27, 646 27, 647 27, 647 27, 647	1, 241 1, 241 1, 241 1, 241 1, 241	$151 \\ 140 \\ 134 \\ 202$	10, 394 9, 538 13, 575 8, 773	18, 761 18, 761 18, 761 18, 761 18, 812	$13,124 \\ 7,199 \\ 8,114 \\ 7,592$	27, 537 27, 536 27, 376 27, 343	2, 816 2, 816 2, 816 2, 816 2, 816	37,682 37,682 37,682 37,682 37,682
$\begin{array}{c} \text{cates}(\text{Pittman} \\ \Lambda \text{ct}) - \\ \text{Oct. 4} \\ \text{Oct. 11} \\ \text{Oct. 18} \\ \text{Oct. 18} \\ \text{Oct. 25} \\ \text{Other certifier} \end{array}$	48,000 46,000 43,500 41,000	2,750 2,750 2,750 2,250	11,500 11,500 10,000 10,000	3,000 3,000 3,000 2,500	3,000 3,000 3,000 2,500	3, 460 2, 960 2, 960 2, 960 2, 960	2, 999 2, 999 2, 999 2, 999 2, 999	6,667 6,167 5,667 4,667	3, 571 3, 571 3, 571 3, 571 3, 571	3,000 2,500 2,500 2,500	3, 321 2, 821 2, 821 2, 821 2, 821	1,900 1,900 1,900 1,900 1,900	2, 832 2, 832 2, 332 2, 332 2, 332
cates— Oct. 4 Oct. 11 Oct. 18 Oct. 25 Municipal warrants:	182, 299 192, 419 177, 191 161, 576	16,709 17,627 17,066 14,722	73, 657 74, 104 70, 800 50, 927	6, 763 6, 454 5, 668 5, 155	29, 065 29, 065 18, 734 18, 869		2, 031 2, 031 2, 031 2, 031 2, 031	$18,504 \\ 27,809 \\ 28,725 \\ 31,599$	4, 446 4, 232 4, 231 4 231	2, 886 2, 820 2, 087 1, 838	13, 011 13, 051 10, 116 12, 252	3, 765 3, 765 6, 340 8, 559	11, 462 11, 461 11, 393 11, 393
Oct. 4 Oct. 11 Oct. 18 Oct. 25	15									15 15 27 27			

RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON WEDNESDAYS, OCTOBER 4 TO OCTOBER 25, 1922—Continued.

RESOURCES_Cor	ntinued.

[In thousands of dollars.]

	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chi- cago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Total earning assets: Oct. 4. Oct. 11. Oct. 18. Oct. 25. Bank premises: Oct. 4.	1, 153, 010 1, 245, 985 1, 214, 842 1, 135, 753	74, 829 86, 593 85, 612 84, 874	301, 845 390, 257 322, 154 263, 707	93, 154 93, 193 101, 552 94, 891	123, 442 132, 752 127, 629 121, 026	48, 261 46, 783 48, 705 47, 197	47, 555 41, 687 48, 833 47, 229	119, 331 127, 086 146, 991 130, 211	63, 978 58, 767 61, 046 64, 544	$\begin{array}{c} 43,556\\ 36,395\\ 36,003\\ 35,915\end{array}$	i '	40, 619 39, 106 41, 166 48, 898	130, 253 130, 170 130, 648 131, 288
Oct. 11. Oct. 18. Oct. 25. 5 per cent redemp- tion fund against F. R. bank notes:	44, 522 44, 605 45, 099 45, 241	5, 251 5, 251 5, 251 5, 251 5, 251	9, 646 9, 647 9, 908 9, 938	603 603 603 613	6, 431 6, 464 6, 583 6, 590	2, 571 2, 571 2, 571 2, 571 2, 571	1, 766 1, 781 1, 831 1, 867	7, 703 7, 704 7, 715 7, 715	951 952 952 959	961 961 978 978		2, 093 2, 093 2, 093 2, 093 2, 093	1, 486 1, 518 1, 518 1, 570
Oct. 4 Oct. 11 Oct. 18 Oct. 25 Uncollected items:	3, 852 3, 764 3, 750 3, 750	422 422 422 422 422	574 574 499 499	$250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 \\ 250 $	239 239 239 239 239	173 173 148 148		665 665 665 665	223 223 223 223 223	198 110 196 196	400 400 400 400	$146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 \\ 146 $	94 94 94 94
Oct. 4. Oct. 11. Oct. 18. Oct. 25. All other resources:	631, 701 649, 385 798, 439 653, 483	60, 970 61, 471 72, 982 59, 874	145, 639 134, 828 190, 195 143, 959	54, 086 50, 665 64, 545 52, 677	56, 291 56, 113 76, 431 57, 963	53, 594 57, 938 65, 683 57, 265	23, 632 26, 033 30, 116 25, 852	75, 815 74, 555 93, 848 80, 156	38, 560 43, 998 50, 752 39, 766	16, 390 18, 646 20, 314 21, 085	42, 639 49, 523 48, 185 43, 532	26, 741 28, 456 36, 893 28, 715	37, 344 47, 159 48, 495 42, 639
Oct. 4. Oct. 11 Oct. 18 Oct. 25 Total resources:	14, 604 15, 114 14, 787 14, 940	494 510 558 545	2, 148 2, 388 2, 123 2, 028	534 544 549 564	$1,178\\1,226\\1,060\\1,082$	$523 \\ 531 \\ 569 \\ 544$	145 141 147 155	$\begin{array}{c} 466 \\ 649 \\ 626 \\ 622 \end{array}$	506 504 506 532	1, 316 1, 267 1, 262 1, 390	642 675 663 701	1, 908 1, 905 1, 912 1, 924	4, 744 4, 774 4, 812 4, 853
Oct. 4 Oct. 11 Oct. 18 Oct. 18 Oct. 25	5, 060, 694 5, 168, 870 5, 291, 114 5, 065, 095	400, 649 417, 956	1, 525, 115 1, 592, 900 1, 629, 155 1, 503, 930	381, 156 382, 094 395, 879 377, 486	453, 107 465, 444 476, 988 462, 879	217, 569 224, 898 232, 645 228, 653	211, 612 213, 255 218, 450 212, 595	770, 419 760, 767 775, 911 756, 692	201, 113 210, 242 216, 375 210, 348	133, 954 132, 625 132, 786 136, 613	210, 400 213, 714 217, 390 210, 657	136, 199 140, 051 148, 932 143, 841	420, 574 432, 231 428, 647 420, 652

LIABILITIES.

Capital paid in: 7,616 7,607 7,603 7,610 Oct. 4...... Oct. 11.... 106,220106,271106,3278, 090 8, 135 8, 135 8, 135 8, 135 27, 805 27, 805 27, 835 27, 770 9, 194 9, 194 9, 196 9, 196 9, 196 $\begin{array}{c|c} 14,745 \\ 14,745 \\ 14,753 \\ 14,753 \\ 14,753 \end{array}$ 4, 787 4, 787 4, 787 4, 787 4, 787 3, 562 3, 562 3, 559 3, 559 11,689 5,6234,343 4,567 4, 199 ļ 4, 567 4, 585 4, 585 5,6385,6385,6385,638 $11,689 \\ 11,689$ $\begin{array}{c} 4,343 \\ 4,343 \end{array}$ 4, 199 Oct. 18..... Oct. 25..... 4,201 4,209 106,277 11,689 4,346 7,468 7,468 7,468 7,468 22, 509 22, 509 22, 509 22, 509 22, 509 29,02529,02529,0259, 388 9, 388 9, 388 9, 646 9, 646 9, 646 7,391 7,394 7,394 7,394 7,394 $17,945 \\ 17,945$ 215, 398 16,483 60, 197 11,030 9,114 15, 199 9, 114 9, 114 9, 114 9, 114 215, 398 215, 398 215, 398 215, 398 15, 199 15, 199 15, 199 16,483 60, 197 $11,030 \\ 11,030$ 16,483 16,483 60, 197 60, 197 17,945 9, 388 11,030 29,025 9 646
 Oct. 27.
 213, 338

 Posits:
 213, 338

 Government-- 0ct. 4.

 Oct. 11.
 12, 457

 Oct. 18.
 12, 545

 Oct. 25.
 23, 659

 Member bank- 789 681

 Oct. 4.
 18, 842, 568

 Oct. 18.
 1, 890, 841

 Oct. 18.
 1, 921, 277

 Oct. 25.
 1, 799, 931

 Other doposits 20, 288

 Oct. 18.
 22, 285

 Oct. 18.
 22, 285

 Oct. 25.
 18, 180

 ad deposits:
 18, 180
 Deposits: i 1,018 277 758 1,102 $\substack{1,\,174\\1,\,600\\1,\,351\\1,\,541}$ 1, 612 1, 097 1, 501 1, 803 4,911 1, 889 1, 991 1, 998 1, 656 $\frac{781}{967}$ 79 823 811 1,037 30703 I 69 83 8,236 835 178 965 840 499 1,133 2,221 1.542 13 1,005 901 1,080 $1,739 \\ 1,155$ 1,6001,6021,3362,026601 d 1,360 52,354 49,364 51,702 49,78058,628 268,632 62,276 47, 542 81,314 59, 273 58, 582 61, 291 256, 908 257, 940 248, 240 $\begin{array}{c} 65,252\\ 62,716\\ 62,372 \end{array}$ $\begin{array}{c} 44,821\\ 42,707\\ 47,260\end{array}$ 79, 816 80, 813 79, 454 20, 288 ¹ 18, 927 22, 285 18, 180 ¹ 3, 901 3, 807 3, 163 3, 444 229 150 181 635 10,223 6541,190 243 $\frac{302}{105}$ 1,314 749 290 $558 \\ 522$ 132 $11,410 \\ 13,530$ 613 479 740 951 60 $691 \\ 1.247$ 521 $\frac{176}{235}$ 601 305 780 669 188 269 661 9,869 330 .864 135 341 1, 120 540 376 187 Ŗ 48, 643 45, 837 43, 441 48, 769 51,72352,48655,88257,292116, 909 107, 795 115, 380 58, 901 61, 554 59, 371 270,964257,876259,94564, 199 67, 373 64, 728 82, 653 127.556 717, 377 149.259 53, 359 136.154 51,01153,57151,723ĥ 125,440 132,307 781, 313 795, 418 149,996 154,299 81,305 83,332 140, 239 138, 433 129,930 703, 975 106,678 | 147,954 62,786 250, 46264,453 81,278 136, 470
 circulation:
 2,274,651

 Oct. 4.
 2,274,651

 Oct. 11.
 2,320,115

 Oct. 18.
 2,315,437

 Oct. 25.
 2,298,536
 610, 763 611, 984 605, 330 595, 140 186, 928 198, 913 195, 080 195, 183 215, 999 226, 320 222, 289 225, 111 121, 500 123, 783 124, 637 123, 919 80,272 82,941 86,425 87,541 55, 204 56, 403 56, 911 56, 753 65, 573 66, 528 67, 478 67, 416 $\begin{array}{r} 43,092\\ 43,964\\ 44,430\\ 43,369 \end{array}$ 223,019225,648223,519221,351196, 347 199, 382 200, 790 195, 535 90, 506 93, 270 95, 262 95, 433 385, 448 390, 979 393, 286 391, 785 F. R. bank notes in circulation—net liability: Oct. 4. Oct. 11. Oct. 18. 44,726 42,715 40,613 37,995 2,100 2,088 2,139 1,625 9,647 9,681 8,412 8,311 2,931 2,932 2,939 2,418 2,733 2,285 2,280 2,362 2,779 2,843 2,822 2,758 6,113 5,714 5,455 4,549 3,431 3,382 3,396 3,424 6, 217 5, 525 5, 431 5, 419 2,387 2,382 2,356 2,306 1,545 1,569 1,074 1,057 2,458 2,508 2,483 385 806 826 Oct. 25,..... 958 808

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RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON WEDNESDAYS, OCTOBER 4 TO OCTOBER 25, 1922—Continued.

LIABILITIES-Continued.

[In thousands of dollars.]

	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chi- cago.	St. Louis.	Minne- apolis	Kansas City.	Dallas.	San Fran- cisco.
Deferred availability				1									
items: Oct. 4 Oct. 11 Oct. 18 Oct. 25 All other liabilities:	518, 334 537, 899 632, 430 539, 773	47, 335 47, 554 56, 458 47, 343	94, 231 96, 588 126, 432 103, 053	46,060 44,068 53,998 44,677	48,636 49,825 61,075 50,883	47, 592 49, 943 57, 857 50, 160	19, 301 20, 956 22, 737 19, 468	60, 785 59, 030 69, 987 62, 659	38, 115 41, 423 46, 694 39, 744	15, 267 16, 101 18, 133 16, 786	40, 545 44, 937 45, 676 41, 012	25, 743 27, 936 32, 995 27, 522	34,724 39,538 40,388 36,466
Oct. 4 Oct. 11 Oct. 18 Oct. 25 Total liabilities:	$23,668 \\ 24,247 \\ 24,802 \\ 25,346$	$\begin{array}{c c}1,565\\1,567\\1,644\\1,698\end{array}$	5,095 5,332 5,531 5,484	$1,662 \\ 1,671 \\ 1,797 \\ 1,849$	2,084 2,173 2,188 2,315	$1,184 \\ 1,178 \\ 1,207 \\ 1,244$	$1,216 \\ 1,205 \\ 1,226 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,267 \\ 1,26$	3, 339 3, 398 3, 460 3, 459	921 948 957 1,011	$1,425 \\ 1,448 \\ 1,448 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,470 \\ 1,47$	$1,199 \\1,206 \\1,242 \\1,301$	1,661 1,690 1,671 1,749	2, 317 2, 431 2, 431 2, 499
Oct. 11 Oct. 18 Oct. 25	5,060,694 5,168,870 5,291,114 5,065,095	400,649	$\begin{array}{c}1,525,115\\1,592,900\\1,629,155\\1,503,930\end{array}$	381, 156 382, 094 395, 879 377, 486	$\begin{array}{r} 453,107\\ 465,444\\ 476,988\\ 462,879\end{array}$	217,569 224,898 232,645 228,653	211,612 213,255 218,450 212,595	770, 419 760, 767 775, 911 756, 692	201, 113 210, 242 216, 375 210, 348	133, 954 132, 625 132, 786 136, 613	$\begin{array}{c} 210,400\\ 213,714\\ 217,390\\ 210,657\end{array}$	$136, 199 \\ 140, 051 \\ 148, 932 \\ 143, 841$	$\begin{array}{r} 420,574\\ 432,231\\ 428,647\\ 420,652\end{array}$
MEMORANDA.	-												
Ratio of total re- serves to deposit and F. R. note liabilities com- bined—per cent:						,							
Oct. 11. Oct. 11. Oct. 18. Oct. 25. Contingent liability on bills purchased for foreign corre-	77.4 75.7 75.2 77.6	79.5 75.9 76.0 76.7	80. 2 75. 7 78. 8 83. 4	76.5 77.2 73.6 75.7	72.7 71.4 70.4 74.0	75.3 75.5 74.3 76.4	78.9 81.9 76.9 78.0	86.3 84.8 80.5 83.7	$\begin{array}{c} 67.1 \\ 70.4 \\ 68.1 \\ 68.6 \end{array}$	68.9 73.6 73.8 73.0	64.4 64.2 65.3 63.9	68.2 70.9 66.5 61.7	68.7 67.9 67.5 67.1
spondents: Oct. 4 Oct. 11 Oct. 18 Oct. 25	31, 966 31, 832 35, 265 33, 377	1,974 2,347 2,347 2,108	14,850 11,890 15,323 15,510	2, 163 2, 163 2, 163 1, 901	2,217 2,637 2,637 2,367	1,325 1,575 1,575 1,415	973 1,157 1,157 1,039	3, 218 3, 826 3, 826 3, 436	1,271 1,511 1,511 1,511 1,357	730 868 868 779	1,298 1,543 1,543 1,386	703 836 836 751	1,244 1,479 1,479 1,328

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

[In thousands of dollars.]

	Total.	Within 15 days.	16 to 30 days.	31 to 60 days.	61 to 90 days.	Over 90 days.
Bills discounted: Oct. 4. Oct. 11.	434, 196 524, 786	243, 163 339, 574	52, 473 52, 240	73,414 70,095	47, 193 45, 007	17,953 17,870
Oct. 18. Oct. 25. Bills bought in open market:	469, 399	317, 057 288, 140	48, 671 47, 353	76, 228 73, 473	49, 570 39, 810	17,870 19,573 20,623
Bills bought in open market: Oct. 4. Oct. 11. Oct. 18. Oct. 25. United States certificates of indebtedness:	$\begin{array}{r} 235,458\\246,620\\256,815\\257,691 \end{array}$	53,255 70,709 69,241 65,797	47,950 43,587 39,106 35,594	64,058 63,963 66,345 69,753	53,087 54,021 68,183 74,176	17, 108 14, 340 13, 940 12, 371
Oct. 4 Oct. 11 Oct. 18	220,691	23, 550 29, 620 27, 161		1,298 15,863 45,528	62,045 63,035 15,685	
Oct. 25.		5,806	3	42,699		148,751 12 12

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FEDERAL RESERVE NOTES.

FEDERAL RESERVE AGENTS' ACCOUNTS ON WEDNESDAYS, OCTOBER 4 TO OCTOBER 25, 1922.

	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
et amount of F. R.													
notes received from Comptroller of the			ļ					1					
Curronov													
Oct. 4. Oct. 11. Oct. 18. Oct. 25. . R. notes on hand:	[3, 481, 292]	290,013	1, 192, 567 1, 188, 843 1, 195, 785	247,001 242,046	264,507	124,857 129,172	195,028 197,754	508,652 505,037	125,001 129,184	68,302 68,872	$88,248 \\ 88,984$	$61,541 \\ 61,228$	315,573 314,152
Oct. 18.	3, 489, 300	290, 223	1, 195, 785	242,040	271,716	130,472	199,784	508,633	128, 871	70,215 70,769	89,211	64,791	313, 53
Oct. 25	3, 531, 074	299, 505	1, 195, 918	244,984	270, 994	133, 901	201,046	510, 713	133, 159	70, 769	90, 215	64, 515	315, 32
. R. notes on hand:				10.000				00 700	07 000		10 050	15 100	-0.01/
000.4	198,394	79,200 82,200	347,410 347,410	40,820 24,820	$32,340 \\ 29,440$	26,650 29,050	$68,134 \\ 68,764$	$82,720 \\ 78,240$	25,360 28,360	10,030 9,620	$13,650 \\ 12,770$	$15,128 \\ 13,708$	56, 910 56, 910
Oct. 11 Oct. 18	781,292	77,200	354,090	34,820	31,340	25,050	69, 564	76,640	28,360 25,810	11,120	12,770 13,570	16,728	56,210
Oct. 18 Oct. 25 R. notes outstand-	842,252	82,200	390, 770	29,820	31, 540	29,090	70,404	83, 840	27,970	10,960	12, 770	16,678	56,210
. R. notes outstand-													
ing:	0 609 040	210, 813	845, 157	206, 181	929 167	98,207	126.894	425 032	99,641	58,272	74,598	46,413	258,66
Oct. 4 Oct. 11 Oct. 18 Oct. 25	2,708,014	210,013	841, 433	217, 226	232,167 238,371	100,122	128,990	$\begin{array}{c} 425,932\\ 426,797 \end{array}$	100.824	59,252	76,214	47,520	257,242
Oct. 18	2, 722, 446	214,023 216,717	841, 433 841, 695	215, 102	240,376	103.122	130, 220	431.993	103,061	59,095	75,671	48,066	257.32
Oct. 25	2,688,822	217, 305	805, 148	215, 164	239, 454	104, 811	130,642	426, 873	105, 189	59, 809	77, 445	47,867	259, 11
ollateral security for F. R. notes out-		:									l		
standing:				1		1	I						
Gold and gold	1 1		1										
certificates	110 505	~ 000			10.077		0.400		11 010	12.050		7 000	
Oct. 4 Oct. 11	416,507 416,509	5,300 5,300	363, 184 363, 184		13,275		2,400		$11,610 \\ 11,610$	13,052 13,053		7,686	• • • • • • •
Oct. 18	416, 507	5,300	363, 184		13, 275		2,400		11,610	13,052		7,686	
Oct. 25	386, 507	5,300	333, 184		$\begin{array}{c} 13,275\\ 13,275\\ 13,275\\ 13,275\end{array}$		$\begin{array}{c} 2,400 \\ 2,400 \\ 2,400 \\ 2,400 \\ 2,400 \end{array}$		11,610	13,052		7,686	
Gold redemption		1					1						
fund— Oct. 4	125, 188	14,226	37 433	9,944	13,215	2 243	4,709	16 152	2 756	3,339	3,452	3 336	14,38
Oct 11	i 126, 843	11,436	37,433 37,221	9,990	11.819	2,243 4,058	4.934	$16,152 \\ 15,538$	2,756 3,199	2 5.10	3,187	3, 336 3, 023 2, 669 3, 920	19,88
Oct. 18	133, 925	19,130	36,989	10,866	12,023	2,898 1,328	3,961	16,534	3,887	2,092	4.414	2,669	18,42 17,50
Oet. 25	127.104	15, 718	36, 800	10, 927	12, 502	1,328	3, 227	15, 814	3, 935	1,606	3, 818	3,920	17, 50
Gold fund—F. R. Board—	1		1	1			Ì						
Oct. 4	1.653.237	163.000	371.000	i 148,889	150,000	60, 795	86,500	370,645	48,300	20,000	50,360	15,000	168,74
Oct. 4 Oct. 11 Oct. 18	1,649,588	163,000	331,000	156,889	155,000	57, 795	95,000	367,645	55,800	1 - 27,000	56,360	15,000	169, 09
Oct. 18 Oct. 25	1,613,033	153,000	311,000	153,889	155,000	62,795 62,795	95,000	361,644	56,800	27,000 27,000	54,360	15,000	167, 54
Eligible paper-	1,610,821	163,000	511,000	152, 889	155,000	62, 795	95,000	353, 645	55, 300	27,000	54,360	15,000	165, 83
Amount re-			1	I		l		1		I	!		
auired	1) 		1				1					ľ
Oct. 4	488,008 515,074	$ \begin{array}{c} 28,287\\ 34,287 \end{array} $	73,540	47,348	55,677 58,277	35, 169 38, 269	33,285	39,135 43,614	36,975	21,881 16,650	20,786	20,391	75, 53
Oct. 11 Oct. 18		39,287	130, 522	50,347	60,078	37, 129	28,856	53,815	30,215 30,764	16,951	16,667 16,867	$\begin{array}{c c} 21,810\\ 22,711 \end{array}$	68,25
Oct. 25	564,390	33,287	124, 164	51,348	58,677	40,688	30,015	57,414	34, 344	18,151	19,267	22,711 21,261	71,35
Excess	1			1	í í	1	!	1	,				
amount	1	1		1	1	i		1		1		Ì	
held— Oct. 4	166, 227	15,794	58,449	6,159	6,648	7,816	8,916	44,629	225	1,703	1,528	11,588	2,74
Oct. 11	235,972	20,757	116,710	988	14,270	j 3,36 3	9,710	39,958	1,988	6,479	1,528 3,120	8,750	9, 87
Oct. 18	181,946	15,231	47,455	4,671	17,812	5,615	14,670	45,131	3,719	5,300	7,322	7,190	7,83
Oct. 25	141, 712	22,954	31,335	4,630	10,622	1,607	11,807	27, 753	3, 586	4,868	4,290	14,206	4,05

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CONDITION OF MEMBER BANKS IN LEADING CITIES.

PRINCIPAL RESOURCES AND LIABILITIES OF MEMBER BANKS IN LEADING CITIES ON WEDNESDAYS, FROM SEPTEMBER 27 TO OCTOBER 18, 1922.

ALL REPORTING MEMBER BANKS IN EACH FEDERAL RESERVE DISTRICT.

				fru tuo	usanus or	donars.	l						
	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlan- ta.	Chica- go.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Number of reporting banks: Sept. 27 Oct. 4 Oct. 11 Oct. 18 Loans and discounts, in- eluding bills rediscounted with F. R. banks: Secured by U., S.	790 786' 787 787		105 105 105 105	56 56 56 56	84 84 84 84	79 79 79 79	40 41 41 41	109 109 109 109	37 37 37 37 37	33 32 32 32 32	79 79 79 79 79	52 52 52 52 52	68 66 66 66
Government obliga- tions Sept. 27 Oct. 4 Oct. 11 Oct. 18 Secured by stocks and bonds (other than U. S. Government cbli-	261, 442 264, 025 263, 333 284, 015	13, 408 14, 756 13, 853 15, 963	84, 551 79, 863 84, 534 100, 650	16, 251 16, 108 15, 673 16, 067	29, 540 29, 507 30, 215 30, 001	9,632 10,765 10,337 10,886	7,052 7,151 7,044 7,577	46, 280 51, 118 45, 847 45, 734	15, 227 15, 310 15, 362 15, 293	8, 344 8, 424 8, 429 10, 067	10, 322 10, 113 10, 318 10, 884	4, 273 4, 352 4, 300 4, 288	16, 562 16, 556 17, 421 16, 605
gations) Sept. 27 Oct. 4 Oct. 11 Oct. 18	3, 589, 810 3, 618, 941 3, 612, 942 3, 761, 800	230, 516	1,655,884 1,663,896 1,623,021 1,723,646	250,649 257,268	350, 462 351, 816 356, 551 354, 895	115, 499 115, 702 118, 459 118, 129	58, 407 56, 550 56, 527 58, 865	519,930 527,401 536,361 569,855	126, 664 124, 174 127, 484 129, 786	39, 243 39, 664 39, 598 40, 974	72, 126 72, 132 73, 452 74, 833	40, 539 41, 048 48, 218 49, 893	142, 743 145, 393 146, 465 151, 229
All othor— Sept. 27 Oct. 4 Oct. 11. Oct. 18 Total loans and discounts,	7, 136, 275 7, 168, 342 7, 242, 171 7, 259, 054	574, 218 569, 321 577, 360 579, 245	2,224,811 2,236,926 2,259,366 2,265,565	321,668 325,847 335,176 334,920	647,072 648,582 651,438 651,105	311, 552	305, 047 311, 312 318, 870 321, 935	1,007,772 1,009,122 1,018,755 1,016,675	277, 968 285, 688 283, 986 290, 365	196, 196 190, 508 196, 800 195, 748	348,762 352,384 351,260 351,565	209, 259 210, 538 210, 845 213, 861	717, 404 716, 562 723, 264 725, 478
counted with F. R. banks: Sept. 27. Oct. 4. Oct. 11. Oct. 18.	10,987,527 11,051,308 11,118,446 11,304,869	332,021	3,965,246 3,980,687 3,966,921 4,089,861	583, 931 1592, 604 608, 117 1603, 269	1,027,074 1,029,905 1,038,204 1,036,001	1443, 847	370, 506 375, 013 382, 441 388, 377	1,573,982 1,587,641 1,600,963 1,632,264	419, 859 425, 172 426, 832 435, 444	243, 783 238, 596 244, 827 246, 789	431, 210 434, 629 435, 030 437, 282	254, 071 255, 938 263, 363 268, 042	876, 709 878, 511 887, 150 893, 312
Sept. 27 Oct. 4 Oct. 11 Oct. 18 U.S. Victory notes:	$\substack{1, 381, 003\\1, 380, 542\\1, 364, 192\\1, 506, 289}$	94, 792 95, 294 95, 975 109, 297	563, 532 561, 633 554, 939 616, 460	58, 730 57, 264 56, 215 68, 707	$163,428\\166,732\\164,701\\180,246$	59, 187 61, 217 60, 596 63, 101	29,027 29,263 25,346 29,418	$\begin{array}{c} 134,287\\ 130,298\\ 130,581\\ 139,937\end{array}$	37, 589 38, 684 36, 512 47, 615	24,606 23,576 22,865 25,705	58, 257 57, 879 57, 940 60, 507	34, 792 34, 828 34, 882 35, 200	122,776 123,874 123,640 130,096
U. S. bonds: Sept. 27. Oct. 4. Oct. 11. Oct. 18. U. S. Victory notes: Sept. 27. Oct. 4. Oct. 11. Oct. 11. Oct. 18. Oct. 11. Oct. 18.	35, 833 31, 341 40, 663 39, 605	1,759 1,681 1,727 1,276	11,039 11,182 15,864 14,234	3,025 1,025 1,149 3,318	$1,672 \\ 1,906 \\ 2,273 \\ 2,650$	184 112 129 268	628 636 641 1,378	4,109 4,685 5,885 4,159	4,601 3,223 3,252 3,243	288 345 1, 102 264	1,406 1,569 1,508 1,589	518 527 527 537	6,604 4,450 6,606 6,689
Sept. 27 Oct. 4 Oct. 11 Oct. 18 U. S. certificates of indebt-	617, 943 636, 037 636, 643 651, 762	24,045 21,809 22,056 21,637	389, 539 406, 397 404, 111 401, 041	26, 380 26, 707 26, 218 27, 032	37, 512 35, 824 36, 601 39, 440	4, 154 3, 709 3, 839 4, 193	3,048 4,562 2,679 2,856	71, 461 71, 030 70, 391 80, 518	7, 224 10, 515 10, 872 16, 240	9,878 9,877 9,883 9,883 9,883	$15,254 \\ 15,120 \\ 15,226 \\ 15,740$	8, 387 8, 143 8, 081 5, 916	21, 061 22, 344 26, 686 27, 266
edness: Sept. 27 Oct. 4 Oct. 11 Oct. 18 Other bonds, stocks, and se-	$184,127 \\ 166,769 \\ 147,682 \\ 135,290$	6,355 7,563 7,742 6,574	56, 808 49, 902 40, 529 34, 560	9,394 6,474 5,794 6,993	7,310 6,582 6,667 5,651	3,975 3,855 3,825 2,914	7,935 5,488 6,743 7,223	35,989 35,127 34,117 31,369	9,315 6,203 6,007 4,419	6,145 5,246 3,863 4,985	10,319 10,685 9,541 9,422	6,788 6,760 6,356 6,390	23, 794 22, 884 16, 498 14, 790
curities: Sept. 27. Oct. 4. Oct. 11. Oct. 18. Total loans and discounts and investments, includ-	2,247,210 2,244,282 2,255,276 2,247,115	169,340	773, 955 778, 924 783, 821 774, 873	182,850 	ļ	56,034 56,155 56,358 56,703	33, 117 33, 676 33, 654 34, 262	405, 146 405, 655 405, 322 408, 239	84, 878 85, 536 86, 766 86, 522	26,986 27,425 27,446 27,254	62, 140 62, 221 59, 614 59, 744	7,452 7,462 8,433 8,497	159, 323 158, 650 164, 968 158, 474
F. R. banks: Sept. 27 Oct. 4. Oct. 11. Oct. 18. Reserve with F. R. banks: Sent. 27.	15,453,643 15,510,279 15,562,902 15,884,930	1,109,666 1,108,904 1,117,399 1,140,745	5,760,119 5,788,725 5,766,185 5,931,029	865, 557 866, 383 877, 600 892, 169	1,518,290 1,519,254 1,528,085 1,544,345	 554, 763 563, 067 568, 594 568, 786	444, 261 448, 638 451, 504 463, 514	2,224,974 2,234,436 2,247,259 2,296,486	563, 466 569, 333 570, 241 593, 483	311,686 305,065 309,986 314,880	578, 586 582, 103 578, 859 584, 284	312,008 313,658 321,642 324,582	1,210,267 1,210,713 1,225,548 1,230,627
Oct. 4. Oct. 11. Oct. 18.	1,396,780 1,440,372 1,465,215	88,691 84,926 89,140	626,948 638,758 704,933 714,213	69,178 74,262 66,460 72,796	107,610 101,135 103,173 106,978	36, 162 35, 816	29,006 33,886 30,285 32,804	189,656 202,699 189,238 192,021	35, 104 37, 843 40, 285 38, 063	21, 612 23, 974 20, 521 18, 129		23,916	88, 159 85, 834 91, 701 90, 077
Sept. 27 Oct. 4 Oct. 11. Oct. 18	281,349 281,801 300,382 295,809	18,522 18,625 19,997 20,010	88,833	15,267 15,264 18,095 16,925	28,695 29,442 29,970 31,501	14,442	9,424 9,579 10,463 9,754	51,911 52,894 54,263 55,665	7,250 7,396 7,868 10,118	6,052 6,191 6,890 6,404	$\begin{array}{c} 12,117\\ 11,760\\ 11,949\\ 11,855 \end{array}$	10, 451 9, 993 10, 894 10, 047	20, 405 19, 942 20, 516 20, 255
Net demand deposits: Sept. 27 Oct. 4 Oct. 11 Oct. 18	$\begin{array}{c} 11,085,421\\ 11,168,378\\ 11,256,711\\ 11,305,835 \end{array}$	808,606 825,048 823,305 834,651	4,847,523 4,879,679 4,883,686 4,975,426	695, 195 702, 514 711, 563 706, 817	875, 704 878, 817 884, 899 878, 127	326,791 334,222 337,074 332,227	260, 425 256, 505 263, 492 263, 955	1,437,964 1,450,474 1,475,937 1,448,031	323,167 327,175 333,058 327,737	198,286 194,760 197,735 196,976	448, 209 454, 612 452, 517 448, 543	223, 564 222, 679 231, 084 237, 232	639,987 641,893 662,361 656,113

PRINCIPAL RESOURCES AND LIABILITIES OF MEMBER BANKS IN LEADING CITIES ON WEDNESDAYS, FROM SEPTEMBER 27 TO OCTOBER 18, 1922—Continued.

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

[In thousands of dollars.]

	Total.	Boston.	New York.	Phila- delphia.	Clevc- land.	Rich- mond.	Atlan- ta.	Chica- go.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Time doposits: Sept. 27. Oct. 4. Oct. 11. Oct. 18. Government deposits:	3,573,401 3,584,586 3,579,652 3,603,873	246,742 244,007 243,869 242,978	779,049 783,243 770,179 771,082	56, 194 56, 400 56, 447 56, 131		145, 266 145, 999 145, 731 146, 700		700,355 701,726 699,816 719,308	172,252 173,181	$83,312 \\ 83,241$	117, 821 116, 944 117, 557 117, 515	65,949 66,386 66,606 67,091	551, 864 554, 216 555, 595 557, 567
Sept. 27 Oct. 4 Oct. 11 Oct. 18 Bills payable with F. R.	146,493	11,909 10,117 8,148 33,355	51, 184 43, 739 34, 985 124, 437	10, 208 9, 183 7, 338 28, 686	14, 168 12, 074 9, 631 14, 571	4,512 3,858 2,987 11,007	4, 621 3, 934 3, 146 10, 438	17,983 15,396 12,265 29,284	$\begin{array}{c} 6,415\\ 5,538\\ 4,428\\ 22,117\end{array}$	5,254 4,510 3,586 6,831	5, 543 4, 738 3, 793 6, 681	3,668 3,138 2,510 3,891	11,028 9,508 7,607 11,263
banks: Secured by U. S. Gov- ernment obligations Sept. 27 Oct. 4 Oct. 11 Oct. 18	63,741 80,003 155,571 119,113	2,411 3,099 5,573 5,210	15, 294 28, 954 102, 352 48, 949	9,405 8,397 10,692 9,727	10,027 3,858 10,852 13,247	5,468 5,850 5,998 8,110	595 2,249 95 1,654	8, 150 15, 341 13, 574 17, 810	3,738 3,684 1,338 3,023	88 98 123 473	2,130 1,210 1,364 4,180	880 640 725 1,040	5, 555 6, 623 2, 885 5, 690
All other— Sept. 27 Oct. 4 Oct. 11 Oct. 18 Bills rediscounted with F. R. banks:	813 997 692 632				145 20 20 20	500 825 525 470							168 152 147 142
Secured by U. S. Gov- ernment obligations- Sept. 27 Oct. 4. Oct. 11. Oct. 18.	1,910 620 823 844	54 182	474	$105 \\ 105 \\ 105 \\ 105 \\ 105$	81 72 69 14	106 91 89 85	51 50 44 94	77 77 77 77 79	502 44 89 266		48 37 79 100	6 6 6 6	405 81 82 35
All other Sept. 27 Oct. 4 Oct. 11 Oct. 18	152.988	$13,062 \\ 13,097 \\ 18,864 \\ 16,687$	17,694 17,049 35,789 41,031	6,855 6,923 7,853 10,549	6, 684 6, 421 8, 991 12, 664	8,434 10,721 10,602 10,855	7,531 10,269 8,658 11,577	9,216 9,953 9,105 22,867	6,225 7,387 6,796 7,903	3,217 2,016 2,442 2,523	5,418 6,881 4,280 6,071	4,861 4,359 4,010 4,590	3,485 5,110 3,267 5,671

MEMBER BANKS IN FEDERAL RESERVE BANK CITIES.

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Number of reporting banks: Sept. 27 Oct. 4 Oct. 11 Oct. 18 Loans and discounts, in- cluding bills rediscounted with F B hopter	267	25	64	43	8	10	7	50	13	8	16	8	15
Oct. 4	265	23	64	43	8	. 10	7	50	13	8	16	8	15
Oct. 11	266	24	64	43	8	10	7	50	13	8	16	8	15 15
Oct. 18	266	24	64	43	8	10	7	50	13	8	16	8	15
Loans and discounts, in-	[1		1					ļ		
cluding bills rediscounted						1				1			
WIGH F. R. Dailes.		•										!	
Secured by U.S. Gov-		1				,				1	1	1 1	
ernment obligations-	172,374	10,758	73, 826	14,322	0 900	2,088	1,357	37,124	11,412	5, 588	2,274	1 917	= 010
Sept. 27	172, 374	10,755	60 721	14, 022	6, 368 6, 329 6, 329	2,000	1, 357	41,898	11,412	5, 591	2,214	1,317 1,179	5,940 5,545
Oct. 4 Oct. 11. Oct. 18	172,753	11, 252	69, 724 74, 443	$14,254 \\ 13,898$	6 320	2,050	1,447	36,486	12,028	5, 590	2,272	1,361	5, 597
Oct 18	193,054	13, 180	90, 545	14,350	6,361	2,036	1,684	36, 597	11,672	7,237	2, 440	1,411	5, 541
Secured by stocks and	-00,001				0,001	-,000	-,001		, •	.,	-,	-,	0,011
bonds (other than U.						1			ļ	1	1		
S. Government obli-						1					1		
gations)-										f			
Sent. 27	2,650,764	170,216	1,479,554	224,901	149,031	16,257	10,403	394,786	96,864	18,696	17,989	9,181	62, 886 63, 220
Sent. 27. Oct. 4. Oct. 11.	2,683,963	178,674	1,488,195	229, 139	150,350	18,127	9, 766	402,635	97,179	19,333	18,175	9,170	63, 220
Oct. 11	2,665,689	178,565	1,449,648	236, 164	152,226	18,316	9,446	412,940	98, 541	18,901	20, 188	9,299	63, 455
Oct. 18.	2,798,745	185, 539	1,546,052	231,497	148, 419	18,405	10, 459	445, 421	98, 163	20, 233	20, 842	9, 531	64, 184
All other—	1 129 200	494 014	1 0 12 604	202 024	295, 581	65,274	47,784	621 422	165, 581	96,740	110 970	53, 192	997 007
Dept. 21	4,432,304	420 210	$1,942,694 \\ 1,953,615$	208 719	293, 499	64,466	49, 553	631, 433	167 100		118, 489	56, 559	287,907
Oct 11	4 486 412	435 556	1,973,706	305 226	293, 836	65, 830	51,057	624, 121 631, 851	164 579	93.691	116, 883	57,155	287,558 292,049
All Other Sept. 27. Oct. 4. Oct. 11. Oct. 18.	4 484 525	437 585	1,976,340	304 654	293, 898	64, 393	48, 492	628, 347	167, 132		115,094	59,838	291, 471
Total loans and discounts,	1, 101, 020	101,000	1,010,010	001,001	200,000	02,000	10, 104	020,011	101, 102	01,201	, 00-2	00,000	201, 111
including bills redis-	ł	1											
including bills redis- counted with F. R. banks:	{			i i					1				
Sept. 27 Oct. 4 Oct. 11	7,255,440	615,788	3,496,074	532, 147	450,980	83,619	59,544	1,063,343 1,058,654	273,857	121,024	138,641	63,690	356,733 356,323 361,101
Oct. 4	7, 294, 298	621,024	3,511,534	540, 105	450,178	' 84, 693	60,768	1,058,654	275, 739	119, 393	138, 979	66,908	356, 323
Oct. 11	7, 324, 854	625, 373	3,497,797	555, 288	452, 391	86, 193	61,950	1,081,277	273, 141	123, 182	139,343	67, 815	361, 101
Oct. 18	.7.476.324	636, 304	3,612,937	550, 501	448,678	84,834	60,635	1,110,365	276,937	124,751	138, 376	70,780	361, 196
U.S. bonds:			401.00.				1 00-						
Sept. 27	794,963	40, 217	491, 804	44,498	28,283	4, 549 4, 553	4,862	59,471	21,105		23,359	9,157	61, 164
Oct. 4	787,140	39,774 40,635	487, 519 480, 667	42,831	28,704 28,876	4, 553	4,922	$56,379 \\ 55,624$	22,105	5,731	23,604	9,292	61, 726
U. S. bonds: Sept. 27 Oct. 4. Oct. 11. Oct. 18.	175,768	40,630	480,007	41,771	25,870	4,605	4,896	00,024	20, 467	4,998	23, 535	9,297	60, 397
Oct. 18	871, 566	51,349	532,072	53, 521	31, 342	5, 217	5, 390	i 57, 393	29, 351	7,211	24, 319	10, 137	64, 261

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PRINCIPAL RESOURCES AND LIABILITIES OF MEMBER BANKS IN LEADING CITIES ON WEDNESDAYS, FROM SEPTEMBER 27 TO OCTOBER 18, 1922—Continued.

MEMBER BANKS IN FEDERAL RESERVE BANK CITIES-Continued.

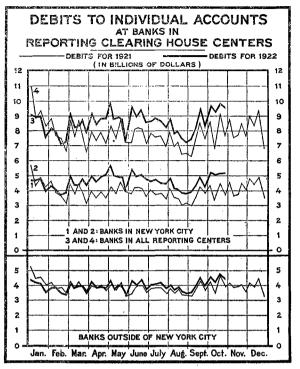
<u> </u>													
	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlan- ta.	Chica- go.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
			; I										
U. S. Victory notes: Sept. 27. Oct. 4. Oct. 11. Oct. 18. U. S. Treasury notes: Sept. 27. Oct. 4. Oct. 11. Oct. 11. Oct. 18. U. S. certificates of indebt- edness:	23, 597	1,200	9,908	2,972	161		1	3,616	2, 454	29	289	54	2 013
Oct. 4	19,879	1,120	10,041	959	173		1	4,134	906	87	430	54	2, 913 1, 974
Oet. 11.	26,142	1, 160	13,704	1,127	171		1	5,288	930	844	352	54	2,511
U. S. Treasury notes:	23, 333	214	11,439	3, 282	162		737	3, 562	879	6	397	65	2, 590
Sept. 27	500, 107	19,055	373, 259	23,914	6,782	867	964	50, 089	5,786		5,745	3, 500	10, 146
Oct. 4.	517,482	$17,334 \\ 17,615$	388,316	24, 580 23, 702	6,464	617	964 964	49,654 49,0 01	9,244		5,774	3,400 3,200	11, 135 10, 918
Oct. 18.	517, 482 513, 546 523, 723	17,887	383,148	25, 702 24, 503	6, 464 6, 273 7, 232	617 754	1,174	55,378	9, 240		5, 879 5, 840	3,005	12,062
U.S. certificates of indebt-			,	,		1	,		,		1		,
edness: Sopt. 27 Oct. 4 Oct. 11 Oct. 18. Other bonds, stocks, and	114 744	5,522	50, 540	8, 516	3, 812	1, 599	3, 497	19, 198	8 314	2 803	3, 361	2,908	4,674
Oct. 4	$114,744 \\103,335$	6, 830	44, 801 35, 428	5, 499 5, 218	3,932	1.839	3, 224 3, 224	18,657	8,314 5,505 5,308	2,803 1,904	3,361 3,361 3,326 3,309	3, 124	4,659
Oct. 11.	92, 510 84, 203	6, 830 7, 009 5, 830	35, 428	5,218	3, 932 3, 827 3, 022	1,839	3,224	18,188	5,308	1,657	3,326	3,020	4,466
Other bonds, stocks, and	84,200	5,830	30, 330	6, 402	3,022	1, 588	3,906	16, 891	3, 581	2, 234	3,309	3, 104	4,006
securities:													
Sept. 27. Oct. 4. Oct. 11. Oct. 18. Total loans and discounts	1,212,588 1,208,823	81,831	581,862	150, 590	62, 184 61, 483	6,498	2, 888 2, 905 2, 912 2, 859	171,682 171,222	53, 356 54, 346	$11,602 \\ 11,728$	12,821	966 1,065	76,308
Öct. 11.	1, 211, 104	77,929	585, 430 585, 500	145, 238	61,482	6,480 6,352	2,912	172, 133 173, 458	55,318	11,790	12,763	1,834	76, 220 77, 853
Oct. 18.	1, 212, 482	78,011	583, 577	147, 272	63, 209	6,469	2,859	173, 458	54, 534	11,661	13, 148	2,039	76, 245
and investments, includ-											}		
and investments, includ- ing bills rediscounted with F. R. banks:			ļ							Í			
With F. R. banks: Sent 27	0 001 430	763 613	5,003,447	762 637	552, 202	97,132	71,756	1 367 300	364 872	141 052	184 216	80,275	511,938
Oct. 4.	9,930,957	763.857	15.027.641	761 497	550.934	98, 182	72,784	1,367,399 1,368,700 1,381,511 1,417,050	367, 845	138, 843	184, 791	83,843	512,037
Oct. 11	9,943,921	769, 721	4,999,228 5,153,503	772, 344	553,020	99, 609 98, 862	72, 784 73, 947 74, 701	1,381,511	364, 409	142, 471	185, 198	85,220 89,130	517, 246 520, 360
with F. R. banks: Sept. 27. Oct. 4. Oct. 11. Oct. 18. Reserve with F. R. banks: Sept. 27. Oct. 4. Oct. 11. Oct. 18. Oct. 18. Oct. 18. Oct. 27. Oct. 4. Oct. 18. Oct. 27. Oct. 4. Oct. 28. Oct. 28. Oct. 28. Oct. 28. Oct. 28. Oct. 29. Oct. 29. Oct. 20. Oct. 2	10,191,051	789, 595	;0,100,000 ;	780, 401	553,645	98, 802			1	140,000	100,009	08,100	020,000
Sept. 27.	981,906	68, 564	580, 573	63, 306	34,351	5,432	5,402	133, 390 143, 724 131, 339 134, 230	23, 323	11,246	15,288	6,745	34, 286
Oct. 11	1,014,070	67, 758	592, 955 655, 436	68,223 60,943	$31,352 \\ 32,333$	5, 760 5, 859	6, 566 5, 540	143,724	25, 500 27, 946	13,276 9,062	17,658 16,533	6, 873 6, 873	32, 073 35, 219
Oct. 18	1, 076, 256	70, 616 67, 758 71, 875	655, 436 665, 748	66, 517	33, 622	5,454	6, 503	134, 230	25,663	8, 549	15,690	7,492	33, 913
Cash in vault:	151 966			12,567	7,910	982	1 000	29,646		2,242	1	1,504	6,047
Oct. 4	149, 261	8,351 8,185	74,377	12,512	8,065	963	1,860 2,041	29,160	3,450 3,381	2,285 2,392	2,330 2,156 2,251	1,468	5,968
Oct. 11	161, 454	9,092	81,173	14,899	8,329	967	1,963	28,973	3,656	2,392	2,251	1,718	6,041
Sept. 27. Oct. 4. Oct. 11. Oct. 18. Net domand deposits:	156,084	8,612	74,960	13,828	8,605	1,051	1,869	31, 449	3,695	2,072	2, 420	1, 473	6,050
Net demand deposits: Sept. 27 Oct. 4. Oct. 11. Oct. 18. Time deposits: Sept. 27	7, 704, 196	623, 545	4,357,471	616, 350	238, 484	52, 874 54, 532	41, 179	990, 053	222, 103	94, 470	156, 567	62,451	248,649
Oct. 4	7,761,598	637, 496 634, 198	4,385,710	623, 133 633, 040	236,867 236,768	54,532	41,778 44,077	998,605 1,012,569	226,079 230,785	93,206	157,136 157,722	63, 295 66, 474	243, 761 251, 445
Oct. 18	7,856,679	645,313	$\begin{array}{c} 4,385,710\\ 4,385,252\\ 4,473,873\end{array}$	627, 343	231, 311	56,064 53,701	43,652	990, 449	226,642	93, 828 94, 726	153, 399	69, 531	251, 445 246, 739
Time deposits:	1 750 946	112,761	551,949	39,943	296, 465	24, 254	19, 518	999 505	99, 457	34, 413	11, 337	9,273	230, 465
Government deposits:	1,762,711	108,927	557,061	40,131	297,779	21,230	19,723 19,786	328, 505 328, 717 325, 383 342, 627	99,812	35,007 34,848	11.301	9,397	230,626
Oct. 11	1,750,593	108,944	557,061 542,231 542,318	40, 108 39, 959	303, 610 304, 703	24, 230 24, 212 24, 321	19,786 19,822	325, 383	100, 296 100, 702	34, 848 34, 743	11, 324 11, 458	9, 526 9, 434	230, 325
Government deposits:	1,1,10,041	il i	1 014,010	33, 300	001,100		10,022	012,021	L .		1		
Sept. 27. Oct. 4. Oct. 11	106,687	10,314	45,606	9,425	6, 532	1,504	1,325	11,385	5,150	$1,760 \\ 1,499$	3,916	2, 336 1, 999	6,434
Oct. 11	91, 484 73, 286	8,750 7,032	39,834 31,863	8,478 6,776	5, 457 4, 484 6, 279	1, 285 1, 029	1,125	9,754 7,766	4, 458 3, 564	1, 195	3, 347 2, 679	1,599	5,498
Oct. 18. Bills payable with F. R.	228, 410	26,624	111, 879	26, 990	6, 279	1, 701	2,854	16, 364	18, 386	3, 363	3, 877	2, 253	7, 840
banks:										1			
Secured by U.S. Gov-		ll i				, i		ļ	{			}	1
ernment obligations-	28,300	2, 111	10,030	8, 155		419		2, 410	250	38	.687		4,200
Sept. 27 Oct. 4 Oct. 11 Oct. 18	46, 534	2, 111 2, 374 4, 548 4, 310	20, 980	7,447		1,022	654	5,396	1,876	98	687		6,000
Oct. 11	116,610 73,349	4,548	93, 555 41, 630	9,042	<u>-</u>	1,396 2,085	654	4,509 9,855	250 450	123 123	687 865		2, 500 4, 950
		11		1					*	1		ł	1
Sept. 27. Oct. 4. Oct. 11.			•	·				•					
Oct. 11													
Oct. 18		 		.			· • • • • • • • • •	.			.		
Bills rediscounted with F. R. banks:	i		1		1		1	•			1		
Secured by U. S. Gov-	1	4	1	1	1	1	;	1	1		1	1	
ernment obligations— Sept. 27	1,028	54	474	105							. 33		362
Oct. 4	. 196	54		. 105							. 37		
Oct. 11 Oct. 18	366	182		105 105		· • • • • • • • •		• • • • • • • • • • • • • • • • • • • •			. 79 75		•••••
All other		3						1			1		
Sept. 27	49,751 52,276 73,969	12,937 12,882 18,804	$13,277 \\ 12,725 \\ 28,667 \\ 28,667$	6,855	3,421	2,500 3,467	465	6,090	1,036	740	840	1,288	302 3,019
Oct. 4 Oct. 11	73.969	12,882	28.667		2, 461 4, 706	3.062	801 509	5,970 5,515	962 264	451 816	1,278 1,123	1,337 1,080	1,570
Oct. 18	96, 717	16,687	33, 353	10, 549	6, 822	3,248	1,050	17,994	66	698	1,057	1, 843	3, 350
	1	<u>}</u>	1	<u> </u>	<u> </u>	1	i	<u> </u>	1	1	!	<u> </u>	

BANK DEBITS.

For the four weeks ending October 25 the volume of business, as measured by bank debits, continued the upward course begun during the preceding five weeks. The level of debits for the period was on an average 18.7 per cent higher than for the preceding five weeks. During the week ended October 18 the volume of debits was \$9,868,000,000, the highest record for the year with the single exception of the end-of-quarter week ending April 3.

Compared with the corresponding period in 1921. the debits for the four weeks were on an average level 19.5 per cent higher. This spread between the two years compares with about 13 per cent shown in August and September. The increase in the volume of business for New York City was 21 per cent over the preceding five-week period, while outside of New York City it was 16 per cent. Compared with last year, New York City figures were 28 per cent higher and figures for the centers other than New York were 11 per cent higher. It is to be noted that the volume of debits for the outside centers was higher during the week ending October 18 than for any week in 1922 or in 1921, with the exception of the week ending January 4, at the turn of 1920-21.

The volume of business is measured by debits to individual accounts as reported to the Federal Reserve Board for banks in leading centers. Figures are shown for a total of 250 centers, of which 165 are included in the summary by Federal reserve districts, because for these centers comparable figures for the four weeks and for the corresponding period in 1921 are available.



DEBITS TO INDIVIDUAL ACCOUNTS BY BANKS IN REPORTING CENTERS.

SUMMARY BY FEDERAL RESERVE DISTRICTS.

[In thousands of dollars.]

Federal reserve district.	Number of centers		19 Week ei				1921 Week ending—				
·	included.	Oct. 4.	Oct. 11.	Oct. 18.	Oct. 25.	Oct. 5.	Oct. 11-12.	.Oct. 19.	Oct. 26.		
No. 1—Boston. No. 2—New York. No. 3—Philadelphia. No. 4—Cleveland. No. 5—Richmond. No. 6—Atlanta. No. 7—Chicago. No. 8—St. Louis. No. 9—Minneapolis. No. 10—Kansas City. No. 11—Dallas. No. 12—San Francisco.	$\begin{array}{c} & 7 \\ 13 \\ 13 \\ 11 \\ 15 \\ 24 \\ 8 \\ 11 \\ 16 \\ \end{array}$	$\begin{array}{c} 510, 143\\ 5, 303, 375\\ 465, 883\\ 509, 699\\ 232, 652\\ 221, 667\\ 1, 070, 231\\ 1258, 966\\ 165, 867\\ 268, 893\\ 170, 159\\ 522, 707\\ \end{array}$	$\begin{array}{r} 472,995\\ 5,206,468\\ 434,466\\ 464,372\\ 212,919\\ 198,613\\ 978,623\\ 978,623\\ 255,190\\ 154,853\\ 260,580\\ 154,691\\ 517,902 \end{array}$	$\begin{array}{c} 542,023\\ 5,297,016\\ 484,583\\ 523,167\\ 226,451\\ 218,259\\ 1,119,834\\ 284,511\\ 174,021\\ 279,442\\ 185,104\\ 533,372\end{array}$	$\begin{array}{c} 507,831\\ 5,304,373\\ 461,151\\ 493,239\\ 216,290\\ 205,827\\ 1,030,968\\ 249,961\\ 153,453\\ 275,348\\ 176,271\\ 511,648\\ \end{array}$	472, 802 4, 516, 858 399, 888 445, 281 234, 577 211, 796 985, 093 239, 769 160, 002 242, 164 186, 948 501, 368	$\begin{array}{r} 375, 399\\ 3, 466, 985\\ 313, 750\\ 359, 682\\ 202, 808\\ 182, 669\\ 782, 658\\ 219, 774\\ 137, 002\\ 227, 948\\ 135, 186\\ 420, 572\\ \end{array}$	$\begin{array}{r} 573,538\\ 4,668,077\\ 459,881\\ 489,464\\ 255,381\\ 221,052\\ 1,082,872\\ 259,633\\ 159,860\\ 248,884\\ 167,643\\ 562,348\end{array}$	$\begin{array}{r} 458,107\\ 3,858,707\\ 353,412\\ 405,452\\ 204,969\\ 188,161\\ 941,567\\ 209,884\\ 141,106\\ 234,740\\ 153,294\\ 475,765\end{array}$		
Total	165	9, 700, 272	9, 321, 678	9, 867, 783	9, 586, 360	8, 596, 546	6, 825, 433	9, 149, 133	7, 625, 224		

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DEBITS TO INDIVIDUAL ACCOUNTS BY BANKS IN REPORTING CENTERS-Continued. DATA FOR EACH REPORTING CENTER.

[In thousands of dollars.]

		192 Week er	2 nding—					
	Oct. 4.	Oct. 11.	Oct. 18.	Oct. 25.	Oct. 5.	Oct. 11-12.	Oct. 19.	Oct. 26.
District No. 1—Boston: Bangor, Me Boston, Mass Brockton, Moss	4,650 338,805 4,700	3,774 318,603 4,401	3, 329 371, 286 5, 612	3, 319 340, 055 4, 875	5, 139 318, 357	3, 5 97 255, 555	4, 065 403, 425	3, 844 318, 167
District No. Poston, Mass. Booton, Mass. Brockton, Mass. Brockton, Mass. Fall River, Mass. Hartford, Conn. Hidyoke, Mass. Lowell, Mass. Lym, Mass. New Bedlord, Mass. New Bedlord, Mass. New Haven, Conn. Portidand, Me. Providence, R. I. Springfield, Mass. Waterbury, Conn. Worester, Mass. District No. 2- New York: Albany, N. Y. Minghanton, N. Y Buffalo, N. Y. Buffalo, N. Y. Stamford, Conn. Syracuso, N. Y. No. New Jorsey Clearing House Association. tion. Passaic, N. J. Rochester, N. Y. Stamford, Conn. Syracuso, N. Y District No. 3Philadelphia: Altoona, Pa. Altoona, Pa. Attoona, Pa. Harisburg, Pa. Hataleton, Pa. Hatosown, Pa. Hatosown, Pa. Hatosown, Pa. Hatosown, Pa. Norristown, Pa. Hataleton, Pa. Norristown, Pa. Philadelphia, Pa. Reading, Pa. Stranton, Pa. Norristown, Pa. Notristown, Pa. Philadelphia	4,700 7,923 25,715 4,249 5,721	$\begin{array}{r} 4,101\\ 6,682\\ 22,399\\ 4,024\\ 4,772\\ 5,360\\ \end{array}$	$\begin{array}{c} 8,496\\ 31,160\\ 3,801\\ 5,320 \end{array}$	8,485 21,565 4,041 5,524	7,678 26,096 3,115 4,592	6, 261 17, 485 2, 434 3, 977	$8,373 \\ 23,456 \\ 3,742 \\ 6,176$	7,077 16,626 2,757 4,570
Lynn, Mass. Manchester, N. H. New Bedford, Mass. New Haven, Conn. Porthand Mo	5,623 4,399 6,120 20,417 13,366	4, 521 6, 256 18, 706	8,095 3,860 8,378 19,286 9,631	6, 410 4, 001 8, 335 18, 148 8, 074	4, 876 5, 719 18, 101 9, 399	3,807 5,163 13,471	5, 396 8, 370 19, 728 7, 598 40, 438	4, 106 6, 571 15, 420 6, 474 40, 379
Providence, R. I. Springfield, Mass. Waterbury, Conn. Worcester, Mass.	13, 366 36, 239 17, 879 8, 024 16, 636	8,298 35,520 16,338 7,157 15,945	37,470 16,424 6,904 16,678	43, 329 18, 042 7, 195 17, 718	34, 053 14, 337 6, 316 15, 024	9,45726,47211,007 $4,71212,001$	40, 438 16, 856 7, 285 18, 630	40, 379 13, 694 4, 993 13, 429
District No. 2—New York: Albany, N. Y Binghamton, N. Y Buffalo, N. Y. Elmira N. Y.	$\begin{array}{c} 26,575 \\ 4,761 \\ 73,692 \\ 3,869 \end{array}$	22,468 5,031 64,267 3,891	$19,915 \\ 3,626 \\ 67,274 \\ 3,938$	18,029 4,127 64,856 3,836	22, 130 4, 098 64, 670	15, 863 3, 364 46, 049	20, 196 4, 981 73, 382	16, 647 3, 597 53, 947
Jamestown, N. Y. Montelair, N. J. Newark, N. J. New York, N. Y.	3,825 3,262 63,468 5,132,725	$\begin{array}{c} 64,267\\ 3,891\\ 3,801\\ 2,647\\ 53,403\\ 5,061,257\end{array}$	$\begin{array}{r} 5,220\\ 67,274\\ 3,938\\ 3,989\\ 2,755\\ 58,050\\ 5,151,813\end{array}$	3, 836 3, 731 2, 678 57, 221 5, 165, 932	4, 373, 399	3, 364, 389	4, 514, 605	3,741,327
No. New Jersey Clearing House Associa- tion	44, 391 6, 329 43, 031 3, 508	39, 640 6, 403 32, 974 3, 504	39, 054 6, 784 33, 487 2, 878	36, 462 6, 222 31, 278 2, 579	4,839 32,598	4, 418 23, 020	5,999 34,212	5,005 25,534
Syracuse, N. Y. District No. 3—Philadelphia: Allentown, Pa.	16, 262 8, 522	14,068	14, 117	13, 929 6, 367	15, 124	9, 882	14, 702	. .
Altoona, Pa. Camden, N. J. Chester, Pa.	$\begin{array}{r} 4,030\\ 11,172\\ 6,115\\ 9,185\end{array}$	7,456 3,230 9,740 4,972 7,235	$\begin{array}{c} 6,587\ 3,790\ 11,472\ 7,313\ 8,684 \end{array}$	3,445 9,142 4,452 7,378	3, 164 4, 711 7, 963	2, 535 3, 499 5, 363	3,622 5,744 7,766	3, 107 3, 939 5, 812
Harlson, Fa. Johnstown, Pa. Lancaster, Pa. Lebanon, Pa.	2,827 6,441 6,248 1,446		2,498 5,412 6,157 1,597	2,303 4,841 5,615 1,302	5,218 5,534	4,005 4,286	5,005 6,046	4,067 4,479
Norristown, Pa. Philadelphia, Pa Reading, Pa Scranton, Pa	918 368,713 8,508 14,782	340,708 8,934 21,011	933 390, 377 9, 169 14, 304	804 371, 510 8, 806 16, 786	311,743 7,841 15,389	242,202 7,750 14,855	366, 539 9, 004 14, 030	276,758 6,686 16,258 10,526
Wilkes-Barre, Pa. Williamsport, Pa. Williamsport, Pa. Wilmington, Del.	11, 987 9, 427 5, 850 9, 057 5, 540	11,9358,6454,2367,3194,590	14,304 12,694 9,420 4,683 8,167 4,413	12, 111 7, 909 4, 443 9, 427 4, 428	$10,240 \\ 11,186 \\ 4,233 \\ 8,254 \\ 4,412$	9, 192 7, 664 4, 151 5, 475 2, 773	13, 689 10, 130 4, 874 8, 943 4, 489	10, 526 8, 584 3, 649 5, 926 3, 621
District No. 4—Cleveland: Akron, Ohio. Butler, Pa.	14,473 2,947 9,325	14,2253,29010,18467,167118,700	12,814 2,431 9,905	14,609	14,302	9,536	13,246	12,665
Cincinnati, Ohio. Cleveland, Ohio. Columbus, Ohio. Columbus, Ohio.	71,172 144,947 31,490 1,867	1.638	74,069 164,624 34,935 1,518	8,324 67,740 127,614 31,194 1,286	59,842 124,203 27,709	$50,025 \\ 84,375 \\ 23,710$	78,732 136,417 31,465	61,091 102,972 25,513
Dayton, Ohio Eric, Pa. Greensburg, Pa. Homestead, Pa.	14,167 7,201 5,317 1,485	11, 283 7, 029 4, 973 873	15,632 7,003 6,030 717	14,446 6,549 5,027 838	12,980 7,441 4,398	12,812 5,675 3,882	13,419 5,868 4,867	12,663 5,485 4,869
Lexington, Ky. Lima, Ohio Lorain, Ohio New Brighton, Pa	5,116 4,040 1,508 2,738	3,788 3,065 1,404 2,206	$4,555 \\ 3,218 \\ 1,551 \\ 2,284$	$\begin{array}{r} 4,585 \\ 3,040 \\ 1,277 \\ 1,948 \end{array}$	3,410	3,054	4,290	3,409
Oil City, Pa. Pittsburgh, Pa. Springfield, Ohio. Toledo, Ohio.	3,215 181,775 4,555 44,103	2,206 4,004 179,051 4,032 47,470 3,146	1, 551 2, 284 3, 446 167, 787 5, 764 37, 700 3, 284 11, 377 15, 131 3, 146	3,295	2,218 165,279 3,353	1,500 147,134 3,190	2,602 174,496 3,707	2,620 153,893 3,539
Warren, Ohio. Wheeling, W. Va. Youngstown, Ohio. Zanesville, Ohio.	3,037 10,805 15,466 2,820	3, 146 8, 721 11, 046 2, 900	$3,284 \\ 11,377 \\ 15,131 \\ 3,146$	4,252 34,902 2,234 9,732 11,593 2,818	7,656 12,490	5,598 9,191	9,034 11,321	8,286 8,447
Asheville, N. C. Baltimore, Md. Charleston, S. C.	4,655 93,702 5,841 9,190	5,049 79,174 5,010 9,207 8,260 8,260	4,903 88,307 4,666 9,207	4,483 81,467 4,889 8,894	112,468 6,186	87,943 5,674	131, 144 5, 380	94,655 5,709
Charleston, W. V. Charlotte, N. C. Columbia, S. C. Cumberland, Md	8,955 6,692 2,159 2,421	8,260 6,490 1,779 3,024	9,114 5,387 2,140 3,596	8,486 5,921 1,840 3,716	6,554 6,591	7,101 5,389	7,202 5,576	5,844 5,050
Durham, N. C. Greensboro, N. C. Greenville, S. C.	2,421 4,361 4,844 4,700 2,985 5,315	4,470 5,017 4,800	3,390 4,948 4,855 5,200 2,370	5,962 4,504 3,700	4,582	5,042	3,866	3,648
Hagerstown, Md Huntington, W. Va. Lynchburg, Va.	2,985 5,315 5,478	2,078 5,253 4,540	2,370 6,249 4,736	2,183 5,247 4,224	4, 393	3,772	5,772	4,434

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DEBITS TO INDIVIDUAL ACCOUNTS BY BANKS IN REPORTING CENTERS-Continued. DATA FOR EACH REPORTING CENTER-Continued.

	1922 Week ending 1921 Week ending Oct. 4. Oct. 11. Oct. 18. Oct. 25. Oct. 5. Oct. 11-12. Oct. 19. d. 							
	Oct. 4.	Oct. 11.	Oct. 18.	Oct. 25.	Oct. 5.	Oct. 11–12.	Oct. 19.	Oct. 26.
istrict No. 5-Richmond-Continued.	1,709	1,487	1,682	1,601				
istrict No. 5RichmondContinued. Newport News, Va. Norfolk, Va. Richmond, Va. Roanoke, Va. Spartanburg, S. C. Washington, D. C. Wilmington, N. C. Winston-Salem, N. C. Winston-Salem, N. C.	16,832	17,978	17,441	18,318	15,044	14,137	15,915	14,017
Raleigh, N. C. Richmond, Va	5,900 31,943	7,400 29,022	4,700 35,275	9,400 32,017	4,000 28,974	4,080 26,724	3,140	3,600 25,620
Roanoke, Va.	5,418 2,871	5,388 2,972		$5,460 \\ 2,582$	•••••		••••••	••••••
Washington, D. C.	47,149	43,870	44,091	40,834	39,948	37,555	42,799	37,443
Wilmington, N. C. Winston-Salem, N. C.	$5,623 \\ 6,533$	5,662 7,306	6,021 11,994	6,011 6,781	5,837	5,391	6,016	4,949
istrict No. 6-Atlanta: Albany, Ga	1.322	1, 130	1,300	1,033				
Atlanta, Ga	28,723 7,881	29, 167	30, 846	27,311	28, 445 8, 997	$26,548 \\ 7,706$	29, 541 6, 768	25,081 6,793
Augustá, Ga. Birmingham, Ala	24,530	7,146 23,443	8, 342 24, 579	7, 568 18, 896	15, 529	7,146	14,632	13, 318
Brunswick, Ga Chattanooga, Tenn	660 8,437		622 8,624	$\begin{array}{c} 677 \\ 7,253 \end{array}$	7,910	8,077	9,000	6,797
Columbus, Ga. Cordelc, Ga.	3,245	3,835	3,502	3, 646 492		•••••		
Dothan, Ala	$\begin{array}{c} 674 \\ 1,034 \end{array}$	800	600 900	1,023			· · · · · · · · · · · · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •
Elberton Ga	$310 \\ 2,559$		$246 \\ 3,034$	$244 \\ 2,557$		•••••	••••••	
Jackson, Miss. Jacksonville, Fla Knoxville, Tonn Macon, Ga	10, 360	9,908	10, 537	$11,231 \\ 5,813$	9,000 8,485 4,773	8,445 6,518	10,371 8,007	8,711 5,676
Macon, Ga.	6, 930 5, 385	5, 871 4, 917	7,605 5,293	4,830	4,773	4,432	4,811	5,070
AIRFRIDAD, MISS	2.183	2,450 5,792	2,730 7,788	4, 830 2, 397 7, 526		5,380	6,188	
Mobile, Ala. Montgomery, Ala. Nashvillo, Tenn	5,182	5,170	5,539	5, 330 17, 146	8, 431 4, 978 28, 478	4, 361 29, 323	4,618 29,840	6,350 3,819 28,185
Newnan, Ga.	580	16,740 422	17, 257 394	462		!		
New Orleans, La Ponsacola, Fla	$79,788 \\ 1,550$	63,911 1,287	72,862 1,351	72,957 1,411	62,877 1,500	52,722 1,317	74,333 1,443	61,049 1,092
Savannah, Ga Tampa, Fla	11.086	$10,430 \\ 5,380$	9, 980 5, 549	10,931 5,357	14, 800 5, 724	13, 860 4, 956	14, 100 5, 129	10, 800 4, 408
Valdosta, Ga	5,701 1,090	1,211	1,087	1,013			i	
Valdosta, Ga. Vicksburg, Miss istrict No. 7—Chicago:	1, 819	1, 819	2, 107	2, 267	1,869	1, 878	2,271	1,849
Adrian, Mich.	$782 \\ 3,159$	742 2,637	775 3,681	$659 \\ 2,959$	·····	• • • • • • • • • • • • • •	•••••••••••••••	••••••••••
Bay City, Mich.	3,020	2,403 1,859	2 482	2,440	3,050 2,486	2,238 1,914	2,509 2,469	2,362 1,911
Cedar Rapids, Iowa	2,560 5,996	5, 816	2,435 5,450	2, 233 4, 922	2,480 10,595	10,409	10,461	1,911 9,044
Adrian, Mich. Aurora, Ill. Bay City, Mich. Bloomington, Ill. Cedar Rapids, Iowa Chicago, Ill. Davonort Iowa	689,607	648,408 2,500	752,272 2,600	654, 477 2, 300	655, 888	491,607	717,306	620, 854
Davenport, Iowa	2,400 9,811	2,500 8,900	8,023	7,609	7,275	$7,285 \\ 2,388$	6,927	7,219
Decetur, III. Decetur, III. Des Moines, Iowa. Detroit, Mich. Dubuque, Iowa.	3,331 16,613	.3, 189 13, 665	3, 475 17, 137	3, 556 19, 363	3,038 16,487	16.754	3, 551 16, 346	7, 219 2, 794 15, 868
Detroit, Mich	136, 394 3, 081	114,724 3,095	122,664 2,892	143,468 3,304	109,700 3,043	91,761 2,717	135,918 3,205	114.577
Flint, Mich	5,728	5,959	5,279	7,421 6,971	5.946	2,717 4,596 5,829	5,770	2,633 5,327
Flint, Mich. Fort Wayno, Ind. Gary, Ind. Grand Bapids, Mich.	9, 029 3, 037	7,387 2,620	7,518 3,185	2,563	5, 576		7,554	6,317
Grand Rapids, Mich	15, 075 3, 290	14,179	16, 136 3, 400	14,920 3,570	21, 401	19,712	21,151	20, 462
Grand Rapids, Mich. Hammond, Ind. Jackson, Miss Kalamazoo, Mich. Lansing, Mich. Mason City, Jowa. Milwaukee, Wis. Moline, III. Muscatine, Jowa. Oshkosh, Wis. Peoria. III.	$3,290 \\ 34,759 \\ 4,275$	2,770 28,045 3,878	41,903 4,325	32, 194 4, 234	30,001 3,757	$24,657 \\ 3,254$	38,227 3,651	31,351 3,950
Kalamazoo, Mich.	4, 822	4,480	4,884	4,350	4,059	3,793	3,979	4, 124
Mason City, Iowa	6,100 2,504	$\begin{array}{c} 6,100 \\ 2,053 \end{array}$	6,400 2,076	6,533 2,519	5, 155	4, 229	5,100	5, 397
Milwaukee, Wis.	69, 493 1, 496	57,065 1,542	63, 850 1, 886	63,828 1,920	58, 542 1, 767	$54,670 \\ 1,556$	60,114 2,144	$53,674 \\ 1,522$
Muscatine, Iowa.	1,536	1.762	1,516	1,467			·····	••••••••••
Peoria, III.	2,200 9,163	2,400 7,088	2,400 10,528	9,160	8, 397 4, 501	6,204	9,203	7,22
Rockford, Ill.	4,972 4,375	6,013 4,878	5,181	4,550 4,785	4,501	4, 496	4,089	4,088
Sioux City, Iowa	17,137 8,042	4, 878 17, 259 8, 695	5, 046 17, 205 7, 979	16.105 l	9,062 6,446	8,190 5,504	8,384	7, 191 5, 847
Springfield, Ill.	5,906	5,242	5, 849	8,080 5,161	5,522	5, 543	6,899 4,792	5,000
Rockford, III. Saginaw, Mich. Sioux City, Iowa. South Bend, Ind. Springlield, III. Waterloo, Iowa. istrict No. 8—St. Louis: East St. Louis and National Stock Yards, III	3, 851	3,638	4,081	4, 169	3, 399	3,352	3, 123	2,820
East St. Louis and National Stock Yards,	10,643	10,255	10,136	10.280	8,002	8,232	8, 539	8,259
Evansville, Ind	7,512	6,650	6,949	$10,280 \\ 7,349$	4,942	4,776	6,090	4, 918
Greenville, Miss.	3,420 754	3,410 968	3,677 1,013	3, 551 933	·····			••••••
Helena, Ark.	$1,346 \\ 13,800$	2,230 15,432	$2,240 \\ 15,166$	$2,106 \\ 15,491$	14.382	10,454	13.896	10,740
Louisville, Ky	31,807	32,531	35,416	33,635	$14,382 \\ 28,158 \\ 34,502$	24,456	13,896 34,612 34,768	28,892
Owensboro, Ky	35,200 937	34,078 1,187	39,333 1,212	$38,068 \\ 1,025$	34,502		34,768	29,13
Quincy, III	2,332 154,749	2,543 150,925	2,665 171,528	2,377 139,896	2,294 144,516	1,745 134,832	2,575 156,314	2,060 123,341
Springfield, Mo.	2,923	2,776	3,318	2,865	2,973	- 2,851	2,839	2,539
Aberdeen, S. Dak.	1,524	1,374	1,429	1,217	1,588	1,566	1,498	1,30
East St. Louis and National Stock Yards, III. Evansville, Ind. Fort Smith, Ark. Greenvillo, Miss. Helena, Ark. Lutisville, Ky. Memphis, Tenn. Owensboro, Ky. Quiney, III. St. Louis, Mo. Springfield, Mo. District No. 9-Minneapolis: Aberdeen, S. Dak. Billings, Mont. Dickinson, N. Dak. Duluth, Minn.	1,819 328	1,700 309	2,100 416	1,975 393	2,120	1,673	2,171	1,30 1,79
Dubith Minn	26,545	24,241		20,467	22,249	19,266	20,578	18,88

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DEBITS TO INDIVIDUAL ACCOUNTS BY BANKS IN REPORTING CENTERS-Continued. DATA FOR EACH REPORTING CENTER-Continued. .

[In	thousands	of dollars.]	
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		199 Week ei				192 Week er	21 nding—	
	Oct. 4.	Oct. 11.	Oct. 18.	Oct. 25.	Oct. 5.	Oct. 11-12.	Oct. 19.	Oct26.
District No. 9—Minneapolis—Continued. Fargo, N. Dak. Grand Forks, N. Dak. Great Falls. Mont.	3,484 2,095 2,352	3,469 2,572	3,272 2,738	3,250 2,328	2,985 1,793 2,132	2,735 1,739 1,627	3,550 2,448 2,238	2,722 1,970 1,831
Helena, Mont. Jamestown, N. Dak. Lewistown, Mont. Minneanolis, Minn	2,035 539 1,496 82,856	2,640 612 1,520 80,066	2,763 580 $1,567$ $89,252$	2,398 484 1,438 80,558	3,244 86,838	2,715 69,855	3,132 84,288	2, 918 75, 338
Minot, N. Dak. Red Wing, Minn. St. Paul, Minn.	1,295 638 138,946	1,235 517 131.846	1,784 500 140,529	1,543 479 135,230	32,089	30,243	35,002	29,622
Do. Sioux Falls, S. Dak Superior, Wis. Winona, Minn	44,518 3,580 1,869 1,114	$36,201 \\ 3,700 \\ 2,009 \\ 1,236$	46,925 3,616 2,181 1,104	40,962 3,302 1,792 936	4,113 1,836 1,147	4,033 1,947 1,230	4,179 1,857 1,157	3,579 2,106 927
District No. 10—Kansas City: Atchison, Kans Bartlesville, Okla Casper, Wyo	1,320 2,711 3,305	$1,552 \\ 2,155 \\ 3,845$	$1,504 \\ 2,275 \\ 3,821$	1,285 1,992 3,962	1,329 1,808	$1,289 \\ 1,541$	1,317 2,121	1,232 1,469
Cheyenne, Wyo Colorado Springs, Colo Denver, Colo Enid, Okla	2,394 2,708 38,262 2,939	3,119 2,965 39,116 2,874	2,839 2,899 42,639 2,874	6,388 2,774 49,910 2,598	$2,922 \\ 2,716 \\ 34,651$	2,220 2,486 30,168	1,658 2,549 32,414	1,342 2,346 34,002
Fremont, Nebr Grand Island, Nebr Grand Junction, Colo Guthrie, Okla	772 1,434 574 768	741 1,527 748 813	724 1,469 690 922	802 1,492 755 990			•••••	
Hutchinson, Kans Independence, Kans Joplin, Mo Kansas City, Kans Kansas City, Mo	3,086 2,224 2,587 4,301 83,297	3,130 1,830 2,583 3,909 75,704	2,988 2,914 3,001 3,536 82,726	2,908 1,923 2,473 3,357 85,163 776	2,539 3,477 77,073	2,242 3,062 75,106	2, 346 3, 295 80, 568	1,072 3,202 71,824
Lawrence, Kans McAlester, Okla Muskogee, Okla Oklahoma City, Okla Ormulaco Okla.	$1,142 \\ 1,311 \\ 7,662 \\ 22,388 \\ 2,132 \\ 2,132 \\$	$1,098 \\ 1,116 \\ 7,571 \\ 18,394 \\ 1,880$	$ \begin{array}{r} 1,040\\ 1,499\\ 8,103\\ 18,939\\ 1,868 \end{array} $	776 1,162 8,111 17,082 1,690	3,926 21,130	3,982 22,271	3,750 21,335	3,934 21,429
Omaha, Nebr Parsons, Kans. Pittsburg, Kans. Pueblo Colo	49,440 976 1,171 3,003	48,856 965 1,123 3,670	54,072 918 1,325 3,288	47,724 1,020 1,252 3,858	41,803	34,840	48,117	41,982
st. Joseph. Mo. Topeka, Kans. Tulsa, Okla. Wichita, Kans.	15,089 3,220 19,813 10,698	$\begin{array}{c c} 14,232 \\ 3,808 \\ 21,292 \\ 11,654 \end{array}$	$\begin{array}{c} 16,201 \\ 3,850 \\ 22,513 \\ 11,057 \end{array}$	13,931 3,225 18,973 9,102	3,931 16,866 4,217 13,082 10,694	$\begin{array}{r} 4,003\\ 15,299\\ 3,425\\ 15,489\\ 10,525\end{array}$	$\begin{array}{r} 4,141 \\ 17,219 \\ 4,751 \\ 13,101 \\ 10,202 \end{array}$	5,488 17,549 3,613 14,949 9,307
District No. 11—Dallas: Albuquerque, N. Mex. Austin, Tex. Beaumont, Tex.	2,063 4,780 3,092 1,252	2,468 4,642 3,900 1,430	2,429 5,165 3,802	2, 142 4, 031 3, 776	1, 947 3, 735 3, 054	1,725 3,349	1,687 3,653 3,643	1,771 2,757 3,111
District No. 9-Minneapolis-Continued. Fargo, N. Dak. Grand Forks, N. Dak. Grant Forks, N. Dak. Helena, Mont. Jamestown, N. Dak. Lewistown, Mont. Minneapolis, Minn. Minot, N. Dak. Red Wing, Minn. St. Paul, Minn. Do. Sioux Falls, S. Dak. Superior, Wis. Winoma, Minn. DoKansas City: Atchison, Kans. Bartlesville, Okla. Casper, Wyo. Colorado Springs, Colo. Denver, Colo. Denver, Colo. Enid, Okla. Fremont, Nebr. Grand Island, Nebr. Grand Junction, Colo. G uthrie, Okla. Hutchinson, Kans. Independence, Kans. Joplin, Mo. Kansas City, Mo. Lawrence, Kans. Mo. Lawrence, Kans. Pueblo, Colo. St. Joseph, Mo. Topeka, Kans. Pueblo, Colo. St. Josep	1,252 45,408 6,508 21,966 30,739 31,302	1,430 41,037 6,761 22,846 29,048 29,824	$\begin{array}{c}1,599\\52,673\\6,903\\23,460\\29,128\\35,538\end{array}$	1, 201 47, 611 7, 175 23, 875 29, 852 33, 312 732	42,669 6,997 27,430 27,853 50,394	33,827 6,758 27,312 18,753 23,025	$\begin{array}{r} 44,689\\8,207\\28,412\\19,068\\32,915\end{array}$	39,202 7,044 28,842 21,360 28,550
Roswell, N. Mex. San Antonio, Tex. Shreveport, La. Texarkana, Tex. Tucson, Ariz.	702 6,992 7,663 1,646 1,578	852 7,622 7,828 1,502 1,670	670 7,655 8,608 1,796 1,627	732 6,935 8,088 1,550 2,022 5,902	6,805 7,596	4,872 5,985 1,440 1,555	7,767 8,155 1,800 1,700	6,123 7,103 1,473 1,696
Waco, Tex. District No. 12—San Francisco: Bakersfield, Calif. Bellingham Wash	6, 422 2, 523 1, 726	5, 543 2, 123 1, 825	1,956	5,902 1,733 1,689		4,920	5,947	4, 262
Berkeley, Calif. Boise, Idaho. Eugene, Oreg.	3,901 2,993 1,815	5,535 3,034 2,700	3,942	3 634	3,674 3,151	2,916	2, 705	2,856 3,015
Berkeley, Calif. Boise, Idaho. Eugene, Oreg. Fresno, Calif. Long Beach, Calif. Dos Angeles, Calif. Oakland, Calif. Ogden, Utah. Pasadena, Calif. Phoenix, Ariz. Portland, Oreg. Reno, Nov. Ritzville, Wash. Sacramento, Calif. Salt Lake City, Utah. San Bernardino, Calif. San Bernardino, Calif. San Francisco, Calif. San Francisco, Calif. San Francisco, Calif. Seattle, Wash. Spokane, Wash. Stockton, Calif. Tacoma, Wash. Stockton, Calif.	14, 533 9, 206 126, 900 22, 742 4, 366	15, 511 7, 920 117, 872 29, 947	18,747 11,009 132,573 26,294 5,473	9, 569 123, 543 22, 363	13, 532 5, 555 109, 743	19, 521 4, 721 90, 312 17, 895 4, 092	16,818 6,683 128,073 19,512 3,131	15,189 5,407 103,040 16,904 3,650
Pasadena, Calif. Phoenix, Ariz. Portland, Oreg. Reno. Nov	5,713 4,140 41,045 2,831	38.579	38,999	6,331 4,432 36,412	5, 340 35, 709	31,647	6,066 40,668	4,966 40,717 2,471
Ritzville, Wash Sacramento, Calif. Salt Lake City, Utah	197 17,537 14,718	202 16,328 14,569	8 18,605 9 14,921	13,263 14,419	17,523	14,998	19, 151	15,978 13,084
San Bernardino, Calif San Diego, Calif. San Francisco, Calif. San Jose, Calif. Santha, Wach.	1,460 8,531 175,358 5,978	1,590 8,584 173,162 173,262	2 166.277	8,864 172,901 6,813	182,458	6,133	8,337	7,177 179,526
seattle, wasn Spokane, Wash. Stockton, Calif Tacoma, Wash. Vakima Wash	. 37,01 12,549 5,52 8,650 2,61	12,13 5,63 10,90	0 13,417 1 4,808 3 10,077	7 11,599 3 5,803 7 8,364	13,34 6,48 8,73	7 9,342 3 4,321 7 6,880	11.750	9,581 5,050 8,029

¹ Debits of banks which submitted reports in 1921.

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NOVEMBER, 1922.

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FEDERAL RESERVE BULLETIN.

FEDERAL RESERVE CLEARING SYSTEM.

OPERATIONS DURING SEPTEMBER, 1922.

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

Federal resorve bank or branch.	In Fe serve	drawn or in own deral re- bank or ch city.	district Outsi eral i bai		on T of U	s drawn reasurer Jnited ates.	dled.	items han- exclusive plications.	wai other reserv and	ms for- ded to Federal ve banks l their nches.	war parer or to in :	ns for- ded to at bank branch same trict.	Total Nun	du 	handled, i plications. Amo		Num men bar	aber	Nun On pa	ban	Not o	n p ar
	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	1922	1921 ²	1922	1921 2	Sept. 30, 1922.	Sept. 15, 1921.	Sept. 30, 1922.	Sept. 15, 1921.	Sept. 30, 1922.	Sept. 15, 1921.
Boston New York. Bnffalo Philadelphia Cieveland Cincinnati Pittsburgh Richmond. Baltimore Atlanta. Birmingham Jacksonville Nashville Nashville New Orleans Chicago Detroit St. Louis Little Rock Louisville Memphis Minneapolis Helfena Kansas City Denver Oklahoma City. Omaha Dallas El Paso Houston San Francisco San Francisco Portland Salt Lake City. Seattlo Spokane Total:	$\begin{array}{c} 2,216\\ 195\\ 1,797\\ 704\\ 202\\ 484\\ 117\\ 258\\ 623\\ 200\\ 64\\ 57\\ 69\\ 1,054\\ \end{array}$	4, 496, 240 86, 321	4, 925 447 2, 225 1, 384 831 879	$\begin{array}{c} 396, 798\\ 661, 662\\ 55, 234\\ 77, 255, 234\\ 103, 037\\ 276, 274\\ 775, 370\\ 46, 643\\ 14, 216\\ 20, 048\\ 14, 216\\ 20, 048\\ 14, 216\\ 20, 048\\ 14, 334\\ 073\\ 551, 552\\ 14, 334\\ 073\\ 551, 552\\ 14, 334\\ 073\\ 12, 445\\ 19, 213\\ 24, 102\\ 12, 445\\ 351, 552\\ 351, 564\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 333, 505\\ 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15,134\\ 3,388\\ 33,697\\ 15,134\\ 4,340\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 15,134\\ 1,577\\ 1,577\\ 1,577\\ 1,577\\ 1,578\\ 1,577\\ 1,578\\ 1,577\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 1,578\\ 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84,159\\ 37,687\\ 84,159\\ 37,687\\ 84,159\\ 37,687\\ 84,159\\ 37,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 33,687\\ 34,159\\ 34,159\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,150\\ 34,1$	$\begin{array}{c} 168, 591\\ 1, 040, 045\\ 339, 650\\ 339, 650\\ 339, 650\\ 3426, 286\\ 411, 014\\ 243, 084\\ 107, 073\\ 35, 275\\ 449, 208\\ 74, 145\\ 914, 323\\ 105, 265\\ 37, 806\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 335, 275\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 145\\ 374, 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221\\ 342\\ 462\\ 158\\ 221\\ 75\\ 75\\ 75\\ 75\\ 55\\ 54\\ 1, 318\\ 85\\ 54\\ 1, 318\\ 365\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ 55\\ $	$\begin{array}{c} 2600\\ 2661\\ 78\\ 4799\\ 514\\ 314\\ 2552\\ 705\\ 2633\\ 90\\ 32\\ 60\\ 148\\ 551\\ 3,984\\ 255\\ 1,704\\ 229\\ 188\\ 2,420\\ 208\\ 1,420\\ 208\\ 1,420\\ 208\\ 1,420\\ 208\\ 1,420\\ 208\\ 1,420\\ 208\\ 1,420\\ 208\\ 1,420\\ 208\\ 1,420\\ 208\\ 1,420\\ 208\\ 1,420\\ 208\\ 1,50\\ 208\\ 1,78\\ 139\\ 912\\ 255\\ 274\\ 4178\\ 139\\ 912\\ 150\\ 275\\ 139\\ 103\\ 92\\ 150\\ 103\\ 92\\ 150\\ 103\\ 103\\ 103\\ 103\\ 103\\ 103\\ 103\\ 10$	$\begin{array}{c} 464\\ 521\\ 321\\ 321\\ 237\\ 742\\ 271\\ 110\\ 63\\ 145\\ 50\\ 4.02\\ 228\\ 228\\ 228\\ 228\\ 228\\ 228\\ 228\\ 2$	11 481 119 145 160 160 160 174 5 7 158 51 	566 566 519 121 148 160 229 167 98 1 1 111 111
September August	11,696 11,582	9, 355, 722 8, 805, 142	34, 560 34, 209	3, 514, 998 3, 268, 680	3, 140 2, 475			³ 13, 269, 859 12, 482, 226			789 787	176, 138 164, 101	53, 637 52, 497	46, 679 45, 936	14, 108, 584 13, 271, 576	10, 175, 591 10, 136, 135	9, 917 9, 919	9, 795 9, 792	17, 863 17, 865		2, 276 2, 281	2, 121 2, 078

¹ Incorporated banks other than mutual savings banks.
 ² Aug. 16 to Sept. 15.
 ³ Includes items drawn on banks in other Federal reserve districts forwarded direct to drawee banks
 ⁴ Journal (1,000) items, \$1,653,000; Minneapolis, 3,000 items, \$2,046,000; Omaha, 1,000 items, \$403,000.

NoTE .- Number of business days in period for Baltimore, Detroit, San Francisco, and Los Angeles was 24, and for other Federal reserve bank and branch cities, 25 days.

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GOLD AND SILVER IMPORTS AND EXPORTS..

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

		Go	ld.			Silv	ver.	
Countries.	Septe	mber.		ths ending mber.	Septe	mber.	Nine mon Septe	ths ending mber
	1921	1922	1921	1922	1921	1922	1921	1922
IMPORTS.								
Denmark. France. Germany. Netherlands. Norway. Spain	605, 036 16, 955, 333 3, 082, 467 481, 782 437, 103 605, 602 9, 797 163, 535 589, 034 158, 552 406, 255 90, 320 836, 482 3, 392, 564	$\begin{array}{c} \$469\\ 2,070,389\\ 2,766\\ 4,842,500\\ 542,120\\ 1113,608\\ 8,442,467\\ 231,941\\ 250,522\\ 674,190\\ 120,402\\ 9,946\\ 17,377\\ 651,371\\ 1911,181\\ 970,556\\ 227,447\\ 79,571\\ \end{array}$	$\begin{array}{c} s3, 236, 497\\ 1153, 310, 244\\ 16, 348, 745\\ 18, 501, 045\\ 1, 534, 985\\ 3, 243, 238\\ 54, 872, 011\\ 160, 063, 787\\ \hline \\ 31, 019, 001\\ 4, 773, 043\\ 4, 044, 241\\ 6, 163, 479\\ 928, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\ 228, 020\\$		\$53,278 843,241 1,669 41,730 196,738 56,784 2,666,584 2,666,584 2,666,584 3,113 114,021 14,230 373,759 373,759 373,759 373,7698 302 7,698	$\begin{array}{c} \$219\\ \$,\$70\\ 16,445\\ 307\\ 306\\ 42,688\\ 727,316\\ 90,977\\ 4,155,275\\ 32,624\\ 312\\ 75,318\\ 50,313\\ 890,898\\ 19\\ 4,940\\ 74,797\\ 1,675\\ 221\\ \end{array}$	$\begin{array}{c} \$370\\ 1.52,668\\ 5,036,023\\ 2,474\\ 4,111\\ 1.6,328\\ 5,280\\ 1,184,966\\ \hline \\ 2,976,667\\ 1,510,443\\ 26,643,560\\ 292,071\\ 1,592\\ 1,331,466\\ 1.30,805\\ 3,886,546\\ 3,077\\ 2,586\\ 7,775\\ 1.1,155\\ 383,019\\ 3,396\\ 16,670\\ 4,310\\ \end{array}$	$\begin{array}{c} \$987\\ 202, 605\\ 608, 034\\ \hline\\ 4, 644\\ 71, 819\\ 1, 790\\ 191, 898\\ \hline\\ 4, 411, 914\\ 1, 082, 148\\ 36, 862, 589\\ 403, 681\\ 6, 149\\ 1, 505, 840\\ 217, 532\\ 5, 849, 403, 681\\ 6, 149\\ 1, 505, 840\\ 217, 532\\ 2, 167\\ 2, 262\\ 6, 684\\ \hline\\ 470, 808\\ 75\\ 7, 656\\ 1, 154\\ \end{array}$
Egypt. All other	1, 736, 439 4, 189, 153	9,680,000	2,242,729 18,612,137	335,173 10,831,484	33, 218	194, 999	683, 492	58 1,071,867
Total	66, 085, 253	29, 315, 941	561, 177, 005	214, 407, 571	4, 488, 359	6, 370, 279	44, 304, 850	53, 163, 329
EXPORTS. Spain Sweden United Kingdom—England. Cantal America. Mexico. West Indies. Colombia: China British India. Dutch East Indies. French East Indies. Hongkong. Japan. All other.	277, 897 140, 999 55, 000	3, 264 686, 026 372, 025 449 100, 000 30, 000 190, 990 15, 853	200 2, 643, 013 1, 805, 345 5, 304, 749 250, 844 55, 000 60, 000 3, 402, 135 24, 600	78,000 3,264 1,549,596 12,127 3,344,794 5,749 100,000 4,395,339 435,010 2,282,570	2,073,618 266,983 1,043 235,987 10,000 1,052,461 1,025,464	600 175, 407 301, 764 109, 753 1, 646 10, 000 763, 590 651, 923 1, 719, 775 720	9, 619, 802 1, 806, 600 281, 343 1, 789, 674 419, 437 239, 500 6, 952, 768 2, 572, 057 528, 604 2, 655, 636	600 7,211,099 1,767,049 6,850 1,744,182 26,805 805,703 15,232,731 7,204,863 1,320,000 10,291,079 47,237 367,986
Total	2, 448, 741	1, 398, 607	13, 545, 886	13, 142, 643	4, 946, 751	3, 735, 178	34, 844, 321	46, 026, 184

DISCOUNT RATES OF FEDERAL RESERVE BANKS IN EFFECT NOVEMBER 1, 1922.

		Paper maturing	within 90 days.			
Federal reserve bank.	Secure	d by			Bankers' acceptances maturing	Agricultural and live-stock paper maturing
	Treasury notes and certificates of indebtedness.	Liberty bonds and Victory notes.	Trade acceptances.	Commercial, agricultural, and live-stock paper, n. e. s.	within 3 months.	after 90 days, but within 6 months.
Boston New York Philadelphia. Cleveland Richmond Atlanta.	4 4 <u>1</u> 4 <u>1</u> 4 <u>1</u> 4 <u>1</u>	4 4 4 ¹ 4 ¹ 4 ¹ 4 ¹ 4 ¹ 4 ¹ 4 ¹ 4	$\begin{array}{c} 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 2 \\ 4 \\ 2 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 4$	$\begin{array}{c} 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 $	4 4 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	4 4 4 4 2 4 2 4 2 4 2 4 3 2 4 3 2 4 3 2 4 3 2 4 3 2 4 3 2 4 5 4 5 4 5 6 7 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7
Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	4 1 41 41		431413 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41314 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 41414 414414			

GOLD SETTLEMENT FUND.

INTERBANK TRANSACTIONS FROM SEPTEMBER 22, 1922, TO OCTOBER 26, 1922 INCLUSIVE.

[In thousands of dollars.]

Federal reserve bank.	Tran	sfers.	Daily set	tlements.	of gold th	ownership rough trans- settlements.	Balance in fund at close of
	Debits.	Credits.	Debits.	Credits.	Decrease.	Increase.	period.
Boston Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis. Kansas City Dallas. San Francisco.	27,500 17,000 26,500 20,000 12,000 20,500 7,000 10,000	$\begin{array}{c} 6,000\\ 122,500\\ 6,500\\ 1,500\\ 1,500\\ 15,000\\ 13,000\\ 13,000\\ 7,500\\ 6,500\\ 500\\ 11,500\end{array}$	$\begin{array}{c} 698, 341\\ 2, 596, 471\\ 789, 746\\ 623, 862\\ 533, 036\\ 275, 469\\ 1, 269, 731\\ 594, 302\\ 167, 232\\ 430, 236\\ 305, 007\\ 310, 797\end{array}$	$\begin{array}{r} 669, 602 \\ 560, 704 \\ 286, 969 \\ 1, 233, 409 \\ 612, 713 \end{array}$	41, 822	20, 740 9, 168 4, 500 24, 411 14, 781 1, 036	$\begin{array}{c} 31, 513\\ 183, 111\\ 42, 849\\ 72, 203\\ 34, 729\\ 23, 100\\ 100, 824\\ 24, 420\\ 28, 725\\ 22, 996\\ 17, 981\\ 32, 452\end{array}$
Total 5 weeks ending Oct. 26, 1922. Sopt. 21, 1922. Oct. 27, 1921. Sept. 22, 1921.	197, 000 118, 500 429, 552 549, 586	197,000 118,500 429,552 549,586	8, 594, 230 7, 126, 677 6, 497, 759 5, 841, 285	8, 594, 230 7, 126, 677 6, 497, 759 5, 841, 285	84, 298	84, 298 	614, 912 528, 538 497, 573 415, 517

MONEY IN CIRCULATION OCTOBER 1, 1922.

[Source: United States Treasury Department circulation statement.]

	Stock of money	Money held by the U. S. Treas-		lation.
Kind of money.	in the United States.	ury and the F. R. System.		Per capita.
Gold coin and bullion Gold certificates Standard silver dollars Silver certificates Treasury notes of 1800 Subsidiary silver United Statos notes Federal reserve notes Federal reserve bank notes National bank notes	$\begin{array}{c} 2\ (686, 114, 659)\\ 402, 754, 404\\ 2\ (321, 903, 265)\\ 2\ (1, 501, 823)\\ 270, 772, 004\\ 346, 681, 016\\ 2, 668, 880, 610\\ 64, 219, 400\end{array}$	$\begin{array}{c} \$3, 461, 284, 263\\ 471, 157, 930\\ 342, 172, 915\\ 44, 125, 527\\ 1, 000\\ 34, 414, 974\\ 65, 187, 741\\ 419, 024, 673\\ 8, 692, 911\\ 30, 799, 862 \end{array}$	$\begin{array}{c} 214,956,729\\ 60,581,489\\ 277,777,788\\ 1,500,823\\ 236,357,030\\ 281,499,275\\ 2,249,855,937\\ 55,526,489\end{array}$	$\begin{array}{c} \$3.75\\1.95\\.55\\2.52\\.01\\2.15\\2.56\\20.42\\.50\\6.63\end{array}$
Total	8, 388, 237, 342	⁸ 4, 876, 861, 796	4, 520, 895, 293	41.04
Comparative totals: Sept. 1, 1922. Oct. 1, 1921. Apr. 1, 1917. July 1, 1914. Jan. 1, 1879.	5,312,109,272	³ 4, 918, 691, 521 ³ 4, 601, 232, 481 ³ 3, 896, 318, 653 ³ 1, 843, 452, 323 212, 420, 402	4, 393, 506, 927 4, 664, 697, 904 4, 100, 590, 704 3, 402, 013, 427 816, 266, 721	39. 93 42. 99 39. 54 34. 35 16. 92

¹ Does not include gold bullion or foreign coin outside of vaults of the Treasury, Federal reserve banks, and Federal reserve agents. ² These amounts are not included in the total, since the money held in trust against gold and silver certificates and Treasury notes of 1890 is included under the gold coin and bullion and standard silver dollars, respectively. ^{*} 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.

DISCOUNT AND INTEREST RATES.

In the following table are presented actual discount and interest rates prevailing during the 30-day period ending October 15, 1922, in the various cities in which the several Federal reserve banks and their branches are located. A complete description of the several types of paper for which quotations are given will be found in the September, 1918, and October, 1918, FEDERAL RESERVE BULLETIN. Comparison of discount and interest rates prevailing in various centers during the 30-day period ending September 15 and the 30-day period ending October 15 shows a slight upward tendency. 'The increase is most marked in rates for prime commercial paper in the open market and for bankers' acceptances. Compared with last year all rates are lower.

DISCOUNT AND INTEREST RATES PREVAILING IN VARIOUS CENTERS DURING 30-DAY PERIOD ENDING OCTOBER 15, 1922.

			Prime comn	nercial paper	• .			eceptances, 0 days.	Collateral	loans-stock	exchange.			Ordinary
District.	City.	Custo	mers'.			Jnterbank loans.		Unin-			3 to 6	Cattle loans.	Secured by warehouse receipts.	loans to customers secured by Liberty
		30 to 60 days.	4 to 6 months.	30 to 60 days.	4 to 6 months.		Indorsed.	dorsed.	Demand.	3 months.	months.		ļ	bonds.
No. 1 No. 2 No. 3 No. 4 No. 5 No. 6 No. 7 No. 8	Buffalo Philadelphia Cleveland Cincinnati. Richmond. Baltimore. Atlanta Birmingham Jacksonville. New Orleans Nashville Chicago Detroit. St. Louis. 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¹ Rates for demand paper secured by prime bankers' acceptances, high 5, low 3¹/₂, customary 4-5.

NOVEMBER, 1922.

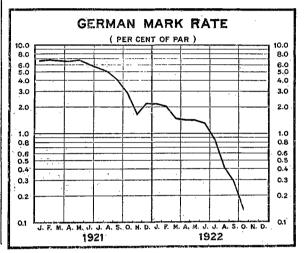
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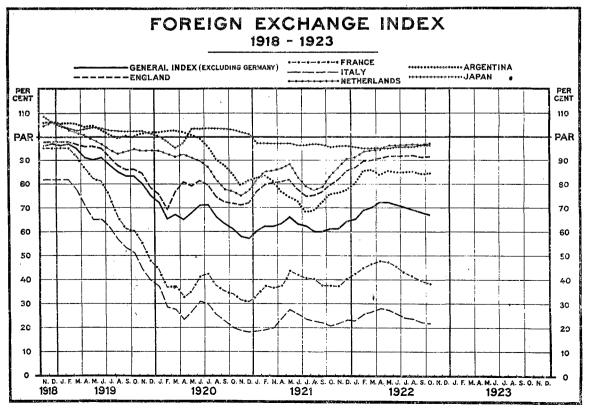
Sterling exchange advanced from \$4.3869 on October 2 to \$4.4748 on October 18. This advance was due in part to the improvement in the Near Eastern situation, and also to shipments of gold to the United States in connection with interest payments on the British war debt. By October 31, however, sterling had receded to \$4.4536. Improvement for the month is noted also in Dutch, Norwegian, Spanish, and Swedish exchanges. These advances are in sympathy with the rise in sterling, but probably reflect also a heavy demand for foreign currencies by holders of German marks. The flotation in the New York market of a loan of \$18,000,000 by Norway was also a factor in the situation.

The French and Belgian francs and the Italian lira, on the other hand, show decided declines, the rate of 6.89 cents on the French franc reported on October 26 being the lowest since January, 1921. These declines are ascribed to the continued difficulties in arriving at a solution of the reparations questions and to heavy buying of foreign currencies to pay for food and raw materials purchased in the United States and South America. Canadian exchange was consistently above par throughout the month and has resulted in gold shipments to Canada from the United States for the first time since the armistice. Argentine exchange shows some improvement, while Brazilian and Chilean exchanges show slight declines. A Of the

rates on countries in the Far East the rate on China was lower at the end of the month than at the beginning, while the rates on India and Japan advanced. As a consequence of these movements of individual rates the general foreign exchange index for October was 67, compared with 68 a month ago, and 61 in October, 1921.

The German mark has continued its downward course almost uninterruptedly since the beginning of September. At the end of October the mark rate was 2.17 cents per 100 marks, or about 0.14 per cent of its par value.





FOREIGN EXCHANGE RATES.

[General index for October, 1922, 67; for September, 1922, 68; for October, 1921, 61. Rates in cents per unit of foreign currency.]

COUNTRIES INCLUDED IN COMPUTATION OF INDEX.

		Par	Lo	.	Hi	gh.	Ave	rage.	Index () of p	per cent ar). ¹	Wei	ght. ²
	Monetary unit.	of ex- change.	October.	Septem- ber.	October.	Septem- ber.	October.	Septem- ber.	Octo- ber.	Sep- tember.	Octo- ber.	Sep- tember.
Belgium. Denmark. France. Great Britain Italy. Netherlands Norway. Spain Switzerland	Franc. Krone. Franc. Pound. Lira. Florin. Krone. Peseta. Krona. Franc.	19.30 26.80 19.30 486.65 19.30 40.20 26.80 19.30 26.80 19.30	6. 3900 19. 9200 6. 8900 438. 6900 3. 8900 38. 7000 17. 1600 15. 1300 26. 3900 18. 0300	$\begin{array}{c} 7.1000\\ 20.2700\\ 7.5400\\ 436.6000\\ 4.1700\\ 38.6300\\ 16.6100\\ 15.1000\\ 26.2400\\ 18.6000\end{array}$	7.1500 20.5900 7.6100 447.4800 4.3000 39.2000 18.2600 15.3900 26.7700 18.7300	$\begin{array}{c} 7,4400\\ 21,4700\\ 7,8700\\ 447,3400\\ 4,4100\\ 39,0100\\ 17,1300\\ 15,5200\\ 26,5800\\ 19,0200\\ \end{array}$	6. 8580 20, 1908 7. 3704 443. 8484 4. 1720 38. 9624 17. 8600 15. 2496 26. 6488 18. 4208	7.2332 21.0552 7.6592 443.0696 4.2676 38.7932 16.8272 15.2992 26.4568 18.7908	35. 53 75. 34 38. 19 91. 20 21. 62 96. 92 66. 64 79. 01 99. 44 95. 44	37.48 78.56 39.68 91.04 22.11 96.50 62.79 79.27 98.72 97.36	32 12 95 261 42 37 9 20 23 9	31 12 263 42 38 9 20 23 10
Canada	Dollar	100.00	100.0122	99.8184	100.1399	100.0069	100.0807	99. 9332	100.08	99. 93	187	184
Argentina Brazil Chile	Peso (gold) Milreis Peso (paper)	96.48 32.44 * 19.53	80. 3200 11. 0200 13. 2500	79. 6800 11. 4500 13. 3800	82. 2500 11. 5700 13. 8000	82. 7000 13. 6400 14. 0400	81. 4140 11. 3476 13. 6068	81.0832 12.5392 13.7276	84.38 34.98 69.67	84.04 38.65 70.29	31 31 13	30 30 13
China India Japan	Shanghai tael Rupee Yen	³ 66. 85 48. 66 49. 85	73. 0700 28. 4200 47. 9300	76. 4800 28. 3200 47. 7300	76. 7400 29. 1000 48. 2100	77. 7700 29. 0300 48. 4800	74. 8500 28. 8424 48. 0732	77. 0140 28. 7412 48. 0996	111.97 59.27 96.44	115.20 59.07 96.49	$52 \\ 29 \\ 117$	51 29 115

OTHER COUNTRIES.

		Par	Lo	w.	Hi	gh.	Ave	rage.		er cent of r). ¹
	Monetary unit.	of ex- change.	October.	Sep- tember.	October.	Sep- tember.	October.	Sep- tember.	October.	Sep- tembe r.
Austria Bulgaria Czechoslovakia	Krone Lev Krone	20. 26 19. 30	0.0014 .6314 3.0997	0.0013 .6133 3.0019	0.0014 .7000 3.5922	0.0015 .6558 3.5078	0.0014 .6481 3.2845	0.0014 .6380 3.2306	0. 01 3. 36	0. 01 3. 31
Finland Germany Greece	Markka Reichsmark Drachma	$19.30 \\ 23.82 \\ 19.30 \\ 20.00 \\ 19.30 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.00 \\ 20.0$	2.2119 .0216 2.0100	2. 1488 . 0594 2. 0400	2.4886 .0551 2.8800	2. 2063 . 0801 2. 8900	2. 3239 . 0332 2. 3896	2. 1741 . 0684 2. 4724	$12,04 \\ .14 \\ 12.38 \\ 22$. 29 12. 81
Hungary. Poland. Portugal. Rumania.	Krone Polish mark Escudo Leu		.0390 .0071 3.7200 .6106	.0390 .0112 3,7700 .6009	.0411 .0118 6.7000 .6531	.0515 .0146 5.4300 .7350	.0402 .0095 4.8760 .6261	.0423 .0127 4.8256 .6559	. 20 4. 51 3. 24	4.59
Yugoslavia	Krone Dinar Peso	19.30	.3400 1.3642	. 2628 1. 0586 99. 8188	. 4706 1. 8850 99. 9125	. 3728 1. 4757	. 4040 1. 6222 99. 8826	. 3211 1. 2926 99. 8700	8.41	6.70
Cuba Mexico Uruguay	do	49.85	99. 8125 48. 1719 76. 1400	48. 2125 76. 6200	48. 4125 77. 7600	99. 9375 48. 3875 79. 5300	48. 2917 77. 0756	48, 3006 78, 0132	99.88 96.87 74.53	96.89
China. Hongkong. Straits Scttlements.		³ 48. 11 ⁸ 47. 77	53. 4000 54. 0000 51. 0800	55, 6000 56, 9200 51, 2500	55, 6900 57, 1600 52, 0400	57. 2100 57. 9200 52. 0000	54. 5508 55. 9552 51. 7840	56. 1500 57. 3080 51. 6440	113. 39 117. 13 91. 20	116. 7 119. 97 90. 93

Average price of silver per fine ounce, in London (converted at average rate of exchange), \$0.68956; in New York, \$0.68405.

¹ Based on average.
 ² The weights used in calculating the general index for October are based on trade figures for the 12 months ended Aug. 31. The use of trade figures for a period ending 2 months, instead of 1 month, prior to the index month as before will enable the Federal Reserve Board to issue the index on the first or second day of each month without impairing the comparability of the figures.
 ³ 1913 average.

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FINANCIAL STATISTICS FOR PRINCIPAL FOREIGN COUNTRIES.

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

					[Am	ountsi	in millio	ons of p	ounds	sterlin	g.]							
	cou	sit an ints, B d and	ank of	Eng-		nment 1g deb	float- t.	Ŋir	ie Lond ban	on clea ks.ª	ring	g house	Kingdom.4	Disc	ount r	ates.	foreign	companies.
Year and month.	Rank notes. ¹	Currency notes and certifi- cates outstanding.	Deposits, public and other.	Coin and bullion. ³	Treasury bills.	Temporary advances.	Total floating debt.	Money at call and short notice.	Discounts and advances.	Investments.	Deposits.	London bankers' clearing returntotal clearings.	Capital issues of United K	Three months' Treasury bills.	Three months' bank bills.	Six months' trade bills.	Statist index number of exchange value of £	Net profits industrial con
Average of end of month figures: 1913.	29		57	38	15							1,370		Per cent.	Per cent.	Per cent.		Per cent. 11.7
1920 1921	103 108	348 327	$147 \\ 136$	146 157	1,078 1,139	219 182	1,297 1,322	97	1, 176	309	1,768	3,252 2,911	32 18	6 <u>1</u> 44	$\begin{array}{c} 4\frac{1}{3} \\ 6\frac{7}{16} \\ 5\frac{25}{33} \end{array}$	7 ₅₄ 63	99.59 110.07	15.2
1921, end of- September October November December	106 104 106 107	314 312 313 326	118 175 144 123	157 157 157 157	1, 159 1, 124 1, 108 1, 060	161 214 193 200	1,321 1,338 1,300 1,260	99 102 96 106	1,186 1,196 1,205 1,191	302 306 311 315	1,771 1,802 1,793 1,818	2, 641 2, 938 2, 921 3, 173	10 33 19 19	413353353	412000-1000 3300-1000	52 55 55	106.4 108.4 112.4 112.1	6.1
1922, end of January. February. March. April. May. June July. August. September October.	103 102 103 102 103 103 103 104 103 104 103	305 298 300 303 298 295 296 293 289 289 287	$135 \\ 138 \\ 151 \\ 134 \\ 130 \\ 131 \\ 122 \\ 124 \\ 121 \\ 125 \\$. 157 157 157 157 157 157 154 154 154	1,039 957 882 759 771 761 755 715 724 740	$116 \\ 112 \\ 147 \\ 193 \\ 172 \\ 205 \\ 159 \\ 153 \\ 148 \\ 179 \\$	1,154 1,069 1,030 951 943 965 914 868 872 919	114 111 103 107 109 113 110 105 104 105	1,192 1,152 1,097 1,065 1,061 1,070 1,056 1,020 1,007 1,033	333 357 369 378 392 388 386 390 381 370	1,826 1,802 1,747 1,737 1,745 1,755 1,730 1,688 1,660 1,686	3,399 3,088 3,452 3,305 3,307 2,917 3,236 2,885 2,690 3,124	42 26 25 17 36 22 19 1 5 25	318324 2281 2281 2281 2281 2281 2281 2281 22	345 33 325 33 223 23 10 32 23 10 32 23 23 23 23 23 23 23 23 23 23 23 23	544444433333333333	118.2 118.0 118.3 118.0 118.2 118.2 118.2 120.3 121.3 122.7	6.1 7.5 5.9

¹ Less notes in currency notes account.
⁴ Held by the Bank of England and by the Treasury as note reserve.
⁴ Average weekly figures.
⁴ Compilation of London Joint City and Midland Bank, British Government loans for national purposes excluded.
⁵ Statist figure revised to exclude Germany.
⁶ Compilation of London Economist. Ratio of net profits to ordinary and preferred capital of industrial companies, exclusive of railways.
⁶ mines, insurance companies, and banks. Applies to earnings disclosed during the quarter and has therefore a probable lag of six months.

				[Amo	unts in mil	lions of fra	ncs.]					
	 	Ba	nk of Fran	.ce.			Governme	nt finances	 .	Value of		
Year and month.	Gold reserves. ¹	Silver reserves.	De- posits. ²	Circula- tion,	ment for	Govern- ment revenue.2	dabt	External debt.3	9	new stock and bond issues placed upon the French market.	excess of de- posits(+) with- draw- als (-).	Average daily clearings of the Paris banks.
1913, average 1920, average 1921, average	3, 586	629 253 274	830 3,527 2,927	5, 565 38, 066 37, 404	1 26,000			· · · · · · · · · · · · · · · · · · · ·	86. 77 57. 34 56. 56	4,654 1,100	- 65 + 48 + 67	59 5 554 550
1921. September October November December		277 278 279 280	2, 509 2, 563 2, 563 2, 743	37, 129 37, 154 36, 336 36, 487	24, 900 25, 100 24, 500 24, 600	1,011 1,305 1,051 1,228	⁶ 242, 758	35, 286 34, 779	56. 20 54. 30 54. 90 54. 75	234 3, 355 434 853	+ 68 + 33 - 0.5 + 38	553 463 505 527
1922. January. March. April. May. Jime. July. August. September. October	3,578 3,579 3,579 3,580 3,582 3,583 3,583 3,584	280 281 282 283 284 285 285 285 285 286 287 288	2,392 2,429 2,236 2,412 2,303 2,448 2,432 2,170 2,199 2,170	36,603	23,000 22,500 21,500 22,100 23,100 23,300 23,000 23,900 21,000 23,600	1, 323 1,014 1,154 1,381 1,176 1,225 1,472 1,168 1,154	243, 857 248, 283		$\begin{array}{c} 56.55\\ 59.55\\ 56.70\\ 57.60\\ 57.95\\ 58.25\\ 60.10\\ 61.10\\ 58.25 \end{array}$	759 5,062 377 459 644 947 485 151	+ 41 +100 + 49 + 58 + 55 + 53 + 62 + 66 + 58	489 489 455 411 454 474 562 512

FRANCE.

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Not including gold reserve held abroad.
 From indirect taxation and Government monopolies.
 Foreign debt converted to france at par.

Figure for the last Wednesday in the month.
Average for 11 months.
Estimate in the French Senate.

ITALY.

[Amounts in millions of lire.]

	Leadin	g private	banks.1			Bank	s of issue	э.			Gover	nment f	inances.		
Year and month.	Cash.	Loans, dis- counts, and due from corre- spond- ents.	Depos- its and due to corre- spond- ents.	Loans and dis- counts.	Gold re- serve.	Total re- serve.	Depos- its and 'de- mand liabili- ties.	Com- mer- cial circu- lation.	Circula- tion for account of the state.	State cur- rency notes.	Treas- ury metal- lic re- serve.	Short- term treas- ury bills.	Total public debt. ²	Princi- pal reve- nues during month. ³	Index num- bers of securi- ties prices.4
December . 1922, end of— January	1,308 1,200 1,052 1,364 6 1,174 6 1,997 6 1,426	6 11, 334	^a 12,778 ^a 12,502 ³ 11,616	857 7,074 7,509 7,327 7,816 7,810 10,020 10,156	1,073 1,086 1,089 1,092 1,109	1,661 2,077 2,020 1,966 1,990 1,948 1,999 1,999	318 2, 563 2, 352 2, 124 2, 243 2, 151 2, 913 2, 848 2, 848	2,284 8,988 9,304 9,785 9,746 9,435 10,304 10,183	10, 743 9, 064 8, 395 8, 554 8, 485 8, 505 8, 505 8, 570	499 2,268 2,267 2,267 2,267 2,267 2,267 2,267 2,267	117 161 170 159 159 159 170 170		110,754 111,900	1,404 648 1,458 909	87.12 87.04 91.07 83.99 80.13 96.61
February March April May June July August September.	8 965 3 908 8 841 3 845	6 11,407 6 11,752	^{311,403} ^{311,708} ^{311,698} ^{311,863} ^{311,863}	10,029 9,833 10,113 9,323 9,505 9,051 9,086 8,804	1,100 1,118 1,122 1,104 1,106 1,125 1,125 1,125 1,125	1,971 1,956 1,964 1,963 1,976 1,991 2,024 2,024	2,562 2,687 2,473 2,572 2,740 2,524 2,605 2,499	9,031 9,589 9,360 9,259 9,615 9,947 9,695 9,924	8,626 8,523 8,350 8,061 8,049 8,050 8,050 8,050 8,066	2,267 2,267 2,267 2,267 2,267 2,267 2,267 2,267	170 170 170 169 169 170 170 170	23,862	113,204	1,366 759 1,337 667 1,454 783 1,306 682	94.10 88.82 88.43 93.13 94.83 95.19 103.01 105.68

¹ Banca Commerciale Italiania, Banca Italiana di Sconto, Credito Italiano, Banco di Roma.
² Includes paper circulation of the State and of banks on account of the State.
³ Revenues from state railways; from post, telegraph, and telephones; from state domain; from import duties on grain; and from Government sales of sugar are not included.
⁴ Figures for 1921 are based on quotations of Dec. 31, 1920=100. Those for 1922 are based on quotations of Dec., 1921=100.
⁴ Revised.
⁶ Excluding Banca Italiana di Sconto.

GERMANY.

[Amounts in millions of marks.]

			Reichsbar	ık statistic	s.		Darlehns-		rnment fin		Value of new stock	ties p	f securi- rices. ^s
1913, average 1920, average	Gold re- serve.1	Dis- counted treasury bills.	Com- mercial paper. dis- counted.	Note circu- lation. ¹	Deposits. ¹	Clearings.	kassen- scheine in circu- lation. ¹	Receipts from taxes.	of state	Treasurv	and bond issues placed on German market.		15 bonds.
		47, 83,	980 133	1,958 53,964 80,952	668 17,702 20,213	6, 136 57, 898 89, 297	13, 145 8, 861	207 6,285	13 2,358	³ 220 192, 832	2,655		
1921. September October November December	1,024 994 994 995	98, 422 98, 705 114, 023 132, 331	1, 142 881 1, 446 1, 062	86, 384 91, 528 100, 944 113, 639	19, 980 18, 303 25, 313 32, 906	119, 496 140, 493	7, 610 7, 316 7, 330 8, 325	6,185 7,044	2, 599 2, 825 3, 397 4, 329	210, 504 218, 000 226, 476 246, 921	2,889 7,135	4 269 5 206	4 181 5 147
1922. January February March A pril May June June July September October	997 1,001	126, 160 134, 252 146, 531 155, 618 167, 794 186, 126 209, 7858 249, 770 349, 770 477, 201	1,592 1,887 2,152 2,403 3,377 4,752 8,122 21,704 21,704 50,234 101,155	115, 376 120, 026 130, 671 140, 420 151, 949 169, 212 189, 795 238, 145 316, 870 459, 457	23, 412 26, 526 33, 358 31, 616 33, 129 37, 174 39, 976 56, 124 110, 012 104, 779	109,816 170,357 175,977 179,370	10,374 12,234 13,383	8,802 9,614 14,065 13,193 17,619 17,776 21,547 31,466 31,692	4,415 4,659 7,096 8,997 10,984 12,781 15,396 18,053 25,332	255,678 262,817 271,935 280,935 289,246 311,600 331,000 451,000		223 222 274 265 242 224 282 282 282 299 445 653	152 154 169 268 297 298 430 662 1.933 2,662

End of month.
Calculated by the Frankfurter Zeitung with prices of 25 stocks, 10 domestic and 5 foreign bonds (prices as of Jan. 1, 1921-100). These figures, recently revised, now include subscription privileges which were heretofore omitted. Figures are as of beginning of month.
End of March, 1913.
4 As of Nov. 10, 1921.
As of Dec. 30, 1921.

NORWAY.

[Amounts in millions of kroner.]

		ř	\orge s Bank		ļ	Private co	mmercial ba	anks (103).	
Year and month.	Gold holdings.	Note circulation.	Deposits.	Loans and discounts.	Clearings at Christiania.	Loans and discounts.	Deposits.	Total aggregate resources.	Bankrupt- cies.
1014 and of July	184	123	14	88					Number.
1914, end of July 1920, average	147	451	102	419	652	3.921	3,382		32
1921, average	147	417	111		537	3,840	3,338	5,164	86
1001 and of-				. –	1	; 0,01-	0,000	•,	
September	147	416	85	42 6	637	3,844	3,319	5,224	100
October	147	411	113	453	589	3,742	3,275	5,196	79
November	147 147	395	121	439	538	3,677	3,231	5,113	88 84
December	147	410	141	476	551	3,508	3,305	4,944	84
1922, end of— January	147	378	131	433	524	3, 413	3,202	4,805	89
February	147	376	141	428	494	3,346		4,755	78
March	147	385	151	449	628	3,280	3,124	4,690	107
April	147	386	143	447	516	3,302	3,118	4,755	78
May	147	375	152	446	525	3, 307	3,086	4,783	129
June	147	385	133	441	532	3,354	3,080	4,804	94
July	147	382	137	445	466	3,364	3,083	4,810	129 94 68 79
August	147	385	133	445	468	3,295	3,036	4,781	79
September	147	384	135	444	447	3,260	3,004	4,737	59

¹ Includes balances abroad.

SWEDEN.

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[Amounts in millions of kronor.]

		Riks	bank.		Govern finan			-stock nks.	bi	ested lls month.1	Busi-	Foreign ex- change index,	Index num-	Value of stock
Vear and month.	Gold coin and bul- lion.	Note circu- lation.	De- posits.	Clear- ings.	Funded State debt.	Float- ing State debt.	Bills dis- counted with Riks- bank.	Loans and dis- counts.	Num- ber.	Value.	ness fail- ures during month. ¹	value of krona abroad (foreign cur- rencies = 109). ¹	stock 1 prices- d A list. ¹	issues regis- tered during the month.
1913, end of December 1920, average 1921, average 1921, end of	102 269 280	235 733 661	108 226 193	585 3, 596 2, 715	628 1, 281	20 248	139 476 389	2, 287 6, 008 5, 948	4, 314 3, 586 6, 907	2 6 15	309 196 432	112.9 121.8	258 176 121	24 61 31
September October November 1922. end of-	276 276 275 275	672 650 628 628	113 126 188 331	2,609 2,310 2,364 3,305	1, 368 1, 393 1, 409 1, 433	60 63 77 78	330 341 354 464	5, 901 5, 837 5, 735 5, 656	5,786 6,449 6,089 6,298	10 13 13 10	493 505 491 528	121. 4 124. 9 124. 0 126. 3	114 107 104 107	13 17 19 21
January February March. April Møy. June. July August.	275 274 274 274 274 274 274 274	563 579 626 582 567 585 551	337 346 312 301 293 247 243	2, 332 2, 122 2, 354 1, 936	1,434 1,435 1,435 1,434	84 87 90 92	421 429 447 404 380 320 307	5,654 5,572 5,474 5,430 5,378 5,388 5,268	6,345 6,272 7,559 6,965 7,581 6,599 - 6,417	9 10 13 12 10 10 12	509 398 513 400 430 862 374	$126.6 \\ 129.2 \\ 128.3 \\ 126.6 \\ 124.8 \\ 125.6 \\ 127.0 \\$	109 94 89 100 115 113 113	18 18 23 15 50 63 35 22
August September	274 274	559 605	213				293 288	5, 221 5, 181	5,461	6	300 371	128.8 130.5	110 103	22

¹Source: Kommersielia Meddelanden.

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Year and month.	Bank of Japan.							Tokyo banks.					Government finances.		
	Note circu- lation.	Specie reserve for notes. ²	Loans and dis- counts.	Ad- vances on foreign bills.	Gov- ern- ment depos- its in Japan.	Pri- vate depos- its in Japan.	Cash on hand.	Total loans.	Total depos- its.	Total clear- ings.	Aver- age dis- count rate.	Inter- nal loans.	Exter- nal loans.	Capital pro- jected	Index of securi- ties prices. ³
1913, average 1921, average	363 1, 226	216 1,200	47 107	33 39	(4) 297	 50		333 1,932	 	364 2,572	8.38 9.00	1,075 1,956	1,484 1,044	32 186	194
1921. End of	$1,232 \\ 1,255 \\ 1,283 \\ 1,246$	1,2321,2551,2641,246	101 157 197 298	32 30 30 26	293 309 325 203	30 34 37 35	 	1,955 1,993 1,989 2,000	•	2, 627 2, 679 2, 783 3, 340	8. 28 8. 50 8. 79 9. 20	2,026 2,088 2,118 2,149	$1, 362 \\ 1, 362 \\ 1, 362 \\ 1, 362 \\ 1, 362$	191 198 146 222	202 198 190 191
1922. End of— January February March April May July July August September October	1,377 1,246 1,289 1,226 1,203 1,344 1,224 1,224 1,280 1,237 1,236	1,241 1,223 1,289 1,263 1,203 1,223 1,220 1,132 •1,069 1,068	224 172 248 267 178 179 133 241 134 160	56 26 58 61 50 98 82 90 115 142	277 328 422 520 469 377 427 488 382 382 437	35 27 29 30 33 43 35 30 29 33	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,984 1,950 1,963 1,980 1,973 1,998 1,970 1,928 1,921 1,926	1,743 1,751 1,749 1,761 1,748 1,798 1,802 1,783 1,822 1,812	2,246 2,438 3,099 2,809 3,143 3,178 2,766 2,750 2,697	9.02 9.02 9.09 9.34 9.42 9.45 9.38 9.42 9.38	2, 162 2, 185 2, 235 2, 264 2, 241	1,362 1,359 1,359 1,359 1,359 1,359	163	196 188 182 160 168 170 165

JAPAN.¹ [Amounts in millions of yen.]

¹ Figures apply to last day of month in case of Bank of Japan to last Saturday of the month for other items.
 ² This includes the specie segregated against notes only. It includes gold credits abroad as well as bullion and coin at home.
 ³ Tokyo market.
 ⁴ Uning January, February, April, October, November, and December, 1913, Government deposits averaged 4,198,000 yen. During the rest of the year there was an average monthly overdraft of 8,942,000 yen.

ARGENTINA.

[Amounts in millions of pesos.]

		Ban	Banco de la Nación.					Caja de Conversión.			Liabili-		
Year and month.		Dis- counts and ad- vances (paper).		sh. Paper.	De- posits (paper).	Dis- counts and ad- vances (paper).	Ca: Gold.	sh. Pa- per.	Clear- ings in Buenos Aires (paper).	Note circu- lation (paper).	Gold re- serve.	in in	tics of bank- rupt- cics during month (paper).
End of 1913 1919 1920 1921	1,464 3,010 3,530 3,375	$1,541 \\ 2,113 \\ 2,505 \\ 2,543$	$ \begin{array}{r} 62 \\ 66 \\ 46 \\ 36 \end{array} $	$\begin{array}{c} 435\\771\\1,081\\1,087\end{array}$	541 1,250 1,412 1,310	478 676 804 866	32 39 25 23	$180 \\ 268 \\ 406 \\ 410$	$1,471 \\ 2,805 \\ 3,612 \\ 3,045$	823 1, 177 1, 363 1, 363	263 320 476 476	79 4 4	$\begin{array}{c}14\\3\\5\\12\end{array}$
1921. End of	3, 444 3, 447 3, 391 3, 359 3, 375	2,5192,4922,4672,5012,543	38 36 36 36 36 36	$ \begin{array}{c} 1,093\\ 1,152\\ 1,172\\ 1,172\\ 1,150\\ 1,087\\ \end{array} $	1,3491,3501,3111,2931,310	828 816 803 840 866	24 23 23 23 23 23	403 431 448 463 463 410	3,093 3,076 2,909 2,133 3,482	$1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1, 363 \\ 1$	466 466 466 466 466 466	4 4 4 4	12 8 16 13 13
1922. End of— January. February. March. April. May. June. July. August. September.	3,304	$\begin{array}{c} 2,529\\ 2,565\\ 2,512\\ 2,489\\ 2,461\\ 2,461\\ 2,461\\ 2,473\\ 2,491\\ 2,514\end{array}$	36 36 36 35 35 35 35 35 35	1,064 994 981 999 1,016 1,060 1,013 1,041 1,048	$ \begin{array}{c c} 1,310\\ 1,310\\ 1,272\\ 1,283\\ 1,294\\ 1,329\\ 1,322\\ 1,353\\ 1,346\\ \end{array} $	887 913 884 887 906 933 920 946 950	23 23 23 23 23 23 23 23 23 23 23 23	419 383 383 393 386 395 399 407 402	3,014 2,593 3,298 3,016 2,716	$\begin{array}{c} 1,363\\ 1,363\\ 1,363\\ 1,363\\ 1,363\\ 1,363\\ 1,363\\ 1,363\\ 1,363\\ 1,363\\ 1,363\\ 1,363\end{array}$	$\begin{array}{c} 466\\ 466\\ 466\\ 466\\ 466\\ 466\\ 466\\ 466$	444444444444444444444444444444444444444	10 8 16 17 13 8 7 .7

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