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FEDERAL RESERVE BOARD

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annum.

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

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No. 5

REVIEW OF THE MONTH.

During the recent period of economic readjustment the important relationships existing between public finance and banking have been apparent, as well as be-

tween business and banking. The former phase of the subject has now become of distinctly less significance than for some time past. Business readjustment, on the other hand, has continued to absorb a greater proportion of public attention. It had been supposed that before this time very decided progress toward the completion of such readjustment would have been attained. The facts which have come to light during the past month or more have, however, made it apparent that the process will be slower than had been expected. The attention of the public and of the banking community particularly has therefore been closely concentrated upon the elements or factors which are of chief importance in the situation with a view to determining which of them are distinctly responsible for the slowing down of progress toward normal conditions. A review of the existing situation shows that the outstanding features of the present problem include wages, prices, transportation rates, and costs of raw materials, as well as the relationship of banking and credit to each of these fields of economic organization. Business conditions during the month of April reflect the varying changes in these different elements, and suggest that the significant feature in the present outlook is the unevenness with which relationships between the chief factors have been adapted to one another. Recovery in business, when viewed at any particular moment, is in fact distinctly irregular and uneven.

This state of things is of fundamental importance to banking and credit

Relation to prospects because of the fact credit prospects. that complete restoration of soundness of banking institu-

tions can occur only in proportion as a wellrounded and well-planned system of credit is again brought into existence. Failure to restore such a condition in credit necessarily implies the existence of discrepancies in business progress as between different centers, while it also involves the continued existence of "frozen" credit in those lines in which readjustment has been slow and halting or in which the absence of demand from other quarters, due to incomplete readjustment and reorganization, has sufficed to hold back complete adaptation to new conditions. While it has been customary in many quarters to regard the slowness of economic readjustment as in large measure due to the curtailment of export demand, the fact remains that a situation very closely parallel to our own exists in numerous foreign countries. In fact, the conditions in some of these countries are more pronounced and more seriously retarded than they are in the United States. While due weight must, of course, be given to the destruction of wealth resulting from the war, the continued and burdensome tax systems which prevail in almost all countries, and to the general disorganization and uncertainty resulting in part from disturbed currency and exchange conditions, it remains true that these factors taken by themselves do not fully explain the state of things in any one country. If all have been similarly affected, it is evidently unsatisfactory to attribute the condition of any one of them to reduction of export demand. The retardation of the readjustment process and the fact that it has

proceeded more rapidly in some fields than in others evidently calls for additional analysis and explanation. The importance of such considerations from the credit standpoint has already been made evident. It would seem to be true that in nearly all countries failure to bring about a steady and moderate return to normal conditions has been in part due to the fact that the receding power both of capital and labor, and, in fact, of all elements of cost, has been different in different industries and to some extent in different portions of the same industry, or in different parts of the country. Irregularity and uncertainty in the process of readjustment inflicts serious hardship upon those who find their output falling in price while their expenses are but little, or not at all, changed. Particularly is the hardship of falling return and fixed cost felt by the wage earner who is either partly or wholly unemployed or who finds his income reduced at the same time that he is able to lower but little his actual cost of living.

From some standpoints the fundamental factor, perhaps the foremost Uneven price cause of this unevenness in reductions. readjustment, is seen in the irregular movement of prices of commodities that normally move in concert. Such lack of adjustment is seen at practically every stage of the productive process, in that a fall in the price of raw materials is not adequately reflected in the price of the manufactured article, nor do reductions in retail prices correspond with those in wholesale. When the decline of wholesale prices began, several factors operated to retard the parallel reduction of charges made by retailers. One of these was the indisposition on the part of retailers to sell below their original cost, an attitude in which they were supported by many wholesalers and manufacturers who recognized that the collection of the amounts owing to them would depend upon recovery by the retailer from the public of at least a substantial percentage of the original cost to him of his goods. Another element in the situation was undoubtedly the influence of not be expected to be closely acquainted with

associations of middlemen and of retailers who by agreement among themselves succeeded in sustaining prices, not perhaps at their original level but at a level considerably above that which was warranted by changes in wholesale prices. A third element of considerable importance is seen in the fact that certain elements of cost, such as wages, had become thoroughly stereotyped as the result of law or agreement or by decisions of semigovernmental bodies. Perhaps the best example of conditions of this kind is offered by the situation on our railways and by conditions in some basic lines of industry where positive contracts or agreements extending over a series of years had been entered into, as, for example, coal mining. The effect of the various retarding factors, at any rate, has been that of preventing at all times a close correspondence between changes in wholesale and changes in retail prices. The progress of the situation may be best illustrated by comparative index numbers reflecting wholesale and retail prices during the past year or more.

These in lex numbers differ materially among themselves. Wholesale price Showing of in- indexes are far more sensitive dex numbers. and respond far more quickly to changes in costs or conditions of production than do retail price indexes. The field covered by wholesale price indexes has also been much more carefully studied than has that of retail prices. Retail prices vary considerably as between different localities and respond to differences in buying power among consumers, differences in cost of distribution, and other elements. Satisfactory retail price indexes are in fact not available. The Bureau of Labor Statistics publishes such an index including only the prices of foodstuffs, but no index numbers are available to show the movement of prices of clothing and other important elements in the retail price field. things stand, the purchaser of commodities at retail is in a peculiarly difficult situation, because of his lack of a standard by which to judge the fairness of the price which he is expected to pay for the necessaries of life. He can

changes in wholesale prices from day to day, nor can he in any adequate way allow for the various factors which prevent such changes from being immediately reflected in the charges which are made to him by dealers in consumable commodities. The following table, however, exhibits the movement of prices as shown by the wholesale price indexes of the Federal Reserve Board and the Bureau of Labor Statistics and compares with them the index of the retail prices of foods as published by the Bureau of Labor Statistics.

Prices in the United States.
[Average price for 1913=100.]

	Wholesale price index, Federai Reserve Board.	Wholesale price index, Bureau of Labor Statistics.	Retail prices of food, Bureau of Labor Statistics.
1920.			
January	242	248	201
February	242	249	200
March	248	253	200
April	263	265	211
May	264	272	215
June	258	269	219
July	250	262	219
August	234	250	207
September	226	242	203
October	208	225	198
November	190	207	193
December	173	189	178
Average price for the year	233	243	203
_ 1921.			
January		178	172
February	154	. 167	158
March	150	162	156
	1	J	

Special interest attaches to the irregularity and unevenness with which changes in prices have progressed in varying groups of commodities since the peak of the price movement was reached. The figures regularly published by the Federal Reserve Board for this class of goods exhibit this situation clearly in contrast with the figures for the price level of 1913 taken as a base. Such a comparative showing is furnished in the following brief tabulation:

Index numbers of wholesale prices in the United States for principal classes of commodities—Bureau of Labor Statistics—regrouped by Federal Reserve Board.

[A verage price for 1913=100.]

	Raw materials.					
Year and month.	Farm prod- ucts.	Animal products.	Forest products.	Mineral prod- ucts.	Total raw ma- terials.	
January, 1921 February, 1921 March, 1921	155 145 136	119 114 116	245 227 213	220 207 197	175 165 158	

The effect of this price irregularity has been to inflict serious hardship upon Effect of price some classes in the community. irregularity. Such hardship is especially felt by the farming class, since the decline in prices of agricultural products has proceeded much more rapidly than the fall in prices of those articles which the farmer needs in the course of his operations. Whereas certain grains and cotton have gone back to prewar figures, the prices of fertilizer, agricultural machinery, wire, tools, and others have undergone no such reduction, or in other cases have been maintained at or near their high levels of cost. This situation has necessarily tended to bring about an artificial distribution of the load of readjustment among different classes of the community. Those classes which are not organized for the purpose of keeping up charges to the other members of the community and which, therefore, are obliged to absorb their losses must carry the largest proportion of the load. In thus specializing and localizing the effects of readjustment a number of factors have cooperated. Among them are the wage agreements to which reference has already been made and which have resulted in putting some classes of workers upon an entirely different basis than others; also associations of business men whose object is that of maintaining prices by tacit agreement or perhaps of raising them. Finally may be cited the cases where certain classes of payments are practically fixed in amount, as, for example, railroad rates. Suffering resulting from this unevenness in the movement of prices both in different parts of the country, as between different products, and in the retail as compared with the wholesale field, has been the moving factor in the demand which has made itself felt in various quarters for more extensive credit for the purpose of carrying commodities pending the establishment of the market upon a firmer basis. It has also been responsible for much of the complaint about excessive railroad rates and for a large part of the demand for the immediate enactment of tariff duties designed to protect specified industries against the undue competition of foreign products in those lines in which prices have most sharply fallen. So important is the

influence of this price irregularity as to demand

careful discrimination and analysis of the factors which have tended to promote it.

During the past month the Federal Reserve Board has instituted a survey The wage sitof the labor field for the puruation. pose of ascertaining to what extent the readjustment process has affected wages. The results of this inquiry are reviewed elsewhere in this issue, but it may be stated here that a general survey of plants which a year ago employed over 1,700,000 workers shows a general decline in the numbers employed of 25 per cent; the reduction in the amount of the weekly pay roll has, however, been even greater, i. e., 29.8 per cent, indicating that wage rates have on the average been somewhat cut. It should be said, however, that as many of these plants were working a greater number of hours per week, often overtime, a year ago, some part of the pay-roll reduction is undoubtedly to be attributed to this fact and may have taken place without reductions in wage rates. But supplementary information indicates that the actual rates paid have been reduced, this being especially true in the case of unskilled labor and to a certain extent in the case of unorganized skilled labor. In some instances, especially in the southeastern portion of the United States, ordinary unskilled labor has sustained reductions of fully 50 per cent. The great group of textile workers has been affected also by wage reductions, as have iron and steel workers in the independent mills.

According to information published by the Bureau of Labor Statistics, the increase in weekly full-time rates of wages of workers in certain well-organized groups, such as the building, printing, trucking, and metal trades, was 89 per cent between 1913 and May, 1920. Such statistics of course do not take account either of increases in earnings due to overtime or reductions in earnings due to unemployment However it seems likely that during the past year, i. e., since May, 1920, weekly rates of wages of these particular classes of workers have not been materially changed. although earnings have been very generally reduced as a result of lack of employment. Railroad workers and coal miners and other

highly organized groups in standard basic industries, however, have not as yet experienced the general reductions that have occurred in other lines. A wage cut announced by the United States Steel Corporation on May 4, represents a step toward adjustment.

This condition of things naturally suggests a close connection between high Effect of high wages and high prices in not a charges. few classes of business, while it also throws a bright light upon the effect of such high wages and high prices as one element in retarding completion of the process of adapting the relationship between the industries in which they exist and the rank and file of other industries. Such retardation takes place through the lessening of demand in other industries for the products or services turned out by the high-price industries, or may result from the fact that in those cases where the products of high-price industries are ranked as "necessities" they exact from the other industries which consume their output an undue share of the product of the latter. The President in his opening message to Congress on April 12 referred to this situation as reported to him by the Federal Trade Commission, and said:

"One condition in the business world may well receive your inquiry. Deflation has been in progress but has failed to reach the mark where it can be proclaimed to the great mass of consumers. Reduced cost of basic production has been recorded, but high cost of living has not yielded in like proportion. For example, the prices on grains and live stock have been deflated, but the cost of bread and meats is not adequately reflected therein. It is to be expected that nonperishable staples will be slow in yielding to lowered prices, but the maintained retail costs in perishable foods can not be justified.

"I have asked the Federal Trade Commission for a report of its observations, and it attributes, in the main, the failure to adjust consumers' costs to basic production costs to the exchange of information by 'open-price associations,' which operate, evidently, within the law, to the very great advantage of their members and equal disadvantage to the consuming public. Without the spirit of hostility or haste in accusation of profiteering, some suitable inquiry by Congress might speed the price readjustment to normal relationship.

with helpfulness to both producer and consumer. A measuring rod of fair prices will satisfy the country and give us a business revival to end all depression and unemployment."

The report from which the President quoted in this message, after reviewing the situation and discussing conditions in the price field, stated the following view with respect to the question of readjustment as such:

"It should be said in conclusion that following the disordered condition of the world's affairs, a shrinkage in values is inevitable and that normal conditions will be the more quickly restored if the producer, the laborer, the manufacturer, the jobber, and the retailer will each share at once in the unavoidable loss, and further that any effort by any element to place its share of the common loss on the shoulders of others, and particularly of the consumer, can but result in a continuation of the conditions under which the country is now suffering."

A phase of the readjustment situation which will necessarily receive very The railroad careful attention as an element rate problem.

in the restoration of business to a satisfactory condition is the problem presented by railroad rates. The advance of prices and costs during the war necessitated an increase of rates during the period when the roads were under Government control, which amounted to between 25 and 40 per cent of their previous level. This amount did not prove sufficient to furnish the roads with a revenue adequate to their expenses. Railroad wages were several times advanced during the war, the aggregate increase amounting to 150 per cent of prewar wages. The increase in wages and in the number of men employed is estimated to have added probably about \$2,400,000,000 to the gross wage bill of the roads as compared with the amount disbursed on that account in 1914. The fact that rates, even with the heavy traffic which developed during the war, were not sufficient to meet expenses is shown by the necessity the Government was under of appropriating from March 21, 1918, when the "revolving fund" was created, down to and through the Transportation Act, about \$2,682,000,000 for the purpose of making up to the roads the amounts

operating expenses and provide for capital expenditures. Provision was thus made to pay their security holders the same dividends and interest which had been disbursed to the latter during the period before the war and for continuing guaranties for a six months' period after the close of Government operation. When the reaction in business set in there was a large curtailment of the volume of traffic, with the result that although railroads were able to reduce their wage bills by reducing their staffs of employees the loss of operating revenue went so far as to wipe out in many cases their net earnings and in many cases a deficit resulted. Rates had again been raised to the extent of 25-40 per cent of their then existing level by the action of the Interstate Commerce Commission in August. 1920, but these advances, like those which were made under Government control during the war, were not adjusted to the necessities of the different kinds of traffic, with the result that some classes of rates were raised to a point that was unproductive of additional revenue. Since that time considerable reductions have been made in selling prices, while freight rates have remained the same. The most general way of measuring changes in freight rates is by calculating the revenue per ton per mile. Such calculations show that before the increase in rates which occurred last summer prewar rates had been advanced by approximately 35 per cent. Since then there has been on the average for the country as a whole the further increase of 25 to 40 per cent. While in the eastern district rates have been increased by 40 per cent, in the southern and western districts the increases have been less. On the average, present freight rates are approximately 72 per cent above prewar. The view is frequently expressed that a readjustment of rates will probably result beneficially both to the roads and to shippers. As things stand, the effect of the present level of rates is undoubtedly that of tending to interfere with the normal movement of products and the well-developed relationship of markets and industries. The Secretary of Commerce in some recent remarks spoke of present rates on agricultural products as being so high that their continued maintewhich were necessary to enable them to meet nance would necessitate a rewriting of the

commercial geography of the country, meaning thereby that with rates at their present level or basis of adjustment various classes of producers were unable to put their products successfully into competitive markets. In this state of affairs it would seem that the result of existing conditions in the railroad rate structure is twofold, (1) railroad charges and costs are at present retained upon a basis which has undergone no readjustment such as has occurred in other branches of industry, so that they exact too large a proportion of the selling price of commodities, while (2) the lack of satisfactory adaptation of the rates to the various types of freight has resulted in preventing the movement of some classes of commodities to competitive markets. Moreover, increased expenses of delivery render it difficult or impossible for consumers to purchase freely so long as they are not able to get higher prices for their own products than are now prevalent.

The condition of business is illustrated by Domesticbusi- the index numbers of producness indexes. tion and trade regularly computed by the Board, notwithstanding that they
are, as heretofore remarked, necessarily about
30 days behind the date of publication. The
latest figures for these indexes are, however,
presented herewith:

[000 omitted.]

	February, 1921.		March, 1921.		March, 1920.	
	Total.	Rela-	Total.	Rela- tive.	Total.	Rela- tive.
Receipts of live stock at 15 western markets (head)	4, 738	94.7	4, 700	93.9	5,004	100
Receipts of grain at 17 interior centers (bushels)	66, 515	97.9	78,899	116.1	67,920	100
Sight receipts of cotton (bales)		93.5	554	69.5	797	100
Shipments of lumber re-						
ported by three associa- tions (million feet)	538	59.1	664	72.9	910	100
Bituminous coal production	000	05.1	004	12.0	310	100
(short tons)	30, 851	65.9	30, 328	64.8	46,832	100
Anthracite coal production	7 045	00.0	7 000	00.0	- 0	100
(short tons) Crude petroleum production	7,845	99.8	7,603	96.8	7,857	100
(barrels)	35, 348	98.6	40,802	113.8	35, 831	100
Pig-iron production (long	,		1.7,002	1	00,000	
tons)	1,937	57.4	1,596	47.3	3,376	100
Steel-ingot production (long	1 740	500		47.0	0 000	100
tons)	1,749 396	53.0 68.7	1,571 438	47.6 76.0	3,299 576	100 100

As shown by an analysis of these figures, but little reduction in volume or activity is revealed in some classes of business, while in others the reaction has been very pronounced. In of the allied countries also have tended to or even have stopped, the production of tial commodities such as coal and have the others the reaction has been very pronounced.

The business situation thus parallels quite closely the status of things in regard to wages as already illustrated by the Board's wage investigation. In some branches of industry and business the volume of production remains nearly normal and the flow of commodities from producer to consumer at least reasonably so, while in others the reduction has been marked and decisive, just as in some branches of employment considerable decline in wages is noted notwithstanding that in others the level of pay remains practically unaffected. Altogether, therefore, business restoration may be said to be progressing as fast as the conditions of readjustment, the modification of rates, wages, profits, and the like, and the economic pressure of organizations of producers and employees will permit.

The conditions which have tended to retard readjustment in the United Foreign busi-States have in nearly all cases ness position. operated in a similar way in foreign countries. There has been the same difficulty in bringing about a parallel change in retail and wholesale prices abroad that has been experienced in the United States, while the difficulties growing out of the fact that some industries adapted themselves to the new conditions much more rapidly than others have given rise to the same one-sidedness in the new development that has been witnessed here. Added to these general—not to say universal obstacles to the restoration of a harmonious price and cost situation has been the difficulty of foreign trade growing out of fluctuations in exchange. The past few weeks have seen but little improvement in this regard and the general outlook has been if anything impaired as a result of the delay in effecting a satisfactory settlement of the German reparations question. Lack of such settlement has seriously interrupted trade between the central empires and other countries, while it has left producers and exporters throughout the allied nations in a condition of doubt with reference to the date at which the return of less uncertain conditions might be expected. Labor controversies in some of the allied countries also have tended to check, or even have stopped, the production of essential commodities such as coal and have thereby The movement of exchange rates has been as follows:

Foreign exchange rates.

	Week ended-				
	Apr. 2.		Apr. 9.		
	High.	Low.	High.	Low.	
England	3, 9350	3, 9038	3. 9288	3.878	
France	.0705	. 0691	.0715	. 069	
Italy	. 0419	.0400	. 0442	. 041	
Spain	.1405	. 1395	. 1400	. 138	
Germany	.0161	.0158	. 0164	. 016	
Switzerland	.1743	. 1722	.1734	. 172	
Sweden (Stockholm) Holland	. 2370	. 2315	. 2370	. 233	
Belgium	. 0736	. 0722	.0745	. 072	
Argentina	. 3369	. 3333	.3321	.318	
China (Hongkong)	.4888	. 4788	. 4938	. 478	
China (Shanghai)	. 6513	.6288	6563	. 63	
Japan (Yokohama)	. 4825	. 4825	. 4825	. 48	
Canada	. 8875	. 8813	. 8950	. 88	
Bar silver in New York	. 5825	. 5638	. 5900	. 57	

	Week ended—			
	Apr. 16.		Apr. 23.	
	High.	Low.	High.	Low.
England	3. 9250	3. 8863	3. 9438	3.9200
France	.0715	.0707	.0736	.0712
Italy	. 0494	. 0444	.0488	. 0465
Spain	. 1401	. 1380	. 1390	. 1381
Germany	.0163	. 0157	.0161	.0138
Switzerland	. 1736	. 1727	.1733	.1729
Sweden (Stockholm)	. 2385	. 2355	.2380	. 2359
Holland	.3468	.3450	.3484	.3460
Belgium	.0745	. 0734	. 0755	. 0731
Argentina	. 3259	.3177	.3179	.3154
China (Hongkong)	. 5138	. 4938	.5188	. 5038
China (Shanghai)	.6688			.6588
Japan (Yokohama)	. 4825	. 4825	.4825	. 4825
Canada	. 8925 . 6375	. 8825	.8925	. 8838 . 5988
Dar suver in New TOTK	.0373	. 5863	.0200	. 9988

In so far as relates to our own trade with foreign countries, the tenden-Foreign trade. cies that were noted a month ago have become increasingly plain with the publication of the official figures for March. The value of exports declined to \$387,000,000, as compared with \$489,000,000 in February and \$820,000,000 for March, 1920. Imports, on the other hand, which are reported at \$252,000,000, show somewhat of an increase over the low figures recorded in January and February, although remaining at only about one-half the level of imports in March of last year. drop in exports is due partly to price declines, but the fact remains that exports of many lines of goods, more especially manufactures, are at a standstill. Among raw materials the most noticeable reduction in the quantities exported occurs in the case of cotton, the exports of which in March were 195,000,000 pounds as against

407,000,000 pounds a year ago. Exports of wheat, corn, and barley, however, continue to move in larger volume than in the same month of 1920. In the nine months ending March, 1921, wheat was exported to the amount of 224,000,000 bushels, compared with 95,000,000 bushels in the similar period of 1919-20. These official trade statistics indicate that our foreign trade is at last returning to a more normal balance between exports and imports, and if there is anything unexpected in the latest returns it is that the readjustment has been so long delayed. The unfortunate feature of the present trade situation is in the inability of many foreign countries to meet their obligations, with an accompanying curtailment of export credits extended by us in this country. Under these circumstances the improvement of our export trade on a scale at all commensurate with our agricultural and industrial capacity therefore presents an important commercial and financial problem. Figures for European countries, while not yet available in detail, are likewise reported to show a very material slowing down in the movement toward recovery, due to the difficulties which have already been sketched and which have been generally reflected in a decline of buying power in most of the countries of the world. In those countries, like some of the South American States where moratoria have been declared, further importation, particularly from the United States, has been brought almost to a standstill because of the difficulty of absorbing and paying for goods which were already on hand.

Reflection of the unevenness of readjustment can be seen in the banking situation in various parts of the country. It is illus-

trated by the rapid growth of reserves and lending power in some of the reserve districts as compared with a much slower development under these heads in other districts. As has been shown in an earlier number of the Bulletin, it has been true throughout the readjustment process that certain of the Federal Reserve Banks were continuous and steady lenders while other Federal Reserve Banks were and have since continued to be during much of the past winter and

spring borrowers or rediscounters at other Federal Reserve Banks. The growth of reserve resources in some of the Federal Reserve Banks which have been steady lenders to others has resulted in some unusually high reserve percentages within the past few weeks. At the Federal Reserve Bank of Boston, for example, there has been a steady accumulation of reserve funds which has brought the cash reserve of the bank as high as about 74 per cent of its outstanding liabilities. On April 15 the Federal Reserve Bank of Boston accordingly announced a 6 per cent rate on 90-day commercial paper, at the same time, however, raising its rate on notes secured by Government obligations from 5½ per cent to 6 per cent, and thus putting into effect a uniform 6 per cent rate applicable to all classes of paper offered to it for rediscount by its member banks. A reduction to 6½ per cent on all classes of commercial paper was announced by the Federal Reserve Bank of New York on May 4. No other changes were announced prior to that time.

During the autumn and winter of 1920–1921, the development of interreserve bank accommodation reached a high point. But in recent weeks there has been a steady reduction in the amount of such interbank indebtedness produced by the gradual liquidation of interbank accommodations. The amount thus advanced had been cut to \$17,437,000 by April 22. The following table shows the reserve position of the several Federal Reserve Banks, both with and without the adjustment which is due to consideration of the advances made to them by others.

Reserve ratio of 12 Federal Reserve districts, Apr. 22, 1921.

District.	Actual.	Ad- justed.1
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)	53. 9 54. 8 67. 0 42. 7 45. 7 48. 1 57. 0 39. 8 42. 3	Per cent. 72. 4 54. 6 54. 8 68. 3 37. 6 48. 1 57. 0 39. 8 42. 3 33. 5 56. 2
System.	54.1	54.1

¹ Adjusted to eliminate the effect of rediscount operations.

Parallel information is obtained when attention is given to the position of the member banks in the several districts. Figures on that subject show that the extent of accommodation required by member banks in some parts of the country and the duration of the period for which they require funds is very much greater relatively speaking than elsewhere.

One of the best indications of the character of the business situation is afforded by the debits to indi-Credit activity. vidual deposit account which the Board has gathered on a weekly basis for nearly three years past. Reference has already been made on a former occasion to the showing afforded by these indexes. In recent months the credit activity index points to a very sharp reduction in the use of bank deposit accounts. The latest figure computed upon a monthly basis is \$34,160,000,000 for March, 1921, while the general course of events in connection with these indexes may be observed in the following table:

Volume of business as shown by debits to individual accounts.

[In millions of dollars.]	
April, 1920	41,598
May, 1920	41, 375
June, 1920	39, 779
July, 1920	39, 910
August, 1920	36, 334
September, 1920	37, 195
October, 1920	40,503
November, 1920	39, 877
December, 1920	41, 834
January, 1921	38, 310
February, 1921	29, 915
March, 1921	34, 160
April, 1921	32, 470

As shown by these figures, a falling off in the activity of credit during recent months is observable, although an upward movement in March is noted. With this should be compared the situation revealed in the recent report of the Comptroller of the Currency, which shows a decline of about \$1,500,000,000 in the total deposit accounts of all national banks since a date approximately a year ago. This falling off of about 10 per cent in the gross outstanding amount of national-bank deposits is the result of the lessened activity of credit. Borrowers who find the activity of their credit reduced naturally endeavor to cur-

tail the amount of balances upon which they are paying interest at the banks, so that a decline in the total volume of credit outstanding may be expected to follow a corresponding decline in the activity of credit itself. A survey of the returns from the several districts shows a considerable amount of variation in the relative degrees of credit activity, the falling off seeming most noteworthy in those regions where the reduction of industrial operations has resulted in a smaller turnover for wages and being less marked in those portions of the country where large disbursements are steadily made for consumptive purposes, as in centers of population, where distributive industry has been less sharply affected than manufacturing.

Treasury finance operations during the past month have included further is-Treasury fisues of certificates and the setnance. tlement of interest due on the fourth Liberty loan. Total ordinary receipts for the month have been \$296,170,666, and ordinary disbursements \$494,091,190, resulting in a deficit on ordinary account of \$197,920,524. The March 31 daily statement of the United States Treasury shows that the total receipts from income and excess-profits taxes had amounted to about \$727,000,000 as compared with approximately \$918,000,000 on the corresponding date a year ago. This shows a decline of less than \$200,000,000 in the total receipts from income and excess-profits taxes and is a much more favorable outcome than had been expected. Most predictions had placed the income and excess-profits taxes returned at a decidedly lower level. The total of Treasury certificates offered during the month was \$150,000,000 and the amount allotted \$190,511,500. Transactions have proceeded with comparatively little disturbance to banking and financial conditions during the month, the withdrawals from banks being well distributed and at no time of sufficient amount to cause serious disturbance. In consequence there has been neither stringency nor plethora in the financial markets which could be directly traced to Government operations whether in connection with taxation, sale of certificates, or disbursement of interest.

During the month ending April 10 the net inward movement of gold was \$91,895,000, as compared with a net inward movement of \$61,768,000 for the month ending March 10. Net imports of gold since August 1, 1914, were \$1,067,032,000, as may be seen from the following exhibit:

[In thousands of dollars.]

	Imports.	Exports.	Excess of imports over exports.
Aug. 1 to Dec. 31, 1914. Jan. 1 to Dec. 31, 1915. Jan. 1 to Dec. 31, 1916. Jan. 1 to Dec. 31, 1916. Jan. 1 to Dec. 31, 1917 Jan. 1 to Dec. 31, 1918. Jan. 1 to Dec. 31, 1919. Jan. 1 to Dec. 31, 1920. Jan. 1 to Apr. 10, 1921.	23, 253 451, 955 685, 745 553, 713 61, 950 76, 534 417, 181 196, 707	104, 972 31, 426 155, 793 372, 171 40, 848 368, 185 322, 091 4, 520	1 81, 719 420, 529 529, 952 181, 542 21, 102 1 291, 651 95, 090 192, 187
Total	2, 467, 038	1,400,006	1,067,032

¹ Excess of exports over imports.

France furnished \$44,652,000 and England \$18,471,000, or about 48 and 20 per cent, respectively, of the \$92,403,000 of gold imported during the monthly period ending April 10, Canada, Sweden, Netherlands, China, British India, and South American countries furnishing most of the remainder. Of the gold exports, amounting to \$508,000, over two-fifths, or \$244,000, was consigned to Mexico and the remainder to Canada and Hongkong. Since the removal of the gold embargo, on June 7, 1919, total gold exports have amounted to approximately \$680,407,000, the net exports amounting to \$29,422,000. Of the total exports, \$195,414,000 was consigned to Japan, \$146,555,000 to Argentina, \$72,038,-000 to Hongkong, \$67,396,000 to China, \$41,052,000 to British India, \$29,778,000 to Spain, and the remainder principally to Mexico, Uruguay, the Dutch East Indies, Canada, the Straits Settlements, and Venezuela.

During the same monthly period the net inward movement of silver was \$860,000, as compared with a net inward movement of \$1,275,000 for the month ending March 10. Net exports of silver since August 1, 1914, were \$455,600,000, as may be seen from the following exhibit.

	f dollars.	

	Imports.	Exports.	Excess of exports over imports.
Aug. 1 to Dec. 31, 1914 Jan. 1 to Dec. 31, 1915 Jan. 1 to Dec. 31, 1916 Jan. 1 to Dec. 31, 1917 Jan. 1 to Dec. 31, 1918 Jan. 1 to Dec. 31, 1919 Jan. 1 to Dec. 31, 1920 Jan. 1 to Apr. 10, 1921	12, 129 34, 484 32, 263 53, 340 71, 376 89, 410 88, 060 14, 414	22, 182 53, 599 70, 595 84, 131 252, 846 239, 021 113, 616 15, 086	10, 053 19, 115 38, 332 30, 791 181, 470 149, 611 25, 556
Total	395, 476	851,076	455,600

Mexico furnished over 58 per cent, or \$2,035,000, of the \$3,509,000 of silver imported during the monthly period ending April 10, the remainder coming principally from Peru, Canada, Honduras, and Chile. Silver exports, amounting to \$2,649,000, were consigned principally to England, British India, Japan, China, Hongkong, and Canada.

Loan liquidation by member banks continued during the month in The banking moderate volume and is resituation. flected in reduction of deposits and of borrowings from the Federal Reserve Banks. Government operations were not sufficiently heavy to neutralize the effect of commercial loan liquidation, with the consequence that the reserve ratio of the Federal Reserve Banks shows a rise of more than 3 per cent during the four weeks between March 25 and April 22. During this period total loans and discounts of reporting member banks show a continuous decline by about \$354,-000,000, all classes of loans sharing in the general decline-loans secured by Government obligations to the extent of \$22,000,000; loans secured by corporate obligations to the extent of \$54,000,000, and other loans and discounts, composed largely of commercial loans proper, to the extent of \$233,000,000. Changes in the investment block were less uniform. Thus the banks report an increase of about \$7,000,000 in their holdings of United States bonds and notes, and liquidation of about \$36,000,000 of Treasury certificates, notwithstanding an increase in holdings of \$69,000,000 reported on April 15, in consequence of the allotment on that date of \$190,511,500 of loan Considerable fluctuations certificates.

at the close of the period shows a decline of only one-half per cent from the March 25 total.

A larger relative reduction is seen in the total figures of accommodation of the reporting member banks at the Federal Reserve Banks. Total borrowings from the Reserve Banks declined almost steadily from \$1,764,000,000 to \$1,583,000,000, or from 11 to about 10.1 per cent of the banks' aggregate loans and investments. For the member banks in New York City, a reduction of accommodation at the local Reserve Bank from \$605,000,000 to \$542,-000,000, and a decline in the ratio of accommodation from 11.7 to 10.8 per cent, are noted.

In the following table are shown figures of principal items in the weekly statement of reporting member banks:

Reporting member banks. [In millions of dollars.]

Date.	Num- ber of report- ing banks.	Loans and discounts and investments.	Rediscounts and bills payable with Federal Reserve	Ratio of accommodation (3+2).	Net de- mand de- posits.
	1.	2.	Banks. 3.	4.	5.
Mar. 25	823 822 821 820 821	15, 983 15, 903 15, 777 15, 756 15, 629	1,764 1,685 1,630 1,581 1,583	Per cent. 11. 0 10. 6 10. 3 10. 0 10. 1	10, 186 10, 271 10, 204 10, 263 10, 127

1 Including rediscounts with Federal Reserve Banks.

For the four weeks between March 25 and April 22, the Federal Reserve Banks report further liquidation of \$172,800,000 of discounted bills, of \$18,600,000 of purchased acceptances, and of \$10,200,000 of Treasury certificates, largely "Pittman" certificates held on deposit with the Treasurer of the United States to secure Federal Reserve Bank note circulation. On March 31 and April 15 the Government redeemed \$3,500,000 of these certificates from the New York and Chicago banks upon deposit by these banks of equivalent amounts of lawful money to reduce their liabilities upon Federal Reserve Bank notes, while on March 29 and April 19 it redeemed \$10,000,000 of Pittman certificates held as excess collateral by the Boston, New York, Philadelphia, Atlanta, Chicago, and shown in net demand deposits, though the total Dallas banks. An increase of \$3,300,000 is shown in the holdings of other certificates, composed largely of certificates taken over from nonmember banks under short-term repurchase agreements. In consequence of the above changes, total earning assets of the Federal Reserve Banks show a continuous decline for the four weeks of \$201,700,000, and on April 22 stood at \$2,490,700,000, or 27 per cent below the figure reported on October 15, 1920, and about 22 per cent below the total shown on the corresponding date last year.

Rediscounting operations are reported by the Richmond and Dallas Reserve Banks. On April 22 these two banks had outstanding with the Boston, New York, and Cleveland banks a total of \$17,400,000, of which \$10,000,000 represented the amount rediscounted by the Richmond bank with the Federal Reserve Bank of New York.

Total deposits show a decline for the period of \$91,500,000, all classes of deposits, but largely those on Government account, sharing in the decline. Federal Reserve note circulation continued its decline from \$2,930,700,000 to \$2,856,700,000, or at an average weekly rate of \$18,500,000. Between December 23, 1920, and April 22 of the present year the decline in Federal Reserve note circulation amounts to \$548,200,000, or to 16 per cent, while as compared with the total reported on the corresponding Friday last year, the decline is \$211,600,000, or 7 per cent. There is also noted a reduction during the four weeks under review of \$15.900,000 in the Reserve Banks' net liabilities on Federal Reserve Bank notes, as against a reduction of \$13,500,000 in the amount of Pittman certificates held by the banks.

A further gain for the period of \$87,300,000 is shown in gold reserves, as against a loss of \$16,500,000 in other reserves. Since the beginning of the year gold holdings of the Federal Reserve Banks, largely through purchase of imported gold, have increased by \$235,300,000. During the four weeks the banks' reserve ratio, owing to the substantial reductions in note and deposit liabilities and the simultaneous gains in cash reserves, shows a steady rise from 50.8 to 54.1 per cent.

Some of the principal changes in the status of the Federal Reserve Banks are brought out in the following exhibit:

Federal Reserve Banks.
[In millions of dollars.]

	Bills disc	ounted.				
Date.	Secured by United States Govern- ment obliga- tions.	All other.	Total deposits.	Federal Reserve notes in actual circu- lation.	Re- serve ratio.	
Mar. 25	936	1, 276 1, 264 1, 219 1, 175 1, 171	1, 841 1, 789 1, 745 1, 755 1, 749	2, 931 2, 908 2, 894 2, 869 2, 857	50. 8 52. 4 53. 5 53. 7 54. 1	

The Federal Reserve Board on April 13-15

Meetings and personnel.

Meetings and certain of the directors of the several Reserve

Banks in Washington. A portion of the session was devoted to a general review of credit conditions throughout the country and to discussion of current rates of interest and discount. The situation of the member banks and the extent to which they are required to get additional accommodation was also taken under careful advisement.

Index-Digest of Federal Reserve Bulletin.

The Federal Reserve Board will publish shortly, primarily for its use and that of Federal Reserve Banks, an index-digest of the Federal Reserve Bulletin, prepared by Mr. C. S. Hamlin, one of its members. The digest covers the first six volumes of the Bulletin, from the years 1914 to 1920, inclusive, and contains an abstract of all published decisions and rulings of the Federal Reserve Board and of the other matter contained in the Bulletin.

The Board will print a sufficient number of copies to supply the demand of banks and others who may desire to purchase it.

The price will be \$2 per volume, bound in cloth in the same manner as the BULLETIN. Subscriptions should be addressed to the Federal Reserve Board, Washington. As the edition is to be a limited one, those desiring copies should send in their orders promptly.

BUSINESS, INDUSTRY, AND FINANCE, APRIL, 1921.

Complete business recovery is proving to be slower than was predicted by many observers at the close of the year 1920. The expectations of many that the spring of 1921 would see economic and business readjustment fairly completed have not been realized. The month of April has, however, given evidence of the development of an improved feeling in many sections of the country with regard to the business situation and outlook. While there is still much uncertainty as to when the readjustment now in process may be expected to reach its end, and while the business situation in some sections of the country and in some fields of industry is still beset with difficulties, some of the recent factors of uncertainty are either being eliminated or are of diminishing importance. Moreover, increasing appreciation of the nature of the readjustment process in business circles and in the community at large is focusing attention upon the factors that are delaying business recovery and is promoting discussion with a view to removing obstacles and expediting the return to normal conditions.

The point upon which the business situation has pivoted since the recession movement began last autumn has been prices. The fall of wholesale prices, which has been continuous and at times precipitate in recent months (especially for the agricultural raw materials group), appears to be in process of arrest. At any rate, many wholesale prices have shown a greater degree of stability during the month of April. Prices of many basic commodities have shown, both by general index numbers and by reports from the several Federal Reserve districts, less sensitiveness than during the preceding month. This fact is being recognized by buyers, who are showing an increasing disposition to regard present price levels as a satisfactory basis for dealings.

Among the factors that are retarding readjustment are retail prices, high transportation charges, wages, and the relatively high prices of such highly important requisites of production as coal and steel. The most important immediate point at which the readjustment process appears to be "sticking" is the retail price situation.

Wage and employment conditions were recently made the subject of a special inquiry by the Federal Reserve Board, the results of which are given in this issue of the BULLETIN. While the inquiry shows that labor is participating in the process of readjustment, the participation has been uneven as between different sections of the country, as between different lines of industry, and as between different groups of labor. Wage readjustment has been greater among unskilled workers and those not possessed of a strong trade organization, and especially in sections of the country whose industries have felt in a peculiarly high degree the effects of readjustment.

So far as the various industries themselves are concerned, the outlook continues good in nearly all branches of agriculture, with favorable crop prospects and a substantial acreage. Conditions in the iron and steel industry, despite the fact that the United States Steel Corporation has made a moderate reduction in prices, show little change. No improvement in condition has been noted in connection with the nonferrous metals, and most of the principal copper mines have suspended mining operations. The textile industry has continued to show a seasonal increase in productive activity and this has extended to the knit goods and other allied branches of the trade. In the retail field demand has been well sustained in the eastern sections of the country. Wholesale trade has shown an upward tendency, due, no doubt, to the depletion of the stocks of retail dealers which were already low and have been further reduced by the seasonal spring demand. Financially the month has been quiet, with indications of betterment in condition. There still remain large unliquidated loans in certain parts of the country representing commodities which are being carried over from last year and which the banks have had to provide for. In some parts of the country building activity has shown distinct improvement. Export demand continues to be light and declining, while the increase in idle tonnage is marked. About 46 per cent of the vessels owned by the United States Shipping Board are now laid up.

AGRICULTURE.

The agricultural situation during the month may be characterized as generally favorable. The unseasonable cold wave which swept over the country about April 1 did some injury to the spring wheat, but had very little effect upon the winter wheat. Thus, in district No. 11 (Dallas) it is stated that "reports from the wheat belt are generally satisfactory, and indicate that the crop is in excellent condition, and in district No. 8 (St. Louis) "little damage was done to winter wheat by the recent low temperature." However, the cold wave temperature." However, the cold wave checked the ravages from the pests which had been prominent because of the especially mild winter and very little further trouble is contemplated. The condition of winter wheat on April 1, as reported by the Bureau of Crop Estimates of the United States Department of Agriculture, was 91 per cent, as compared with 75.6 per cent on the same date of 1920. On the basis of this report, it is estimated that there will be a very large production, nearing a banner year in winter wheat. The estimated production is 621,000,000 bushels as of April 1, 1921, against 577,763,000 bushels on April 1, 1920, while the acreage for 1921 is 40,605,000 acres, as against 41,757,000 acres on April 1, 1920. The seeding of spring oats has been practically completed in most sections and a considerable amount is already up and in good condition. Corn planting has made good progress, especially in some of the southern sections, although it has been delayed in others by the wet and cold weather. In most sections the germination of the seed has been retarded either by the cold weather or lack of moisture.

FRUIT.

The fruit throughout the fruit-growing sections suffered from the cold wave which was followed by frost. District No. 12 (San Francisco) states that "some damage is reported from practically every fruit and grape growing area but reports indicate no serious reduction of prospective crops from this cause," and district No. 10 (Kansas City) reports that "all fruits were injured more or less by the belated cold weather." The injury appears more serious in district No. 11 (Dallas), where "it is believed fruit has been damaged at least 25 per cent and in some sections even more."

COTTON.

Good progress has been made in the planting of cotton and in South Carolina, Georgia, Alabama, and Mississippi a considerable amount is up to a good stand. While the greater than receipts of March a year ago by 59.9 per cent. The receipts for the two centers combined were 4.9 per cent greater than for February and 24.8 per cent greater than for

earlier reports indicated a very large reduction in acreage, it is now generally understood that the reduction will not be as great as was previously indicated. In district No. 11 (Dallas) it is reported that the decrease will be at least 25 per cent and as much as 50 per cent in some sections. District No. 12 (San Francisco) states that "the acreage this season will be reduced approximately 50 per cent, and much of it will be 'volunteer' cotton grown from last year's plantings." However, district No. 6 (Atlanta) reports that "conservative estimates place the reduction in acreage compared with last year at from 10 to 20 per cent." The use of fertilizer has been considerably less than during previous years, being estimated at about one-fourth to one-third the amount used a vear ago.

TOBACCO.

Although the leaf tobacco market has been dull throughout the past month, the warehouse sales have been in a larger volume than is usual at this season of the year. This was probably due to the fact that sales during the previous months have not been as large as in normal times. However, the demand has been for better grade tobacco rather than for the cheaper grades. District No. 8 (St. Louis) reports that receipts of tobacco have been fairly heavy and prices for the better grades well maintained." District No. 3 (Philadelphia) states that "manufacturers are purchasing only such stocks as they actually need, and most of them have sufficient supplies on hand for present purposes." The demand for high-grade cigars has been in limited proportions, while the demand for cheaper cigars of a reasonably good quality has been more pronounced. Reports from this district indicate that although the industry as a whole is still operating considerably below normal, "firms which are manufacturing the cheaper products have increased production materially and are preparing to operate on a full-time basis."

GRAIN MOVEMENTS.

The March movement of grains has on the whole been in larger amounts than last month and the same month a year ago. Receipts of all grains at Minneapolis were 9 per cent greater than February receipts and 18.5 per cent greater than for March, 1920. While the March receipts at Duluth were less than February receipts by 10.6 per cent, they were greater than receipts of March a year ago by 59.9 per cent. The receipts for the two centers combined were 4.9 per cent greater than for February and 24.8 per cent greater than for

March, 1920. Combined receipts of wheat at Minneapolis and Duluth were 5.6 per cent smaller than February and 17.6 per cent greater than March, 1920. The same tendency is noted in the case of the four principal markets of district No. 10 (Kansas City), where receipts of wheat were 2.9 per cent less than for February and 18.4 per cent greater than for March, 1920. Receipts of corn at Minneapolis, Duluth, and the four principal markets of district No. 10 (Kansas City) showed increases over the previous month and the same month a year ago. Stocks of grain at the Minneapolis and Duluth terminals at the close of March were 2 per cent greater than at the close of February and 8.9 per cent greater than a year ago. Prices of grains during the month of March exhibited mixed tendencies, but there were more decreases than advances. The median price of cash wheat No. 1 Dark Northern at Minneapolis was \$1.72 as against \$1.75\frac{3}{4} for February.

FLOUR.

Little new domestic demand for flour is reported, and buyers have shown hesitancy as a result of the continued fall in the price of wheat. Flour prices in general have declined similarly, although it is stated from district No. 12 (San Francisco) that millers who have stocks of wheat bought at higher prices and who hold flour milled from this higher priced wheat have shown reluctance to revise flour prices to correspond with present wheat prices. Some export demand is indicated. The export trade in district No. 10 (Kansas City) "is reported fairly satisfactory, with the demand becoming more general." Domestic trade in that district in the first week of April, however, was less encouraging, and mills which had been working on contracts had about caught up with the business on hand. Export trade in district No. 12 (San Francisco) has increased slightly, but the domestic demand on the whole has remained stationary, although improvements are noted in some local areas. Millers in district No. 8 (St. Louis) report some export demand, centering principally upon clears. Production of mills representing about 75 per cent of the total output in district No. 9 (Minneapolis) was 1,793,505 barrels during the 4 weeks ending March 26, a decrease of 3.1 per cent from the figure of 1,854,209 barrels during the 4 weeks ending February 26, but an increase of 19.9 per cent over the figure of 1,497,060 barrels during the 4 weeks ending March 27, 1920. March shipments of flour from Minneapolis and Duluth combined were 8 per cent larger than in February and 15 per cent larger than in March, 1920. March production of Kansas City mills | March, 1920, figure was 899,760 head, while

was 30.4 per cent greater than in March, 1920, but figures for all reporting mills in the district showed an increase of only 1.3 per cent, from 1,203,651 barrels in March, 1920, to 1,220,039 barrels in March, 1921, due to the falling off in the output of the 82 interior mills. No appreciable increase in activity is reported in district No. 12 (San Francisco), and mills continue to operate at approximately 45 per cent of capacity, as compared with 80 per cent during March, 1920. Output of 76 mills during March, 1921, was 627,417 barrels, as compared with 573,420 barrels during February reported by 80 mills. Plant operations in district No. 8 (St. Louis) have been at from 40 to 50 per cent of capacity during the 30-day period ending April 15.

LIVE STOCK.

The condition of live stock on farms and ranges continues excellent, although in certain sections, such as Arizona, rainfall has been deficient and stockmen have suffered heavy losses. The stocker and feeder movement of cattle and calves at 34 markets was 233,477 head during March, as compared with 164,504 head during February and 239,363 head during March, 1920. The large surplus of corn, it is stated, has given a new impetus to the swine industry in Kansas and Nebraska. The demand for stockers in March at Fort Worth, however, was "quite light, and few shipments were secured for return to the country." ports from the principal markets in district No. 12 (San Francisco) state that "inquiries are few and stockmen are not buying to increase their herds." The season has been favorable for lambing in New Mexico and the "crop of lambs in that section and in the Panhandle is estimated at 85 per cent." A good lamb crop is reported to be in prospect in district No. 10 (Kansas City). Movement to market of the various classes of live stock differs somewhat. Receipts of cattle and calves at 15 western markêts during March were 1,119,548 head, as compared with 835,686 head during February and 1,195,622 head during March, 1920. The respective index numbers were 111, 89, and 119. Receipts of hogs, however, showed a decrease from 2,902,107 head during February, corresponding to an index number of 141, to 2,390,480 head during March, corresponding to an index number of 109, as compared with 2,852,171 head during March, 1920, corresponding to an index number of 130. Receipts of sheep were greater during March than receipts for either February, 1921, or March, 1920. The March, 1921, figure was 1,161,549 head, the February figure was 972,647 head, and the

the respective index numbers were 85, 76, and 66. On the Fort Worth market "the heavy increase in receipts of hogs was easily the most outstanding feature," but nevertheless there was a keen demand and the market was well maintained. The supply of meat animals at the six markets of district No. 10 (Kansas City) in the first three months of 1921 is stated to have been fully up to meat consumption requirements. March is said to have been one of the poorest months in the history of the industry in that district. The abundant supplies of beef in packers' coolers, it is reported from district No. 8 (St. Louis), has a tendency to hold down prices. Hog prices have continued to decline steadily and this is ascribed chiefly to diminished consumption of pork products, due to adverse industrial conditions. The fresh-pork market, however, remains exceptionally active in the Pacific Northwest and heavy shipments continue to be received from Middle Western points.

NONFERROUS METALS.

On March 29 seven of the largest copper companies of the United States ceased their mining operations. Several other companies stopped producing during April, and it is estimated that the production of the mines which continue to operate is less than 30 per cent of the normal total American production of copper. The cessation of operations by most of the larger producers was due to the large stocks of copper in the country and the present unremunerative copper prices. As a result of the announcement of this curtailment of mining operations the price of copper (New York, net refinery) rose from 12 cents to 12.50 cents in the latter part of March, but there has been some shading of the latter price in sales made since April 15. There was a slight increase in the price of zinc during April, which presumably resulted from the severe restriction in output. March production of zinc amounted to 15,741 tons, as compared with 17,769 tons produced in February. Lead production is also at a low level, although stocks of lead in the United States are believed to be much less in proportion to consumption than is the case for either copper or zinc. There has been little change in the price of lead since the increase to 4.25 cents (New York and St. Louis bases) on March 31, but demand continues slack. District No. 10 (Kansas City) reports that there are only 36 lead and zinc mines working at present out of a total of 208 mines.

COAL.

Little demand for bituminous coal is re- ending April 18 was 370,500 barrels, as comported. Consumers are stated to be buying pared with an average daily production of

only for immediate needs, while industrial demand is retarded by the general business situation. From several districts it is reported that there is no desire to contract for deliveries for next fall at present prices. Little change in prices, however, is reported, although in some districts it is stated that there is a slight downward trend. Railroads in district No. 10 (Kansas City) are relying on storage piles for a good part of their present requirements, and are buying little coal in the market. One of the principal producers in district No. 4 (Cleveland), however, states that more inquiries were received during the first half of April than during the first three months of the present year. Production shows some falling off, from 30,851,000 tons during February to 30,328,000 tons during March, as compared with 46,832,000 tons during March, 1920. The respective index numbers are 89, 82, and 126. Production of anthracite coal likewise declined in March, being 7,603,000 tons, corresponding to an index number of 103, as compared with 7,845,000 tons during February, corresponding to an index number of 114, and 7,857,000 tons during March, 1920, corresponding to an index number of 106. The customary spring reductions of 50 cents per ton on prepared sizes have been announced by all railroad coal companies but one, and retail prices in district No. 3 (Philadelphia) are from 75 cents to \$1.50 lower than winter prices. Some quickening of demand is reported from that district as a result of the slight reductions in retail prices effective April 1, but "on the whole the result has been disappointing to the dealers." Probably the larger part of March deliveries are stated to remain stored in the yards of dealers. The lack of retail demand is ascribed in part to the fact that the remarkably mild winter has left many consumers with a large part of last winter's supply on hand, as well as to the expectation of further decreases before fall, in view of the initial price reductions. Demand is least for the steam sizes. Further price declines are reported in coke, together with a decrease in production. It is stated from district No. 3 (Philadelphia) that "it is doubtful if more than one-fifth of the Nation's productive capacity is being utilized."

PETROLEUM.

Production of petroleum showed a slight gain during March. There has been a continuous increase in the production of the Kansas-Oklahoma fields since January 1, 1921, and the average daily production for four weeks ending April 18 was 370,500 barrels, as compared with an average daily production of

361,250 barrels for the four weeks ending March 11. In California the average daily output during March was 337,683 barrels, as compared with 327,864 barrels in February. These increases were partly offset by a decrease in average daily production of district No. 11 (Dallas) from 403,243 barrels in February to 394,174 barrels in March. There was a further decline in drilling operations during March. Most of this decrease occurred in district No. 11 (Dallas), where there were only 395 new wells completed in March, as compared with 491 wells in February. In district No. 10 (Kansas City) only 768 new wells were completed in March as compared with 771 in February, but new production amounted to 71,460 barrels daily as compared with 65,664 barrels in February. Sixty-six new wells were completed in the California fields during March, as compared with 60 in February. There was a distinct slowing down in the price recessions of petroleum products during March, and this was reflected by the maintenance throughout the month of a crude oil price of \$1.75 per barrel in most of the Texas fields. Refinery runs in Kansas and Oklahoma were materially increased on April 1 by the resumption of 13 refineries which were not operated in March.

IRON AND STEEL.

The outstanding event during the month in the iron and steel industry was the reduction by the United States Steel Corporation on April 12 of its schedule of prices on various standard products to figures 6 to 15 per cent below the prices of the Industrial Board. Prior to the cut, several of the larger independent producers announced advances of \$2 per ton on bars, plates, and structural steel shapes, while subsequently further reductions were announced by steel corporation mills. Prices of the two groups of producers are now, in general, at the same levels. The exact influence which these price changes will exert is as yet uncertain. It is stated from district No. 4 that "a dragging market in general has continued." Some betterment in that district, however, has been reported with respect to the automobile and building industries. "Suspensions of orders for steel with the mills have been lifted in an increasing way" by the former industry, and "some new buying has also resulted." The demand is stated from district No. 3 (Philadelphia), however, to have been far below expectations, and the total consumption of automobile and truck manufacturers is given as only 5 per cent of the total product of the iron and steel industry. This district also reports little

stated in the various reports that buyers, in general, apparently lack confidence in the present situation. These conditions are reflected in the statistics showing the scale of operations in the industry. At the close of March only 103 blast furnaces in the country were active, a decline of 52 during the month, as compared with 317 active at the close of September, the peak for last year. Pig-iron production during March was 1,595,522 tons, as compared with 1,937,257 tons during February. The respective index numbers were 69 and 90. Production of steel ingots declined from 1,749.477 tons during February to 1,570,978 tons during March. The respective index numbers were 80 and 67. A further decrease in the unfilled orders of the United States Steel Corporation is reported, from 6,933,867 tons at the close of February, corresponding to an index number of 132, to 6,284,765 tons at the close of March, corresponding to an index number of 119. Reports in district No. 3 (Philadelphia) indicate that production is less than 30 per cent of capacity, and, even with this output, stocks are accumulating in the hands of producers. Some resumption of activity in pig-iron production is reported in district No. 6 (Atlanta) since the beginning of April. Owing to large stocks of ore on dock and in furnace yards, there is a slow opening of the shipping season on the Great Lakes.

AUTOMOBILES.

A considerable increase in the demand for standard makes of automobiles is reported from district No. 7 (Chicago). The more conservative dealers in district No. 3 (Philadelphia), however, feel that the natural seasonal improvement appears larger than the facts warrant, as conditions in the trade were exceptionally dull last winter. A trend toward lower prices was reported in district No. 7 (Chicago), while in district No. 3 (Philadelphia) there was rather a tendency on the part of the dealer to give extra parts or accessories in place of reducing the price on standard models. Stocks of cars in the hands of retailers have been reduced below January figures. It is noted from district No. 7 (Chicago), however, that caution prevails and that there is still some disposition on the part of buyers to wait for lower prices, while other factors, which retard buying, are the lack of capital to finance large operations and the curtailed buying power of the agricultural sections. Carload shipments of manufacturers producing twothirds of the country's output are reported by district No. 7 (Chicago) to have been 16,500 demand from the building industry. It is during March as compared with 9,920 during February and 29,326 during March, 1920, while 10,000 machines were driven away under their own power in March, 1921, as compared with 7,491 during February and 57,273 during March, 1920. In some instances manufacturers show a marked increase in operations. From district No. 3 (Philadelphia) it is stated that operations in the fall and winter were not over 25 per cent of normal, many plants being entirely closed, while operations in general are now at about 60 per cent of normal. The improvement in business commencing in March reported by dealers in district No. 8 (St. Louis) has continued but "is fitful and irregular," and is found rather in the large cities than in the country.

COTTON TEXTILES.

Cotton consumption during March for the country as a whole amounted to 437,933 bales, which was 25 per cent below the totals for March of the preceding year. There was greater stabilization in the price of raw cotton during the month, and the price of gray goods, after declining to 61 cents a yard for the standard 38½-inch width, advanced slightly. Nevertheless, district No. 1 (Boston) reports that at present prices the spread between a pound of cloth and a pound of raw cotton is only 221 cents, whereas a year ago it was approximately \$1. Fall River sales of print cloths are of moderate proportions. Brown sheetings and standard brown drills can be purchased about one-half cent a yard below last month's levels. The demand for pillow tubings is such that three well-known brands, sold ahead for months, are withdrawn from the market. The demand for ginghams has been good and some mills have sold their entire output from May to August. There seem to be no pronounced general tendencies, as the activity of certain mills manufacturing fabrics that happen to be in demand at the moment is offset by the relative inactivity in the gray goods mills. District No. 3 (Philadelphia) reports that the demand for heavy cotton fabrics such as are used in the manufacture of tires is slight, and mills manufacturing goods of this sort have largely curtailed operations. There has been little change in yarn prices during the month. Sales of low-priced cotton goods and low-priced hosiery were reported to have improved somewhat, but the demand has been largely met from stocks, as yarn mills have recently been curtailing their operations. In the South textile mills are reported to be running approximately full time in district No. 5 (Richmond). Some orders are being received for goods used for print cloth, and orders for wool are considerably larger than a year ago,

future delivery are also being taken by knitting mills in the district. Wage cuts in the southern mills have been more drastic than in other sections, and it is said that "many people in the trade claim that the reductions have been in keeping with the lowered prices for raw material." In district No. 6 (Atlanta) a number of reporting mills show an increase in yardage of 4.5 per cent during March as compared with February, although there was a decrease of 22.1 per cent as compared with a year ago. The increase in orders on hand during the month was negligible, but much greater than a year ago when new orders were not acceptable because of the press of work. It is said that few mills are as yet working at full capacity, although a number indicate orders on hand which will require full running time for several weeks for their completion. The increase in yarn output (by pounds) of reporting yarn mills increased 8 per cent during the month, although totals were 26.2 per cent below figures for March, 1920. There was a slight decrease of 1.1 per cent in orders on hand as compared with February, and the time required running full to complete orders on hand averages about one month for all report-ing mills. There has been a recent increase in export sales of cotton goods, amounting to between 10,000 to 12,000 bales and consisting principally of drills and sheetings, to China, India, and the Levant.

FINISHING OF COTTON FABRICS.

Thirty-four of the 58 members of the National Association of Finishers of Cotton Fabrics reported total finished yards billed during the month at 86,732,621 yards, as compared with 55,436,871 yards in February. The total average percentage of capacity operated was 67 per cent for all reporting districts, as compared with 51 per cent during the preceding month. The total gray yardage of finishing orders received amounted to 88,342,599, as compared with 76,201,806 in February. The total average work ahead at the end of the month amounted to 8.4 days for all reporting districts, as compared with 8.5 days during the preceding month.

WOOLEN TEXTILES.

The Boston wool market has experienced little change during the past month. Not much wool is being sold but prices have nevertheless strengthened somewhat. A lot of the South American medium grade wool has been taken from the market. Receipts of foreign it is stated, and competent wool men estimate that there has already been more wool imported into this country since the beginning of 1921 than has been consumed by our mills in that period. In all districts woolen and worsted mills are showing greater activity, and in district No. 1 (Boston) several mills are reported to have booked as many orders as they care to accept at the present time. Top manufacturers are well booked up and production is not far from capacity. In district No. 3 (Philadelphia) many cloth mills are operating at capacity, while others are running from 50 per cent to 75 per cent. In the Philadelphia market the increased activity is not reflected in the demand for yarn. Some yarn manufacturers are running at full capacity, but orders are being placed for current use almost entirely. Manufacturers of medium and lower counts of yarn have not done as active business as producers of the fine counts. The operations of the former are reported to be from one-third to two-thirds of normal. The latest figures available prepared by the Department of Commerce giving percentages of idle hours to the total reported on March 1, showed that 37.9 per cent of the worsted spindles and 50.5 per cent of the woolen spindles were idle, whereas on April 1 the percentages had fallen to 25.7 per cent and 34.1 per cent, respectively.

SILK TEXTILES.

There has been a continued increase in the manufacturing activity of the silk mills during the month, and one encouraging factor tending to sustain the improvement that has already taken place is the relative stability of the prices of raw silk. Demand for the raw material for immediate delivery is active but as yet confidence as to market developments is not great enough to have resulted in the placing of large orders for future delivery. The silk warehoused in New York at the end of the month amounted to 16,386 bales, as compared with 27,928 bales in February, while 14,043 bales were imported in March, as compared with 14,361 bales in February. The mills in Paterson and near-by towns are now reported to be operating at about 60 per cent of maximum capacity as compared with 49 per cent during the preceding month.

HOSIERY.

It is stated in the report from district No. 3 cent is (Philadelphia) that there has been a general improvement in the hosiery industry during the past month, and that the demand for silk ruary.

lines has been especially marked. A strike is still in progress in the majority of the Philadelphia full-fashioned hosiery mills, and the result has been that mills in the Reading district have had more orders than they could accept, although the demand is for immediate delivery. The inability to secure deliveries on full-fashioned hosiery has increased the call for other lines, and mills are now working on orders. The demand for mercerized and lisle hosiery has shown improvement during the month, but it is estimated that it is only about 50 per cent that of a normal year. Twentyfive firms selling to the wholesale trade report an increase of 15.8 per cent in the product man-ufactured during March as compared with February, 1921. Orders booked during March showed a decrease of 30.6 per cent, but unfilled orders at the end of the month increased 17.4 per cent. Eight firms selling to the retail trade had a product 66.5 per cent in excess of February; orders booked during March were 5.5 per cent greater than in February, while unfilled orders on hand at the end of the month were 48.1 per cent in excess of the preceding month. The output as compared with a year ago was nevertheless negligible, being 93.3 per cent below those totals.

UNDERWEAR.

The majority of underwear mills in district No. 3 (Philadelphia) are booked to capacity until the end of the light-weight season. Normally orders are placed and largely made up for shipment by the middle of January, but this year buying was late and in limited quantities. Duplicate orders, placed in March as a result of the unexpectedly heavy public demand, have increased the volume of business beyond the present capacity of the industry. On the other hand, forward orders for heavyweight underwear have been few, although some mills have booked sufficient orders to maintain total capacity until the end of August. The uncertainty regarding price trends and the lack of definite information as to stocks carried over from last winter make buyers hesitant to adopt a policy for the future. Twenty firms in district No. 3 (Philadelphia) which make monthly reports to the Federal Reserve Bank had an increase of 85.8 per cent in their output in March as compared with February, although it was still 29.5 per cent below the totals for the same month of the preceding year. Orders booked were 13.5 per cent below those for February and unfilled orders on hand at the end of the month were 10 per cent greater than at the end of Feb-

Goods Manufacturers' Association of America had an output in March of 102,415 dozens of winter underwear, which was 31 per cent of normal. The production of summer underwear amounted to 318,725 dozens, or 62.5 per cent of normal. Thirty-eight mills which furnish data for both February and March had a production of 261,934 dozens during the latter month as compared with 147,822 dozens in February. Unfilled orders on the 1st of March dropped, however, from 588,127 dozens to 269,104 dozens. New orders received during the month of March rose from 205,260 dozens in February to 284,712 dozens in March. There was a slight increase in cancellations, which rose from 1,619 dozens to 5,173 dozens.

SHOES AND LEATHER.

Prices for hides and skins showed little change during March and the volume of trading has not increased perceptibly. Demand for sole leather and staple grades of upper leather continues to be slack, but demand for colored glazed kid, suede calf, ooze, and certain other kinds of calf leather continues to exceed the available supply. There was some increase in the demand for belting leather, harness leather, and upholstery leather during March. The volume of leather exports continues to be very small. District No. 1 (Boston) reports that "prices on the whole are showing a slight strengthening, but the very large supplies of leathers in the country act as a deadening influence on any general upward movement." There has been some slackening in the demand for women's shoes since Easter, but this has been largely counterbalanced by an improvement in demand for men's shoes. Both retail and wholesale sales of shoes are reported to be exceeding production at the present time. The net result of March operations in district No. 1 (Boston) was a reduction in the size of stocks of shoes on hand in factories and factory warehouses. Shipments of shoes from the factories of New England were considerably larger in March than in February, yet orders on hand April 1 showed an increase over those on the books March 1. "Production was apparently at a rate slightly below 50 per cent of capacity." In contrast to this, district No. 3 (Philadelphia) reports "that the shoe manufacturing industry at the present time is operating close to capacity and that business for the spring and summer seasons is approaching normal." However, buyers in that district still refrain from ordering for future delivery and the business in the hands of the manufacturers is practically entirely for im- were larger than in any week since January, but

The 62 mills which make reports to the Knit mediate shipment. District No. 8 (St. Louis) reports that shoe factory operation is larger than at any time this year, averaging from 80 to 90 per cent of capacity. Many plants turning out women's and children's footwear are operating at full time. "Prices show a further decline, except on goods in seasonal demand and the fancy grades of women's wear." Orders for summer goods are being obtained in some quantity by salesmen in district No. 7 (Chicago). Good qualities are wanted and the demand for novelty lines is stronger than for staple goods. "The retailers have brought prices down recently until they are more in line with replacement cost, but these prices have not kept pace with wholesale reductions."

LUMBER.

Demand for lumber increased somewhat during March, but only as a result of a further reduction in prices. District No. 12 (San Francisco) reports that "the volume of buying is increasing, although it is still conservative and purchases are only to meet current needs." Orders received during the four weeks ending March 26 by the four lumber manufacturers' associations of that district showed an increase of 30.2 per cent over the preceding four weeks. Production during the same period increased 17.1 per cent and shipments 68.1 per cent. Uncertainty as to the volume of this season's operations in the canned-fruit and salmon-packing industries has resulted in a curtailment of operations of box shook mills to 50 per cent of capacity. One hundred and eighteen mills belonging to the West Coast Lumbermen's Association reported for the four weeks ending March 26 a cut of 187,917,000 board feet, shipments of 209,970,000 feet, and orders of 213,-431,000 feet. Corresponding figures for the preceding four weeks, with the same number of mills reporting, were as follows: 162,648,000 feet, 157,970,000 feet, and 167,483,000 feet. In district No. 11 (Dallas) prices were practically stationary throughout March. Production of 29 southern pine mills during March was equal to 60 per cent of normal. Orders booked by these 29 mills were equivalent to 61 per cent of their normal production, whereas the 30 mills which reported during February booked orders equivalent to 56 per cent of their normal production. Prices of pine have sagged slightly in district No. 6 (Atlanta). Production of 134 mills belonging to the Southern Pine Association was 29.5 per cent below normal during the week ending April 1, while shipments were 25.8 per cent below normal production. Orders received during that week were 23.9 per cent below normal production. Production in the Tennessee hardwood mills for the first three months of 1921 is reported to be 75 per cent lower than in the same period of 1920, and many of the mills are being closed. District No. 8 (St. Louis) reports that industrial buying has increased somewhat in both softwoods and hardwoods. "Railroads are virtually out of the market, and in consequence the prices of heavy timber, crossties, and car stock have declined more heavily than in any recent month." Price reductions were made during March by a majority of the retailers and about half the manufacturers reporting in district No. 9 (Minneapolis). The March cut of 12 manufacturers was 7 per cent greater than in February, and shipments were 20 per cent greater, while stocks at the close of the month had increased 5 per cent. As compared with March, 1920, cut was 26 per cent less, shipments 66 per cent less, and stocks at the close of the month 51 per cent greater. The demand for lumber has improved somewhat in district No. 3 (Philadelphia), but the price trend has continued downward and 80 per cent of the orders are being filled from stock on hand.

BUILDING OPERATIONS.

Building operations showed increased activity during March, which is a normal condition for this season of the year. Number of build-ing permits, value of building permits, and value of contracts awarded all registered marked increases as compared with February. This increase is particularly large in the case of number of permits, as a result of the continued increase in the building of residences. Contracts awarded in the New England States amounted to \$13,262,000 during March, an increase of 84 per cent over February. District No. 2 (New York) reports contracts amounting to \$29,846,000, an increase of 40 per cent over the February figure. Of this total 59 per cent were for residential buildings as compared with 48 per cent in February and 40 per cent in January. "The increase in residential construction has been confined almost entirely to the least expensive apartments and small homes." In district No. 3 (Philadelphia) there has been a large increase in the value of building permits issued during March in comparison with the February figures. Funds for mortgages have been difficult to obtain, but there has been a steady increase in number of houses bought through the building and loan associations. District No. 4 (Cleveland) shows an increase in value of building permits issued during March, but there still seems to

commencing construction. Reports from 23 cities in district No. 5 (Richmond) show 1,718 permits issued for new construction during March, in comparison with 894 permits issued in February. This number was greater than that for any month since February, 1920. Value of building permits in district No. 6 (Atlanta) increased about 50 per cent for March in comparison with February figures. Noteworthy increases in activity occurred in Atlanta, Birmingham, and Tampa. In district No. 7 (Chicago) there was an increase in value both for building permits and contracts awarded during March, as compared with February figures. District No. 8 (St. Louis) shows an increase in value of building permits for three leading cities in March, as compared with February, but these figures are very much below those for March, 1920. In district No. (Minneapolis) 1,847 permits, valued at \$2,647,666, were issued in the reporting centers in March, as compared with 783 permits, valued at \$2,179,784, in February. This increase is due to a substantial gain in the number of permits issued for repairs and alterations. Seventeen cities in district No. 10 (Kansas City) issued 2,778 permits in March, an increase of about 100 per cent over the February figure and an increase of about 18 per cent over the total of March, 1920. District No. 11 (Dallas) reports that both the number and value of building permits issued in March was the largest monthly total since October, 1920. The value of building permits for 20 cities of district No. 12 (San Francisco) amounted to \$18,542,835, an increase of 57 per cent over February, 1921, and 27 per cent over March, 1920. Number of permits in those cities increased 47 per cent over February, 1921, and 38 per cent over March, 1920. "Declining prices of building materials and some reduction in labor costs have reduced the number of factors which have been retarding building operations."

EMPLOYMENT.

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of the Pennsylvania Bureau of Employment indicated that on April 15 unemployment was still increasing in the cities of Philadelphia, Altoona, Harrisburg, Johnstown, and Scranton taken as a group, since the total number of unemployed was reported at 177,645 on April 15, as compared with 147,115 on March 15. In district No. 7 (Chicago) questionnaires are sent regularly to representative manufacturing concerns and for the month of March returns were received from 61 firms then employing 41,000 persons, and statistics showed a reduction of 6.5 per cent in numbers employed as compared with February. The greatest reductions in volume of employment were in the metal and machinery trades and among the workers in railroad equipment shops. On the other hand, the automotive industry has shown a steady increase since December, on the basis of returns made by 79 firms to the Employers' Association of Detroit. In December only 14 per cent as many men were employed as in September, the time of greatest activity, when 176,000 were on the pay rolls. On April 12 the number had risen to 100,347 from the December minimum, or to 57 per cent of the September total. From district No. 8 (St. Louis) it is reported that "Federal and State labor commissioners and employment agencies show a further increase in unemployment, * * * with most acute conditions in the metal industries and transportation and common labor most affected." In textiles, boots and shoes, clothing, and furniture, however, the number of unemployed was considerably decreased during the month of March by resumption of plant operations.

It was likewise true that unemployment increased in district No. 9 (Minneapolis) during March. According to reports from the Federal employment agencies in Minneapolis, St. Paul, and Duluth, requests for help wanted were 73.4 per cent of those for February in the case of men while 83.5 per cent as many men were placed in March as in February. For women, however, there was an 8.4 per cent increase in requests for help wanted and a 5.2 per cent increase in numbers placed as compared with February. Reports of mining companies indicated no substantial change in numbers employed in March. As a matter of fact, the largest Montana and Michigan mines were closed on April 1. Lumber companies employing 1,762 men in March had reduced their forces 17 per cent as compared with the preceding month. District No. 12 (San Francisco) stated that unemployment in that territory was less than a month ago, excepting in the sections of Arizona and Utah in which the

Outside of mining, the lumber industry reported the greatest amount of unemployment, but work was in process of resumption. Portland reported a decided decrease in unemployment as did Seattle, while conditions in Spokane were practically unchanged. Industrial concerns in California were employing more

men than they were a month ago.

Although a large amount of surplus labor in the industrial centers has been absorbed by the seasonal increase in demand for farm labor. it is very generally commented upon that farmers are endeavoring to economize by doing more work themselves and depending less upon hired help. Consequently, the relief to the unemployed with the opening up of spring farming activities is not likely to be so great as was anticipated. In view of the unusual supply of farm labor and the restricted demand. it is inevitable that wages should show a sharp decline. District No. 4 (Cleveland) reports that in the State of Ohio wages for farm hands now average \$40 a month with board, as compared with \$52 last year. In district No. 6 (Atlanta) it is said that many farmers are without money to hire labor and are cultivating only so much land as can be managed with the help of their families. In district No. 9 (Minneapolis) economies in expenditures for hired help are likewise being practised. Farm laborers in consequence are receiving from \$35 to \$45 per month with board, as compared with \$70 to \$80 a year ago. A similar situation prevails in district No. 10 (Kansas City) and it is said that laborers are reluctant to work at the reduced rates of wages now prevalent.

WHOLESALE TRADE.

Although the sales of reporting wholesale firms are much below the totals given for a year ago, as would be expected in view of the heavy declines that have taken place in wholesale prices, a number of districts which present month to month comparisons for leading lines, such as groceries, dry goods, boots and shoes, and hardware, report decided increases in-March sales as compared with February. In district No. 3 (Philadelphia) the hardware sales of 25 reporting firms increased 30.2 per cent during the month, although the volume of business was still 19.2 per cent below the totals for last year. It was stated that current sales largely represent small orders of goods wanted for immediate use, the result of a seasonal demand for such articles as farm implements, garden tools, wire fencing, and netting. In the wholesale grocery trade increased sales had large copper mines, now closed, are located, also occurred and could be partially attributed

to a seasonal increase in demand. The net sales of 50 reporting stores were 18.6 per cent larger in March than in February, but 27.9 per cent below the figures for March, 1920. Purchases were said to be for immediate needs and business confined largely to staples. In district No. 4 (Cleveland) the net sales of 14 reporting grocery firms and 7 hardware firms showed declines as compared with a year ago, somewhat analogous to those of district No. 3 (Philadelphia), being 16.3 per cent lower for hardware and 33.1 per cent lower for groceries. Dry goods sales (6 firms reporting) were 14.9 per cent below last year. In district No. 5 (Richmond) sales of groceries (9 firms reporting), dry goods (8 firms), hardware (8 firms) and boots and shoes (8 firms) show increases over February ranging from 8.6 per cent in the case of groceries to 53.4 per cent in the case of boots and shoes. The Easter demand probably explains the heavy increase in March sales of boots and shoes. Decreases for these four lines as compared with March, 1920, ranged from 23.9 per cent in the case of groceries to 38.3 per cent in the case of dry goods. In all these cases the drop in the value of sales is probably entirely accounted for by lower prices and in some cases the amount of sales, if measured in physical units, would undeniably be greater. In district No. 6 (Atlanta) the four reporting lines, groceries (10 firms), dry goods (13 firms), hardware (8 firms), and boots and shoes (7 firms), all reported increases in March sales as compared with February ranging from 6 per cent in hardware to 72.6 per cent in the case of boots and shoes. The last named heavy increase was no doubt in great part seasonal. Decreases in sales as compared with a year ago varied from 33.6 per cent in the case of groceries to 45.6 per cent in the case of hardware. Wholesalers in district No. 7 (Chicago) report very cautious buying. Grocery sales were 25 per cent below the level of a year ago, with 22 firms reporting, a drop very close to the percentage reduction in sales of the 50 concerns reporting in district No. 3 (Philadelphia). The dry goods trade (13 firms) reported a decrease of 35.9 per cent for March as compared with a year ago, while the sales of 10 shoe wholesalers were 31.6 per cent below March, 1920, but 20 per cent above sales for the preceding month. Grocery sales in district No. 10 (Kansas City), with 4 firms reporting, increased 19.5 per cent during the month, while they were 22.7 per cent below the totals of a year ago. The very heavy increase in hardware sales of 65.5 per cent (3 firms) as | the same month a year ago was 1.5 per cent, compared with February is no doubt attribu- in district No. 3 (Philadelphia) 1.8 per cent, table to the seasonal demand of a largely and in district No. 5 (Richmond) 2.7 per cent.

below those of March, 1920. District No. 11 (Dallas), in contradistinction to other sections, does not show the same tendency toward a revival of wholesale trade. Returns from 2 concerns selling hardware and 2 selling farm implements record declines of 29.3 per cent and 18.4 per cent, respectively, in sales as compared with the preceding month. Grocery sales (4 firms) which elsewhere show a decided increase are 0.7 per cent below February volume and dry goods sales (4 firms), although 16.1 per cent greater in March than in February, have not advanced as greatly as in most of the other districts. All dealers, it is said, report that the buying demand is light, conservatism is the outstanding feature with the trade, and dealers are reluctant to place orders in very large amounts for future delivery. In district No. 12 (San Francisco) all reporting lines have increased sales as compared with the month of February. As in other districts, the increase in shoe sales has been very heavy, averaging 68.4 per cent for 15 firms. Grocery sales (30 firms), dry goods (11 firms), and hardware (23 firms) increased 20.9 per cent, 28.5 per cent, and 33.9 per cent, respectively, over the preceding month. The declines as compared with a year ago were 16 per cent for shoes, 7.3 per cent for groceries, 29.1 per cent for dry goods, and 33.6 per cent for hardware. Given the decreases in wholesale prices, the declines probably do not indicate any shrinkage in the physical volume of trade in any of these reporting lines.

RETAIL TRADE.

The irregularity which has been noted in the retail trade situation for the past few months is still evident. Discrimination in favor of better quality of goods characterizes the attitude of the buying public. A representative view of the situation is stated by district No. 3 (Philadelphia): "Purchasers are exceptionally careful in their shopping and retailers have found that sales to a certain class of trade can be effected more easily by stressing the quality factor rather than the There has been a seasonal increase in sales, due to the opening of spring and the pre-Easter shopping, but the increase has not been greater than a year ago. This is illustrated by the fact that the increase in net sales when compared with a year ago was less in March than in February. Thus in district No. 1 (Boston) the increase in net sales over agricultural district. Sales were 34.3 per cent | In the middle western districts decreases in net sales were prominent. In district No. 8 (St. Louis) there was a decrease of 0.7 per cent, in district No. 9 (Minneapolis) 11.2 per cent, and in district No. 11 (Dallas) 16 per cent. There was the usual seasonal increase in stocks but the amount on hand was considerably smaller in every district than a year ago. The rapidity of stock turnover has been increasing. The outstanding orders at the close of March remained practically constant, which indicated that the merchants are not placing orders to any great extent. District No. 3 (Philadelphia) states that "retail store managers continue to keep close watch of their buyers, limiting them to practically hand to mouth purchases."

PRICES.

Extreme unevenness as regards price reductions is one of the striking features of the present industrial situation. Prewar prices or something approaching them exist in many important lines of wholesale trade, while at the same time in other lines commodities are being sold at twice or even more than twice 1913 values. The same unevenness exists in some cases between the prices of raw materials and finished goods in the same industry. In the case of raw cotton, for instance, both Egyptian and American, the present level is lower than the average for the year 1913. Although certain grades of South American wool are below the 1913 average, wool prices as a whole appear to be still about a third higher than before the war. Finished materials in these two lines, however, have not been reduced as much as the raw materials. An average of three leading grades of cotton goods shows present prices to be at least 20 per cent higher than before the war, and a woolen cloth of a standard type is now selling at approximately twice as much as in 1913. The discrepancy between the prices of raw and manufactured goods in the hide and leather industry is even more extreme than in the cotton and wool industries. An average of leading grades of domestic and foreign skins shows the present level of prices to be approximately one-third under the prewar level. Shoe prices, on the other hand, would seem to be about twice as high as in 1913.

Except in the case of wheat and rye, prices of leading cereals closely approach prewar levels. In spite of this, however, the trend of the market has recently been continually downward. Prices of live stock and meats, on the other hand, although at a level at least 10 per cent above months the raw materials index number has

prewar prices (and in some cases more), have been showing considerable strength during re-cent months. There has, however, recently been a downward movement in some of the meat products. Another group of commodities which are at or below prewar price levels are the leading nonferrous metals, such as copper, zinc, lead, and tin. In 1913 electrolytic copper sold at an average of $15\frac{1}{2}$ cents a pound. Recent quotations are at 12 to $12\frac{1}{2}$ cents a pound. Zinc and tin are also below the prewar price, and lead is at approximately the same point as in 1913. Nevertheless, this group of industries is in a highly disorganized condition and production has been heavily curtailed.

In a large group of important industries, on the other hand, prices are still from 50 to 100 per cent above prewar levels. This is true in spite of the fact that in a considerable number of cases price reductions have been made which appear sufficient to make a possible basis for trading. Most noteworthy in this group are the fuels and building materials. Bituminous coal in spite of considerable reductions now averages around 100 per cent above the prewar figure, and anthracite is at a similar ratio as compared with the 1913 level. Coke also appears to be about twice as high as before the war, while iron and steel prices (taking into consideration the United States Steel Corporation reductions) are between 50 and 75 per cent above the 1913 average. Crude petroleum and petroleum products are still more than twice the prewar price in spite of recent drastic reductions in the mid-continent fields.

In the same way lumber, brick, and cement are far above prewar levels. An average of three leading grades of lumber shows present prices at least 50 per cent higher than before the war, while brick and cement are between two and three times the 1913 level.

Although a study of the component parts of the price structure is essential to an understanding of the difficulties of the present situation, the movement of prices in general is of value also. The wide variations in the different parts of the system are thus eliminated in the average for prices as a whole. It should be remembered, however, where use is made of such an average, that it consists of widely diverse elements.

The all commodities index number, constructed by the board, shows a reduction of 3 per cent during March, while the rate of decline in January and February was 6 per cent, and that of December 9 per cent. During recent declined more rapidly than that for manufactured goods, the reduction since January amounting to 11 per cent in raw materials as compared with 5 per cent in consumers' goods. The all commodities index number now stands at 50 per cent above the 1913 average.

Retail prices of 43 articles of food were reduced only 1 per cent during March according to the index number of the Bureau of Labor Statistics. No statistics are available showing the reduction in the price of clothing or miscellaneous articles at retail.

SHIPPING.

More optimism regarding the outlook prevailed in shipping circles than for some months past. This was due more to the expectations aroused by a number of developments than to any change in the underlying situation. Among the events of the month was the continuance of the British coal strike, with a moderate expansion of the demand for charters of American coal-carrying ships for prompt delivery. Another encouraging feature of the freight market was the firmer tendency of rates in certain directions. The settlement of the rate war between the North Atlantic-United Kingdom Conference and the French Line, which had been waged since last fall, helped to give tone to the ocean freight market. The decision of the Shipping Board to charter its vessels in future on the bare-boat plan was regarded by operators as opening up possibilities for cheaper operation of vessels. The wage situation remains unsettled, the calling of a strike by the marine engineers at New York for the 1st of May being the outstanding development to-ward the end of April. The Division of Operations of the Shipping Board stated that, on April 5, 653 steel ships of 4,279,581 deadweight tons were either already idle or had been ordered withdrawn from service until conditions improve. That number constitutes 46 per cent of the Government-owned steel merchant ships. The shipbuilding situation remains unchanged, with yards merely completing orders already on hand, no new tonnage of any size having been booked by American yards so far this year. The recent cut in steel prices has not been sufficient to affect shipbuilding favorably. Of the Shipping Board's building program, 44 steel vessels of 489,150 deadweight tons remain to be delivered, all of which are now under construction. According to present plans, the last of these will be completed and delivered about April, 1922.

CHANGES IN WAGES.

The Federal Reserve Board, in connection with its usual monthly business survey, has undertaken to secure information throwing light upon wage conditions. With a view to ascertaining the extent to which the fall in general prices has been accompanied by reductions in rates of wages, the 12 Federal Reserve Banks at the request of the Board addressed inquiries to representative employers engaged in typical industries within the several districts, asking for data concerning changes in wages and employment. Returns have been secured relating to the number of workers and the amounts of the weekly pay rolls on dates nearest April 1, 1920, and April 1, 1921, respectively. An endeavor has also been made to obtain reliable estimates of average percentage reductions in wage rates by industries, to find out whether such reductions have been made uniformly applicable to all employees of reporting establishments, and if not, what have been the variations in the percentages of reduction and how different groups or classes of workers have been affected. The fact that the inquiry has been conducted by each Federal Reserve Bank for its own district will also throw light on the varying extent to which workers in different sections of the country have been affected by the reductions that have been instituted.

It should be noted that the results presented in this survey are not such as can be subjected to detailed analysis or precise comparisons. It is difficult and often impossible to secure a grouping or classification of industries that will serve for all districts. In some parts of the country it is practicable and desirable to present returns by highly specialized sub-divisions of an industry, while in other sections more comprehensive groupings are necessary. Moreover, the replies concerning the amount and the extent of wage decreases do not lend themselves readily to a systematic summary, and any attempt to differentiate between skilled and unskilled labor or to define the terms in a way that would be acceptable for all industries would be a fruitless task leading to endless controversial discussion. The terms have therefore been used uncritically on the assumption that they have a fairly definite connotation when applied to specific industries. Despite these strictures, it is believed that the

¹ It should be noted that the data which have been assembled show only changes in employment in establishments which have reported; they should not be taken as indicating the general state of unemployment.

scope of the inquiry and the amount of the detailed information obtained from the questionnaires sent out present abundant evidence to support the generalizations which follow.

The inquiry covers establishments reporting 1,303,792 employees on the pay roll on date nearest April 1, 1921, with a total weekly pay roll of \$36,726,380.

The table given below shows for all reporting establishments, by districts, the number of employees covered by the inquiry and the total amounts of the weekly payroll for specified dates in 1920 and 1921, respectively. In every district the reporting establishments record decreases in numbers employed as comto 52.5 per cent in district No. 10 (Kansas tablishments have curtailed working hours.

City). In all but three districts the shrinkage in the amount of the pay roll has been per-centually even greater than the reduction in numbers employed. In district No. 12 (San Francisco), however, the amount of the pay roll increased 5.3 per cent and in districts No. 2 (New York) and No. 11 (Dallas) the decreases have been less than the percentage drop in numbers of employees. The percentage re-duction in numbers employed for the country as a whole was 25 per cent and the reduction in the amounts of the weekly pay roll was 29.8 per cent. It is fairly apparent, therefore, that very general reductions in rates of wages have occurred, although the sharper percentual drop pared with the preceding year, ranging from in the amount of the pay roll would be par-6.2 per cent in district No. 12 (San Francisco) tially accounted for by the fact that some es-

Number of Employees and Amount of Pay Roll for Representative Establishments in 1920 and 1921.

Federal Reserve district.	employees on pay roll, date nearest	Number of employees on pay roll, date nearest Apr. 1, 1921.	decrease in number	pay roll for week end-	ing on date nearest	decrease	decrease in average
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	372, 416 140, 101 203, 061 61, 284 20, 075 343, 544 47, 563 33, 917 31, 347 7, 582	318, 973 305, 152 107, 625 114, 078 47, 784 12, 907 230, 681 37, 140 23, 846 14, 887 6, 307 84, 412	17. 5 18. 1 23. 2 43. 8 22. 0 35. 7 32. 9 21. 9 29. 7 52. 5 16. 8 6. 2	\$11, 037, 818 10, 824, 000 4, 069, 574 6, 994, 400 1, 588, 993 497, 472 11, 558, 620 1, 049, 195 976, 971 641, 565 170, 839 2, 877, 016	\$8, 539, 997 8, 912, 400 2, 675, 494 3, 213, 877 1, 019, 434 242, 913 7, 339, 275 675, 142 646, 981 279, 243 151, 210 3, 030, 414	22. 6 17. 7 34. 3 54. 1 35. 8 51. 2 36. 5 33. 8 56. 5 11. 5 15. 3	6.2 10.5 14.4 18.2 17.7 24.1 5.5 17.6 5.8 8.4 16.4
Total	1, 737, 717	1, 303, 792	25, 0	52, 286, 463	36, 726, 380	29.8	6.4

¹ Increase.

Note.—The totals given in the table will not in all cases correspond with those published for the several Federal Reserve districts, as in some cases supplementary returns were received too late to be incorporated in the general report. In one instance, returns received directly have been added to totals obtained from the district. A certain amount of reclassification of industrial groups has also been undertaken for the purpose of securing greater uniformity in the general report.

percentage reduction in average weekly pay per employee for the establishments included in the study. It will be seen that in districts No. 11 (Dallas) and No. 12 (San Francisco) there has been an increase in the average compensation of employees—in the former of 6.4 per cent and in the latter of 12.3 per cent. Such increases are not inconsistent with the decreases in employment of 16.8 and 6.2 per cent, respectively, even though no increases in rates of pay may have occurred. They may

The last column in the table indicates the merely represent the higher average earning capacity of those retained in service. In district No. 2 (New York) also there was a slight increase in the average pay per employee. In all other districts material reductions are noted, ranging from 5.5 per cent in district No. 7 (Chicago) to 24.1 per cent in district No. 6 (Atlanta).

Another table showing the changes in employment and in amount of pay roll, by the principal industries, follows.

NUMBER OF EMPLOYEES AND AMOUNT OF PAY ROLL IN REPRESENTATIVE ESTABLISHMENTS, BY INDUSTRIES, IN APRIL, 1920 AND 1921.

	Number of	employees o	on pay roll.	Amount of pay roll.			Per cent
Industry.	1920	1921	Per cent of decrease.	1920	1921	Per cent of decrease.	in average pay per employee.
Cotton textiles Woolen textiles Silk textiles Clothing Boots and shoes Lumber Building materials Building construction Paper Meat packing Iron and steel Automobiles Farm machinery Electrical goods Copper Oil. Rubber Printing Chemicals Shipbuilding Tobacco manufacture Public utilities	26, 727 13, 026 43, 208 59, 103 20, 870 21, 305 21, 305 26, 889 83, 166 168, 751 84, 845 21, 558 50, 588 26, 980 22, 643 57, 711 14, 202 12, 813 32, 453	88, 884 23, 784 11, 683 33, 417 45, 950 15, 063 14, 028 8, 456 24, 261 64, 532 98, 785 33, 027 13, 555 37, 164 16, 640 20, 798 12, 590 9, 200 28, 564 24, 282 24, 282 300, 360	18. 2 11. 0 10. 4 22. 3 27. 8 33. 4 60. 4 9. 8 22. 4 41.5. 2 26. 5 55. 2 26. 5 38. 3 1 3. 0 64. 0 11. 4 28. 2 12. 0 18. 6	\$2,699,798 772,745 317,697 1,462,219 1,644,093 638,977 697,185 471,246 705,259 2,280,350 6,019,819 3,085,754 858,958 1,557,510 888,378 803,384 1,646,346 479,738 465,055 1,005,161 531,629 10,551,038	\$1, 819, 749 609, 972 268, 117 975, 287 1, 248, 072 371, 381 416, 665 211, 481 550, 120 1, 774, 035 2, 714, 773 1, 135, 616 477, 969 1, 062, 521 441, 762 238, 081 1, 038, 729 313, 789 313, 789 10, 646, 294	32.6 21.1 15.6 33.4 24.1 41.9 40.2 55.1 22.0 22.2 54.9 63.2 44.4 7.9 49.0 121.5 78.4 7.9 48.8 13.3 41.0	17.5 11.3 5.9 13.7 2.4 19.5 10.3 13.1 13.5 10.3 23.0 17.9 11.4 7.1 17.3 17.3 40.0 13.8 40.0 13.8 28.7

¹ Increase.

made in all the industries included in the tabulation, except oil, the reduction being smallest (6.4 per cent) for public utilities and largest (64 per cent) for the rubber industry. Among the highest percentages of reduction in employment shown are those for the automobile industry (55.2 per cent), for building construction (60.4 per cent), and for iron and steel (41.5 per cent.) Even larger reductions are shown in the aggregate amount of pay roll for all industries, with the exception of building construction, printing, shipbuilding, meat packing, and public utilities. The percentage of decrease in average earnings per employee varies from 2.4 per cent in the boot and shoe industry to 40 per cent in the rubber industry. Iron and steel, with a 23 per cent reduction, tobacco manufacturing with a 27.5 per cent reduction, and chemicals with a 28.7 per cent reduction, are among the industries showing the largest cuts in average weekly earnings. Six industries, on the other hand, show increases in average earnings per employee, which varies from 0.3 per cent for meat packing to 17.8 per cent for oil.

The general tables given above throw no light on the extent of the rate reductions that have occurred, nor on variations in the percentages of those reductions. For this reason a more detailed presentation of the returns for certain principal industries within the 12 Federal Reserve districts is offered below. This review does not, however, cover all the material | there has been no change in rates of wages available, which will be presented with a greater | during the year.

Reductions in the number on the pay roll were degree of elaboration in the reports of the individual Federal Reserve Banks.

DISTRICT NO. 1-BOSTON.

Data for important industries in district No. 1 (Boston) follow:

		ber of oyees.	Weekly	pay roll.	Per- centage of de-	centage
Industry. Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.	crease in num- ber em- ployed.	of de- crease in pay roll.	
Cotton textiles Textiles: Miscella-	90, 041	76, 649	\$2, 292, 648	\$1,541,457	14.9	32. 8
neous	10,940	8,208	256,018	139,909	25.0	45.4
Finishing.	10,578	11,470	244, 793	224, 333	18.4	8.4
Woolen goods. Boots and	12,707	11,857	422,647	324, 715	6.7	23. 2
shoes Electrical	23, 093	15, 128	634,715	445,620	34. 5	29.8
goods Machines and	19, 883	15, 177	579, 557	384, 430	23.7	33. 7
tools	18, 581	10,979	567,686	264, 125	40.9	53, 5
Pulp and pa- per	15,911	14,519	395, 924	305,744	8.7	22.8
Public utilities	119, 305	107, 253	3, 935, 824	3, 829, 763	10, 1	2.7

¹ Increase; strike conditions prevailed a year ago.

In the textile industry there has been a practically uniform reduction of 22.5 per cent in wages within recent months, but in some cases this decrease had been preceded by an increase of about 15 per cent granted last June, so that for some establishments the net reduction for the year is slightly less than 11 per cent. In the boot and shoe industry

With the exception of the cases already noted, it is difficult to make any generaliza-tions concerning the character of the wage cuts which have been put into effect by the various reporting industries. There has been very little uniformity in these reductions, but it is safe to say that with few exceptions it is generally true throughout the country that the heaviest decreases in wage rates have been experienced by unskilled or "common" laborers.

DISTRICT NO. 2-NEW YORK.

In district No. 2 (New York) the following reporting industries have been selected for especial comment:

Industry.	Num emple		Weekly	pay roll.	Per- centage of de-	of de-
	Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.	crease in num- ber em- ployed.	
Clothing	11,926	10, 154	\$289,700	\$248,700	14.9	14. 1
Silk	8,906	7,989	212,600	176, 200	10.3	17.1
Automobiles	11,519	7,694	326, 100	248,700	33. 2	23.7
Boots and shoes	30,885	26, 105	864,800	678,300	15.5	21.6
Printing and publishing Miscellaneous	6,592	5,997	241,000	232,800	9.0	3. 4
metal manufac- turers Shipbuilding and	67,560	64,200	2,091,200	2,053,000	5.0	1.8
repairs	12,982	6,645	412,900	220,700	48.8	46.5
	108,334	99,160	3,565,000	3,447,000	8.4	3. 3

Returns were received from 137 establishments, and of this number 55 per cent had made reductions in wages since April 1, 1920, and nearly 80 per cent of those reporting said that reductions had been made on a uniform basis. When this was not the case, unskilled workers had generally been the group subjected to the greatest decrease. As in district No. 1 (Boston) no reductions have been made in the wages of the boot and shoe operatives employed by the nine reporting manufacturers. Four railroad and transportation companies similarly report no reduction in wage rates and only one of seven other public utility corporations reported reductions. In the lastnamed case the average decrease was about 9 per cent. But two of the 11 reporting clothing manufacturers stated that wage rates had been reduced, the average decrease being about 9 per cent. As employees within the groups just mentioned have scarcely been affected by wage reductions (while increases have occurred in wages of railway and transport workers) and as these groups constitute a very large percentage of the total number of workers covered by the inquiry in district No. 2 (New York), it is not surprising that the per-

shown in the general table does not decline as sharply as numbers employed.

Thirty-seven of the 48 miscellaneous metal manufacturing concerns stated that there had been reductions in wage rates and in 22 cases these reductions were uniform. The average amount of the cut was 13 per cent for all 37 concerns. Two of the four automobile concerns reported a uniform reduction in wage rates averaging 11 per cent. Three of the seven reporting silk manufacturers had also made uniform reductions amounting to 12 per cent in rates of wages. Four of the six concerns in the group shipbuilding and repairs said that there had been uniform reductions averaging 11 per cent. In only one of the six printing and publishing firms had there been a reduction averaging about 12 per cent. In general the decreases reported appear not to have been so extreme as in other sections of the country.

DISTRICT NO. 3-PHILADELPHIA.

In district No. 3 (Philadelphia) returns have been tabulated for the following important industries:

		ber of oyees.	Weekly 1	oay roll.	Per centage of de- crease	Per- centage of de-
Industry.	Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.	in num- bers em- ployed.	
Iron and steel Cotton textiles. Woolen textiles. Silk textiles. Knit goods. Leather and leather goods. Boots and shoes. Printing and publishing. Public utilities.	58, 531 5, 613 6, 310 4, 120 1, 858 7, 409 3, 785 6, 329 10, 576	39, 558 5, 170 5, 386 3, 694 1, 067 4, 285 3, 533 5, 401 10, 708	\$1, 798, 999 141, 063 153, 604 105, 097 47, 703 208, 876 92, 123 179, 705 383, 284	\$924, 581 126, 545 127, 372 91, 917 22, 506 101, 690 84, 595 150, 776 370, 851	32. 4 7. 9 14. 6 10. 3 42. 6 42. 2 6. 7 14, 7 11. 2	48.6 10.3 17.1 12.5 52.8 51.3 8.2 16.1 3.2

1 Increase.

Of the 96 reporting iron and steel companies, 91 stated that there had been reductions in rates of wages. The average reduction both for skilled and unskilled workers ranged from about 5 to 25 or 26 per cent. In cotton textiles the wage reductions have affected skilled and unskilled workers in about the same degree, the per cent of reductions ranging from about 16 to 21 per cent. This was true in the case of woolen textiles also, but the reductions were somewhat less in the case of skilled workers. In silk textiles the reduction ranged from about 12 to 15 per cent and there has been slight differentiation between the treatment of the skilled and unskilled workers. Six out of centage of reduction in weekly pay rells as eight reporting knit goods establishments stated that there had been reductions of 15 per cent applicable to both skilled and unskilled workers. Only four of the 23 reporting shoe firms had put into effect reduced rates for unskilled workers ranging from 9 to 11 per cent. Three of these had reduced the wages of skilled workers 14 to 16 per cent. Of the 22 leather firms five reported no reduction in the wages of unskilled workers and six reported no reduction in the wages of skilled workers. In the other cases average reductions for both skilled and unskilled workers ranged from 10 to 25 per cent. The 21 printing and publishing establishments without exception reported that there had been no change in wage rates to date. Ten of the 36 reporting public utility companies had reduced the wages of unskilled labor about 18 per cent, but only three companies announced reductions in the rates paid to skilled workers.

DISTRICT NO. 4-CLEVELAND.

For district No. 4 (Cleveland) the following are the principal industries for which reports have been received:

		Weekly	pay roll.	Per- centage of de-	Per- centage
Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.		of de- crease in pay roll.
14,071 31,557	16, 391 13, 614	\$436, 796 1, 568, 007	\$366,015 523,773	1 16. 4 56. 9	16. 2 66. 6
27, 686 47, 245 25, 323 5, 532	20, 821 13, 542 9, 085 5, 399	868, 321 1, 362, 264 861, 385 148, 850	647, 991 293, 268 204, 632 161, 947	24. 8 71. 3 64. 1 2. 4	25.3 78.5 76.3 18.8
	Apr. 1, 1920. 14, 071 31, 557 27, 686 47, 245 25, 323	1920. 1921. 14,071 16,391 31,557 13,614 27,686 20,821 47,245 13,542 25,323 9,085	Apr. 1, Apr. 1, 1920. 14, 071 16, 391 1, 568, 007 27, 686 20, 821 868, 321 47, 245 13, 542 13, 562, 264 25, 323 9, 085	Apr. 1, Apr. 1, Apr. 1, 1920. 1921. 1921. 1920. 1921. 1921. 1920. 1921. 1921. 1920. 1921. 1, 568, 007 523, 773 27, 686 20, 821 868, 321 647, 991 47, 245 13, 542 13, 542, 264 293, 268 25, 323 9, 085 861, 385 204, 632	employees. Weekly pay roll. Apr. 1, Apr. 1, 1920. 1921. Apr. 1, 1920. 1921. 1921. 1921. 1921. 1921. 1921. 116.4 31,557 13,614 1,568,007 523,773 56.9 27,686 20,821 868,321 647,991 24.8 47,245 13,542 13,342 264 293,268 71.3 25,323 9,985 861,385 204,632 64.1

¹ Increase.

There was a very general reduction in wage rates made by independent steel mills during February and March, which amounted to about 20 per cent and affected all classes of workers. The Steel Corporation, however, made no changes in wage scales in its plants. The report from district No. 4 (Cleveland) states that, among the lines covered by the survey, pay rolls in four reporting lines—namely, manufacturers of women's clothing, pottery, public utilities and construction com-This panies—show increases in rates of pay. is due to the fact that these industries are working under wage agreements negotiated during the spring and summer months and generally covering a period of a year. Otherwise decreases in rates of wages have been quite general, although there has been no uniformity either as regards the nature of the mately 41 per cent, while the wages of skilled

business, the classes of workers affected, or localities. The only generalization that can safely be made is that "common" labor has as elsewhere had its wages reduced in greater degree than skilled labor. In the case of six rubber companies, whose records show a drop of 71.3 per cent, in number employed, general wage reductions have taken place in practically all shops, running from 7.5 to 50 per cent and averaging around 24 to 26 per cent. Practice has been by no means uniform, however, in the case of the five reporting automobile factories. Reductions of wage schedules ranging from 10 to 30 per cent have occurred in some factories, while in other cases no changes have been made. Contrary to the usual policy, the least reduction had been made in the pay of ``common" labor.

The reductions in wages paid by reporting establishments in the southern districts have been decidedly more far-reaching than in other parts of the country, and the cuts in the rates paid to "common" or unskilled labor have been especially severe.

DISTRICT NO. 5-RICHMOND.

The industries selected for detailed examination in district No. 5 (Richmond) are given below:

		ber of oyees.		ly pay 11.	Per cent- age of	Per-	
Industry.	Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.	de- crease in number em- ployed.	age of de- crease in pay roll.	
Cotton textiles Building and con-	6,091	5, 267	\$120,816	\$ 68, 433	13.6	43. 4	
struction Fertilizer manufac-	4, 201	1,880	77, 358	32,766	55. 2	57. 7	
turersLumber manufactur-	3,035	2,212	63, 301	28, 776	27.1	54.6	
ers	2,002	1,755	43,035	24,056	12, 3	44.1	
Glass factories	2,270	1,818	65, 092	53, 146	19.9	18.4	
Boots and shoes	1,340	1,184	52, 455	39, 557	11.6	24.6	
Coal companies	4,986	4, 274	253, 412	215, 146	14.3	15. 1	

The fall in rates paid by four reporting cotton mills has been general and has averaged about 37.4 per cent, rising to 45 per cent for some workers in one establishment. All but one of eight building and construction companies reported decreases ranging from 10 to 50 per cent. In two cases extreme cuts of 50 per cent were stated to apply to "common labor." The returns from the seven fertilizer manufacturers show drastic cuts in the wages of the unskilled workers who form the bulk of the employees. The reductions were approxiemployees had not been reduced more than 16 to 20 per cent. Five lumber manufacturers reported that the rates of wages paid to skilled workers had been reduced 10 to 15 per cent, while the unskilled workers had dropped about 40 per cent and in extreme cases 50 per cent. Of the six glass factories three reported no reduction; one a 10 per cent reduction for unskilled labor; another, 15 per cent for young people; another, 20 per cent for unskilled and 10 per cent for skilled workers. No reductions are reported by three coal companies, and two boot and shoe manufacturers have likewise maintained the same scale of wages.

DISTRICT NO. 6-ATLANTA.

The selected list of reporting industries for district No. 6 (Atlanta) follows:

		ber of oyees.	Week ro	ly pay	Per- centage of de-	of de-	
Industry.	Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.	crease in num- ber em- ployed.	crease in pay roll.	
Cotton textiles	4,110 1,197 3,622	1,279		15,544	16.9	26. 1	

¹ Increase.

As in district No. 5 (Richmond), reductions in wage rates by cotton mills have been extensive, amounting in one case to 34 per cent as a result of three recent reductions. In another instance, a uniform reduction of 37.5 per cent has been put into effect; in two other cases reductions of 20 per cent have been made; and in a third instance one of 25 per cent. These changes applied to all classes of help except in one mill, which stated that skilled hands had been reduced only 10 per cent. New wage schedules recently instituted by reporting lumber companies provide for reductions of 30 to 40 per cent for unskilled labor. Six street railway and electrical companies stated that there had been some reduction made in wages of trackmen and unskilled labor.

DISTRICT NO. 7—CHICAGO.

A compilation of the data relating to some varying from 10 to 25 per cent. Sixteen of the of the more important industries covered by 26 reporting public utility companies state that

the report from district No. 7 (Chicago) is included in the following table:

	Num emple	ber of byees.	Weekly p	oay roll.	Per- centage of de-	Per- centage of de-	
Industry.	Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.	crease in num- ber em- ployed.	crease	
Automobiles and							
accessories	48,003	21,248	\$1,898,269	\$ 682, 284	55, 7	64.1	
Chemicals, paints, and soap	9,934	5,499	299,095	142,855	44.6	52.2	
Clothing	21, 251	15,781	795,059	540,673	25.7		
Coal mining	4,388		202, 484	160,706			
Contractors and) ′	1 1	,				
builders	11,962	3,580	261,354	96,691	70.1	63.0	
Iron, steel, and						F0 0	
brass	18,202	9,882	722,572	3 55, 7 75	45.7	50.8	
Lumber and mill workers	10,117	7,396	328,036	196,922	26.9	40.0	
Farm implements		1,000	020,000	100,022	20.3	10.0	
and equipment.	19,872	12,222	814,701	449, 390	38,5	44.8	
Packers	78, 874		2, 172, 257	1,706,298			
Public utility	30,651	29, 201	1,082,340	1,201,916		1 16.4	

¹Increase.

In the case of the concerns manufacturing automobiles and accessories a majority of the establishments report that all grades of workers have been equally affected by percentage reductions, which range from 7 to 25 per cent, according to establishments. Sixteen of the 19 clothing concerns making reports state that there has been no decrease in the rates of wages paid. In a limited number of other instances decreases have ranged from 5 to 20 per cent. Of the 61 concerns manufacturing iron and steel and brass, 19 report no decrease in wage rates. The others record decreases ranging from 5 to 20 per cent. No generalization regarding the class of workers affected is possible, as in some cases reductions have been confined to the skilled and in other instances applied to the unskilled. Manufacturers of farm implements and equipment report no decrease in wage rates in 16 out of 84 cases. In other instances decreases range from 5 to 25 per cent. As a rule reductions have been uniform within establishments. Where differences exist, however, the reduction in the rates paid to common laborers has been greater. Three of the 17 reporting packers state that there have been no decreases in wage rates. In the other cases reductions have varied from 8 to 15 per cent. Contractors and builders report decreases for 21 out of 31 reporting firms, the decreases varying from 10 to 25 per cent. Sixteen of the there has been no reduction in wage rates. In the other instances decreases have varied from 17 to 30 per cent. Reductions have been largely confined to trackmen and "common" laborers.

DISTRICT NO. 8-ST. LOUIS.

A table showing changes in numbers employed and in pay roll for specified industries in district No. 8 (St. Louis) follows:

Industry.	Number of employees.		Weekly	pay roll.	Per- centage of de-	Per- centage of de-
	Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.	crease in num- ber em- ployed.	crease in pay roll.
			<u> </u>			
Wholesale hardware.	3.094	2,553	\$117,051	\$111, 229	17.5	5.0
Stove manufacturing		1,211	88, 322	24, 589	55.3	72. 2
Building materials	2,350	1,208	63, 421	28, 886	48.6	54. 5
Chemicals, paints, etc Clothing and dry	1,695	1,154	36, 29 3	27, 522	31.9	24, 2
goods	4.084	3,320	94, 447	81,013	18.7	14.2
Printing.	1,524	1, 181	50, 338	39, 422	22.5	21.7
Iron and steel prod-	1,021	1, 101	00,000	05, 122	22.0	
ucts	5,971	4,295	150,726	94,070	28.1	37.6
Public utilities	7,417	7, 590	261, 611	296, 222	1 2.3	1 13. 2

¹ Increase.

On the whole, reductions in wages have not been so numerous nor so great in district No. 8 (St. Louis) as in the sections to the south and east, and where reductions have occurred the skilled labor has not been affected in very many instances. Only "common" labor was affected by reduction in wage rates made by six of the seven reporting concerns engaged in the production of building materials. Cuts varied from 10 to 50 per cent, covering all workers. Only one of six reporting stove manufacturing concerns reported a reduction in rates. For wholesale hardware establishments no reduction in wage rates are recorded, although one is in prospect. Of the 14 establishments engaged in the manufacture of iron and steel products nine report no changes in wage rates, while, in the case of the others, decreases range from 8 to 25 per cent. About two-thirds of the workers covered by reports from clothing and dry goods houses had had their rates of wages decreased 10 per cent. In the other cases no change had been made. Manufacturers of chemicals and paint announce no reduction except in one instance, where a 10 per cent drop was made.

DISTRICT NO. 9-MINNEAPOLIS.

Details for a group of the leading reporting industries in district No. 9 (Minneapolis) are given in the accompanying table:

	Number of employees.		Weekly pay roll.		Per- centage of de-	Per- centage
Industry.	Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.	crease	
Knit goods	3, 520 14, 828 6, 058		501,632	\$54, 104 229, 296 220, 198	8.3 41.9 3.2	8.7 54.3 1 9.0

¹ Increase.

The greatest reduction in wage rates occurred in the case of construction companies, which showed reductions of 20 to 30 per cent. Reductions varying from 15 to 20 per cent were made by mining and milling companies. Two out of three public utility companies reported increases in wage rates, in one case amounting to 10 per cent.

DISTRICT NO. 10-KANSAS CITY.

The table which follows gives returns in some detail for the principal mining industries of district No. 10 (Kansas City) and for the packing industry:

Industry.	Number of employees.		Weekly pay roll.		Per-	Per-
	Apr. 1, 1920.	Apr. 1, 1921.	Apr. 1, 1920.	Apr. 1, 1921.	age of de- crease in num- ber em- ployed.	cent- age of de- crease in pay roll.
Lead and zinc Smelting Meat packing	8, 900 6, 413 4, 292	2,780 3,591 3,016	\$267,000 210,827 108,093	\$58,380 107,458 67,737	68. 7 44. 0 29. 7	78. 1 49. 0 37. 3

The decreases in rates of wages paid to lead and zinc miners have been especially severe, being approximately 33½ per cent to date. Wage reductions have been uniform, but where outside labor enters, as carpenters, bricklayers, and machinists, the extent of the reduction is not shown in the reports. In the Colorado metal mines, for which more specific data are not obtainable, it is estimated that only about 4,000 men are employed, as compared with a normal number of 10,000. No exact figures as to the number of men employed in the smelters are available at this time, but it is known that the smelters are running at a very much reduced capacity and a number are shut down entirely. The minimum wage per day at the mines is now as

follows: Leadville, \$4; Cripple Creek, \$3.50;

Silverton, \$4.25; Teluride, \$4.

The wages for more skilled men run up to \$1 and \$1.50 more than the minimum. These figures represent a flat 50-cent reduction since the first of the year. In the smelters the minimum wage is \$3 and the maximum \$5.55. It represents a cut of 10 to 15 per cent since the first of the year. It is stated that efforts to readjust the situation in meat-packing houses at packing centers of this district have resulted in a reduction of approximately 30 per cent in the number of employees at these plants within the year. There are probably now about 35,000 employees at the larger plants in the six packing cities of Kansas City, Oklahoma City, Omaha, St. Joseph, Denver, and Wichita, compared with approximately 50,000 employees on April 1, 1920. On March 14 of this year there was inaugurated a reduction of 8 cents per hour for all hourly workers and 12½ per cent on piece work. The scale is now in force, although the employees have made an appeal to the United States Labor Department. In the bituminous coal field there has been no reduction of wages, as the contract between the United Mine Workers' Organization and the Southwest Interstate Coal Operators' Association does not expire until April 1, 1921. On April 1, 1920, the number of men employed in the four States was approximately 32,000, and it is assumed that the number on the pay rolls on April 1, 1921, closely approximates this number, although the mines are being operated at less than one-half capacity this year, whereas a year ago they were operated at more than three-fourths full capacity.

DISTRICT NO. 11-DALLAS.

Twenty-eight replies to questionnaires sent to different counties in the State of Texas making inquiry concerning changes which had been made in the wages of farm labor were received. Of these, 17 report reductions of 50 per cent in rates; 7 report a 35 per cent reduction, and 4 a reduction of 25 per cent. Twelve building contractors reported that there had been a reduction in the wages of nonunion skilled mechanics of about 10 per cent, while the wages of unskilled workers had fallen about 25 per cent. There had been no reduction in the scale of wages paid to union labor.

DISTRICT NO. 12-SAN FRANCISCO.

Returns from district No. 12 (San Francisco) are as follows for leading lines:

		ber of oyees.	Weekly	pay roll.	Percentage of decrease in number employed.	Percentage of decrease in pay roll.		
	April 1, 1920.	April 1, 1921.	April 1, 1920.	April 1, 1921.				
Copper mining Lumber Oil producing and refining Shipbuilding Public utilities	12, 152 7, 554 22, 428 19, 571 22, 205	8,033 4,633 23,096 21,919 24,006	\$386, 745 246, 880 784, 549 592, 261 663, 988	\$223, 751 134, 859 954, 826 818, 029 790, 548	33.9 38.7 13.0 112.0 18.1	42.1 45.4 121.7 138.1 119.1		

¹ Increase.

In district No. 12 (San Francisco) the situation is different from that prevailing in other parts of the country. Reporting establishments were employing 6.2 per cent fewer men than a year ago, as the number on the pay roll dropped from 89,977 to 84,412, but pay roll totals increased 5.3 per cent. The public utility companies report no reduction in the wages of regular employees. On the contrary, increases in rates have occurred during the year. Two companies state that lower rates are being paid for common labor. Similarly, steamship companies state that there has been no decrease in rates of wages paid to any class or grade of employees, and one firm employing 3,800 men had made an increase of \$2.50 per man per week due to premium rates. There was likewise no reduction in rates of wages paid by oil producers and refiners. As these groups of establishments represent a very large percentage of total returns, it is not surprisinn that the total weekly pay rolls should show an increase.

The lumber companies have all reduced wages in varying degrees, and as a rule the cuts have been considerable, rising to 35 or 40 per cent in some cases. Seven milling con-cerns also report reductions effective since January varying from 10 to 12.5 per cent and applicable to all employees. A number of miscellaneous unclassified establishments also stated that there had been reductions. Reports on wage schedules for ten copper mines show decreases of from 14.8 per cent to 22.1 per cent for miners, of from 8.3 per cent to 23.1 per cent for mechanics, and of from 10.5 per cent to

27 per cent for muckers (common labor). There have been decreases in all mines and for all classes of labor, but for common labor there have been greater percentage reductions in most cases than for skilled labor.

Acceptance Market.

The Federal Reserve Banks have furnished the following reports on the condition of the acceptance market in their respective districts

for the period prior to April 23:

District No. 2 (New York).—Ninety-day
bills of the large New York banks held firmly at 57 to 6 per cent during the last 10 days of March and until after the completion of April 1 payments. At that time there was a further easing of call money rates, which was reflected in the increased demand for bills. Some dealers reduced their offering rate for the best 90day bills to 5½ per cent, while others quoted 55 or 53. During the first three weeks of April the ruling rate fluctuated between these figures. with a tendency toward the end of the period to center on 55

Fluctuations in the volume of sales followed in the main the movements of money rates. During the second week of April, when rates were lower and there was a particularly active demand, dealers' portfolios were reduced sharply. But in later weeks sales were somewhat smaller and portfolios were built up to about the same amount as at the beginning of the month. Evidence of the further broadening of this market is found in a report by two dealers of the addition of 45 new buyers of bankers' acceptances to their lists within three weeks. This bank continues to add two or three members each week to the list of member banks for whom bills are purchased.

While bills drawn for the purpose of furnishing dollar exchange continue to predominate in the local market, there has been an increased proportion of both metal, grain, and packers' bills recently. The volume of sugar bills offered has fluctuated rather widely, but these, also, are in heavier volume now than a

month ago.

The minimum buying rate of the Federal Reserve Bank has remained unchanged at 5\frac{3}{4} to 6 per cent, according to maturity, for indorsed prime bills.

District No. 3 (Philadelphia).—Sales of bankers' acceptances in the Third Federal Re-

States certificates of indebtedness. As compared to last year, sales have been much

larger.

The supply of bills has decreased, but is ample for the requirements of the market. Factors in reducing the supply are the disposition of business firms to liquidate acceptances covering goods in warehouses and the lessening in import and export business. Latest reports of the Department of Commerce show that March exports totaled \$387,000,000 as compared to \$820,000,000 in the previous year, and imports totaled \$252,000,000 against \$524,000,000 last year.

Commercial banking institutions are the largest purchasers of acceptances, but it is stated that industrial and business corporations have purchased considerable amounts with the funds released by curtailment of their operations. Acceptance dealers complain of the State laws restricting investments of savings banks and insurance companies, as they feel that this class of paper furnishes an investment combining security and liquidity in a high degree. The purchases of the Federal Reserve Bank of Philadelphia have averaged \$2,741,000 weekly thus far in 1921, as compared to a weekly average of \$1,469,000 in 1920 and \$270,000 in 1919.

Inquiries among accepting banking institutions in Philadelphia show that during the month ending April 10, 11 of these institutions accepted bills aggregating \$4,561,000 as compared to \$5,321,000 in the previous month, a decline of 14 per cent. The total amount of their acceptances outstanding on April 10 was \$13,150,000; on March 10 the amount was \$14,095,000. Cotton, wool, silk, leather, and oil figure largely among the commodities cov-

ered by these acceptances.

Selling rates quoted by dealers operating in the district are given below, with comparative rates a month ago and a year ago:

	Eligi	ble mem bills.	bers'	Eligible nonmembers' bills.		
Maturity.	April, 1921.	March, 1921.	April, 1920.	April, 1921.		
30 days	5½-5½ 5½-5¾ 5½-5¾	55-53 53-53 53-6	55-53 53-57 57-6	58-53 53-57 53-57	53-6 53-63 53-61	53-57 57-6 57-61

District No. 4 (Cleveland).—The acceptance market for the month was spotty and the serve District during the first few weeks of rates fluctuating. Brokers were unable to April did not keep pace with the earlier months | maintain uniformity in rates and purchasers of the year. This is due in part to the fact that shopped wide for prime bills. The easing off many institutions preferred to invest in United and wide range of call money rates in New York and the zealousness of certain brokers in the open market to permanently force acceptance rates under the 6 per cent mark brought about a variance in selling rates of prime paper. Brokers differed in opinion as to whether the acceptance market should change with each indication of better money rates and conditions throughout the country and offered their bills accordingly.

A good variety of prime paper was offered in the market, in addition to the usual amount of corporation bills and other less-known paper, but was not absorbed as readily as last Many purchasers took less-known names as the rates for prime paper declined. The demand for corporation bills continued sluggish. Bills created against foreign transactions fell off, but there was a corresponding increase in domestic paper, due to seasonal The banks remained the principal demands. purchasers but there was also an increased demand by corporations and individuals. There was considerable increase in the turnover of paper over the previous month. The present rates for prime 90-day bills vary between $5\frac{3}{4}$ per cent and $5\frac{7}{8}$ per cent.

District No. 6 (Atlanta).—The acceptance market in the Sixth Federal Reserve District has been very inactive during the early months of this year. This is attributed to the inactive movement of commodities, particularly foreign shipments of cotton. Nowhere in the district have acceptances been executed to any great extent, except at New Orleans, which is the principal export city of the district, and there each succeeding month since December, 1920,

has shown a decline.

The amount of acceptances rediscounted by the Federal Reserve Bank of Atlanta for its member banks during March was slightly less than the amount for the month of February, and only approximately 30 per cent of the sum discounted during the month of January of this year. The total amount of acceptances discounted by the Federal Reserve Bank for its member banks during the first three months of 1921 was approximately 11 per cent of the amount rediscounted during the same months of 1920.

Export movements of cotton financed by the War Finance Corporation and the Federal International Banking Co. should materially strengthen the acceptance market in this district when cotton commences to move from

interior points to port cities.

Acceptances have never been used in this Federal Reserve district to any very great extent, although there is a growing tendency for their use during periods of crop movement.

District No. 7 (Chicago).—Improvement in the demand for acceptances is noted. Statistics for March over February showed increased sales. Most of this demand has been from the surburban and country banks. One of the largest dealers reported 80 per cent of the bills sold to be of 90-day maturity and the remainder divided between 30 and 60 day maturities. The acceptances sold by one bank showed 25 per cent of the acceptances drawn against grain, 25 per cent drawn against sugar, and the remainder against oil, machinery, tobacco, coffee, and cotton.

The March returns from three banks and one dealer show increase over February as follows: 26 per cent in amount of sales, 2 per cent in amount of purchases, and 9 per cent in amount held at the close of month. The figures for

these precentages are given below:

	Ma	rch.	Febr	uary.
Total bankers' acceptances bought during month Total bankers' acceptances sold during month Total bankers' acceptances held at close of month.	\$18,980,377 21,667,561 3,704,819		17,1	558, 189 182, 243 893, 617
	Ma	reh.	Febr	uary.
	High.	Low.	High.	Low.
Selling rates for prime bills: 30-day maturity. 60-day maturity. 90-day maturity.	57 6 61	53 53 53	53 57 6	5½ 5§ 5¾

The selling rates show a slight increase for

March over February.

District No. 8 (St. Louis).—The demand for bankers' acceptances was more active in this district during the period from March 15 to April 15 than for some previous time. This demand came in the main from large mercantile interests who found themselves with surplus funds for investment. There has also been a spotty demand for bankers' acceptances from several of the larger banks in the principal cities of the district. Rates during this time have been more or less unsettled, and recently brokers were offering unindorsed prime bills at a flat rate of 5½ per cent for all maturities. From reports it does not appear that this offering has been either attractive or a true measure of the market for such investments. There is evidence that some of the smaller banks in the district are using bankers' acceptances as a secondary reserve.

extent, although there is a growing tendency | The high, low, and customary rates prevailfor their use during periods of crop movement. I ing in St. Louis and Louisville, as reported by banks in those cities, were as follows between March 15 and April 15:

	Bankers' acceptances (unindorsed), 60 to 90 days.		
	High.	Low.	Custom- ary.
St. Louis. Louisville	618	5 1 5 1	6 6

District No. 9 (Minneapolis).—Interest rates in the Minneapolis money market on April 15 as compared with March 15 were unchanged at 7 per cent for customers' loans at banks and 8 per cent for commercial paper. There were recessions, however, of five-eighths to three-fourths per cent in bankers' acceptances, and over one-half per cent on collateral-secured loans and cattle paper. The prevailing rate on April 15 was 5½ per cent on bankers' acceptances and 8 per cent on collateral notes and cattle loans.

District No. 10 (Kansas City).—Bankers are devoting their resources and energies to the situation at home and for the present are putting little of their surplus into acceptances or other forms of investment.

District No. 11 (Dallas).—The local acceptance market has been very dull during the past 30 days, and offerings have been in limited amounts only. On March 31 this bank held acceptances aggregating \$20,906, as compared with \$1,186,210 on March 31, 1920.

A recent inquiry of 64 banks engaged in extending acceptance credits in this district elicited replies from 10, showing that those institutions had acceptances outstanding aggregating \$1,745,000, of which \$706,000 was based on import and export transactions, and \$939,000 on domestic shipments, or commodities in storage. The average maturity of the acceptances outstanding was 90 days.

No activity is anticipated in the acceptance market in this district until the financial situation materially improves. In past seasons, especially in the fall when the banks of the district were in surplus funds, acceptances and commercial paper have been sought as an investment, and have proven an attractive outlet for idle funds. For the past several months, however, there has been little demand for acceptances, and purchases by the banks in this district have been negligible. There have been no new accepting banks within the month. The attractiveness of acceptance credits as a method of finance is fully appreciated, and with the large agricultural interests of the Eleventh District a large increase in acceptance transac-

tions will result, although their general use may be slow of accomplishment.

District No. 12 (San Francisco).—Bankers' acceptances purchased in the open market declined by \$16,200,000 during the last two weeks of March and on April 8 stood at \$14,030,000, compared with a maximum holding of this class of paper of \$119,000,000 on January 30, 1920. During this same period bills discounted for member banks increased \$81,000,000, indicating that funds previously invested in outside paper were diverted to meeting the demands of member banks for funds to lend their customers in this district.

Methods Followed by City Banks in Granting Accommodation to Correspondents.

This is the third and final article giving the results of a study made by the Division of Analysis and Research of the Federal Reserve Board of the methods pursued by reserve city banks in granting accommodation to their correspondents.¹ In the two preceding articles were considered data from New York and from the West and Southwest. The present article is based upon information obtained from banks in Boston, Philadelphia, Richmond, Baltimore, and Atlanta. For comparative purposes, reference will be made at certain points to the practices relative to specific points adopted in centers previously considered, and these will be contrasted with practices in the centers to which major consideration is given herein.

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

[In thousands of dollars.]

	Number of banks.	Loans.
Boston Philadelphia	11 29	13, 975 28, 156
Philadelphia Richmond Baltimore	7 13 5	5, 593 2, 084 5, 585
Total		55, 393
tion of over 50,000		474, 393

The figures are taken from the annual report of the Comptroller of the Currency for 1919,

¹ The two former articles appeared respectively in the Federal Reserve Bulletin, June, 1920 issue, pp. 583-592, and in the January, 1921 issue, pp. 33-41.

volume I, pages 78-81, and relate to December

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

[In thousands of dollars.]

,	Bills pay- able and redis- counts.	Certifi- cates of deposit.	Total.
Boston Philadelphia Richmond Baltimore Atlanta	12, 693 25, 115 6, 326 2, 155 6, 854	1, 502 20 26	14, 195 25, 135 6, 326 2, 155 6, 880
Total Total for all central reserve and reserve cities.	53, 143 234, 050	1, 548 17, 310	54, 691 251, 360

In the report of the Comptroller of the Currency for 1920, Volume I, pages 210-213, a somewhat different classification is followed. The figures for January 31, 1920, as given there, are as follows:

[In thousands of dollars.]

	Number of banks.	Direct and indirect loans made to banks.	Rediscounts made to banks.	Bills receivable purchased from or discounted for banks.
Boston	12 32 7 13 4	10, 225 22, 715 3, 201 5, 101 858	12, 460 2, 340 1, 310 721 471	358 241 625
Total Total for all cities having a popu- lation of over		42, 100	17, 302	1, 224
50,000 Total, Dec. 31, 1918	595 6 0 0	268, 201 232, 455	147, 450 115, 015	164, 310 126, 924

I. Sources of Information.

CONTENTS OF THE FILE.

The banks in the centers included in the present survey differ greatly with respect to the elaborateness of the files which they maintain. As indicated previously, practice varies with the relative importance placed upon maintaining the impressions on the subject bank in the mind, instead of having them recorded in writing and filed away, as well as with the size of the institution and the number of borrowing accounts. No pronounced tendencies are found in any one center.

at all for their credit information, but, on the other hand, several banks in that center have files which are among the most highly developed of any reported by the banks included in the present survey. One bank divides its file into six sections, as follows:

(1) General information regarding institutions, memoranda on line of credit granted and terms, and memoranda on collection arrangements and terms.

(2) Correspondence.

(3) Inquiries. (4) Interviews.

(5) Miscellaneous data.

(6) Record of banks to whom credit informa-

tion was furnished on this subject.

The information from statements is recorded on cards by this bank and statements are filed elsewhere. On the other hand, some institutions merely have two sections to the folder, one for correspondence and one for statements.

Annual revision of credit information is the general policy. That is to say, there is then a complete rechecking of information, and not mere addition of data that comes to attention from time to time, and is placed in the file as it appears. The Richmond and Atlanta banks make revision at least once a year, with the exception of one Richmond bank which makes revision every six months or oftener at times, and another which makes a revision when application for loans is made, and one Atlanta bank which does it "as frequently as neces-sary." Three Boston banks have no regular time of revision, but, on the other hand, two other Boston banks revise at least annually. Several banks in the other centers also have no regular time of revision, but the majority of banks revise their data annually or at least annually.

EXPERIENCE OF OTHER INSTITUTIONS.

In all the centers included in the present survey, considerable stress appears to be placed upon the experience of other institutions with the subject. One Philadelphia institution states that "information as to standing of banks is derived chiefly from checkings received from other institutions." This parallels the practice of New York City banks, rather than that of the western institutions included in the previous article. Certain Boston banks, however, obtain no data of this description, and one does this only in the case of new banks, or banks hard pressed for funds. One Richmond bank states that when extending credit to a "small bank" it writes to "banks and business men in the vicinity in which the bank is located," while Two of the Boston banks have no special records | where an "old bank" is under consideration it "checks it up with its correspondents and with banks and business men in its vicinity." Boston bank distinguishes between banks located in and outside New England. In the former case, communication is generally had with mutual correspondents, while in the case of New England member banks the Federal Reserve Bank furnishes the best source of information, supplemented by reports from New York banks dealing with the subject. Occasional use is made of the Federal Reserve Bank by one Atlanta bank, which also frequently consults the State banking department. The latter is the only case reported in the entire survey of such consultation, with the exception of one New York bank. As indicated above, mutual correspondents are supplemented in certain cases by banks or more rarely individuals in the vicinity, perhaps in the community where the subject bank is located. One bank inquires at the time the account is opened of all correspondents of the subject bank which are listed in one of the standard directories. The correspondents communicated with are frequently varied from time to time. One Philadelphia institution states that telephonic inquiry to other correspondents is frequently made.

The information requested may be summarized under the heads of (1) integrity of management; (2) condition of the bank; (3) borrowing aspects; (4) past relations, including size of account and whether or not it was profitable; and (5) whether any adverse information has come to their attention. The extent to which detailed data under the third and fourth heads in particular are requested varies considerably.

STATEMENTS OF THE SUBJECT BANK.

There appears to be a more general tendency among the centers considered in the present survey to require detailed statements of the subject than was found among banks covered in either of the two preceding articles. While the majority of banks in the centers considered in the present article also regard the brief statement as satisfactory, a considerable number of institutions require detailed statements. One institution in Atlanta reports that it "files regular published statements of its banks, and from those to whom it extends credit asks for detailed statements annually.

Comparative statement forms are employed by a considerable number of the banks. The data included by certain institutions are given in the following table. Form 5 is in process of revision. This is the only one which is arranged horizontally, the remainder being arranged vertically. Forms 4 and 5 are contained on cards, while the others are on sheets. 1

Bills discounted, not due. Time loans against collateral. Demand loans against collateral. Overdrafts, secured and unsecured. U. S. bonds to secure circulation (par value), — per cent.
U. S. bonds to secure U. S. deposits (par value), — per cent.
Other U. S. bonds (par value), per cent.
Premiums on U. S. bonds.
Stocks, securities, etc.
Banking house, furniture, and fixtures. Other real estate owned. Mortgages owned. Due from banks and bankers. Due from approved reserve agents. Exchanges for clearing house. Checks and other cash items. Cash on hand.
Five per cent redemption fund,
Due from Treasurer U. S.

Total assets.

Capital stock.

Capital stock.
Surplus fund.
Undivided profits, less current expenses and taxes paid.
Dividends unpaid.
Due to banks and bankers (not approved reserve agents).
Due to approved reserve agents.
Ind. deposits subject to check.
Time certificates of deposit.
Demand certificates of deposit.
Cashier's checks outstanding.
Certified checks.
U. S. deposits. U. S. deposits. Circulation. Notes and bills rediscounted. Bills payable.
Certificates of deposit representing money borrowed.
Liabilities other than those above stated. Bonds borrowed. Reserved for ——

Total liabilities.

Loans and discounts. Cust.—Liab. a/c acceptances. Stocks and bonds. Real estate.
Overdrafts.
Cash and in banks. Sundries.

Total assets.

Capital. Surplus and profits. Deposits.
Bills payable and rediscounts.
Circulation.
Sundries.

Total liabilities.

Our account loans.

Cash. Cash.
Due from banks.
Due from Treas. U. S. and 5 per
cent redem. fund.
Total cash due from banks
and Treas. U. S. Loans and discounts. Overdrafts.
Stocks and bonds.
Banking house, furniture, and fixfures Other real estate.
Customers' liability a/c acceptances. Interest earned but not collected. Other assets.
Miscellaneous resources.

Total assets.

Capital.
Surplus and undivided profits.
Uncarned discount.
Reserved for interest and taxes.
Circulation.
Bank deposits.
Other deposits.
Total deposits.
Bond account. Capital. Acceptances.
Bills payable and rediscounts.
Other liabilities.

Total liabilities.

Correspondents.

Loans and discounts. Overdrafts. U. S. bonds—Cir., U. S. dep., postal Stocks, bonds, securities, etc.
Banking house and furniture.
Other real estate.
Due from other banks. Due from reserve banks. Checks, cash items, exch. for clear-Cash in vault and with Federal Reserve Bank.
Red. fund and due from U. S. Treas. Customers' liability under L/C and accept.
Interest earned but not collected.
Other assets.

Total assets.

Capital stock. Surplus.
Undivided profits.
National bank notes.
Due to banks.
Individual deposits. Bank deposits. Savings and time deposits. U. S. bonds borrowed. Bills payable. L/C and acceptances.
Miscellaneous liabilities.

Total liabilities.

Sales of stock.

Capital. Surplus and profits. Bank deposits. Individual deposits. Rediscounts and bills payable. Bonds borrowed.

Loans. Overdrafts. Stocks and bonds. Other real estate. Federal reserve stock.

Various special records analyzing the condition of the account are also kept. Among these may be mentioned an analysis card showing high, low, and average loans each month; amount of net balance and book balance and per cent of net balance to loans; income on the net balance, transit overhead cost, and net profit after deducting such cost. Another bank records on one side of a card average book balance and average amount outstanding, amount of exchange (cost and collected) amount of interest (cost and allowance), and net profit or loss; as well as volume, items handled, and their exchange, and on the other side monthly discounts in hundreds, showing maximum and minimum amounts and rate, divided into maker, indorser, United States securities, and interest. One bank keeps a book record of lines, existing loans, and collection arrangements on the loan officer's desk.

REPRESENTATIVES' VISITS AND AGENCY REPORTS.

Practice differs greatly as to the maintenance of men in the field to visit correspondents, but the use of such representatives is the exception, and most of the banks instead have correspondents visited by an officer, generally once a vear. One Baltimore bank experimented several years ago with a representative, but "thought that it did not yield results," while another has had but one occasion in recent years to have a representative make a report on conditions, where a correspondent had failed to make the proper curtailment in its indebtedness. Philadelphia banks reporting have no regular representatives, while in Atlanta use is made of them by several banks, as is also the case with one bank in Richmond and one bank in Boston, the latter having several men who travel a greater portion of the time. The Richmond bank states:

Such a representative makes a detailed report covering his observations as to the character and caliber of the men running the bank, appearance of the bank, class of customers, and conversations of the officers; also impressions gained by him from inquiries made in the bank's town and neighboring towns.

Less use is apparently made of the mercantile agency reports in the centers under consideration than in either New York or in the western centers included in the previous article. None of the reporting Philadelphia banks employs them, while the same is true in Boston, with the exception of one bank which "seldom ever" does, and in Richmond, with the exception of one bank which frequently uses them. One Baltimore bank uses them; another, however, only rarely; while

a third has no occasion, as data obtained from other sources are sufficient. Two Atlanta banks obtain reports, another only on small country banks, while another seldom uses them, a fifth has found them "inadequate," and valuable only in so far as light is occasionally thrown on the connections of the officers, and a sixth does not use them.

II. RELATION OF AMOUNT OF ACCOMMODATION TO BALANCE MAINTAINED—"CLEAN-UP" REQUIREMENTS.

BALANCES.

A considerable number of institutions in the centers under consideration require a minimum average balance. In general this is 20 per cent, although in certain cases from 10 to 20 per cent, or from 15 to 20 per cent, may be specified instead. One Richmond institution has more fully explained its requirements as follows:

Our general policy is to extend credit to banks on a basis of five times their average balance for the previous six months, and under present conditions we expect them to maintain an average of not less than 20 per cent of the loan. All of our correspondents are not complying with this requirement at this time, but it will have a considerable bearing on future credit extended.

Similarly, one Atlanta bank states that after accommodation is extended, "we expect collected balances of at least 20 per cent of the loan to be maintained." Several other banks in that center apparently have similar requirements, but one bank states that it has waived its requirements during the past six months owing to the unusual conditions prevailing, and another specifically offsets balances during the off season against those during borrowing periods. A Philadelphia bank which usually grants accommodation to five times the average daily balance generally restricts credit on later applications if inadequate balances are maintained, but states that many institutions first use up their balance and then borrow to restore it. A Baltimore bank has made exception in the past in the case of institutions with which they have arrangements whereby the other banks "collected certain items free of exchange, charged direct to their accounts, with the result that the actual balances as shown on its books were considerably less than would otherwise have been the case, in addition to a saving in exchange." This then provided a satisfactory profit on the account, but the condition has been materially affected by the endeavors to make a net profit of — per cent or better on the account, and on this basis figures the average balance necessary to justify the loan. A Philadelphia institution states in this connection that "the value of proportionate balances makes itself felt more keenly at a time like the present when it is necessary to apportion accommodation according to balances. We also give consideration to collections and other services rendered us." One Richmond institution which does not require a minimum balance states that although under present conditions average balances will exceed 10 per cent, there are quite a number of bank borrowers who maintain balances of 10 per cent or less.

No minimum dollar amounts are required in any case, although one bank states that it pays no interest on average available balances less than \$1,000. Smaller banks are reported by a number of institutions to maintain proportionately smaller balances, while one Atlanta bank observes that "balances have usually been lean with country banks for the last few months." A Baltimore institution has "found the tendency to run the line of credit out of proportion to the compensating balance, to apply in the case of points where there is but a single small bank or two rather than in the case of larger banks in larger towns."

CHARACTER OF BORROWING.

The great majority of loans are for seasonal needs. Two Philadelphia banks, however, make mention that Government financing is increasing loans for other than seasonal needs. One Boston bank, however, makes seasonal loans only in the Connecticut Valley on account of the tobacco crop, while another has about one-third of its loans for nonseasonal needs. One Baltimore bank does not "encourage loans of this character" (other than for seasonal needs), as it feels that "it breeds expansion beyond the safety point." Very little borrowing of a nonseasonal character is in general reported in the southern centers.

In spite of these differences the general practice is to expect a periodical clean up, if not to require it, as the large majority of banks do. Clean up annually is the general practice. One Richmond institution states that, "as a general proposition, in this section it is not necessary to require a periodical clean up, as this is done automatically from the marketing of agricultural products." Another, however, has had to extend a great many of its loans this year, and the same is reported by several other banks, due naturally to the conditions prevailing in the cotton and tobacco sections. Most of the

borrowing banks of an Atlanta institution "are off the books longer periods than they are on, generally speaking." Speaking of the adaptation of loans to time of liquidation of commodities which the borrowing bank chiefly finances, a Philadelphia institution instances that cotton loans should liquidate not later than spring, and wool loans during the fall. Similarly, another Philadelphia bank reports that its southern accounts usually borrow in the fall and early winter and its Pennsylvania and New Jersey accounts in the early spring. In the event that conditions are not propitious for complete liquidation, reasonable curtailment is generally expected, as is noted by a Baltimore institution.

If the clean up does not occur, and it is believed that it should reasonably be made, it is in general directly requested by personal visit or by letter. The clean up may be made a condition of the loan; or the credit extended to banks that show by chronic or continuous borrowing a tendency to expansion even in normal times, may be restricted; or the plea of conservative banking may be made. A Boston bank states that "wherever we believe it is possible for a bank to reduce its loans by disposing of investments at not too great a sacrifice, we insist that this be done. Furthermore, we have had occasion to insist that the bank force its customers to reduce loans through sale of commodities." A Baltimore bank in certain cases slightly raises the rate, say, one-half per cent, on unscheduled renewals.

III. FORMS OF ACCOMMODATION.

SECURITY OF THE LOAN.

As in the case of all the other centers included in the two previous surveys, the great majority of loans are secured. In fact, in all centers except Boston every reporting bank states that it either has no unsecured loans, or that the proportion is very small. In Boston, however, one bank reports that 50 per cent, another 40 per cent, and a third 20 per cent of its accommodation is unsecured. Another Boston bank, on the other hand, has only one unsecured loan at present, while a second states that "only a small portion of loans to correspondents are made on an unsecured basis, and in such cases only to banks who have been for a long time on our books, with whose affairs we are quite conversant, and in whose officials we have entire confidence.

and the same is reported by several other banks, due naturally to the conditions prevailing in the cotton and tobacco sections. Most of the

and Atlanta the great majority of loans are against bills receivable. The great majority of other securities offered consist of Liberty bonds. In the case of three Richmond banks giving estimated percentages, the figure for Liberty bonds ranged from 20 to 25 per cent, as against 80 to 75 per cent, respectively, for bills receivable. While some banks in Atlanta report only a small use of Liberty bonds (one) bank reporting 90 per cent and another 89 per cent on bills receivable), several report extensive use of Liberty bonds by country banks in the past few years, and one notes that many such loans have been liquidated in the past six months. Several Baltimore banks report percentages of securities ranging from 25 per cent to 50 per cent and 67 per cent. Several banks report a large percentage of Liberty bonds, but in the case of the others it is relatively small. The five reporting Philadelphia banks are sharply divided. Two show percentages of 90 to 95 per cent against bills receivable, while the other three show 60 per cent, 75 per cent, and 75 per cent against bonds. One of the latter banks states that "Liberty bonds are not used as collateral_by banks that are members of the Federal Reserve System, and only to a limited extent by banks that are not members," while one of the banks showing a high percentage of loans on bills receivable states that they are usually only used "in cases where such loans have been carried since the time of original subscription.' Reference to the statements of the several Federal Reserve Banks clearly bears out the tendency in Philadelphia to rely more largely on the Federal Reserve Bank for accommodation against Government obligations. Thus, in the statement as of April 1 the Federal Reserve Bank of Philadelphia shows over 60 per cent of its total bills on hand secured by United States Government obligations. Only one other bank, namely, New York, shows over half its total bills on hand secured in this manner, and in its case the figure is slightly over 50 per cent. Practice in Boston differs somewhat among the various banks. One institution states:

Our preference for bills receivable or securities as collateral depends considerably on the individual bank. We have found that oftentimes loans in the form of rediscounts and notes secured by receivables are paid more promptly than loans collateraled by other securities where the borrowing banks are inclined to be dilatory in paying loans. Generally speaking, the larger and stronger banks borrow on bonds as collateral and retire their obligations promptly.

This bank states that Liberty bonds, although used extensively in 1918 and 1919, are now employed to a limited extent, and that lower margins on securities. One Richmond

tween the several centers. In both Richmond it "has even brought pressure to bear to have bonds sold where there was no prospect of the

note being otherwise paid."

Certain banks prefer to lend against bills receivable; others, however, prefer securities. Liberty bonds when offered, however, in general receive preference. The latter is often coupled with a secondary preference for bills receivable. One Richmond bank remarks that it shows its preference only when the bank's assets indicate the possession of Liberty bonds. As indicated in previous articles, when there is preference for listed securities this is ascribed to greater ease in handling (as checkings and substitutions are avoided), and the possibility of liquidating more promptly and to better advantage. Hence one Baltimore bank states that "in ordinary times we would be glad to reflect our preference in a slightly lowered rate on the loan."

Considerable difference is found as to margins between Boston, Philadelphia, and Baltimore on the one hand and Richmond and Atlanta on the other hand. In particular this is true of loans with bills receivable as collateral. In the first two centers 20 per cent is most frequently specified. In some cases this applies on all classes, while in other cases 10 per cent only will be specified on Liberty bonds. One Philadelphia bank states that a margin of 20 per cent has been customary, but that recently there has been a tendency to increase it to 30 per cent, although loans secured by Liberty bonds or basic commodities carry margins smaller than 20 per cent. Margins in Baltimore vary from 15 to 30 per cent, several banks distinguishing between bills receivable and securities, and requiring in the latter case 10 or 15 to 25 per cent, as against 15 or 20 to 25 per cent on bills receivable. The majority of the Richmond and Atlanta banks refer to the maximum requirements which they make on bills receivable. While one Boston bank stated that many times it had collateral much in excess of its usual 20 per cent margin, in Richmond the ranges given are from 20 to 25 or 30 per cent to 100 per cent, with the exception of one bank, which merely gives 25 per cent as its usual margin requirement. In Atlanta one bank with little business of this character specifies 25 per cent; another up to 25 per cent; a third 20 to 100 per cent; and a fourth in normal times 25 per cent, and under present conditions 50 to 100 per cent. The latter is also specified by two other banks, one of which in recent months has increased the margin from 50 per cent to 100 per cent. Several banks in these two centers refer to

bank requires 10 to 15 per cent of the market value against Liberty bonds and Victory notes, while an Atlanta bank requires 20 per cent, but in certain cases notes that it has varied this.

USE OF BILLS RECEIVABLE.

In scattered instances fairly high percentages of rediscounts to total accommodation extended are reported. Thus 35 per cent is reported by one Richmond bank, 30 per cent by one institution in Philadelphia, and by one in Baltimore. The percentages given in the other cases range from 8 to 15 per cent, but the majority of banks, however, merely specify that the proportion is very small. The Comptroller's figures for Boston national banks as of January 31, 1920, indicate an amount of rediscounts in excess of the amount of direct and indirect loans made, but in all the other centers the proportion is much smaller. The general practice is to rediscount only well-rated names and for strong institutions. Thus, one bank in Richmond states that it does so only "for banks in which we have the utmost confidence as to their integrity, management, and ability, and then only on paper which would stand on its own merits, in so far as collection is concerned, without the indorsement of the banks." The margin which loans against the bills receivable as collateral carry, and the fact that in event of failure the balance in the de posit account can be offset against the loan, account for the preference for collateral loans instead of rediscounts. A Baltimore bank states that it will rediscount "where the correspondents have paper of a grade equal to collateral securities," while an Atlanta bank "requests paper that is eligible for rediscount with the Federal Reserve Bank. One Philadelphia bank, however, which has by far the greater part of its loans collateraled by bonds, states that it "would prefer rediscounting wellrated commercial paper for corresponding banks instead of making loans on collateral, as same is invariably paid when due." This view is similar to that of the Boston bank noted above in considering the security of the loan.

The majority of banks, on the whole, have noted no change since 1914 in the methods whereby accommodation is extended. Certain suggestions, however, have been made in the various centers. One Boston bank states that "since 1914 borrowing has been done in the shape of time loans to a greater extent than formerly, when the usual form of borrowing on the part of New England banks was against others report loans of both phia banks report both kir likewise in Boston, where or reports that its loans are gen and another has about one-th demand. Another Boston that local or suburban banks demand, but loans agains usually run for fixed periods.

certificates of deposit, usually secured by bonds and occasionally by bills receivable." (This method is discussed at greater length below.) Another bank in that center also reports an increase in collateral loans. Philadelphia banks refer to changes brought about by Government financing, and one states that "borrowings have been much less since the Federal Reserve System started, practically all the banks in this district securing their accommodation from that source." A Baltimore institution states that "prior to two years ago practically all loans were made in the form of a collateral note secured by either bills receivable or securities, the rediscount custom having been to a great extent copied from the Federal Reserve Banks."

MATURITY OF LOANS.

The centers included in the present survey fall naturally into two classes with respect to the maturity of their loans to correspondents. In Richmond and Atlanta, on the one ents. In Richmond and Atlanta, on the one hand, loans are largely made on time for fixed periods. Thus one Richmond bank states that "it is contrary to our policy to make demand loans to banks. This is done only in the rarest cases and only when the bank assures us the money will be needed for just a few days. We endeavor to make only such loans to banks as their seasonal needs require." Another bank in that center, which, however, has practically all its loans on time, notes that it endeavors to put its demand loans on a time basis if they run longer than six months, while a third Richmond bank usually makes its loans for about 90 days, but at present is making no loans for a longer period than 30 days. In Atlanta exceptions are reported only in infrequent cases, one bank stating that they usually represent commodity loans. In the other three centers a larger proportion of demand loans is reported. One Philadelphia and one Baltimore bank state that loans on bonds are generally on demand, while loans on bills receivable are usually on time. Several Baltimore banks report that their loans are largely for fixed periods, while others report loans of both kinds. Philadelphia banks report both kinds of loans, and likewise in Boston, where one bank, however, reports that its loans are generally on demand, and another has about one-third of its loans on demand. Another Boston institution states that local or suburban banks usually borrow on demand, but loans against Liberty bonds

HOLDING OF COLLATERAL.

Very little holding of collateral by banks other than the lending institution is reported. One Boston bank reports an occasional exception in the case of western banks. Several institutions in Philadelphia and Richmond report an exception in a few cases for cotton paper, in order to facilitate substitution or permit removal and sale. In such cases, the paper will be returned to the borrowing bank under trust receipt, in general shortly prior to maturity. Substitution of other paper is generally permitted. This depends of course upon the acceptability of the new paper offered, and thus one bank notes that inquiry would be made if the same names were continually offered. Some banks state that they expect liquidation at harvest time, and others endeavor to investigate the necessity of the substitutions proposed.

SPECIAL FORMS OF ACCOMMODATION.

In all the centers, with the single exception of Boston, very little use of certificate of deposit borrowing is reported, the great majority of banks stating that they do not make such loans, and the others that they are "not customary" or occur "very seldom." Although several Boston institutions report little use of the method, one bank states that "New England banks are accustomed to borrow on a certificate of deposit secured by bonds when borrowing temporarily," and, as noted above, that there has been a decrease in such borrowing since 1914. That this method is still employed to some extent is indicated by the figures given at the opening of this article, showing the amount of loans in the form of bills payable and rediscounts, as compared with the amount of loans on certificates of deposit, on March 4, 1919. Boston is the only center included in the present survey which shows a substantial amount of this special form of loan, although the proportion (some-what over one-tenth) is smaller than in either Dallas, Kansas City, Minneapolis, or San Francisco, in the last two of which the proportion for national banks was somewhat less than half the total accommodation granted.

Very few of the banks from whom data were obtained report the use of other special forms of accommodation. Securities are stated by several banks to be sometimes taken from correspondents under a repurchase agreement.

IV. Special Parts of the Analysis.

ANALYSIS OF BILLS RECEIVABLE OFFERED AS COLLATERAL.

Practice differs considerably as to the extent to which scrutiny is made of the receivables offered as collateral for loans. Several Boston banks report that no analysis is made. In general, however, certain features are desired. Aside from the diversification of the paper, these are indicated by one Atlanta bank in the following words: "Bills receivable are generally analyzed as to denomination of the various notes, sections in which makers are located, and a scrutiny made for notes of officers and directors, and a general examination (although no special individual outside investigation) is made." If the names of makers are unfamiliar, one Boston bank endeavors to obtain statements. A Philadelphia institution states that it analyzes "bills receivable as carefully as possible, but in many cases, where dealing with comparatively small institutions, we have to depend to some extent (as to a general assortment of names, many of which are not rated) upon the financial strength of the institution under considera-Another Philadelphia bank obtains tion." from the borrowing institution data relative to the financial responsibility of makers and indorsers in case the ratings are not satisfactory. Several Richmond and Atlanta banks usually accept the expression of opinion by the borrowing banks as to the net worth of makers and indorsers. One institution in the latter center advises that it "finds it useful" to have corresponding banks send in the estimated net worth of the makers "as it makes the officer making the report in a certain sense morally responsible for the rating given." The information obtained and the analysis made depends, it is stated by certain banks, upon the size of the notes. One Richmond bank thus states that while it scrutinizes the bills receivable as to technicalities and requires the borrowing bank to give it as full information as it can on each note, "on all notes of any size we make independent checking through banks and business men in the same town or vicinity of the bank, and also secure mercantile agency reports." One Philadelphia bank, similarly, while accepting agency reports on small re-ceivables, obtains checkings on receivables in larger amounts and in most such cases requires statements. Practice also naturally differs

according to the familiarity of the officers of the lending bank with the management and status of the borrowing institution. Several institutions check names with local friends where the borrowing bank is not well known. A Baltimore bank states in this connection that if the "report in our credit file indicates that the ability and integrity of the officers in the case of a given bank are of the highest order and statements indicate good conservative management, a passing examination of the receivables offered would serve our purposes, as in such a case the direct note of the institution could be handled with a very small risk. However, in the case of banks not showing such strength we would require well-rated paper such as we handle for depositors.'

THE BORROWING BANK'S STATEMENT.

The extent to which the statement of the borrowing institution is analyzed also differs considerably between the various banks. A considerable number of institutions rely more largely upon their general knowledge of the borrowing bank rather than upon statement analysis. Other institutions consider the statement merely in a general way. One Boston institution states that it only analyzes the statement in detail when the bank is in difficulty. Certain banks, however, have indicated in some detail the particular points which are ascertained in their scrutiny. In a general way the points which will be considered may be summarized as follows: (1) Relation of the deposits to the capital investment. In this connection, one Baltimore and one Atlanta bank consider the proper ratio between five and ten times, the bank otherwise being over or under capitalized; (2) growth of deposits, which will afford an indication of increase in earning power; (3) relation of surplus to capital; (4) relation of loans to deposits; (5) investment in building; (6) investment in stocks and bonds. In this connection, one Boston institution cites "the heavy depreciation of bonds during the last few years" as the reason why it does not like to have heavy bond investment; (7) relation of borrowings to deposits or to loans. In addition, one Richmond and one Atlanta bank refer to seasonal fluctuations in loans, deposits, and borrowings. An Atlanta institution also refers to excessive loans to officers, nature of security and proportion of "frozen" loans to capital, excessive loans to customers (in particular on real estate), and slow or long outstanding loans. Another Atlanta institution reports that it requires a capitalization of \$25,000 on the part of its borrowing banks.

Certain institutions limit borrowings to the capital investment, which is qualified in certain cases by the statement that this prevails under ordinary circumstances. But few institutions. however, have such a limit. The great majority have no formal rule. Similarly, almost all institutions consider each application separately, and do not attempt to fix a line of credit in advance. Thus in Boston only one institution attempts to fix a line, and this is done only on such of its borrowing banks as are located in crop sections, in particular cotton, while the New England banks' applications are considered separately. Similarly, only one Philadelphia bank reports that it fixes a definite line, and this it does only in a minority of cases. All reporting Richmond banks consider each application separately, although one institu-tion states that it is planning in future to fix definite lines. Several of the Baltimore banks report that they fix a definite line, and one Atlanta bank usually does so, while another institution in the latter center in some instances

fixes the line at the opening of the season.

The consideration of "charge-offs" requires intimate knowledge of the affairs of the borrowing institution. Thus the great majority of institutions from whom data were obtained made no comment on this point. One Boston institution, however, states that charge-offs frequently are discussed in person with officers of the borrowing banks when the latter visit it. Several institutions consider charge-offs in connection with dividends, in an endeavor to ascertain the extent to which losses are written off and the amount of net earnings which then remain for surplus or for dividends. One Philadelphia institution states that if the profits do not show a normal increase it inquires as to the proportion of earnings to dividends and charge-offs. One Baltimore bank observes that "under ordinary circumstances we are of the opinion that a bank with conservative management should earn not less than 6 per cent of its invested capital with a proper ratio of deposits, this allowing for average loss but not including the dividends."

EXPERIENCE OF OTHER INSTITUTIONS.

Several institutions included in the present survey merely have country bank accounts and borrowers therefore do not obtain accommodation from other sources. The total loans from all sources, of course, are considered in determining what the individual institution will loan. This will naturally include as far as possible consideration of the conditions under which these borrowings are made, including amount, rate, maturity, and nature of the security pledged.

RULINGS OF THE FEDERAL RESERVE BOARD.

Amendment to Regulation B authorizing open-market purchases of six months acceptances growing out of foreign transactions.

On May 6, 1921, the Federal Reserve Board transmitted to Federal Reserve Banks its Regulation B, Series of 1921, superseding Regulation B, Series of 1920. The Board's letter of transmittal and the amended regulation are set forth below:

WASHINGTON, May 6, 1921.

The Federal Reserve Board transmits herewith its Regulation B, Series of 1921, superseding Regulation B, Series of 1920, relating to open-market purchases by Federal Reserve Banks of bills of exchange, trade acceptances, and bankers' acceptances under section 14 of the Federal Reserve Act. The new regulation is issued primarily for the purpose of permitting Federal Reserve Banks until further notice to purchase in the open market bankers' acceptances with maturities not in excess of six months, which grow out of transactions involving the importation or exportation of goods. Heretofore three months has been the maximum maturity of acceptances eligible for purchase by the Federal Reserve Banks. This amendment to the Board's regulation was recommended by the Federal Advisory Council at its conference in February, 1921, and by the Governors of the Federal Reserve Banks at their conference in April, 1921.

Two considerations have led the Board to take this action: (1) The desire to widen the acceptance market by meeting the wants of savings banks and similar purchasers of bankers' acceptances who are now deterred from investing in acceptances of longer than three months' maturity, because of the lack of authority of Federal Reserve Banks to purchase longer maturities up to six months; (2) to provide more ample facilities for financing import and export trade with countries where either normal conditions or present abnormal conditions indicate the desirability of rendering assistance by making acceptances of maturities not exceeding six months eligible for purchase by Federal Reserve Banks. While the Federal Reserve Banks would, under ordinary conditions, prefer to confine their investments to paper of short maturity, that is, not exceeding three months, it is believed that the present emergency in the foreign trade situation would be relieved by a proper liberal practice. Visiburgations of the relieved by a proper liberal practice. be relieved by a more liberal practice. Vigilant care, however, should be exercised by Federal Reserve Banks in purchasing acceptances of long maturities, in order that the liquidity of the aggregate investment in acceptances held by them should not be affected. In amending its regulation in the manner described, the Board looks to the good banking judgment and discretion of the accepting banks and of the Federal Reserve Banks to avoid any untoward results. To avoid misunderstanding, the Board desires to add that the results of this widening of the investment powers of the Federal Reserve Banks will be followed closely, with a view to such modification of its rules or amendment of its regulations as future developments may indicate to be necessary.

The Board has also taken this occasion to make another slight amendment to Regulation B so that its terms will more clearly indicate the Board's purpose in permitting Federal Reserve Banks to purchase in the open market bankers' acceptances growing out of the domestic storage of goods other than readily marketable staples.

REGULATION B, SERIES OF 1921.

(Superseding Regulation B of 1920.)

OPEN MARKET PURCHASES OF BILLS OF EXCHANGE, TRADE ACCEPTANCES, AND BANKERS' ACCEPTANCES, UNDER SECTION 14.

I. General statutory provisions.

Section 14 of the Federal Reserve Act provides that Federal Reserve Banks under rules and regulations to be prescribed by the Federal Reserve Board may purchase and sell in the open market, at home or abroad, from or to domestic or foreign banks, firms, corporations, or individuals, bankers' acceptances, and bills of exchange of the kinds and maturities made eligible by the act for rediscount, with or without the indorsement of a member bank.

II. General character of bills and acceptances eligible.

The Federal Reserve Board, exercising its statutory right to regulate the purchase of bills of exchange and acceptances, has determined that a bill of exchange or acceptance, to be eligible for purchase by Federal Reserve Banks under this provision of section 14, must have been accepted by the drawee prior to such purchase unless it is either accompanied or secured by shipping documents or by warehouse, terminal, or other similar receipt conveying security title or bears a satisfactory banking indorsement, and must conform to the relative requirements of Regulation A, except that—

(a) A banker's acceptance growing out of a transaction involving the importation or exportation of goods may be purchased if it has a maturity not in excess of six months, exclusive of days of grace, provided that it conforms in other respects to the relative requirements of Regulation A and

(b) A banker's acceptance growing out of a transaction involving the storage within the United States of goods actually under contract for sale and not yet delivered or paid for may be purchased, provided that the acceptor is secured by the pledge of such goods; and provided further that the acceptance conforms in other respects to the relative requirements of Regulation A.

III. Statements.

A bill of exchange, unless indorsed by a member bank, is not eligible for purchase until a satisfactory statement has been furnished of the financial condition of one or more of the parties thereto.

A banker's acceptance, unless accepted or indorsed by a member bank, is not eligible for purchase until the acceptor has furnished a satisfactory statement of its financial condition in form to be approved by the Federal Reserve Bank and has agreed in writing with a Federal Reserve Bank to inform it upon request concerning the transaction underlying the acceptance.

National banks as transfer agents.

The Board has received a number of inquiries as to whether national banks may act as transfer agents under the provisions of section 11 (k) of the Federal Reserve Act. After

giving the matter careful consideration, the Board is of the opinion that the capacity of transfer agent is a fiduciary capacity within the meaning of section 11 (k), and that, therefore, any national bank which has obtained permission from the Federal Reserve Board to act "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 national bank is located" may act as transfer agent, provided that competing State corporations are permitted to act in that capacity under the laws of the State in which the national bank is located.

Demand loans on real estate.

The Federal Reserve Board has received a number of inquiries as to whether national banks may make loans on real estate payable on demand under the provisions of section 24 of the Federal Reserve Act.

Section 24 provides, in part, that-

no loan made upon the security of such farm land shall be made for a longer time than five years, and no loan made upon the security of such real estate as dis-tinguished from farm land shall be made for a longer time than one year.

It is believed that the purpose of this provision is to prohibit a national bank from tying up its funds for a longer period than five years in the case of loans upon the security of farm lands, or one year in the case of loans secured by real estate other than farm lands. much as the bona fide holder of a demand note secured by real estate has the right at any time to demand immediate payment and to proceed against the property if such payment is not made, the Federal Reserve Board is of the opinion that under the terms of the law national banks may make demand loans secured by real estate, provided, of course, that the loans comply in other respects with the provisions of the law.

It is well to point out, however, that under some circumstances the discount or purchase of demand notes may be subject to certain practical objections. For one thing, if a demand note is indorsed, the indorser may be relieved of his secondary liability if payment is not made within a reasonable time. Furthermore, section 53 of the uniform negotiable instruments law provides that "where an instrument payable on demand is negotiated Regulation A of the Board's Regulations, Series an unreasonable length of time after its issue, the holder is not deemed a holder in due of the eligibility of a promissory note is that course." Under this section a bank purchasing "It must not be a note * * * the proceeds a demand note from a former holder an un- of which have been used or are to be used for

reasonable length of time after its issue would be subject to any defenses which the maker

had against the former holder.

There may be other practical considerations of importance in determining whether a demand note is a proper instrument under the circumstances of the particular case. Such practical considerations do not, however, affect the general proposition of law that a national bank may under the terms of section 24 of the Federal Reserve Act, and subject to the conditions, restrictions, and limitations therein prescribed, make real estate loans by taking direct from their customers demand notes executed by those customers, when the notes are properly secured by mortgages covering real estate and comply in other respects with the terms of the law.

Ratio of quick assets to current liabilities as bearing upon eligibility and acceptability.

The Federal Reserve Board has been asked whether its ruling, published on page 73 of the FEDERAL RESERVE BULLETIN for June, 1915, is still in effect or has been modified or reversed. The ruling referred to is to the effect that a note made by a cotton mill may be rediscounted by a Federal Reserve Bank although the statement of the mill fails to show an excess of quick assets over current liabilities, provided that the general financial condition of the mill is satisfactory and the statement of the mill shows that the plant is not mortgaged and that the deficiency between capital and plant account does not amount to more than \$5 per spindle.

It is not the present policy of the Federal Reserve Board to lay down definite tests for determining whether paper which is eligible for rediscount by Federal Reserve Banks as a matter of law should be considered acceptable for rediscount from a credit standpoint. The test prescribed in the ruling for determining the acceptability of paper of the character referred to should not, therefore, be regarded as binding upon Federal Reserve Banks.

It can not really be said, however, that the ruling has been reversed, for under the terms of the law and the regulations of the Federal Reserve Board a Federal Reserve Bank may, if it so desires, rediscount a note made by a borrower whose statement fails to show an excess of quick assets over current liabilities. of 1920, provides that one of the prerequisites permanent or fixed investments of any kind, such as land, buildings, or machinery, or for any other capital purpose," and the regulation further provides that compliance with this prerequisite "may be evidenced by a state-ment of the borrower showing a reasonable excess of quick assets over current liabilities." Such a statement is not the only evidence by which a Federal Reserve Bank may satisfy used and are not to be used for permanent or

it is a question of policy to be determined by the Federal Reserve Bank in each case whether that bank will rediscount a particular note offered to it in spite of the fact that the borrower's statement fails to show a reasonable excess of quick assets over current liabilities. Undoubtedly, as a general rule, sound banking policy requires that the borrower's statement shall show such an excess, but it is itself that the proceeds of a note have not been for the Federal Reserve Bank to determine whether, and under what circumstances, excepfixed investments. The Board has ruled that I tions may properly be made to this general rule.

LAW DEPARTMENT.

FEDERAL RESERVE BULLETIN.

Authority of national bank to guarantee letters of credit and acceptances, and to appoint correspondent bank as agent to issue letters of credit and acceptances.

It recently has been brought to the attention of the Federal Reserve Board that national banks for some time have been accustomed to guarantee letters of credit issued at their request by correspondent banks in large centers on behalf of the national bank's customers. For instance, it appears that where the customer of an interior national bank desires to obtain a letter of credit in connection with his foreign business, the national bank, instead of issuing the letter itself, will get one of its large city correspondents to issue a letter for the customer's account, which the national bank guarantees; that is, the national bank agrees that in the event the customer for whose account the letter is issued fails to put the issuing bank in funds to meet the acceptances, the guaranteeing bank will do so. The transaction does not always involve the issuance of a letter of credit, for the correspondent bank sometimes simply accepts a draft drawn upon it by the national bank's customer, and the national bank, in a collateral agreement with the correspondent bank, guarantees the customer's obligation to put the correspondent bank in funds to meet the acceptance. \mathbf{Under} the latter arrangement, the national bank's liability is the same as the ultimate liability which arises out of guaranteeing a letter of credit, so that the two transactions will be considered as one and the same for the purposes of this discussion. It also appears that some national banks, in consideration of a fee or commission, are accustomed to indorse acceptances for the accommodation of their customers or bill brokers. In connection with such practices, the question has arisen as to whether a national bank has authority to make such guaranties or accommodation indorsements, or whether such acts are beyond the powers which national banks lawfully may exercise.

Whether or not a national bank has authority to guarantee a letter of credit or to indorse an acceptance for accommodation is a question of law which in the last analysis must be determined by the courts. So far as the Board is aware, there are no decisions directly involving this point, and in view of the importance of the matters involved, it seems advisable for the Board to state in some detail its views as to the

legal aspects of the situation.

There is no express authority of law which authorizes a national bank to lend its credit by indorsing an acceptance or by guaranteeing or acting as surety on a letter of credit. The national bank act authorizes national banks to discount and negotiate notes, drafts, and bills of exchange, and to make loans on personal security, while section 13 of the Federal Reserve Act more recently has conferred upon national banks the power to accept drafts growing out of certain specified transactions. It is settled, however, that a national bank's power to discount negotiable paper and to loan money does not carry with it the power to guarantee, or act as surety upon, the obligation of another, nor is such a power incidental to the business of banking. (Commercial National Bank v. Pirie, 82 Fed., 799; Bowen v. Needles National Bank, 94 Fed., 925 (cited with approval in Sponge Exchange Bank v. Commercial Co., 263 Fed., 20, 26); Bank of Valdosta v. Baird, 160 Fed., 642.)

In Bowen v. Needles National Bank, supra,

p. 927, the court said in part:

"It may be stated in general that no banking corporation has the power to become a guarantor of the obligation of another, or to lend its credit to any person or corporation, unless its charter or governing statute expressly permits it. (Farmers & Mechanics Bank v. Butchers & Drovers Bank, 16 N. Y., 125; Morford v. Bank, 26 Barb., 568; Thomp. Corp., sec. 5721.) Under section 5136 of the Revised Statutes, national banking associations are given the power to 'make contracts' and 'to exercise by its board of directors, or duly authorized officers or agents, subject to law, all such incidental powers as shall be necessary to carry on the business of banking; by discounting and negotiating

promissory notes, drafts, bills of exchange, and other evidences of debt; by receiving deposits; by buying and selling exchange, coin, and bullion; by loaning money on personal security; and by obtaining, issuing, and circulating notes according to the provisions of this title.' There is in these provisions no grant of power to guaranty the debt of another, nor can such guaranty be said to be incidental to the business of banking. It has been so held in Seligman v. Bank, 3 Hughes, 647; Fed. Cas., No. 12642; Norton v. Bank, 61 N. H. 589; and Bank r. Pirie, 27 C. C. A. 171; 82 Fed. 799."

Similarly, although the power conferred upon national banks to accept drafts carries with it the power to issue letters of credit as incidental thereto, it would seem that such powers do not carry with them the power to guarantee, or act as surety upon, acceptances or letters of credit issued by other banks.

In view of these considerations, the Federal Reserve Board is of the opinion that a national bank has no authority to guarantee or act as surety upon a letter of credit, or to indorse an acceptance for accommodation; that such acts are ultra vires; and that if the directors of a national bank enter into such contracts of guaranty or suretyship, they assume in their personal capacities the risk of any loss that may

However, while a national bank can not guarantee an acceptance which it does not own, a national bank may purchase an acceptance and immediately resell it with its indorsement, since the power to indorse acceptances is incidental to the power to negotiate acceptances. (Bowen v. Needles National Bank, supra; Bank of Valdosta v. Baird, supra.) There appears to be no authority of law, however, which permits a national bank to lend its credit by indorsing an acceptance where the transaction does not involve an actual transfer of title to and from the national bank.

As to the practice of guaranteeing letters of credit, it is contended that if, as stated above, a national bank has no authority to guarantee or act as surety upon such letters, many national banks will be compelled to forego a business which is very desirable both from the standpoint of the banks themselves and from the standpoint of their customers. The result will be, it is alleged, that the customer himself must necessarily go to a large city bank and, as his financial standing perhaps is not generally known, his request for credit in many instances will be refused and he will be compelled to seek other and less desirable means for financing his business.

Realizing the practical force of these considerations, the Board desires to suggest an alternative method of financing the business heretofore financed by means of letters of credit guaranteed by the national banks at by issuing a letter of credit in its own name. whose request the letters are issued. The If a national bank may issue a letter itself, it

Board is of the opinion that this course, if adopted, will enable a national bank, with only slight modifications as to the manner of handling the business, to continue to carry it on without entering into an ultra vires transaction. Take the case of a national bank in an interior community, whose customer wishes to obtain a letter of credit which will be satisfactory to his foreign dealer. The national bank, having no international standing, or being without any department capable of handling foreign business, does not wish to issue the letter itself but is willing to extend its credit to its customer. Under these circumstances, it enters into an arrangement with, say, its New York correspondent, whereby the New York correspondent agrees as agent of the interior bank to issue a letter of credit for the account of the interior bank's customer, the letter to be issued in the name of the New York correspondent, but in issuing the letter the New York correspondent is to act as agent for an undisclosed principal, namely, the interior bank. The interior bank's name will not appear on the letter of credit, but its New York correspondent may look to it for reimbursement under the collateral agency agreement, not conditionally upon the failure of the customer to put the issuing bank in funds but directly and unconditionally as the real issuer of the letter. The beneficiary of the letter and the holders of the acceptances drawn thereunder will look to and rely on the credit of the New York bank, for its name alone will appear on the letter and the acceptances, but the interior bank will in fact be the real acceptor and the customer will be under obligation to put the interior bank, not the New York bank, in funds to meet the acceptances as they mature. The only change necessary in the present method is that the interior bank, instead of guaranteeing the letter of credit, will execute a separate contract appointing its New York correspondent its agent, and agreeing unconditionally to reimburse the agent as such for any moneys paid out, or, if desired, to put the agent in funds to meet the acceptances as they mature. It would seem that this procedure will meet the practical requirements of the situation and at the same time avoid the necessity of any contract of guaranty.

After careful consideration, the Board considers that national banks may properly finance the business in question in the manner suggested without exceeding their statutory powers. A national bank unquestionably may legitimately finance its customer's business would seem that a national bank may issue a letter through an agent, provided that the national bank has authority to appoint an agent for that purpose. It is true that, in a ruling appearing on page 835 of the 1920 Bulletin, the Comptroller of the Currency ruled that a national bank can not appoint an agent at a place other than its place of business to accept drafts in the name of his principal bank and to pay such drafts as they mature. This ruling was based on the construction of section 5190 of the Revised Statutes which provides in part:

The usual business of each national banking association shall be transacted at an office or banking house located in the place specified in its organization certificate.

The Comptroller said that the acceptance and payment of drafts is part of the usual business of a national bank within the meaning of this section, and therefore ruled generally that such business may be transacted only at the national bank's principal office or banking house and not in another place through an agent.

The Board is of the opinion, however, that the provisions of section 5190 do not necessarily prevent a national bank from appointing another bank or banker as its agent to issue a letter of credit in the agent's name. It is well recognized that, while a national bank may not transact any part of its "usual business" at another place through an agent, nevertheless it may appoint an agent for specific purposes or to transact particular kinds of business. Under these circumstances, it would seem that a national bank, for the purpose of financing its customer's business in the manner herein suggested, may appoint a domestic or foreign bank or banker as its agent to issue in the agent's own name a letter of credit and to accept drafts drawn thereunder, provided, that the authority conferred is specifically limited to the particular transaction involved and that a definite limitation is imposed upon the amount of each letter of credit.

In case the course suggested should be adopted, the agent bank, which issues the letter and which is primarily and unconditionally liable upon the acceptances made thereunder, must include the liability on such acceptances, as and when incurred, among its general acceptance liabilities subject to the limitations on the acceptance power prescribed by law; and, inasmuch as the interior bank is by hypothesis the real acceptor and is directly and unconditionally liable to the agent bank for any monies paid out to meet the acceptances as they mature or to put the accepting bank in funds to meet such acceptances, the principal

acceptances, as and when made, among its general acceptance liabilities subject to the limitations of law.

It should be remembered that the foregoing merely represents the Board's opinion as to the legality of the proposed plan, and as to the requirements which must be complied with if national banks see fit to adopt the plan. In the last analysis, the question whether a national bank legally may appoint a correspondent as its agent in particular transactions to issue a letter of credit and to accept drafts drawn thereunder, and whether in other respects a national bank legally may transact the business in the manner suggested, is a question for the determination of the courts. It seems advisable, however, for the Board to set forth its views with regard to the matter under discussion in order that its position may be clearly understood.

This opinion has been submitted to the Comptroller of the Currency and he concurs in the views expressed therein.

Qualifications of directors of national banks.

On March 1, 1921, House bill 11307, in relation to the qualifications of directors of national banks, became a law through the signature of the President. The text of the new measure is as follows:

[Public-No. 349-66TH Congress.]

fH. R. 11307.1

AN ACT To amend section 5146 of the Revised Statutes of the United States in relation to the qualifications of directors of the National Banking Association.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 5146 of the Revised Statutes of the United States be so amended as to read as follows:

be so amended as to read as follows:

"SEC. 5146. Every director must, during his whole term of service, be a citizen of the United States, and at least three-fourths of the directors must have resided in the State, Territory, or District in which the association is located, or within fifty miles of the location of the office of the association, for at least one year immediately preceding their election, and must be residents of such State or within a fifty-mile territory of the location of the association during their continuance in office. Every director must own in his own right at least ten shares of the capital stock of the association of which he is a director, unless the capital of the bank shall not exceed \$25,000, in which case he must own in his own right at least five shares of such capital stock. Any director who ceases to be the owner of the required number of shares of the stock, or who becomes in any other manner disqualified, shall thereby vacate his place."

Approved, March 1, 1921.

Amendments to State banking laws.

funds to meet such acceptances, the principal bank also must include the amount of the legislatures, which amend the State banking

laws, are published for the information of the Federal Reserve Banks and member banks:

OKLAHOMA.

House bill No. 393, recently enacted by the Oklahoma Legislature, is substantially the same as the act recommended by the Federal Reserve Board and the American Bankers' Association to bring about greater coordination in the powers of State and national banks and to promote uniformity in State and Federal banking laws. The Oklahoma act reads as follows:

Be it enacted by the people of the State of Oklahoma: Section 1. The words "Federal Reserve Act" herein used shall be held to mean and to include the act of Congress of the United States approved December 23, 1913, as heretofore and hereafter amended.

The words "Federal Reserve Board" shall be held to

mean the Federal Reserve Board created and described

in the Federal Reserve Act.

The words "Federal Reserve Bank" shall be held to mean the Federal Reserve Banks created and organized

under authority of the Federal Reserve Act.

The words "member bank" shall be held to mean any national bank, State bank, or banking and trust company which has become or which becomes a member of one of the Federal Reserve Banks created by the Federal Reserve Act.

Sec. 2. That any bank or trust company incorporated under the laws of this State shall have the power to subscribe to the capital stock and become a member of a

Federal Reserve Bank.

Sec. 3. Any bank or trust company incorporated under the laws of the State of Oklahoma which is, or which becomes a member of a Federal Reserve Bank, is by this act vested with all powers conferred upon member banks of the Federal Reserve Banks by the terms of the Federal Reserve Act as fully and completely as if such powers were specifically enumerated and described herein, and all such powers shall be exercised subject to all restrictions and limitations imposed by the Federal Reserve Act, or by regulations of the Federal Reserve Board made pursuant thereto: Provided, however, That this section shall not limit the duties and powers of the bank commissioner and the banking board to supervise, regulate, administer all State banks and trust companies nor limit the power of the bank commissioner to declare such bank act vested with all powers conferred upon member banks the power of the bank commissioner to declare such bank or trust company to be an insolvent institution, and to take charge thereof for the purpose of winding up its affairs as may now or hereafter be provided by law.

SEC. 4. A compliance on the part of any such bank or trust company with the reserve requirements of the Federal Reserve Act shall be held to be a full compliance with those provisions of the laws of this State which require banks or trust companies to carry or maintain reserve other than such as is required under the terms of

the Federal Reserve Act.
SEC. 5. Any such bank or trust company shall be subject to the examinations required under the terms of the Federal Reserve Act, and the authorities of this State having supervision over such bank may, in their discretion, accept such examination in lieu of the examination required under the laws of this State. Such authorities, their agents and employees, may furnish to the Federal Reserve Board, the Federal Reserve Banks, or to examiners duly appointed by the Federal Reserve Board, or the Federal Reserve Banks, copies of all examinations made, and may disclose to such Federal Reserve Board,

Federal Reserve Banks, or examiner, any information with reference to the condition or affairs of State banks or trust companies organized under the laws of this State which become members of a Federal Reserve Bank, or which apply for membership in a Federal Reserve Bank.

Sec. 6. Any bank or trust company incorporated under the laws of this State which is or which becomes a member of the Federal Reserve Bank shall not be limited in its borrowing or rediscounting with the Federal Reserve Bank of which it is a member.

Sec. 7. All acts and the parts of acts inconsistent herewith are hereby repealed.

INDIANA.

House bill No. 40, recently enacted by the Indiana Legislature, amended the laws of that State relating to loan, trust, and safe deposit companies so as expressly to authorize such companies-

to purchase and hold, for the purpose of becoming a member of a Federal Reserve Bank, so much of the capital stock thereof as will qualify it for membership in such reserve bank, pursuant to an act of Congress approved December 23, 1913, entitled the "Federal Reserve Act;" to become a member of such Federal Reserve Bank, and to have and exercise all powers, not in conflict with the laws of this State, which are conferred upon any such member by the Federal Reserve Act.

Commercial Failures Reported.

The wide margin of increase in commercial failures in the United States, as compared with the exceptionally low mortality of 1920, continues in evidence, 1,043 defaults being reported to R. G. Dun & Co. during three weeks of April, as against only 337 in the corresponding period of last year. For the month of March, the latest month for which complete statistics are available, the returns dis-close 1,336 insolvencies for \$67,408,909 of liabilities. These figures are not only greatly in excess of the 566 defaults for \$12,699,325 in March, 1920, but the number is the largest for that particular month since 1916, while the indebtedness is the heaviest on record for any one month Separated according to Federal Reserve districts, the March statement discloses numerical increases in all instances in comparison with that of March of last year, the differences being marked in practically all cases. The liabilities are, moreover, larger in every district, this exhibit being especially unfavorable.

Failures during March.

District.	Num	ber.	Liabil	ities.
District.	1921	1920	1921	1920
First	. 88	54	\$8, 259, 999	\$866,304
Second	.l 248 l	139	30, 836, 832	6,213,228
Third	. 63	33	1,082,413	644,375
Fourth	. 88	63	2,767,384	553, 082
Fifth Sixth	152	36 34	2,918,460	464, 017
Seventh	138	64	2,397,390 3,438,805	382, 988 1, 420, 313
Eighth	108	31	5, 273, 193	524, 242
Ninth	27	18	703, 571	209, 558
Γ enth	. 66 1	11	4, 189, 798	42,557
Eleventh	.] 98 [19	2,702,583	203, 445
Twelfth	. 137	64	2, 838, 475	1, 175, 216
Total	. 1,336	566	67, 408, 909	12,699,325

State Banks and Trust Companies Admitted.

The following list shows the State banks and trust companies which have been admitted to membership in the

Federal Reserve System during the month of April, 1921. One thousand five hundred and fifty-three State institutions are now members of the system, having a total capital of \$550,847,840, total surplus of \$526,228,748, and total resources of \$10,201,999,550.

	Capital.	Surplus.	Total resources.
District No. 4.			
The Midland Bank, Cleveland, Ohio. East Pittsburgh Savings & Trust Co., East Pittsburgh, Pa	\$2,000,000 125,000	\$400,000 175,000	\$2, 400, 913 3, 837, 606
District No. 5.	120,000	170,000	0,001,000
Bank of Edenton, Edenton, N. C Carolina Bank & Trust Co., Hender-	66, 900	66, 900	897, 550
son, N. C. Farmers Bank & Trust Co., Winston- Salem, N. C.	100, 000 250, 000		417, 276 1, 108, 876
District No. 6.			
Citizens Bank of Lake Wales, Lake Wales, Fla Douglasville Banking Co., Douglas- ville, Ga. Peoples Bank, Greenville, Ga. The Bank of Soperton, Soperton, Ga.	50, 000 65, 000 30, 000 25, 000	5, 000 45, 000 27, 606 25, 000	55, 000 560, 960 187, 585 319, 666
District No. 8.		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Bank of Commerce, Earle, Ark	150,000	30,000	902, 479
District No. 9.			
Moccasin State Bank, Moccasin, Mont. Security Savings Bank, Rapid City, S. Dak.	25,000 50,000	6,000 15,000	196, 684 524, 620
District No. 11.		,	,
Security State Bank of Decatur, Decatur, Tex. State Bank of Commerce, Com-	60,000	••••	137, 457
merce, Tex. First State Bank of Perrin, Perrin, Tex.	50,000 25,000	12,500	273, 111 184, 722
First State Bank of Quinlan, Quinlan, Tex	25,000	5,000	141,361
District No. 12.			
Citizens Savings Bank of Pasadena, Pasadena, Calif E. G. Young & Company Bank,	300,000	32, 100	2, 867, 161
Oakland, Oreg	50,000	15,000	753, 002
Eastern Oregon Banking Co.,	25,000	10,000	203, 738
Shaniko, Oreg	50,000	10,000	299, 265

WITHDRAWALS.

Kilgore State Bank, Kilgore, Nebr. The Farmers State Bank, Allen, Nebr.

LIQUIDATIONS.

Union Trust & Savings Bank, Sioux City, Iowa. Farmers Guaranty State Bank, Jacksonville, Tex. First State Bank of Henderson, Henderson, Tex. Mountainair State Bank, Mountainair, N. Mex. Marine Bank of Norfolk, Norfolk, Va.

The Commercial Exchange Bank, New York, N. Y., has converted into the Commercial Exchange National Bank.

Long Beach Savings Bank & Trust Co., Long Beach, Calif., to Long Beach Trust & Savings Bank.

Fiduciary Powers Granted to National Banks.

The applications of the following banks for permission to act under section 11(k) of the Federal Reserve Act have been approved by the Board during the month of April, 1921:

DISTRICT No. 2.

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

The National Bank of Cohoes, Cohoes, N. Y.

DISTRICT No. 4.

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

DISTRICT No. 5.

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

The Planters National Bank of Fredericksburg, Va.

DISTRICT No. 7.

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

Merchants & Illinois National Bank of Peoria, Ill.

DISTRICT No. 9.

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

The First National Bank of Eveleth, Eveleth, Minn.

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

The Northern National Bank of Duluth, Duluth, Minn.

Acceptances to 100 Per Cent.

Since the issuance of the April Bulletin the following banks have been authorized by the Federal Reserve Board to accept drafts and bills of exchange up to 100 per cent of their capital and surplus:

The Riddell National Bank of Brazil, Ind. The First National Bank of Ittabena, Ittabena, Miss.

New National Bank Charters.

The Comptroller of the Currency reports the following increases and reductions in the number and capital of national banks during the period from March 26 to April 29, 1921, inclusive:

	Banks.	Amount.
New charters issued to. With capital of. Increase of capital approved for.	18	\$1,650,000
With new capital of		5,700,000
creasing capital. With aggregate of new capital authorized Number of banks liquidating. Capital of same banks. Number of banks reducing capital	14	7,350,000 960,000
Reduction of capital. Total number of banks going into voluntary or involuntary liquidation or reducing capital	•••••	Ö
Aggregate capital reduction Consolidation of national banks under the act of Nov. 7, 1918. Capital		960,000
The foregoing statement shows the aggregate of in- creased capital for the period of the banks em-		100,000
braced in statement Against this there was a reduction of capital owing to liquidations, etc.		7,350,000 960,000
Net increase		6,390,000

BUSINESS AND FINANCIAL CONDITIONS ABROAD.

ENGLAND.1

The strike of something like a million miners in England on April 1 has been the fact of outstanding importance there during the month. This strike did not come as an unexpected or unnatural development, but rather is the latest incident in a long series of unfortunate circumstances which have disorganized the industry during recent years. In the last issue of the BULLETIN reference was made to the present condition of the industry and a brief description given of recent developments such as the abnormal profits obtained from export coal during the first part of 1920, the application of these profits to the subsidizing of the domestic price, the decline in export demand with the resultant deficit in industrial revenues in the last quarter of 1920, and finally decontrol or the removal of Government support from the industry on April 1. According to the coal mines emer-gency act, decontrol was not to occur until August 31, 1921; the Government, therefore, in removing its support of the industry on April 1, or five months earlier than the date set, laid itself open to attack from both miners and owners, since the latter groups were guaranteed a fixed rate of wages and profits under Government control. This precipitated, fixed the date, and furnished one of the ostensible causes for the strike, although the underlying reasons for it must be sought elsewhere.

The conditions of coal mining in England are such that the rate of return both as to production and profits varies greatly from district to district. The high-cost mines, however, have been in operation during the war and during the period of heavy foreign post-war demand. The miners in demanding a national wage agreement and a national pool of profits to make possible the payment of uniform wages, raised the question whether these high-cost mines are to continue in opera-tion, and if so, whether wages paid for work in them are to be subsidized from surplus returns from the more valuable mines, from Government subsidy, or by some other means. Fundamental economic conditions in England make the question of operation of high-cost mines a more pertinent one than it would be in a country like the United States. In the first place, coal is a so-called key or indispensable industry. By its export England provides cargo for outgoing vessels which otherwise

Before the strike was called the miners, mine owners, and Government had been in consultation over the question of the readjustment that was to occur in the industry with the removal of control. The owners had made the following offer:

(1) That the wages prevailing in July, 1914, in each colliery be the point below which wages should not be automatically reduced; that wages be computed on the basis of percentage increases, not flat rate advances from the base

wage.

(2) That owners' profit in each district be 17 per cent of the aggregate wages paid.

(3) That in case of surplus profits, the workmen receive 80 per cent and the operators 20 per cent.

These propositions obviously were not in harmony with the proposals of the miners for a national wage agreement, providing as they do for a solution of the problem along district lines. They were, however, referred by the executives of the Miners' Federation to the different producing districts for a ballot; with a result entirely unfavorable to the proposals. The reason for the unwillingness of the miners to meet the owners on these or later proposals was apparently due in the main to a determination on the part of the miners to obtain a permanent settlement of the coal-mining problem without further delay. The result was a strike order, effective April 1, followed about a week later by the threat of a sympathetic strike on the part of the other members of the triple alliance, namely, the railway men and the transport workers.

During the course of April and early May negotiations have continued between the miners, owners, and the Government, with the result that concessions have been made on all sides. Although at the time of writing no definite agreement has been reached, the Government has offered a temporary subsidy to prevent wages from declining below a certain point, and the mine owners have suggested that wage agreements be made on the basis of

would have to charge excessive freight rates on incoming foodstuffs and raw materials. In addition, a country engaged in industry on the scale that Great Britain is needs large quantities of fuel easily available. The contention of the miners is that these high-cost mines should not be operated at the expense of labor but that instead some method should be found for equalizing wage rates throughout the industry.

 $^{^1}$ British price, trade, and financial statistics will be found on pp. 601, 602, 605, 606, 608 of this issue of the Bulletin

the "area"—a larger unit than the so-called "district," but not on a national basis.

Meanwhile the statistics which have been published in the course of the negotiations further emphasize the difficulties in the way of obtaining a satisfactory adjustment of the industry along conventional lines. The wages offered by the mine owners on April 1 show extreme variations from district to district for the same work, the reductions amounting to from 40 to 50 per cent in the case of the South Wales district and to not much more than 15 per cent in Yorkshire. The reductions would seem, however, to average closer to 30 than to 20 per cent. With the decrease in the cost of living not more than 20 per cent, according to official figures, it is not surprising that a strong organization like the Miners' Federation will not submit to wage reductions of these dimensions. On the other hand, the latest figures showing the deficits in the finances of the coal industry make clear the problem of the owners and the Government. The deficit for January and February amounted to £9,426,000, or about £1,178,000 a week, while the deficit for March was £5,259,000. deficits are not entirely due to the decline in the price of coal but are also due in part to a diminished output per man.

The problem presented by the present condition of the coal industry is somewhat more extreme than that existing in most industries, but in essentials it is not different from one of the most pressing general economic problems of the present time—namely, the adjustment of wages to the downward trend of prices. In England, a fairly large number of wage agreements are based upon the adjustment of wages to the cost of living. In these cases reductions have already been made in accordance with the lower level of retail prices. Among the largest groups to be affected in this fashion are railway workers, woolen and worsted operatives and workers in the hosiery trades. Others who have suffered reductions either under sliding scale agreements or outright are certain classes of workers in the iron and steel industry and silk operatives. In May, 500,000 cotton operatives will be affected by revisions in wages in that industry.

Meanwhile wholesale and retail prices have continued to decline, although at a somewhat slower rate than earlier in the year. The Statist index shows a reduction of 3 per cent in the price level as a whole for the month of March while the Board of Trade shows a reduction of 7 per cent. The greatest reductions occurred in the mineral and textile groups according to both index numbers. In spite of

a reduction of 33 per cent in the Statist index since last April when it reached its peak, prices are still approximately 108 per cent above prewar. The index number of the cost of living constructed by the Ministry of Labor shows a reduction of 6 per cent during March.

Unemployment has continued to increase during the month. The figures published by the Ministry of Labor show 10 per cent of trade-union members unemployed at the end of March, while those out of work who are insured against unemployment reached the high total of 1,355,206.

Per cent of trade-union members unemployed (membership 1,528,001 at end of March).¹

1920.	
End of	
March	1.1
April	. 9
May	1.1
June	
July	1, 4
August	1, 6
September	2, 2
October	5.3
November	3, 7
December	6.0
1921.	
End of—	
January	6.9
February	8.5
March	10.0

¹ Short time and broken time are not reflected in the figures. In the mining and textile industries a contraction in the demand for labor is generally met by short-time working.

A study of the movement of prices of individual commodities shows that in England, as in the United States, the reductions in commodity prices have been very uneven, both comparing them from industry to industry and from one branch of a given industry to another. On the whole the prices of the group of commodities which feed into the clothing trades and nonferrous metals appear to be nearer prewar levels than any other groups. For instance, certain grades of wool and hides are below prewar levels, while cotton is only slightly above it. Typical grades of worsted yarn and finished shoes, on the other hand, are still 100 per cent above the 1913 level, and cotton yarn and cloth are at least 50 per cent higher than before the war. At the same time coal prices-both bituminous and anthracitein March were twice as high as in 1913, and typical grades of pig iron and finished and semifinished steel products about three times the prewar level. In the same way cereals and meats are still far higher than before the war. It is such maladjustments as these, as well as the maladjustment between prices at various stages of the distributive process, that is retard-

The following figures show the changes which have occurred during recent months in the volume of production in certain leading industries:

	Production (metric tons).			Ship tonnage	
	Coal.	Pig iron.	Steel in- gots and castings.1	under construc- tion (gross tons).	
Monthly average, 1913	000's. 24, 336	060's. 869	000's. 649	2 2, 002, 699	
1920. March	19, 505 17, 131 22, 131 19, 048 22, 926 16, 970 18, 885 3 14, 044 15, 920 20, 230	710 655 738 726 750 752 741 533 404 675	840 794 846 845 790 709 885 544 505 747	3,394,425 3,578,000 3,731,000 3,709,000	
1921. January February March	³ 21, 805 17, 369 16, 437	642 463 4 386	493 484 4 358	5 3,799,000	

Announcement was made on April 28 of a reduction in the discount rate at the Bank of England from 7 to $6\frac{1}{2}$ per cent. This is the first change in the rate since April, 1920, the 7 per cent rate having been effective for the unprecedentedly long period of a year and two weeks. Prior to this change in the rate at the Bank of England, the rate of interest on treasury bills was reduced for the second time within a period of six weeks. Treasury bills had been offered at 6½ per cent since April, 1920, when the rate was reduced to 6 per cent on March 11. On April 27 the rate was further reduced to 53 per cent. Meanwhile on April 11 the chancellor of the exchequer announced that the method of selling treasury bills would be changed from the continuous day to day "over the counter" system to the method of sale by tender, which was customary before the war. Government control has been exercised over the money market by the continuous unlimited sale of treasury bills, with only temporary interruptions, since April, 1915. With the return to the prewar method of sale of a fixed quantity of bills at a specified date, this continuous control is lifted.

Receipts and expenditures for the fiscal year closing March 31, balanced remarkably well so far as the national accounts were concerned. The net surplus for the year 1920-21 had been estimated at £234,000,000, and the actual surplus reached £230,000,000, or only £4,000,000

less than the estimate. The new budget for the year 1921-22 was introduced on April 25, and provides for expenditures of £1,040,000,000 and revenue of £1,216,500,000. As had been announced at an earlier date, the excess profits duty was not retained in the budget and no substitute for it was suggested. Certain indirect taxes were likewise reduced. At the same time that the budget was introduced the chancellor of the exchequer proposed a new scheme for handling the floating and semifloating debt. Holders of 5 per cent national war bonds maturing before 1925 are to be offered the opportunity to convert their holdings into 3½ per cent bonds maturing in 1961. This offer is apparently preliminary to some further funding operations in connection with the floating debt.

Foreign trade during the month of March showed a further decline in value. Imports were valued at £93,742,000, as compared with £96,974,000 in February, exports at £66, 809, 000, as compared with £68,222,000 and reexports at £8,888,000, as compared with £8,004,000. The commodities in the export group which suffered the greatest decline were iron and steel manufactures, cotton yarns and cloth, and wearing apparel. Imports of foodstuffs remained approximately the same as last month, but imports of raw materials, such as cotton, wool, and nonferrous

metals, were considerably reduced.

Two bills came up for consideration during the month which may have a material effect upon England's import trade. German reparations recovery act, which was made effective March 31, provides that importers of German goods are to pay to the customs officials up to 50 per cent of the total value of the goods imported. The bill also provides that goods partially manufactured outside of Germany but 75 per cent of whose value is due to German production are likewise subject to tax. This measure is a device for obtaining reparations payments from Germany, and it is possible that if reparations are otherwise provided for the bill may be repealed. Its execution will undoubtedly hamper free movement of commodities, not only between Germany and Great Britain, but also between Great Britain and other European countries. The second measure referred to above is the socalled antidumping bill, providing for the protection of certain key industries and for the imposition of a duty of 33¹/₃ per cent on any articles which are being offered for sale in England under the following conditions:

(a) At prices below the cost of production thereof; or (b) at prices which, by reason of depreciation in the value in relation to sterling of the currency of the country in which the goods are manufactured, are below the prices

¹ Revised figures.
2 Average of 4 quarterly estimates.
3 5 weeks.

⁵ Weeks.
4 Provisional.
5 Work suspended on all but 2,952,000 tons.

at which similar goods can be profitably manufactured in the United Kingdom; and that by reason thereof employment in any industry in the United Kingdom is being or is likely to be seriously affected * * *

If this bill is actually applied, it will serve as a very material barrier against foreign im-

portations.

Developments in the foreign exchange market during the month have been largely dependent upon the labor situation. Sterling exchange on the New York market advanced until the end of March, reaching at that time the highest point since last July. At the commencement of the coal strike there was a reaction which was not again overcome until the strike order of the triple alliance was rescinded. The New York rate stood at \$3.935 on April 23.

FRANCE.1

On March 19 M. Henry Cheron, the new reporter general of the French Senate's commission on finance, presented his report on the budget for 1921. In the course of his review of French finances, M. Cheron emphasized the necessity for reducing the Government's floating debt, and particularly that part of the debt which consists of advances from the Bank of France. France's total debt as of March 1, 1921, is, according to this latest report, made up of the following items:

FRENCH PUBLIC DEBT, MAR. 1, 1921.

[In millions of francs.]

Interior debt, perpetual and term	60,890 $25,600$
Total	302, 735

 $^{^{\}rm 1}\,\mathrm{Calculated}$ at the exchange rates of Feb. 28, 1921.

M. Cheron added that claims for war pensions, soon to be presented, will necessitate a

great increase in the debt.

Despite the request of the finance minister and the pressure of public opinion, the Senate's examination of the budget was not concluded by the end of the month, and it was necessary to pass a provisional credit for April. When the 1921 budget was presented to the Chamber of Deputies last October it was generally considered so much like the budget for 1920 as to insure its quick enactment into law. The Chamber was desirous, however, of making current receipts balance all current expenditures, except those for which Germany is eventually responsible. A great deal of time was consumed in attempting to reduce the estimates for ex-

penditure submitted by the various departments, and the Chamber did not finish its work on the budget until well into 1921. By that time it had become evident that the new taxes enacted last June were not producing as much revenue as had been expected of them. Receipts from the tax on total business turnover, in particular, have been disappointing, having fallen 1,906,000,000 francs below budget estimates. The following table shows receipts from this tax by months since its enactment, as compared with the receipts expected:

RECEIPTS FROM THE TAX ON TOTAL BUSINESS TURN-OVER SINCE ITS ENACTMENT.

[In thousands of francs.]

	Receipts.	Compared with budget estimates.
1920.		
July August	2,608	+ 1,608 + 2,687
August	3,687	+ 2,687
September	292, 792	-407, 209
October	234, 434	-225, 566
November	205, 492	-254,508
December	203, 175	-259,158
1921.		
JanuaryFebruary	183, 683	-231,984
February	151, 571	-264,096
March	147, 628	-268,039
Total	1, 425, 070	-1, 906, 265

This disappointing result is evidently due to the fact that the revenue from the tax was estimated on the basis of the high price level which prevailed in France last spring (1920), no allowance being made for the decline in prices which has occurred since that time. In April, 1920, the wholesale price index of the Bureau de la Statistique Générale stood at 588 (using 1913 prices as 100), while in March, 1921, it had fallen to 356, or almost 40 per cent.

In 1920 some of the other indirect taxes yielded more revenue than had been expected of them, so that total receipts from indirect taxes and Government monopolies for the year exceeded budget estimates. In the first three months of 1921, however, there has been a deficit not only in receipts from the total business turnover tax but also in total receipts from indirect taxes and Government monopolies, which amounts to about 671,000,000 francs. In March the difference was the result of deficits in the customs, post-office, and sugar tax receipts, as well as in the tax on business turnover.

The great change which has been taking place in French industrial life during the last six months is illustrated by foreign-trade figures recently published for the first quarter of 1921.

¹ French price, trade, and financial statistics will be found on pp. 601, 603, 605, 607, 608 of this issue of the BULLETIN.

Instead of the usual excess of imports (an excess which amounted to 35,799,000,000 francs in 1919 and 12,970,000,000 francs in 1920), there was an excess of exports for the first quarter of 1921 which amounted to 129,000,000 francs. However, as the following table indicates, this surplus was all achieved in one month of the quarter, and during the other two months (January and March) there was a small excess of imports.

FRENCH FOREIGN TRADE.1

In millions of francs.!

	Imports.	Exports.	Excess of imports (+), exports (-).
1921. January February. March.	1,982 1,614 1,743	1,883 1,899 1,686	+ 99 -285 + 57
Total	5,339	5,468	-129

¹ Calculated in 1919 values.

The surplus of exports during February and the very small surplus of imports during January and March is due as much to the de-cline of imports of food and raw materials into France as to the increase in French exports. Exports for the first quarter of 1921 are larger than those for the same period in 1920 by about 1,000,000,000 francs, but exports for March, 1921, are smaller than those for August, 1920 (when last year's peak was reached according to all the figures now available), by about 700,000,000 francs. The decline in imports is even more marked. Total imports for March, 1921, are valued at 1,988,000,000 francs less than imports for March, 1920, which marked the high point in the import trade of last year.

This decline in imports is partly due to the fact that France is now more nearly able to support herself than she was during and immediately after the war, but it is also due to the slackening of industrial production which has taken place in France as in the rest of the world in the last six or eight months.

Before this slowing down began, however, France had given convincing evidence of the extent to which her industries had readjusted themselves to peace-time conditions. An examination of detailed foreign trade figures for 1920 shows how prosperous the export trade in certain commodities became during that year. The amount of wines, semifinished iron and cently published by the ministry of finance:

steel products, broad silks, clothes of all kinds, leather and leather manufactures, machinery and machines, other metal manufactures, automobiles, and rubber manufactures, exported during 1920, exceeded, in some cases, by a wide margin, the amount exported in 1913. The following table gives a brief survey of the quantity and value of France's chief exports in **1**920:

EXPORTS FROM FRANCE, CALENDAR YEAR 1920.

	In thousands of quintals.			In millions of francs.		
	1913	1919	1920	1913	1919	19201
Wines	1,908	1,357	2,136	203	365	531
Raw wool	807	109	418	310	241	964
Pig iron, iron, and steel	10,083	3,666	13,594	87	181	710
Chemical products (except			'			i
nitrate of soda)	11, 126	4,019	9,193	211	326	1,119
Yarns	505	148	246	212	269	559
Cotton cloth	554	350	469	385	782	1,269
Woolen cloth	234	55	143	220	249	629
Broad silk	67	62	77	429	1,472	1,867
Clothes of all kinds	78	32	100	253	809	1,657
Leather	154	101	188	145	323	517
Leather manufactures	46	36	101	89	304	662
Machinery and machines	823	541	905	123	270	529
Metal manufactures	1,492	356	1,527	137	153	548
Automobiles	258	59	502	227	125	1,188
Rubber manufactures	69	112	188	100	274	462

¹ Expressed in 1919 value units.

The distribution of France's foreign trade during the year 1920 furnishes an interesting commentary on the condition of her exchanges. The countries from which she imported most are the United States, England, Germany, Belgium, and Argentina. (Imports from Germany include imports of coal and coke, valued at 1,365,000,000 francs, and of other materials imported on reparations account, which have, of course, no effect on the exchange situation.) France exported most during 1920 to Belgium, England, Algeria, the United States, Switzerland, and Germany. The excess of her imports over her exports (although it was smaller than it had been since before the war) amounted to 12,970,000,000 francs, of which 5,291,000,000 francs represent the excess of imports from the United States over exports to the United States. England, Belgium, and Argentina are the other countries with which the trade figures show this same inequality, and they partly explain the unfavorable state of French exchanges during the year.

The following table sets forth French foreign trade by countries in 1920 as it has been reFOREIGN TRADE OF FRANCE, CALENDAR YEAR 1920. [In millions of francs.]

	Imports.	Exports.	Excess of imports (+); exports (-).
England	6,747 2,658	3,512 1,180	
Germany	2,569	3,914	-1,345
SwitzerlandSpain.	849	1,442 884	- 35
Italy. United States	7,062	1,062 1,771	- 170 + 5,291
Brazil	2,054	304 379	+ 349 + 1,675
Other foreign countries	960	4,602 1,926	+ 3,291 - 966
Tunis. Morocco	152	318 494	- 99 - 342
Other French colonies and protectorates.	—— <u> </u>	647	+ 1,247
Total	35, 405	22,435	+12,970

¹ Expressed in 1919 value units.

There have been several slight changes in the situation of the Bank of France in March. The increase in the amount of gold reserve held in France amounted to about 1,000,000 francs during the month and the increase in the silver reserve to about 3,000,000 francs. The note circulation also increased, the difference between the notes in circulation in the last week of February and in the last week in March being about 627,000,000 francs. Deposits, however, declined to the extent of about 189,000,000 francs.

The wholesale price index of the Bureau de la Statistique Générale declined 20 points, or 5 per cent, during March, as compared with a decline of 31 points, or almost 8 per cent, in February. All the group indexes except those for vegetable foods and for sugar, coffee, and cocoa declined, the greatest decrease occurring in the indexes for animal foods and for sundries.

The nonferrous metal market displayed greater firmness during March than in the month previous. Aluminum prices declined, but lead and zinc rose slightly, and tin prices fluctuated, closing the month not far from

their end of February level.

The price of metallurgical coke (which is still regulated by the Government) was again reduced and fixed at 125 francs as of March 20, 1921. The effect of this decrease upon steel prices is not yet clear, as other factors have

also contributed to the continued decline of prices in that industry.

Textile prices were irregular during March. Japanese raw silk rose in price because of a shortage at the end of month; Canton, Italian, and French raw silk prices remained practically unchanged. Contract prices for cotton at Havre were also firmer, but Buenos Aires fine wool in the same market fell sharply.

French retail prices also declined in March. According to the Paris index number of the Bureau de la Statistique Générale the decline amounted to about 6 per cent. As a result of the decline in retail prices the mechanical industries of the Paris region have decreased the cost of living bonuses which they have been

granting to their employees.

The Bureau de la Statistique Générale has recently made public its retail price indexes for the various regions of France. These figures show that at present, as before the war, retail prices in the west are lower than in any other part of France, while prices in the north are higher than in any other section. The following table summarizes the figures given out on this subject:

RETAIL PRICES IN FRANCE 1 BY DISTRICTS.

	France.	North.	East.	South- east.	Cen- ter.	West.	Alsace- Lor- raine.
1913, 1st quarter 1914, 3d quarter 1920:	1,020 1,004	1,043 1,089	989 988	1,036 1,018	1,038 988	985 942	1,084
1st quarter 2d quarter 3d quarter 4th quarter 1921, 1st quarter		3,299 3,959 4,117 4,693 4,450	3,155 3,800 3,859 4,456 4,218	3,228 3,876 3,884 4,522 4,266	3,223 3,744 3,777 4,423 4,203	3,085 3,533 3,648 4,345 4,180	3,092 3,853 3,992 4,530 4,424

¹ Based on the prices of eleven foods, kerosene, and alcohol.

ITALY.1

Italian foreign trade figures for the entire year 1920 are now available, valued on the basis of 1919 prices. Comparison can therefore be made of the volume of trade in the two years. The table below contains the figures showing the situation in 1919 and 1920 on a monthly basis.

¹Italian price, trade, and financial statistics will be found on pp. 601, 603, 607, 609 of this issue of the Bulletin.

ITALY'S FOREIGN TRADE IN 1919 AND IN 1920.

- 1	Precious metals not included.	In millions of lire based on 10	10 value units I
	I recious metals not moluted.	III minious of me, pased on is	is value umito.

	Imports.		Exports.			Excess of imports over exports at end of month—i. e., cumulative.			
	1919	1920	Difference.	1919	1920	Difference.	1919	1920	Difference.
January. February March. April. May June July August September October November. December	1, 368 1, 656 1, 651 1, 364 1, 431 1, 555 872 1, 529	1, 002 1, 141 1, 431 1, 363 1, 401 2, 076 1, 040 1, 249 1, 202 1, 126 1, 240 1, 591	-59 -227 -225 -288 +37 +645 -515 +377 -327 -65 -43 -72	260 301 367 350 358 484 432 548 662 755 717	497 616 683 679 662 752 521 532 571 707 731 853	+237 +315 +316 +329 +304 +268 +89 -16 -92 -48 +14 +21	801 1, 868 3, 157 4, 458 5, 464 6, 411 7, 534 7, 863 8, 725 9, 160 9, 726 10, 557	505 1, 030 1, 778 2, 462 3, 201 4, 525 5, 044 5, 761 6, 392 6, 811 7, 320 8, 058	
Total	16, 623	15, 862	-761	6, 066	7, 804	+1,738	10, 557	8, 058	-2,499

customshouse statistics, had a value of 15,862,-000,000 lire, as compared with 1919 imports valued at 16,623,000,000 lire, thus showing a decrease of 761,000,000 lire for the year. This shows a decrease in actual volume of imports, since in both cases the figures are based upon 1919 prices. Exports in 1920, valued on the same basis, totaled 7,804,000,000 lire, exceeding those of 1919 by 1,738,000,000 lire. Although the excess of imports over exports remains very large, aggregating 8,058,000,000 lire, it is considerably lower than the excess of imports in 1919, which was valued at 10,557,-000,000 lire. This improvement of nearly 000,000 lire. This improvement of nearly 2,500,000,000 lire shows the relative increase in the physical volume of aggregate exports as compared with aggregate imports during the year. In the following table the ratios of exports to imports in recent years are presented:

RATIO OF THE VALUE OF EXPORTS TO IMPORTS, 1900-1920.

Average 1900–1913	72.8
1914	75.6
1915	53. 9
1916	36. 8
1917	21.6
1918	20. 9
1919	36. 5
1920	
	10.4

It is apparent from the first table above that neither the decrease of imports nor the increase of exports were uniform throughout the year. During the first four months of 1920 the imports showed a decrease of 799,000,000 lire as compared with the same period in 1919. This decrease is greater than the total for the entire year. In May and June, however, an increase of imports set in, which was mainly due to the heavy demand for foreign grains, cotton, woolens, alcohols, and

Italian imports during 1920, as shown by statistics, had a value of 15,862,00,000 lire, as compared with 1919 imports for by the heavy importation of metals and metal goods.

Exports during the first six months of 1920, on the other hand, exceeded those of the corresponding period of 1919 by 1,769,000,000 lire, which again is more than the total increase in exports for the year. In the second half of the year the export trade slackened as a result of industrial depression in foreign countries, and figures for August, September, and October are lower than those for the corresponding months in 1919. The export trade in cotton goods and silk were particularly seriously affected. In fact, 1920 exports of silk up to the end of November were valued at 90,000,000 lire less than those of a similar period in the preceding year, while at the end of June they had exceeded those of the first six months of 1919 by 459,000,000 lire.

It would seem that the reduction in imports occurred in those commodities which are usually imported in the greatest quantity; in other words, raw food materials and metals. Thus during the first 11 months of 1920, the latest period for which detailed figures are available, imports of animals and animal products amounted to 780,000,000 lire as compared with 1,855,000,000 lire in the same period of 1919; imports of cereals, fruits, and vegetables showed for the same period a decrease of about 360,000,000 lire; while imports of metals and minerals and their products decreased similarly. These and other decreases were compensated to a certain extent by the increase in imports of other classes of goods of which cotton, wool, bristles and furs and their products, silk, timber, alcohol and oils, paints and dyes are the most important.

The commodities in which the greatest improvement was shown in the export trade between the years 1919 and 1920 are chemical goods, including medical and toilet supplies, hemp, flax and their products, cotton and cotton goods, vehicles, and vegetable foods. The export trade in silk decreased during the year.

The chief source from which Italy draws her imports is the United States. During 1920 she imported cotton to the value of 1,097,000,000 lire, grain to the value of 981,000,000 lire, mineral oils valued at 345,000,000 lire, and coal at 307,000,000 lire. Great Britain ranks second as the source from which she obtains her imports. Coal constitutes almost one-third of the value of her total imports from there. Argentina, France, and Germany rank next in order of importance as sources of Italian importation.

France, Switzerland, Great Britain, and United States are the chief countries to which Italy sends her commodities. In the case of France and Switzerland silk constitutes the largest proportion of the exports.

GERMANY.1

Because of the Government's decision to allow an increase in coal and coke prices in Germany, the downward movement of the wholesale price index of the Frankfurter Zeitung was arrested during March. The "all commodities index," published by that newspaper, which had declined 14 per cent from December 1, 1920, to March 5, 1921, decreased only eight-tenths of 1 per cent from March 5 to April 2. Although the increase in coal prices was the determining factor in retarding the decline of the index number, the prices of cement, zinc, lead, nickel, and hides also increased during the month. Among the foodstuffs, the price of milk increased greatly in March, but other important foods, including eggs, corn, condensed milk, rice, wine, cocoa, coffee, peas, and beans, declined in price. There were also sharp price decreases among the textiles, but raw cotton rose slightly.

As the wholesale price index number of the Frankfurter Zeitung now stands, it contains the prices of 77 important commodities. The original computation is based upon prices in January, 1920, equal to 100, and on this basis 9.10 is the index number for the middle of 1914 and 130 for April 2, 1921. It is evident that if the index is recomputed, using 1914 as 100, the index number for January 1, 1920, will be 1,099 and for April 2, 1921, 1,429.

It seems clear from the various indexes prepared on the subject of retail prices in Germany that there has been, since the first of the year, a slight decline in the prices paid by the consumer. Beside its general wholesale price index, the Frankfurter Zeitung compiles a wholesale and a retail price index for 10 foods in Frankfurt, using January, 1920, as 100. On March 1 the wholesale price index registered 105 and the retail price index 122. During the month both indexes declined, the decrease being almost 8 per cent in the case of the wholesale prices and almost 6 per cent in the case of retail prices. This index does not include any meat prices, however.

The most recent figures on the cost of subsistence prepared by the Berlin statistical office also show a slight decline in retail prices. The minimum cost of food for a growing person was estimated by that office to be 58.09 marks in February as compared with 61.23 marks in January, a decline of about 5 per cent.

The index number of total living costs in Germany, prepared by Dr. Elsas and published at intervals in the Frankfurter Zeitung, uses April, 1919, as 100, and stands at 297 on the first of March, 1921, a decline of 14 points, or 4.5 per cent, from the January 1 figure. On this basis the cost of living index on January 1, 1914, was 26.5. The following table shows the distribution of the different elements which go to make up Dr. Elsas's index:

Cost of Living in Frankfurt am Main.

	Apr. 1, 1919.	Nov. 1, 1920.	Jan. 1, 1921.	Mar. 1, 1921.
Food. Clothing. Rent. Heat and light. Miscellaneous.	60 17 8 5	230. 33 27. 97 9. 60 17. 95 29. 86	225, 65 26, 21 9, 60 18, 10 31, 35	212, 92 24, 59 10, 00 18, 10 31, 35
Total	100	315. 71	310. 91	296. 96

The comparative stability of rent costs shown in the above table is due to the fact that rents are regulated by the Government. The increase recorded from January 1 to March 1 is the result of a new regulation which requires tenants to make all necessary repairs.

Along with the decline in wholesale prices in Germany since December there has been an increase in the number of bankruptcies. During the war period, when the Government so largely controlled industry and prices were continually rising, the number of commercial failures was reduced almost to a minimum. During 1920 there was a slight increase in their number, but the increase in the first quarter of 1921 is much more marked, although it is still far below the prewar average. The number of bankruptcies from January to March, 1921,

¹ German price, trade, and financial statistics will be found on pp. 601, 603, 605, 609 of this issue of the BULLETIN.

was 728, as compared with 207 in the first quarter of 1920, and 2,428 in the first quarter of 1914.

What seems to be another consequence of the shift in the trend of business conditions is the comparatively small number of corporations which increased their capital stock during March. During 1920 and January and February, 1921, there was a general movement among German corporations to increase the amount of their capital issues in order to bring them more into accord with the present price level. However, the amount of the capital issues placed upon the German market in March was much smaller than in the first The increases in two months of the year. capital during the month amounted to only 531,000,000 marks, as compared with increases of 1,373,000,000 marks in February and

1,092,000,000 marks in January.

There seems to have been little change in the labor situation in Germany from February 1 to March 1 (the latest date for which figures are available). The German trade-unions report that of their membership of over 6,000,000 on the last of February, 4.7 per cent were out of employment as compared with 4.5 per cent the last of January and 4.1 per cent the last of December. On the other hand, the Government announces that the number of people receiving State aid on account of unemployment fell from 433,204 on February 1 to 428,033 on March 1, a decrease of a little more than 1 per cent, and the public employment agencies note a similar improvement. During January there were 210 applicants for every 100 positions available at these agencies, while during February there were only 206 applicants for every

100 positions open.

The public employment agencies tabulate applicants for positions and positions available by industries and thus furnish an interesting index as to the activity of the various industries in the country. During February there were more applicants for positions in relation to positions open in the textile industry than in any other, but the leather industry, the metal and machine trades, commerce, and the building trades also furnished a great many unemployed. It is interesting to note that the number of women applicants for every 100 positions open amounted to only 133 during February, while the number of men for every 100 positions reached 251. In the case of a few industries, inquiries for workers exceeded applicants for positions. In mining there were only 92 men applying for each 100 positions; in agriculture only 46 women applying for each 100 openings; and in domestic service only 83 women responded to each 100 inquiries. The It compares as follows with the estimated

States where the greatest amount of unemployment occurred during February were Saxony, Hamburg, and Lubeck, although unemployment was also very great in Prussia. The following table gives a survey of the work of the public employment agencies during February:

ACTIVITY OF PUBLIC EMPLOYMENT AGENCIES IN GER-MANY, FEBRUARY, 1921.

		Men.		Women.			
By industries.	Number seeking work.	Number of positions open.	Number of applicants for each 100 positions open.	Num- ber seek- ing work.	Number of positions open.	Number of appli cants for each 100 positions open.	
Agriculture Mining, etc Stone and earth in-	47, 713 15, 084	30, 594 16, 344	156 92	8, 843 110	19, 164 24	46	
dustry Metal and machine	6,960	3, 273	213	•••••			
industry. Chemical industry. Textile industry. Paper industry. Leather industry. Woodworking. Food industries. Clothing and cleaning trades. Building.	101, 649 2, 255 10, 758 3, 168 8, 189 22, 274 27, 842 22, 385 64, 849	28, 491 1, 184 2, 138 950 1, 685 7, 929 8, 366 8, 671 19, 105	357 190 503 333 486 281 333 258 339	13, 031 1, 111 18, 466 3, 921 1, 141 1, 122 5, 846 18, 101	4,239 475. 4,958 2,192 598 506 3,537 9,621	307 234 372 179 191 222 165	
Transformation in- dustries	9, 224	4,512	204	1,732	1, 481	117	
Industries involving artistic work Machinists, etc., in- dustries not speci-	1, 446	192					
fied	65, 655 24, 195 39, 314	18, 855 6, 148 28, 042	348 394 140	46, 939 12, 660 16, 660	9, 991 5, 625 16, 420	470 225 101	
work and house- hold service	237, 018 41, 507	79, 868 26, 558	297 156	87,669 4,748	105, 471 2, 431	83 195	
industries Without professional	20, 627 824	14, 597	141	11,092	4,271	260	
groupings	772, 936	31 307, 533	251	1, 171 254, 303	191, 506	133	
Men and women to-		499, 039	206				

It is quite generally admitted that one reason unemployment in Germany is not more widespread at the present time is that the Government continues to carry so large a number of employees on its pay rolls. The Reichstag commissioner, who was appointed to eliminate extravagance in Government departments, has resigned his position, and a new method for reducing the number of people employed by the Government has now been inaugurated. However, it remains to be seen how the new scheme will work, and the new budget contemplates an increase rather than a decrease in so-called "ordinary expenditure."

The budget for the year ending March 31, 1922, is now in the hands of the Reichstag.

expenditures for the year ending March 31,

ESTIMATED GERMAN GOVERNMENT EXPENDITURES. [In millions of marks.]

	Fiscal year 1920.	Fiscal year 1921.
Ordinary budget. Extraordinary budget. Railway deficit. Postal deficit.	41,600 62,300 } 19,200	47,000 40,500 11,700 2,000
Total	123,000	101, 200

It is expected that taxes already in force will produce 43,800,000,000 marks this year and that new taxes will be enacted and old taxes increased to meet the remaining 3,200,-000,000 marks of the ordinary budget. Theoretically the budget will balance before the year is over. Of the 40,500,000,000 marks to be spent on the extraordinary budget 10,600,-000,000 marks will be met by revenue (including 7,800,000,000 marks from the Reichsnotopfer, which was originally designed to reduce the outstanding debt) and 29,900,000,000 marks by loans. Assuming that the "ordinary budget" receipts and expenditures will balance before the year is over, the estimated deficit for the fiscal year 1921 amounts to 43,600,-000,000 marks, which is smaller than the deficit for the fiscal year 1920 by about 38,000,000,000 marks.

The Leipzig spring fair opened on March 6, and by the 7th the attendance was placed at 90,000, including buyers from England, America, Sweden, Czecho-Slovakia, Bulgaria, and Roumania. The textile display and the exhibits of mechanical apparatus and electrical machines attracted the greatest number of visitors. In general, however, German foreign trade was in a choatic condition during March. The imposition of the 50 per cent import duty on German goods by England, France, and Belgium caused the cancellation of contracts with individuals in those countries by German merchants and further contracts were withheld until the reparations question should be settled.

It is impossible to form any very definite ideas in regard to German foreign trade in 1920. A recent number of the Frankfurter Zeitung quotes figures of the German Government's statistical office on the total value of German exports, January through September, 1920. This total value amounts to 47,170,-000,000 marks, of which 20.9 per cent went to the Netherlands, 9 per cent to Switzerland, 5.7 per cent to Great Britian, 3.1 per 601, 603, 605, 607, 610 of this issue of the BULLETIN.

cent to France, 3.1 per cent to Belgium, and 2.9 per cent to Italy. The article in question does not quote figures on imports for this same period, nor does it state whether exports shipped on reparations account are included in the export figures just quoted. For this reason it is impossible to draw any conclusion as to Germany's balance of trade from this

The March 31 statement of the Reichsbank shows an increase of 1,990,000,000 marks in the note circulation of the bank as compared with the end of February, and a decrease of 587,000,000 marks in the Darlehnskassenscheine in circulation. There was practically no change in the gold reserve held by the bank.

SWEDEN.1

Reports from Sweden indicate that depression in industry there is as serious as in other countries whose development is more exclusively industrial. Production of manufactured commodities in all lines has been heavily reduced, unemployment is growing, prices are on the decline, and the export trade has fallen to one-third of its value six months ago.

Although there was a slight slackening of the rapidity of recession, wholesale prices continued to decline in March. The all commodities index number of the Svensk Handelstidning, computed on the basis of prices in 1913 = 100, dropped from 250 in February to 237 in March, a decrease of 5 per cent as compared with a decrease of 6 per cent in the preceding month. Practically no change occurred in the wood-pulp index, which stands at the high figure of 510 and still far exceeds the index numbers for other commodity groups. Appreciable declines were registered in the index numbers for building materials, coal, and oils. A notable feature was the drop in the price of hides and leather to 15 per cent below the prewar level. The retail price index, computed on the basis of prices in July, 1914= 100, declined from 262 in February to 253 in March, a fall of approximately 3 per cent.

The paper-pulp industry, second only to lumber in importance in Sweden's national economy, is affected by the worst depression in its history. In February only 6,300 dryweight tons of pulp were exported as compared with 210,000 tons in 1913. The pulp market continues absolutely stagnant. To prevent accumulation of stocks, the Norwegian Mechanical Wood Pulp Association approached the Swedish producers with a proposal for a joint stoppage of all mills for a period of five

¹ Swedish price, trade, and financial statistics will be found on pp.

weeks, to be followed by a 50 per cent curtailment in production, until the paper factories again enter the market. Although the Norwegian grinding mills have already decided upon a complete shutdown from April 9 to May 15, no similar action has yet been taken by the Swedish producers.

The strike in the chemical wood-pulp industry, which began early in February, was officially settled at the end of March by the workers accepting a 15 per cent reduction in wages. It is estimated by Affärsvärlden that the reduction in pulp output up to April 6, on account of the strike and the voluntary closing of seven other plants lacking orders, amounted to 77,000 tons of sulphite and 23,000 tons of sulphate pulp, or together 100,000 tons.

A survey of 79 representative industrial enterprises just completed by the Skandinaviska Kreditaktiebolaget discloses the fact that only about one-fourth of the reporting establishments are operating at full capacity or at a capacity reduced by 25 per cent or less. Among those continuing full operations special enterprises whose products are protected entirely or in part by State monopoly. One-fourth of the total returns show a reduction in operations of between 25 and 50 per cent. Of the reporting mills, 28 per cent have retrenched between 50 and 75 per cent of normal capacity, while the operations of the remaining 24 per cent of the mills have been reduced more than 75 per cent. In addition there is a general paucity of orders among the reporting industries. Only about 23 per cent have their order lists filled for three months in advance, while 40 per cent are on a hand-to-mouth basis of operation, with orders booked ahead for a maximum of only two weeks. Moreover, 40 per cent of the mills covered in the inquiry report a reduction of working schedule to sixhour shifts and less.

According to the labor department the Orebro shoe factories are running only 30 to 35 hours a week, while the mechanical and electrical shops have shortened their schedules 12

per cent.

Unemployment, as a result of the unprecedented industrial depression, has become critical. An official labor census taken in February by the Swedish labor exchange registers between 55,000 and 60,000 unemployed. For labor as a whole there were 301 applications per 100 vacancies, as compared with 133 in February, 1913. The increase over the number for January of this year was approximately 22 per cent. Only in domestic service, agriculture, and the special municipal and State enterprises of an emergency nature was the labor demand greater or nearly equal | decline from the figures for the two preceding

to the supply. In industrial lines the depression was greatest in the metal and mechanical trades, which had no less than 6,998 applicants for every 100 occupational openings. In the garment trades the unemployed numbered 1,426 per 100 vacancies. The building trade was the only industrial line showing any appreciable labor demand, the ratio being about 250 applicants per 100 openings.

Among the organized trade-unions reporting a total enrollment of 154,707 members, 20.2 per cent were unemployed on January 31, 1921.

The gravity of the unemployment problem led the Government labor commission to submit a bill to the Riksdag in March for an additional grant of 11,000,000 kronor, to be increased eventually to 28,000,000 kronor. The object of this subvention is to provide special emergency employment on State railroads and public works and to alleviate suffering by means of rent allowances and per diem subsidies to the unemployed. It is expected that 10,000 of the unemployed will be engaged for work on State and municipal enterprises from April 1 to the end of the year.

The depression is reflected in a falling off of both railroad and maritime freight traffic. According to a recent report of the State railways, freight traffic in January declined to 608,000 tons, which compares with a monthly freight average in 1913 of 830,000 tons. Idle ocean tonnage increased over 178 per cent in January. On December 31, 1920, there were 63 idle Swedish vessels, aggregating a total of 56,000 gross tons. At the end of January 151 vessels, with a combined gross tonnage of 156,000 tons,

were laid up.

Exports in February were valued at 88,700,000 kronor and imports at 116,200,000 kronor, a decline from the preceding month of about 3 and 5 per cent, respectively. Compared with the precipitous fall in January of 47 per cent for exports and 38 per cent for imports, the February percentage of decline shows a slowing up in the rate of recession.

The volume of wood-pulp exports declined in February almost 50 per cent and that of unplaned boards, planks, etc., about 37 per cent. Iron ore showed a quantitative gain of about 18 per cent.

Imports of coal, mineral oils, cotton, and wheat still continue far below the amount imported in the corresponding month in 1913.

In March, the note circulation of the Riksbank reached approximately 717,000,000 kronor, an increase of 29,300,000 kronor, or slightly more than 4 per cent compared with the February figure. Gold holdings amounted to 281,700,000 kronor, showing only a nominal

months. As the special parliamentary enactment allowing the Riksbank a temporary suspension of its gold redeeming obligation expired on March 31, a new proposition was introduced into the Riksdag for a continuation of the measure until March 1, 1922. The bill proposed (1) a suspension for a fixed period of the Riksbank's obligation to purchase gold in bulk; (2) a temporary discontinuation of the obligation of the mint to pay gold coin for gold bars tendered; (3) formal authorization for the Riksbank to issue notes to an amount of 125,000,000 kronor above the amount stipulated by the State banking laws.

BRITISH FINANCE DURING THE WAR.1

In the following article an effort has been made to present statistically some of the salient facts regarding British war finance; the methods used by the treasury in raising money; the effect of these methods upon the Bank of England and the joint-stock banks; and the present financial situation of the Government. The basis for the study is the statistics published by the treasury each quarter regarding Government receipts and expenditures, those of the Bank of England published each week showing the condition of the bank, and similar statements of the jointstock banks published semiannually. The figures compiled by the Economist each week showing the outstanding debt have also been The literature on the subject has been covered, but the conclusions reached are based in the main upon the statistical showing of the different items.

PRESENT CONDITIONS.

Before tracing in some detail financial conditions in England during the war, it may be worth while to give a brief summary of present conditions as regards public debt. By the end of 1920, England had made very considerable strides away from war-time conditions. The foreign debt had been reduced by £193,000,000, leaving, however, £1,164,000,000 in foreign obligations still outstanding. These obligations are held for the most part in the United States, approximately 75 per cent by the United States Government. Of importance in this same connection is the fact that British foreign trade position has improved in a remarkable fashion, the board of trade estimating the favorable balance (taking into account invisible exports) as £165,000,000 for the year

1920 as compared with an unfavorable balance of £149,000,000 during the preceding year.

With regard to short-term indebtedness, on the other hand, conditions appear to be less favorable than a year ago or two years ago. Treasury bills outstanding at the end of 1920 were slightly less than at the end of 1919, but the total floating debt was some £59,000,000 greater. This increase is in the form of temporary advances from the Bank of England and from public departments, and as these advances result in an increase in the balances of the joint stock banks at the Bank of England, they may be used as the basis for further credit expansion on the part of the private banks. Comparing the situation at the end of 1920 and the end of 1919, statistically, we find that the foreign debt has been decreased £193,000,000, treasury bills outstanding £5,-000,000, and the total debt £247,000,000. Temporary advances have increased £63,- $000,\bar{0}00.$

Most of this article is concerned with the borrowing methods of the British treasury, and the effect of these measures upon the Bank of England and the discount market. The taxation policy of the Government is of primary importance in this connection not only as forming the basis upon which estimates of borrowing are made, but also because receipts from revenue are an important item in moneymarket considerations, influencing treasury-bill sales especially. For that reason a brief résumé is given of the more important taxation provisions of the war period and since.

REVENUE FROM TAXATION.

Revenue from taxation has been constantly increasing since the beginning of the war, partly because of increasingly heavy rates in the case of both direct and indirect taxes and partly because of increases in the size of the taxable bases. In the fall of 1914 income tax rates were increased and in 1915 practically doubled. At the same time the duty on excess-profits was imposed at the rate of 50 per cent. In 1916 both of these taxes were again increased and indirect tax rates also became much heavier. In 1917 the income tax was not changed, but the duty on excess war profits became 80 per cent. No further increase was made in the excess-profits duty during the war, and in 1919 it was cut to 40 per cent. In 1920 it was again increased, however, this time to 60 per cent, but it is to be entirely eliminated in the next fiscal year. Revenue from these two types of taxes are presented in the following table in their ratio to total revenue.

¹ Prepared under the direction of K. H. Snodgrass, Division of Analysis and Research.

Revenue from property and income tax and from excess profits duty.

[Expressed in millions of pounds sterling.]

Year ending	Property and income tax (in- cluding super tax).	Per cent of total.	Excess profits, duty, etc.	Per cent of total.	Total revenue.
Mar. 31:			ŀ		ĺ
1915	69	30		<i></i>	227
1916	128	38			337
1917	205	36	140	24	573
1918	240	34	220	31	707
1919	291	33	285	32	889
1920	359	27	290	22	1,340
9 months ending					, , , , , ,
	- 157	18	156	18	889

FINANCING IMPORTS.

Between July, 1914, and the spring of 1917, when the United States entered the war, the two leading problems in British finance were (1) the financing of imports and (2) the raising of domestic funds in the form of long and short term obligations. As is well known, a large proportion of war supplies, munitions, food, and clothing were procured from the United States and other foreign countries. The problem of arranging for the payment of these goods was, therefore, a matter of primary importance, especially in the case of England because upon her devolved the responsibility of providing credits for the other Allies as well. Payment theoretically could be effected by means of four main channels—(1) export of goods, (2) export of gold, (3) sale of foreign securities, (4) foreign loans—and as a matter of fact all four of these channels were used. During this period the British domestic industrial plant was so completely occupied with war orders that there was very little capacity for production of goods for export. For this reason exports were materially reduced from prewar levels, and this method of paying for imports had to be very largely supplemented by other means. The shipment of gold was not feasible as an exclusive method of supplementing exports of goods, partly because the reserve held in England would have been insufficient for this purpose, partly because it was needed as a banking reserve, and also because of the dangers of transportation arising from submarine attacks. It was therefore necessary to make payments also by the sale abroad of foreign securities or properties held by British investors, and by direct loans from foreigners, collateraled by foreign securities or else uncollateraled.

laration of war, as unusually large balances were held abroad by British houses at that time. In fact, throughout the latter half of 1914 the American exchange was favorable to England, and it was not until 1915 that sterling began seriously to depreciate. Payments were then made in the United States by the transfer of gold held in Canada (approximately £18,-000,000 were paid to the United States by England during 1915), but purchases were of such magnitude that this source soon became insufficient, and by the end of 1915 it became necessary for the British treasury definitely to "peg" the rate of exchange. As early as July, 1915, the Bank of England had begun to purchase American securities and sell them in New York with a view to supporting the exchanges, and in December the treasury began to purchase and borrow securities for the same purpose. In the meantime the Anglo-French loan had been floated in the fall of 1915 with a view to providing funds in the United States for American purchases and transfers of gold continued to be made. Throughout the first half of 1916 the sterling rate was kept very steady at about \$4.76 by the sale of securities, but by the middle of the year the supply of foreign securities held by the treasury had been heavily drawn upon. In order, therefore, to force all those who held American securities to place them at the disposal of the treasury, a special tax was placed on such securities, with theresult that a considerable number of them which formerly had been withheld came into the possession of the Government. By the end of 1916 foreign securities to the value of £466,-000,000 had been obtained by the British treasury, £118,000,000 by purchase and £348,000,-000 on deposit. In order that payments might be made in foreign countries other than the United States, similar operations were undertaken with other foreign securities, but not on the same scale as in the case of the United The latter half of 1916 was a period of distinct strain, the effort to keep the pound at approximately \$4.76 necessitating direct loans in the United States uncollateraled by American securities as well as collateraled loans. With the entrance of the United States into the war this phase of the problem was somewhat relieved, since direct loans were made by the United States Treasury to the British Government.

With the end of the war Government purchases abroad ceased for the most part, and consequently support of the exchanges was discontinued in March, 1919. By this time holdse uncollateraled. ings of American securities by private investors It was not necessary to resort to the sale of had been heavily depleted (the treasury had foreign securities immediately upon the dec- purchased securities to the value of £178,-

000,000 for re-sale in New York); gold was needed for the domestic reserve and its export therefore prohibited; exports of merchandise were still far below normal; and American shipping had curtailed the demand here for British tonnage. As a natural result of these factors, with the removal of the support furnished the exchanges by Government loans, sterling depreciated heavily in the New York market. Although the rate of exchange on New York is far more favorable to England at the present time than it has been during a large part of 1920, it still shows (in April, 1921) a depreciation of about 20 per cent from par.

As has been pointed out already, after the entry of the United States into the war, purchases here of munitions and other supplies were paid for by advances of the United States Government to the various foreign Governments. In the case of England receipts from foreign loans reached very large totals, especially in 1917, 1918, and 1919. Receipts from "other debt," the item in the treasury statement referring to foreign loans, amounted to the following between 1916 and 1920. Expenditures for the repayment of "other debt" are also included.

"Other" or foreign debt.

Fiscal year ending—	Created dur- ing year.	Reduced dur- ing year.
Mar. 31: 1916. 1917. 1918. 1919. 1920.	£9,000,000 328,000,000 709,000,000 539,000,000 196,000,000	£21,000,000 82,000,000 242,000,000 256,000,000

Source: Finance Accounts-Great Britain.

During the same time, as was mentioned above, England was making large advances both to her allies and to the dominions. By 1918 the dominions had begun to pay these back, but in the case of the Allies the amount repaid up to the present time is practically negligible.

Advances to allies and dominions.

	Allies.	Dominions.
August, 1914–Mar. 31, 1916.	£288, 000, 000	£88,000,000
Fiscal year 1916–17	539, 000, 000	59,000,000
Fiscal year 1917–18	505, 000, 000	47,000,000
Fiscal year 1918–19	236, 000, 000	1—23,000,000
Fiscal year 1918–20	163, 000, 000	1—52,000,000

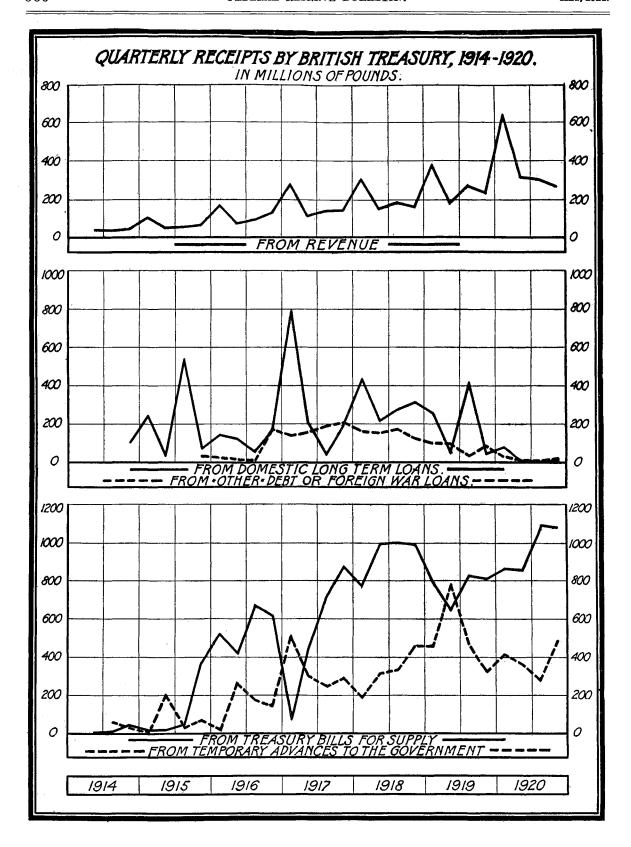
¹ Repayments.

LONG-TERM BORROWING.

Prior to the war Government funds had been borrowed by three methods—the funded debt, the fairly short-term exchequer bond, and the treasury bill. The funded debt carried with it no obligation for repayment—was in fact a permanent annuity; the exchequer bond was usually of 5 years' duration, and treasury bills ran from 3 to 12 months and were used to provide for temporary Government deficiencies. Since 1914 the first form of borrowing mentioned above has been entirely eliminated; the exchequer bond (both 3 and 5 year) has been used and supplemented by the national war bond of 5, 7, and 10 years' duration. Treasury bills have assumed a rôle of enormous importance, those outstanding at one time frequently exceeding the billion pound mark, while before the war they seldom exceeded £20,000,000.

Prior to the entrance of the United States into the war three large war loans were placed, the $3\frac{1}{2}$ per cent loan of November, 1914, the $4\frac{1}{2}$ per cent of June, 1915, and the 4 per cent and 5 per cent of January, 1917. The last three of these were long-term bonds running up to 25 and 30 years, the first ran from 11 to 14 years. In the intervals between the placing of these long-term loans, relatively short-term exchequer bonds were offered to the public first in March, 1915, with the offering of 3 per cent bonds maturing in 1920, then in December of the same year when they were put on continuous day-to-day sale until December, 1916, when they were withdrawn to make room for the placing of the big loan of January, 1917. After this drive was over exchequer bonds were again placed on the market but were soon susperseded by the national war bond.

After the entrance of the United States into the war, and since then, the British Government has continued to place its long-term war bonds in the hands of private investors; but returns to the Government from this source have been in a diminishing proportion to total receipts. At the same time the raising of funds by the sale of the short-term treasury bills and by advances on ways and means has increased markedly. In October, 1917, a new form of borrowing was introduced with the day-to-day unlimited sale of the first series of national war bonds. Four series of these were placed between October, 1917, and June, 1919, running for 5, 7, and 10 years. Great care was taken to make these bonds attractive to the investor; they might be used in payment for excess profits duties, death duties, etc.: and provisions were made



for their conversion into earlier issues. These bonds were on sale continuously from day to day and altogether brought into the treasury £1,669,000,000. In June, 1919, seven months after the war was over, the funding and victory loans were offered to the public on very attractive terms. The returns from these loans were disappointing, however, totaling only £476,000,000.

Receipts from the sale of long-term, exchequer, and national war bonds during the entire war period, and since, are summarized in the following table, according to issues:

Receipts from loans.1

Issue.	Date of issue.	Cash credited to the exchequer.
3½ per cent war loan, 1925-1928 3 per cent exchequer bonds, 1920. 4½ per cent war loan, 1925-1945 5 per cent exchequer bonds, 1920. 5 per cent exchequer bonds, 1920. 5 per cent exchequer bonds, 1921. 5 per cent exchequer bonds, 1920. 5¾ per cent exchequer bonds, 1920. 5¾ per cent war loan, 1929-1947. 4 per cent war loan, 1929-1942 5 per cent war loan, 1929-1942 5 per cent war loan, 1929-1942 First series. Second series. Third series. Fourth series. Fourth series. 4 per cent victory bonds, 1935.	Dec., 1915-June, 1916. June, 1916-Sept., 1916. June, 1916-Oct., 1916. Oct., 1916-Dec., 1916. Mar., 1920. JanFeb., 1917. Oct., 1917-Mar., 1918. AprSept., 1918. AprSept., 1918. Oct., 1918-Jan., 1919. FebMay, 1919.	£332,000,000 48,000,000 592,000,000 238,000,000 34,000,000 67,000,000 82,000,000 82,000,000 616,000,000 493,000,000 493,000,000 231,000,000 235,000,000

SHORT-TERM BORROWING.

Temporary borrowing was of some importance in the early years of the war, but was not utilized on anything like the same scale at that time as in more recent years. The total funds obtained from long-term borrowing prior to the spring of 1917 were only a little less than those obtained since. The reverse is the case with the short-term Government paper, of which there was issued between four and five times as much after the entry of the United States into the war as before. Short-term borrowing in England takes two forms—(1) the sale of treasury bills and (2) direct advances to the treasury on so-called 'ways and means." Advances are made either by the Bank of England or by other departments. These latter advances are reported unofficially as probably drawn largely from the currency notes fund. Treasury bills are mainly of 3 months' duration, although they have been issued for 6, 9, and 12 months also. During the greater part of the war they were on continuous sale "over the counter;" prior to April, 1915, and for brief

periods later they were sold in fixed amounts

at specified dates.

An examination of the charts will make clear the function of the treasury bill in war-time finance. When funds were being used for the payment of taxes or in the purchase of longterm bonds, sales of treasury bills were apt to fall off. If temporary funds were needed at such periods in addition to those received from taxes and bonds the Government was forced to borrow from the bank or other depart-Thus in the first quarter of 1917 ments. £782,000,000 were received by the treasury by the sale of war bonds. At this time a large portion of the treasury bills outstanding were converted into long-term bonds, and the dayto-day sale of the bills was suspended, resulting in a great reduction in this item. In order to obtain temporary funds it was necessary, therefore, to borrow heavily on ways and means. This in spite of the fact that revenue from taxes was coming in more rapidly than at any other time of the year.

Due to the fact that the funding and victory loans of June, 1919, provided only £476,000,000 cash and that no alternative funding operation has been put forward by the Government, the quantity of treasury bills outstanding has not been materially reduced at any time during the

last 18 months.2

DISCOUNT RATES.

The placing of the various types of long and short term loans had a very important effect upon discount rates and banking conditions in general. In fact, the rate on treasury bills may be said to have been the controlling factor in the money market after April, 1915. The Bank of England rate was kept in harmony

with the treasury bill rate. The first long-term loan was placed in November, 1914, at $3\frac{1}{2}$ per cent (issue price 95), when the plethora of money resulting from the rediscounting of premoratorium bills at the Bank of England began to be felt. The Bank of England discount rate at that time was 5 per cent, but for loans collateraled by these war bonds it was 1 per cent lower. Banks are reported to have subscribed for approximately £100,000,000 of the bonds. The second big loan, that of June, 1915, was placed at par, interest $4\frac{1}{2}$ per cent, subject to tax. This loan was placed just after a period of very low rates, when effort was being made to obtain control of the market by the fixing of the treasury bill rate at a high enough point to attract funds; 4½ per cent furnished, therefore, a very good offer.

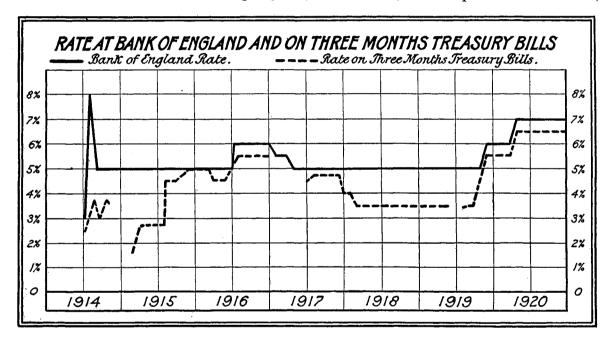
¹ Based on report of chief cashier's office, Bank of England, Dec. 15, 1919, and quarterly treasury statements since then.

 $^{^2}$ See p. 554 for Government's offer of Apr. 25, for funding national war bonds.

Bank of England rate for loans collateraled by this issue was one-half per cent below the official rate. Of the £592,000,000 raised by this loan £150,000,000-£200,000,000 are reported to have been taken by the banks. At about the time when the third big loan was placed in January, 1917, the bank rate was lowered from 6 to $5\frac{1}{2}$ per cent and the joint stock banks made loans to subscribers at 5 per cent.

There were five changes in the rate of discount at the Bank of England in the course of a few weeks at the time of the outbreak of war, three changes between that time and the entrance of the United States into the war, but no changes whatever between April, 1917, and

August 4, and in September was authorized to provide funds for acceptors to meet their bills when they fell due. This privilege of rediscount was very generally utilized by the accepting houses, but the funds so obtained were not reinvested in bills. At the same time the immediate effect of the outbreak of war was to slacken trade, and payment for transactions between the Allies did not take the form of commercial bills. Taken together, these factors made for a surplus of funds and a dearth of bills, with the result that rates on 3 months' bank bills were as low as 13 per cent in February, 1915, while the rate at the Bank of England, as men-November 1919. The traditional policy of tioned above, was 5 per cent. In March,



the Bank of England of raising discount rates! to attract foreign funds was followed in the earlier years of the war. For the same purpose, beginning in late 1917, a higher rate was paid by the Bank of England for foreign balances than for domestic. During July, 1914, the bank rate rose from 3 to 4 to 8 per cent. On August 1 it was raised to 10 per cent, but was quickly reduced to 6 and then to 5 per cent, at which point it remained until July, 1916. Especially during the early months of 1915 this rate was entirely ineffective for the control of domestic credits and it was not until treasury bills were sold day to day that the period of abnormal ease was terminated. In August, 1914, the Bank of England had been authorized to discount all domestic and foreign bills accepted before the Government. The rate at the Bank of

1915, in an effort to correct this condition, the Bank of England began borrowing funds from the joint-stock banks (thus limiting their supply for other use) and the treasury issued more bills than it actually needed (in order to furnish a form of investment for surplus funds).

Thus, rates were again pretty well under control. The next change in the bank's discount rate was in July, 1916, when the rate was raised to 6 per cent. At the same time rates on treasury bills were advanced and the Bank of England offered 5 per cent to the clearing banks for their surplus balances. The latter policy is of importance as it marks a departure from custom, and by this means large additional funds were obtained for the use of

England was then lowered to $5\frac{1}{2}$ per cent, coincident with the placing of the third big war loan (and the sale of treasury bills was suspended), and upon the entry of the United States into the war was again lowered to 5 per cent, at which point it remained until November, 1919. During this period every effort was made to keep rates low in order that domestic funds might be raised as cheaply as possible. Treasury bills were placed at $4\frac{1}{2}$ per cent during part of this period and later at $3\frac{1}{2}$ per cent, and the rate on bank deposits was lowered to 3 per cent. Meanwhile (end of 1917) a preferential rate had been placed on foreign balances deposited with the Bank of England.

In November, 1919, following an increase in the rate on treasury bills from 3½ to 4½ per cent in the preceding month, the bank rate was raised to 6 per cent and treasury bills to 5½ per cent. At about the same time the preferential rate on foreign balances was removed. This may be said to mark the close of the period of preferential rates to the Government. Since then bank rate has been raised once and the treasury bill rate twice, so that they now stand at 7 per cent and $6\frac{1}{2}$ per cent, respectively.1

EFFECT OF WAR FINANCE ON THE BANK OF ENGLAND.

Discussion up to the present point has been for the most part concerned with the operations of the treasury. These operations are, however, inextricably bound up with the operations of the Bank of England, which in turn are closely related to those of the jointstock banks. Since the policy of the treasury was, however, the decisive factor in the situation during the war, and in a large measure continues to be so, there is logic in giving a fairly complete résumé of treasury activities before approaching those of the bank

In ordinary times the direct concern of the Bank of England is the protection of its gold reserve, since this fund serves as a reserve for the entire English banking system. In 1914 it was not difficult to attract gold from abroad, because England was still the creditor of most of the nations of the world, but in 1915 the problem of protecting the gold reserve became more and more difficult because of the depreciation in exchange which accompanied the large purchases of war materials in foreign countries. In the one year the Bank of England lost £18,000,000 in coin and bullion. During 1916 and 1917 the movement

of gold was not considerable, and in the middle of 1918, the bank began to accumulate gold, first, from the Cape, later from the jointstock banks and the Scottish banks and recently in small measure from abroad.

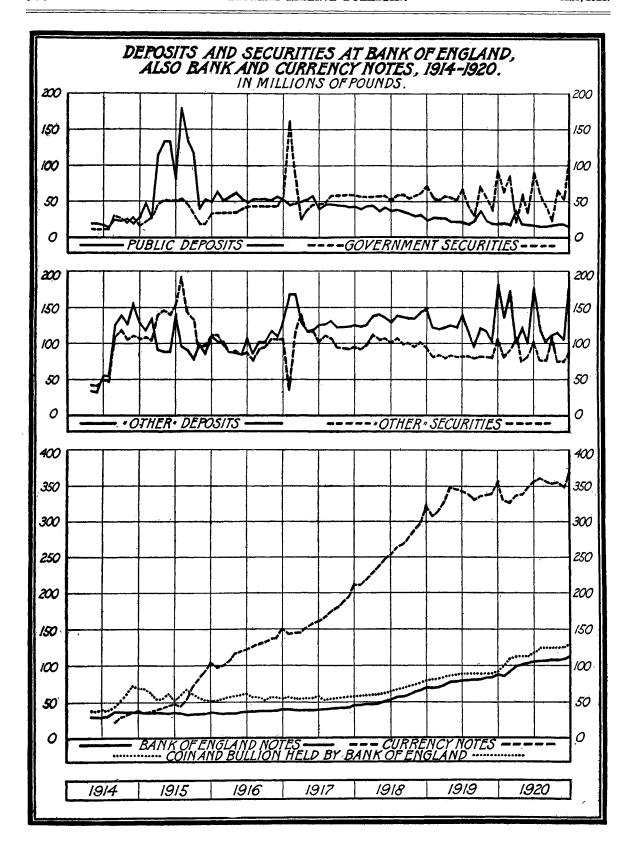
In spite of the fact that the present gold reserve of the bank is over three times as large as that of July, 1914, the ratio of reserves to liabilities is far less. This is due to the very great expansion which has occurred in the private deposits with the bank. The chart on page 570 shows in some detail the movement of "other deposits" and "other securities" of the Bank of England since July, 1914, as well as the fluctuations in "Government securities" and "public deposits."

"Other deposits" are perhaps the best indi-

cation of the size of the balances carried by the joint-stock banks at the Bank of England. In normal times an increase in this item indicates ease in the money market, but in times of crisis it is more apt to mean that the jointstock banks have called in their outside loans and thus built up their balances at the Bank of England. The item "other securities" should move in more or less the same fashion as "other deposits." The regular periodic fluctuations which are to be expected in these items are in the main an increase at the end of each quarter when Government dividends are disbursed, a decrease during the first three months of the year when Government receipts are heaviest, an increase at the end of the year and the half-year providing for settlements at these dates.

During the war these normal fluctuations were to some extent concealed by other more potent factors, but as a rule their influence can be traced. In general, also, the two items ("other deposits" and "other securities") fluctuate similarly, although the reverse was strikingly the case in March, 1915, and again in January, 1917. The abnormal amount of "other securities" in 1914 and the first half of 1915 is accounted for by the fact, already mentioned, that the Bank of England was forced to absorb enormous quantities of bills which could not otherwise be liquidated immediately following the outbreak of war. At the same time "other deposits" were being lowered from the high level of the second half of 1914 as the financial strain of the period was relieved and ordinary business requirements were being met. During the second half of 1915 the abnormal supply of bills was eliminated; and, judging from the chart, approximately normal war conditions obtained by the first of 1916. In January, 1917, however, all financial arrangements were again set askew by the floating of a great war loan. Sales of

 $^{^1}$ On March 11 the rate on treasury bills was lowered to 6 per cent and on April 27 to $5\frac{3}{4}$ per cent. The discount rate at the Bank of England was lowered from 7 to $6\frac{1}{2}$ per cent on April 28.



treasury bills were suspended at that time, thus releasing the funds normally invested there for investment in the war loan and commercial bills. Deposits of the joint-stock banks at the Bank of England were greatly increased but "other securities" were reduced. Between 1917 and 1919 there were no extreme fluctuations in these items, but in 1920 the month-to-month changes have been very large, end-of-year and half-year payments apparently causing more than usual dislocation.

"Public securities" presumably include the bank's holdings of Government bonds, treasury bills, and advances on ways and means, while the "public deposits" account, as the name implies, is the current account of the treasury. In normal times the latter account may be expected to fluctuate inversely to the private deposit account, since when funds are disbursed by the Government they eventually reach the banks and are thus reflected in the private deposit account. During the war, however, this relationship is not always apparent. The increase in "Government securities" held by the bank in 1915 was due apparently to the placing of treasury bills there. These must have been repaid by the fall of the year and since then, it would seem, have not been placed there in large blocks. The phenomenal increase in this item in January, 1917, was probably due to temporary borrowing by the treasury on ways and means. As was the case with "other securities," between that time and until well into 1919 there were no excessive fluctuations in this item. In the last 18 months, however, the fluctuations have been very great, probably because of temporary borrowing on ways and means. During 1915 the Government had large surplus funds on deposit at the bank, but since that time the deposits have been steadily on the decline and at present are not much larger than before the

Information regarding the operations of the joint-stock banks is too scanty to furnish a basis for a thoroughgoing study of the effect of war finance upon them. It is clear, however, from the semiannual statements issued by them, that their holdings of Government securities increased far more rapidly between 1914 and 1916 and again in 1919 and 1920 than in the intervening years. During the early years of the war the banks apparently took large blocks of long-term war bonds, while

lately their Government holdings seem to have been mainly in the form of treasury bills. In the intervening years because of the interest paid on deposits the banks were encourged to place their surplus balances with the Bank of England and to give considerable aid to private investors rather than to subscribe themselves to large blocks of Government securities.

The deposit accounts of the joint-stock banks increased most between 1916 and 1919; the rate of increase during the earlier years of the war and in 1920 was far less rapid.

Five great joint-stock banks.
[In thousands of pounds sterling.]

End of—	Cash in hand and with the Bank of England.	British Govern- ment securi- ties.	Current, deposit, and other accounts.
1914	137, 750	52, 544	626, 378
1915		184, 475	686, 473
1916	195, 484	198, 376	819, 883
1917	183, 159	216,606	967, 981
1918	237, 500	236, 042	1, 304, 811
1919	285, 481	291, 669	1, 548, 813
1920	274, 137	261, 732	1, 628, 375
			1 ' '

Note.—For table showing all items, see Federal Reserve Bulletin, March, 1921, p. 295.

INCREASE IN NOTE CIRCULATION DURING AND SINCE THE WAR.

The increase in the note circulation which war conditions demanded was provided for in a unique fashion in England. Instead of increasing the circulation of bank notes, as was done in most countries, a new form of currency was issued by the treasury. These are known as currency notes, or more popularly as "Bradbury's," and were authorized by an act of August, 1914, to provide for the exceptional demands occasioned by the outbreak of the war. According to the regulations under the act, they were not to exceed in the case of any bank 20 per cent of its deposit and current accounts. As the war progressed and deposits of the jointstock banks were rapidly enlarged, the issue of currency notes likewise increased. According to the report of the Cunliffe Committee the banks originally received the notes as advances from the Government on which they paid interest, but later they obtained them by transferring portions of their balances at the Bank of England to the currency notes account. These balances were then in turn borrowed by the Government and Government securities substituted for them.

This method was used to provide the necessary additional currency in preference to the

¹ The London Economist comments on this divergent movement of "other deposits" and "other securities" in the following fashion: "** * * it may be possible to trace in this movement the effect of the Bank of England's borrowing from other bankers, though it was more usual in old times for the bank to pledge Government securities when it borrowed."

amendment of the bank act of 1844, which provided that notes issued by the Bank of England must be guaranteed pound for pound by gold. With the increase in the gold holdings of the bank, it has been possible to enlarge the bank-note issue appreciably, but not at the rate at which currency notes have been increased. With the close of the war it was generally conceded that the currency note issue should be reduced as rapidly as conditions would allow. Accordingly, the committee on currency and the foreign exchanges in its interim report, published toward the end of 1918, recommended that during the years following the war the maximum fiduciary issue of currency notes in any year should become the legal maximum | ing dangerously close to the legal limit.

issue for the following year. This recommendation was not put into effect as regards the issue of 1919, but was applied in 1920, the maximum issue of 1919 of £320,600,000 becoming the legal maximum for 1920. During the latter year the maximum issue reached £317,600,000, which thus became the legal maximum for 1921.

At the end of December, 1920, the currency notes redemption account consisted of £28,-500,000 gold, £19,450,000 bank notes, and the rest, £356,504,000, Government securities. During 1920 there has been a uniform policy of transferring bank notes to the currency notes account when the latter were approach-

RECENT ECONOMIC DEVELOPMENTS IN SOUTH AMERICA.

PRICE DECLINES.

South America suffered severely in 1920 from the decline in the prices of raw materials and from the decreased demand for these materials. As has been explained in special studies of economic and financial conditions in the leading South American countries, each one of them is dependent to a large extent on the export of a few commodities to the production of which the country is particularly well adapted. These countries are in the stage of economic development when they depend on imports of foreign capital for the expansion of domestic industry, and on the excess of exports over imports for interest and amortization payments on these foreign investments.

It is therefore highly important for these countries to have a favorable balance of mer-chandise trade. When the war broke out, the inflow of foreign capital ceased, and the South American countries were obliged to adjust their economic life to this new condition. This adjustment was made easier by the fact that the demand for their leading products after the first shock of war became unprecedentedly large and prices, except for coffee, were high. It was possible, therefore, for these countries to have large favorable trade balances and to take steps in the direction of building up more diversified industries and more modern systems of taxation. These developments suffered a severe setback during the past year. A table inserted at this point shows prices of leading commodities exported from each of the three principal South American countries in 1919 and 1920:

¹ For Argentina, see Federal Reserve Bulletin, 1920, pp. 592-600; for Brazil, pp. 813-824; for Chile, pp. 1052-1061.

WHOLESALE PRICES IN THE UNITED STATES OF PRINCIPAL COMMODITIES PROMINENT IN THE EXPORT TRADE OF ARGENTINA, BRAZIL AND CHILE, 1919–1920.¹

			Argentina.			Bra	zil.		Chile	
	Corn, No. 3, Chicago.	Wheat, No. 2, red winter, Chicago.	Wool, Ohio, 1-3 grades, scoured, in eastern markets.	Beef, car- cass, good native steers, Chicago.	Hides, packers', heavy na- tive steers, Chicago.	Coffee, Rio, No. 7, New York.	Rubber, Para Island, fine.	Nitra	ates.	Copper, ingot, electro- lytic, New York.
1919. January February March April May June July September October November December	\$1. 3750 1. 2763 1. 4588 1. 5955 1. 7613 1. 7563 1. 9075 1. 9213 1. 5410 1. 3888 1. 4875 1. 4485	\$2, 3788 2, 3450 2, 3575 2, 6300 2, 7800 2, 3613 2, 2580 2, 2394 2, 2385 2, 2394 2, 2381 2, 4490	\$1. 1200 1. 0909 1. 2000 1. 0909 1. 0727 1. 1818 1. 2364 1. 2182 1. 2634 1. 2545 1. 2545	\$0. 2450 . 2450 . 2450 . 2450 . 2430 . 2025 . 2075 . 2350 . 2275 . 2290 . 2350 . 2350 . 2350	\$0, 2800 . 2800 . 2763 . 2950 . 3513 . 4075 . 4860 . 5200 . 4638 . 4820 . 4688 . 4100	\$0.1547 .1544 .1602 .1695 .1993 .2114 .2303 .2150 .1663 .1650 .1697	\$0.5250 .4913 .4819 .4775 .4738 .4744 .4750 .4750 .4795 .4825 .4825 .4785	Low. \$4, 425 4, 425 4, 075 4, 075 4, 075 2, 90 2, 90 2, 90 2, 90 2, 90 2, 90 2, 90	High. \$4.45 4.45 4.075 4.075 4.075 4.075 2.90 2.90 2.90 2.90 3.00	\$0, 2038 . 1731 . 1509 . 1530 . 1600 . 1756 . 2150 . 2281 . 2220 . 2172 . 2038 . 1873
1920. January February March April May June July August September October November	1.0388	2. 6338 2. 4900 2. 5000 2. 7725 2. 9950 2. 8950 2. 4735 2. 4919 2. 2047 2. 0370 2. 0125	1. 2364 1. 2364 1. 2364 1. 2000 1. 1636 1. 0000 9091 8727 8364 7273 6909 5455	. 2320 . 2125 . 2050 . 2090 . 1950 . 2225 . 2550 . 2550 . 2560 . 2520 . 2400 . 2220	. 4000 . 4025 . 3840 . 3813 . 3538 . 3410 . 2944 . 2850 . 2840 . 2550 . 2325 . 1900	. 1628 . 1478 . 1500 . 1514 . 1559 . 1498 . 1306 . 0936 . 0819 . 0759 . 0746 . 0656	. 4625 . 4322 . 4120 . 4113 . 4038 . 3850 . 3534 . 3030 . 2531 . 2169 . 1920 . 1800	3. 00 3. 40 3. 70 3. 85 3. 85 3. 85 3. 65 3. 15 3. 190 2. 75	3. 05 3. 70 3. 85 3. 85	.1931 .1906 .1855 .1916 .1906 .1900 .1900 .1866 .1677 .1455
1921. January February March	. 6553 . 6350 . 6180	1. 9613 1. 9194 1. 6798	. 5455 . 5455 . 5273	.1738 .1600 .1625	. 1675 . 1362 . 1150	. 0669 . 0672 . 0639	. 1731 . 1681 . 1800	2, 70 2, 80 2, 60	2.85 2.85 2.85	.1288 .1288 .1223

¹ The figures in the above table for all commodities except nitrates are furnished by the Bureau of Labor Statistics and are average prices for the month. The nitrate figures were furnished by the Chilean Nitrate Commission.

For the commodities constituting the bulk of Argentina's exports, the following price reductions may be noted. Wheat fell from a maximum price of \$2.975 per bushel in May, 1920, to \$1.6798 in March, 1921; wool from a maximum of \$1.2634 per pound in October, 1919, to \$0.5273 in March, 1921. For Brazil, a similar trend of prices may be seen. Coffee reached its maximum of \$0.2303 in July, 1919, and its minimum of \$0.0639 in March, 1921. Rubber fell from \$0.525 in January, 1919, to \$0.1681 in February, 1921. In the case of Chile, nitrates held a maximum of \$4.45 during the first three months of 1919, and a minimum of \$2.60 in March, 1921.

FOREIGN TRADE AND FOREIGN EXCHANGE.

Not only did the prices of these articles suffer severe drops, but it became difficult to dispose of many of them at any price. The purchasing power of European countries, which had been the principal takers of South American exports, was low, and in many cases goods that had formerly gone to the European markets were sent to the United States, where a large accumulation of raw materials and a consequent demoralization of the markets occurred. A table is here introduced showing the imports into and exports from Argentina, Brazil, and Chile for the years 1913 to 1920.

TOTAL IMPORTS AND EXPORTS OF ARGENTINA, BRAZIL, AND CHILE FOR THE YEARS 1913-1920.

		Argentina.			Brazil.		Chile.			
	Imports.	Exports.	Balance of exports over imports.	Imports.	Exports.	Balance of exports over imports.	Imports.	Exports.	Balance of exports over imports.	
		sands of gold		In thous	ands of paper	milreis.		isands of gold		
1913		519, 156	22,929	1,007,495	972, 731	- 34,764	329, 518	396, 310	66,792	
1914	322, 530	403, 132	80,602	561, 853 582, 996	750, 980	189, 127	269, 757	299, 675	29,918	
1915	305, 489 366, 131	582, 179 573, 000	276, 690 206, 869	810, 759	1, 022, 634 1, 136, 888	439, 633 326, 129	153, 212 222, 521	327, 479 513, 585	174, 267 291, 064	
1916. 1917.		550, 170	169, 849	837, 738	1, 192, 175	354, 437	355, 077	712, 289	357, 212	
1918.		801, 466	300, 863	989, 405	1, 137, 100	147, 695	436, 074	799, 625	363, 551	
1919	655, 772	1,030,965	375, 193	1,334,258	2, 178, 719	844, 461	401, 324	316, 977	- 84,347	
1920	854,100	1,006,800	152,700	2,078,046	1,752,247	-325,799	350,000	765,000	415,000	
January	64,600	90,600	26,000	89,338	167, 706	78, 368				
February	53, 400	96, 500	43, 100	118, 087	145, 353	27, 266				
March	73, 200	121, 100	47,900	101,671	191,703	90, 032				
April		109, 700	36, 200	114,550	157, 615	43,065				
Мау	63,600	99,000	35, 400	162, 963	146, 978	-15,985				
June	72, 200 80, 900	82, 100 100, 500	9,900 19,600	141,733 173,815	146, 468	- 52,142				
JulyAugust		78, 400	1, 400	220, 408	121, 673 133, 679	- 86,729				
September	88, 100	56, 900	-31, 200	223, 746	140, 173	- 83, 573				
October		63, 600	- 3,400	273, 497	149, 051	-124 446				
November	70, 400	48, 600	-21,800	227, 214	136, 515	- 90, 699	•••••••			
December	70, 200	59, 800	-10, 400	231, 024	115, 333	-115, 691				
2	,	,		,	,		1			

It will be noted that the favorable balance | decrease in Chile's imports, and still more to for Argentina was much smaller in 1920 than in 1919, and that the last four months of 1920 showed excess imports; for Brazil a substantial excess of imports for the entire year is reported, while in the case of Chile the figures for the year show a comparatively large favor- tries have all materially increased their imports able balance. This is due partly to the from the United States.

the fact that the value of the exports of nitrate for the entire year 1920 was practically double that for 1919. Our trade with South and Central America is shown by months in the table below. It brings out the fact that these coun-

UNITED STATES IMPORTS FROM AND EXPORTS TO PRINCIPAL SOUTH AMERICAN COUNTRIES. [In thousands of dollars.]

						Buildo of dollars,								
	Arge	ntine.	Bra	Brazil.		Chile.		All other countries of South America.				Ameri- intries.	Total Central and South American countries.	
	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.
1919. January February March April May June July August September October November December	8, 772 6, 398 4, 448 2, 163 17, 012 19, 779 12, 271 22, 861 38, 479 23, 773 26, 189 17, 014	22, 253 11, 367 11, 837 5, 286 5, 674 20, 430 9, 907 17, 283 13, 715 13, 874 13, 281 10, 993	6, 699 8, 059 23, 198 17, 598 16, 590 10, 426 23, 346 23, 190 31, 676 24, 172 30, 706 17, 911	11, 798 14, 439 9, 919 9, 254 12, 140 8, 967 7, 055 9, 995 5, 572 12, 279 7, 499 5, 780	10, 491 5, 942 12, 518 4, 263 4, 714 4, 542 4, 388 4, 336 7, 729 5, 794 10, 549 7, 202	5,680 6,817 4,173 7,972 4,416 4,877 2,335 4,066 3,166 3,449 3,351 3,071	10, 057 12, 263 14, 033 15, 566 12, 868 17, 415 16, 298 14, 823 16, 202 14, 524 14, 472 13, 807	12, 296 9, 861 8, 051 9, 437 10, 207 9, 522 7, 562 10, 460 9, 712 9, 685 9, 928 11, 308	36, 019 32, 662 54, 197 39, 590 51, 184 52, 162 56, 303 65, 210 94, 086 68, 263 81, 916 55, 934	43, 796 26, 859 41, 804 32, 165 39, 287 34, 059	3, 417 4, 416 4, 498 3, 338 4, 217 4, 413 5, 681 3, 319 2, 937 3, 093 1, 627 2, 194	4, 085 4, 989 3, 429 4, 996 4, 303 4, 973 3, 720 3, 835 5, 663 4, 624 4, 808 6, 316	39, 436 37, 078 58, 695 42, 928 55, 401 56, 575 61, 984 68, 529 97, 023 71, 356 83, 543 58, 128	56, 112 47, 473 37, 409 36, 945 36, 740 48, 769 30, 579 45, 639 37, 828 43, 911 38, 867 37, 468
Total	199, 159	155,900	233, 571	114,697	82,468	53,373	172,328	118,029	687, 526	441,999	43, 150	55, 741	730,676	497,740
1920. January. February. March April May June. July. August September October November December	21, 344 15, 104 19, 190 21, 581 23, 104 16, 853 18, 502 16, 734 22, 883 14, 971 8, 098 9, 454	14, 008 11, 612 16, 927 14, 869 17, 094 13, 587 15, 923 16, 817 21, 782 21, 858 26, 045 23, 207	25, 069 17, 328 22, 778 28, 857 10, 490 25, 719 23, 123 22, 013 15, 637 14, 498 12, 673 9, 539	10, 583 10, 462 12, 506 10, 080 13, 545 9, 683 8, 741 14, 520 15, 017 15, 144 17, 278 19, 233	6, 705 12, 678 11, 530 7, 983 14, 860 19, 083 7, 524 8, 430 9, 405 7, 807 6, 777 7, 830	2,610 3,708 4,725 4,832 4,240 4,774 5,235 3,305 3,878 4,868 5,808 7,363	24, 821 22, 797 19, 512 17, 593 14, 950 19, 512 23, 572 16, 124 14, 575 10, 093 12, 558 9, 116	12, 426 14, 678 19, 836 17, 282 23, 341 18, 261 14, 970 12, 001 13, 770 17, 958 16, 155 17, 492	77, 939 67, 907 73, 010 76, 014 63, 404 81, 167 72, 721 63, 301 62, 500 47, 369 40, 106 35, 939	39, 627 40, 460 53, 994 47, 063 58, 220 46, 305 44, 869 46, 643 54, 447 59, 828 65, 286 67, 295	4, 029 4, 771 8, 891 7, 891 7, 310 7, 449 8, 769 7, 766 3, 368 2, 443 2, 442 1, 810	7, 310 6, 809 7, 421 7, 816 7, 395 7, 504 6, 403 6, 042 7, 237 6, 974 7, 805 7, 775	81, 968 72, 678 81, 901 83, 905 70, 714 88, 616 81, 490 71, 067 65, 868 49, 812 42, 548 37, 749	46, 937 47, 269 61, 415 54, 879 65, 615 53, 809 51, 272 52, 685 61, 684 66, 802 73, 091 75, 070
Total	207,818	213,729	227,724	156,792	120,612	55, 346	205, 223	198, 170	761,377	624,037	66,939	86,491	828,316	710, 528
1921. Jauary February March	5, 730 5, 316 8, 413	24, 231 16, 441 12, 168	9, 713 9, 289 9, 463	14, 128 6, 240 6, 133	8, 042 4, 903 3, 739	6, 885 4, 552 2, 954	7, 263 7, 001 11, 070	16, 190 11, 571 7, 368	30, 748 26, 509 32, 685	61, 434 38, 804 28, 623	1, 667 2, 353 3, 679	8, 733 6, 927 4, 644	32, 415 28, 862 36, 364	70, 167 45, 731 33, 267

The United States dollar, which in Argentina was worth only 1.016 pesos as late as February, 1920, rose to 1.305 pesos in March, 1921, as against 1.0365 par value. (See table below.) At the beginning of 1920 the Argentine Government had with the Federal Reserve Banks a credit of about 79,000,000 pesos, established during the war when the gold embargo prevented gold exports from the United States, and for a considerable time this credit was used to pay for Argentina's obligations in the United States. The method of operation was that Argentine importers who wished to pay for goods in New York, deposited gold or its equivalent with the conversion office in Buenos Aires, and equivalent amounts were released for payment to American creditors in New York. So long as this fund held out, Argen- \$399,421,000 to \$466,477,000.

tine exchange suffered no great decline, but when the fund was exhausted the peso began to drop very rapidly in New York, and the dollar rose correspondingly in Buenos Aires. Thus, during the first five months of 1920, while the fund was in use, the dollar rose only from 1.018 pesos to 1.038 pesos. Between May 31 and October 31, however, the gold in the fund held with the Federal Reserve Banks was used Thereupon the dollar rose rapidly to the end of the year, when it stood at 1.305 pesos. the highest point being reached on January 3, 1921, when it stood at 1.32 pesos. At the same time, the stock of gold held by the banks in Buenos Aires was reduced from \$114,014,000 to \$46,179,000, while the gold in the Caja de Conversion increased correspondingly from

MONTHLY RANGE OF EXCHANGE RATES ON ENGLAND AND THE UNITED STATES AT BUENOS AIRES, RIO DE JANEIRO AND VALPARAISO.

		Buenos	Aires.			Rio de .	Janei ro.		Valparaiso.				
	Engla	and.1	United States.2		Engl	and.	United	States.	Engl	land.	United	States.	
	High.	Low.	High.	Low.	High.	Low.	High.	Low.	High.	Low.	High.	Low.	
1920. January. February. March. April May. June. July August September. October November. December	58 § 59§ 56§	7 1 peso. 65½ 70½ 60½ 60½ 60½ 59.00 57½ 57% 58.00 55.31 55.13	Pesos for 1. 018 1. 016 1. 017 1. 035 1. 038 1. 052 1. 130 1. 175 1. 180 1. 265 1. 340 1. 305	1 dollar. 1. 016 1. 009 1. 014 1. 015 1. 036 1. 039 1. 155 1. 130 1. 155 1. 185 1. 283 1. 245	Pence for 17.52 17.62 17.62 16.53 16.75 16.75 13.74 13.74 13.75 13.75 11	1 milreis. 1733 1844 1844 1867 18.00 1576 144 1144 1237 1237 1144 11237	Reis for 3, 780 3, 978 3, 915 3, 900 4, 000 4, 300 4, 680 5, 073 5, 725 6, 040 6, 504 7, 140	1 dollar. 3.637 3.909 3.740 3.790 3.860 4.030 4.343 4.610 5.160 5.016 5.829 6.360	Pence for 125 2 14 2 5 2 14 2 5 2 14 2 5 2 14 2 5 2 11 5 11 3 2 11 5 11 3 2 11 5 11 3 2 11 5 11 3 2 11 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	or 1 peso. 1411 1543 1343 1344 1245 1245 1245 1046 94	Chilean 1 dd 5. 27½ 4. 94 4. 94½ 5. 29¼ 5. 50½ 5. 56½ 5. 94 5. 88¼ 6. 42 6. 76¾ 7. 37¼ 7. 53½	pesos for bllar. 4. 734 4. 634 4. 634 5. 25 4. 994 4. 894 5. 634 5. 735 6. 555 7. 12	
January February March	50. 00 49½ 47. 00	511 517 488	1, 320 1, 260 1, 305	1. 246 1. 195 1. 260	9½ 8½ 82 82	93 1011 918	7. 200 6. 780 6. 900	6. 688 6. 300 6. 386	856 866 886 886	8 32 8 32 9.00	7.44 7.443 7.053	7. 163 6. 953 6. 823	

¹ Exchange at par, 47.58.

The table above shows fluctuations of exchange rates on England and on the United States for the three South American countries.

In Brazil, as a consequence of the unfavorable trade balance, the dollar rose from a low of 3.637 milreis in January, 1920, to a high of 6.9 milreis in March, 1921. In Chile the dollar rose from $4.63\frac{1}{4}$ pesos in April, 1920, to $7.53\frac{1}{2}$ pesos in December of the same year. In Chile the exchange situation is peculiar. There is a large gold reserve with which to redeem the notes in circulation, but the date for thus redeeming them has been again and again postponed.² Thus they are in theory redeemable in gold; in fact, irredeemable. Because

of this, the currency is subject to violent fluctuations, which may vary 2 or 3 per cent from day to day and from 5 to 15 per cent in the course of a single month. These fluctuations in value give rise to extensive speculation, which in turn tends to aggravate still further the exchange situation. The nitrate situation, which is the principal factor in Chile's foreign trade and in the exchange market, looked very bright during the first half of 1920, before the world-wide depression began. It seemed probable that after five years of reduced food production all countries, especially those of Europe, would demand large quantities of fertilizer. The nitrate consumption bade fair to equal that of 1913; large quantities were being sold forward, and the best nitrate author-

² Exchange at par, 103.648.

 $^{^2\,\}mathrm{For}$ a discussion of this matter see Federal Reserve Bulletin, October, 1920, p. 1053.

ities were urging increased production. In August, however, came the reaction, due chiefly to the fact that Europe was having ever greater difficulty in paying for her imports. Also the decrease in the demand for nitrates in the manufacture of ammunition, together with the development of the production of ammonia from the air by Germany, continued, as in 1919, to exert a further depressing influence on the nitrate trade. The nitrate market declined rapidly; the price fell below the level at which the Nitrate Association found it profitable to sell; production fell off, resulting in widespread unemployment, and toward the end of the year the country was in a grave financial crisis.

Fluctuations in the value of the pound sterling in the South American countries were similar to those in the dollar, though owing to the depreciation of the pound its rise in terms of South American currency was not so great as the rise of the dollar. Other exchange quotations reflect the movement of these two leading currencies, the variations being due to causes on which South American conditions

exerted but little influence.

A serious phase of the situation was that large orders for imports of manufactured goods, mostly from the United States, were placed by South American concerns when times were prosperous and before the decline in prices occurred. Some of these goods were late in delivery, because of the insufficient output and the scarcity of shipping space, and thus arrived after the selling price had fallen below the contract buying price. There were some farsighted merchants who deferred placing their orders until after the fall in prices and yet received their goods as soon as, or even sooner than, did the merchants who had placed their contracts at the higher prices. The latter, realizing that their sales would thus result in great loss, canceled their orders, refused to receive the goods, or asked for repeated extensions of time on their payments. As a result of this, goods accumulated at all the ports of entry. In some cases the merchandise was piled up on docks, piers, or in sheds, municipal theaters, and other public buildings. Thus the delays in delivery, the fall in prices, the increasingly unfavorable rate of exchange, and the competition of those merchants who contracted at lower prices created great over-stocking of goods and financial difficulties. Widespread discussion of moratoria resulted from these conditions, and in some of the smaller countries legal or extralegal moratoria were actually declared, although no such action was taken in Argentina, Brazil, or Chile.

CREDITS GRANTED AND RECEIVED.

In order to encourage the export trade South American countries removed many of the restrictions on exports which had been imposed at the time when excessive exports of raw materials resulted in undue advances in prices in the home markets. Furthermore, several of the countries arranged to grant credits to some of the European countries for the purpose of encouraging exports. Thus Italy was granted a credit of 100,000,000 pesos by Argentina, while Belgium was granted a credit of 25,000,000 milreis by Brazil and one of 25,000,000 pesos by Chile. All of these credits were to be utilized for payment of goods pur-

chased in the creditor countries.

On the other hand, some of the South American countries obtained foreign credits for the purpose of improving their exchange position. Brazil, or rather the State of Sao Paulo, succeeded in floating a £5,000,000 loan, of which £2,000,000 were taken up in New York, £2,000,000 in London, and £1,000,000 in the Netherlands. The London bond issue matures in 30 years, the New York and Amsterdam issues in 15 years. The bonds are secured by the proceeds of a special surtax on the export of coffee grown or produced in the State of Sao Paulo. A \$24,000,000 loan to Chile was recently (Feb. 16) floated in New York, and has had a steadying effect on Chilean exchange. Argentina had a \$50,000,000 loan maturing in New York last fall, and not being able to renew it there on satisfactory terms, made arrangements by which England paid the American loan and received credit for it on her 100,000,000-peso loan contracted in 1918 and due on January 15 of this year. This British loan has since been liquidated.

REMEDIAL MEASURES.

Various methods of remedying the situation by legislative or administrative enactment were undertaken by the South American countries. In Argentina the establishment of a central bank of issue and rediscount has been advocated. No final action, however, has

been taken up to date.

The question of releasing from the Argentine conversion office the gold which has been impounded there since the beginning of the war, was seriously agitated, the argument being that it would improve the exchange rate and that the flow of gold would discontinue as soon as the exchange rate was rectified, while so long as the gold embargo continued the peso was bound to remain at a discount. The

Argentine authorities, however, were fearful that the exports of gold would result in a complete exhaustion of the gold reserves and a consequent more serious depreciation of the currency. Their argument was that, so long as they were not able to receive cash payment for their exports to Europe, they would not be able to use European credits for payment of American obligations and the unfavorable balance as regards the United States would result in serious inroads on their gold. Up to the present time the gold embargo in Argentina has been maintained, although recent dispatches indicate that efforts to release 100,000,000,000 gold pesos to stabilize exchange

are being made. Ernesto Tornquist, the leading private banker of Argentina, whose father was instrumental in the establishment of the conversion office and in the stabilization of the peso at 44 centavos gold, in a recent interview discussed the Argentine situation and proposed certain remedies. He believes that the financial system of Argentina, as much as world conditions, is responsible for the prevailing business depression. He suggests that the Banco de la Nacion shall reduce its interest rate on time deposits, limit its foreign exchange activities, and reorganize its discount business somewhat on the model of the Federal Reserve System in the United States. He further recommends the establishment of a central bank of issue and rediscount, and the gradual conversion of the Banco de la Nacion into an agricultural and live-stock bank to extend long-term loans to these industries. He would have the Government extend loans to foreign buyers of national products like wool, hides, meats, and cereals. He also advises authorizing the withdrawal of gold from the Caja de Conversion to a limited amount, settled in advance, and its export, this exported gold to be used for the payment of interest and amortization of the foreign debt and for settling unfavorable merchandise trade balances. As another remedial measure he proposes to have the Banco de la Nacion undertake rediscounting, especially for seasonal needs, such as crop moving or other emergencies. Unless some such measures are taken, he fears that Argentina may lose the commercial gains which she has made during the past five years.

In Brazil a bill for the establishment of a la Nacion, the bank of issue and rediscount was introduced, and in the meantime a division of the Bank of years, follow.

Brazil was established by executive decree. with authority to rediscount commercial bills and to issue Government paper money secured by such bills. The main provisions of the decree may be briefly summarized. The new department is to be in charge of a director nominated by the President of the Republic. Its operation will be limited to 100,000,000 milreis, which can be exceeded only under special conditions by order of the President of the Republic. The department will discount bills of exchange and drafts drawn in terms of Brazilian currency, guaranteed by at least two commercial banks in good standing. The banks with which this department will do business must be registered with it, and for such registration a minimum paid-in capital of 5,000,000 milreis is required. The period of rediscount will be four months at most; the paper accepted will be agricultural or live-stock paper. Against this paper the Bank of Brazil will issue Government notes, strictly limited to the amount of the rediscount operations.

Brazil also inaugurated a governmental control of foreign exchanges by regulating and supervising all banks and banking houses to prevent their speculating in exchange. The Government is also authorized to establish a special fund in New York and London, of which it may apply 50,000,000 milreis to buying and selling bills of exchange, both to assist legitimate commerce and to stabilize exchange.

In Chile, although the plan for the establishment of a central bank of issue and rediscount continues to be agitated, no definite action has vet been taken. The nitrate producers of the country have strengthened their organization so that they control about 98 per cent of the industry and are in a position to refuse to sell at prices below a figure which they consider profitable. Practically no sales have taken place in the spring of 1921, and are not expected before June. It is thought, however, that with the wider use of nitrogen for agricultural purposes in America and with the improvement of the exchange situation in Germany, the nitrate market will improve, as under normal exchange conditions the sale price of natural nitrates in Germany would probably be lower than the cost of production of artificial nitrates.

Tables showing the condition of the Banco de la Nacion, the Banco do Brazil, and of the Banco de Chile, at the close of the last two years follow

ASSETS AND LIABILITIES OF THE BANCO DE LA NACION, ARGENTINA, ON DEC. 31, 1919 AND 1920.

[In thousands of pesos.]

ASSETS AND LIABILITIES OF THE BANCO DE CHILE ON DEC. 31, 1919, AND 1920.

[In thousands of pesos.]

	1919						
	1010	1920		19	19	192	20
ASSETS.				Cur- rency.	Gold.	Cur- rency.	Gold.
Due from foreign correspondents. Advances in current accounts and on securities. Bills receivable. Accounts for collection Bills discounted and rediscounted. Doubtful debts. Real estate. National bonds, series A. Other Federal securities. Mobilization of conversion fund, law 9479. Furniture and stationery. Interest earned but not received. Due from the treasury, law 10251. Conversion account. Due from branches. Cash on hand. Due, according to the agreement with England and France. Total. LIABILITIES. Capital. Surplus. Conversion fund, law 3871.	72,000 342,970 356,506 289,496 1,903,508 138,551 43,652 68,182	4, 194 312, 680 2, 107 15, 241 491, 167 2, 388 23, 213 42, 738 45, 455 468 72, 000 265, 538 461, 926 266, 436 2, 005, 551	Cash Due from banks and bankers. Short-term bills, foreign Securities owned Real estate. Furniture and furnishings. Loans and advances. Treasury certificates. Due from agencies. Interest and discounts. Other assets. Total. LIABILITIES. Deposits in current accounts: Demand and time. In London. Due to banks and bankers. Savings deposits. Interest and discounts.	32, 521 20, 490 9, 912 12, 049 1, 082 300, 982 16, 580 3, 293 1, 648 12, 280 411, 287 253, 840 2, 178 1, 857	12, 913 3, 334 3, 000 5, 581 1, 200 2 32, 546 	48, 844 11, 019 9, 233 12, 214 1, 246 353, 398 10, 000 9, 164 2, 878 3, 725 461, 721	9, 469 1, 593 5, 465 30, 445 5, 750 18, 863 71, 585
Conversion account. Mobilization of the conversion fund. Deposits, time and demand. Discounts, interests unearned but collected Due to branches.	342,970 45,455 1,249,730 4,118 10,850	265, 538 45, 455 1, 412, 351 7, 149 11, 923	Capital paid in Surplus Due to stockholders. Dividends	34,000 3,111 138	5,000	58,000 3,606 179	13, 333
Total		2,005,551	Profit and loss Other liabilities Total	50,685	30, 632 77, 446	9,002 47,167 461,721	25, 576

ASSETS AND LIABILITIES OF THE BANCO DO BRAZIL ON DEC. 31, 1919 AND 1920.

[In thousands of milreis.]

896 530 1 081 479	ASSETS. Government securities in guaranty of reserve fund. Loans in current accounts. Bills discounted. Bills receivable. Foreign and domestic credits. Due from agents in Brazil and in Europe. Bank stock. Other stock Stock in liquidation. Various accounts. Cash in wault. Bank buildings and furnishings. Total.	123, 146 113, 779 96, 550 86, 701 125, 446 10, 490 2, 704 5, 463 182, 526 69, 152 2, 307	9, 694 138, 375 139, 158 281, 371 155, 608 11, 888 10, 346 2, 505 223, 129 106, 526 2, 872 1, 081, 472	LIABILITIES. Capital paid in. Surplus. Deposits, not interest bearing Deposits, interest bearing Deposits, time. Current accounts Due to agents in Brazil and in Europe. Bills payable, interest bearing. Government deposits, judicial. Government deposits, judicial. Dividends payable. Dividends, undivided. Various accounts. Pension fund. Profit and loss. Total.	8, 865 23, 788 119, 222 17, 922 1, 519 38, 420 18, 115 1, 513 8, 889 796 2, 250 523, 823 8, 427 7, 980	1920 45,000 10,632 121,553 127,144 36,152 21,114 3,843 8,885 856 2,256 686,121 9,627 8,291 1,081,477
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MAY, 1921.

PRICE MOVEMENT AND VOLUME OF TRADE.

WHOLESALE PRICES IN THE UNITED STATES.

Wholesale prices declined 3 per cent in March as compared with 6 per cent in February and 9 per cent in December, according to the index numbers compiled by the Federal Reserve Board and the Bureau of Labor Statistics. Although both indexes agree as to the monthly rate of decline, they differ somewhat as to the present level of prices as compared with the prewar level. According to the compilation of the Federal Reserve Board (based upon 88 commodities), wholesale prices in March were 50 per cent above the prewar level, while according to that of the Bureau of Labor Statistics (based upon approximately 325 commodities) they were 62 per cent higher. In other words, the value of the dollar at wholesale might be estimated at 67 cents according to the Federal Reserve Board index and at 62 cents according to that of the Bureau of Labor Statistics.

The more rapid decline in the prices of raw materials than of manufactured goods, which has been characteristic of the price situation in recent months, is clearly indicated by the change in the Federal Reserve Board index numbers for raw materials and producers' and consumers' goods. The two latter groups consist of commodities in a manufactured or semimanufactured condition, while the first one consists exclusively of raw materials. In January the index of raw materials stood at 164, in March at 146, a drop of 11 per cent. The index of consumers' goods, on the other hand, has declined only 5 per cent during the same period and producers' goods 8 per cent. The reclassification of the index number of the Bureau of Labor Statistics to show the relative fluctuations in raw materials and manufactured goods gives similar results, showing a decline in the prices of raw materials between January and March of 10 per cent; in producers' and consumers' goods 8 per cent.

The unusual stability which was noted last month in the prices of goods imported continued in March. This index number is nearer the prewar level than any other computed by the Board, showing a 54 per cent fall from the peak of last May and now standing at 114 as compared with 100 in 1913. Prices of exports continued to decline in March, the index shifting from 135 in February to 125 in March.

For detailed information regarding the makeup of the Federal Reserve Board index num-

ber, reference may be made to the FEDERAL RESERVE BULLETIN for May, 1920, pages 499–503. The commodities included in the different groups are listed there with exact specifications and markets indicated. The "weights" assigned to the different commodities in constructing the index numbers are also given in detail.

The index of "goods produced" consists of average prices of 72 commodities (30 raw materials, 24 producers' and 18 consumers' goods). These include agricultural products (such as grains, live stock, and textiles), minerals, and lumber, among the raw materials; yarns, leather, semifinished steel products, refined oils, chemicals, building materials, etc., among the producers' goods; and vegetables, meats, flour, dairy products, cotton and woolen cloth, boots and shoes, and kerosene among the consumers' goods.

The index of "goods imported" consists of the prices of 18 commodities (9 raw materials, 7 producers' and 2 consumers' goods). It includes Egyptian cotton, Australian and South American raw wool, Japanese and Chinese silk, South American hides, Straits tin, and Canadian lumber among the raw materials; plantation and Para rubber, Chilean nitrate, cane sugar, burlap, sisal, etc., among producers' goods; and tea and coffee for consumers' goods.

Leading American exports are included in the index of prices of goods exported, which is made up of 39 commodity prices (17 raw materials, 12 producers', and 10 consumers' goods). Grains, tobacco, cotton, copper, coal, pig iron, petroleum, and lumber make up the fist of raw materials; vegetable oils, leather, semifinished metal products, refined oils, and chemicals the producers' goods; and wheat flour, refined sugar, pork products, coffee, cotton cloth, boots and shoes and kerosene the consumers' goods.

The index numbers of "raw materials," "producers' goods" and "consumers' goods" consist of the commodities mentioned above which fall into these classes, whether they are of domestic or foreign origin. The raw materials group includes 39 commodities, the producers' goods 29 commodities, and consumers' goods 20 commodities.

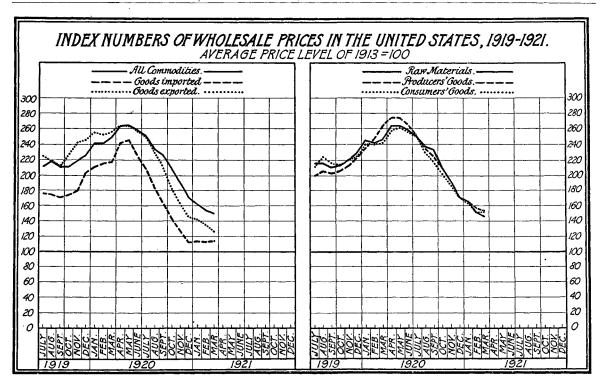
The "all commodities" index is obtained by

The "all commodities" index is obtained by combining the group indexes of domestic and foreign goods. It consists of 88 different commodities.

INDEX NUMBERS OF WHOLESALE PRICES IN UNITED STATES—CONSTRUCTED BY THE FEDERAL RESERVE BOARD FOR THE PURPOSE OF INTERNATIONAL COMPARISON.

[Average price for 1913=100.]

Date.	Goods produced.	Goods imported.	Goods exported.	Goods consumed.	Raw materials.	Producers' goods.	Consumers'	All com- modities.
1913. Average for the year	100	100	100	100	100	100	100	100
Average for the year	209	174	214	206	209	198	207	206
Average for the year March April May July August September October November December	250 265	191 218 242 246 226 208 182 164 142 127	227 256 264 262 256 248 229 211 181 163 146	234 247 263 264 257 249 234 227 211 193 176	235 246 263 263 258 249 237 233 211 192 176	237 263 274 274 265 251 235 225 209 190 171	229 211 257 261 255 250 229 218 203 187 171	233 248 263 264 258 259 234 226 208 190 173
January February March	166 156 152	114 113 114	142 135 125	165 155 145	164 152 146	166 158 153	159 152 151	163 154 150



INDEX NUMBERS OF WHOLESALE PRICES IN THE UNITED STATES FOR PRINCIPAL CLASSES OF COMMODITIES—BUREAU OF LABOR STATISTICS.

[Average price for 1913=100.]

		F	Raw material	s.				All com- modities.
Year and month.	Agricul- tural products.	Animal products.	Forest products.	Mineral products.	Total raw materials.	Producers' goods.	Consumers' goods.	
1913.								
Average for the year	100	100	100	100	100	100	100	100
March 1920. April	304	200 196 179	348 367 367	197 224 234	247 260	246 263 271	263 280 285	253 265 279
May June. July.	301 287	179 186 184 181	363 359 351	254 245 256 265	260 261 258 251	262 251 238	279 279 272 250	272 269 262 250
August September October November	232 191	181 186 172 159	339 289	203 277 272 246	248 248 230 205	209 193	240 224 224 214	242 242 225 207
December	155	132	278	224	186	175	196	189
1921. January. February. March		110 114 116	245 227 213	220 207 197	175 165 158	169 161 155	182 171 168	178 167 162

In order to give a more concrete illustration of actual price movements, there are also presented in the following table monthly actual and relative figures for certain commodities of a basic character. The prices shown in the Age.

AVERAGE MONTHLY WHOLESALE PRICES OF COMMODITIES.

[Average price for 1913=100.]

		Corn, No. 3, Chicago.		Cotton, middlings New Orleans.		Wheat, No. 1, northern spring, Minneapolis.		Wheat, No. 2, red winter, Chicago.		Cattle, steers, good to choice, Chicago.		ackers, native hicago.
Year and month.	Average price per bushel.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per bushel.	Rela- tive price.	Average price per bushel.	Rela- tive price.	Average price per 100 pounds.	Rela- tive price.	Average price per pound.	Rela- tive price.
1913 1919	\$0.6155 1.5800	100 257	\$0.1270 .3185	100 251	\$0.8735 2.5660	100 294	\$0,9863 2,5370	100 239	\$8.5072 17.4957	100 206	\$0.1839 .3931	100 214
March 1920 April May June July August September October November December	1.6913 1.9825 1.8390 1.5388 1.5310 1.2938 8778	252 275 322 299 250 249 210 143 130 119	. 4060 .4144 .4038 .4030 .3950 .3380 .2706 .2088 .1780 .1444	320 326 318 317 311 266 213 164 140 114	2, 7550 3, 0063 3, 0750 2, 9900 2, 8313 2, 5500 2, 4903 2, 1063 1, 7528 1, 6809	315 344 352 332 324 292 285 241 201 192	2. 5000 2. 7725 2. 9750 2. 8950 2. 8950 2. 4735 2. 4919 2. 2047 2, 0570 2. 0125	253 281 302 294 284 251 253 224 209 204	14. 4000 13. 9063 12. 6000 15. 0313 15. 3813 15. 3500 15. 2500 14. 6875 14. 5750 12. 0938	169 163 148 177 181 180 179 173 171	. 3640 . 3613 . 3538 . 3410 . 2944 . 2850 . 2840 . 2550 . 2325 . 1900	198 196 192 185 160 155 154 139 126
1921 JanuaryFebruary March	. 6553 . 6350 . 6180	106 103 100	.1450 .1322 .1105	114 104 87	1. 7884 1. 6713 1. 6135	205 191 185	1. 9613 1. 9194 1. 6798	199 195 170	9. 8400 9. 3125 9. 5625	116 109 112	. 1675 . 1363 . 1150	91 74 63

AVERAGE MONTHLY WHOLESALE PRICES OF COMMODITIES—Continued.

[Average price for 1913=100.]

	Hogs, Chica		Wool, Ol grades, se	Wool, Ohio, 1-3 grades, scoured.		Hemlock, New York.		Yellow pine, flooring, New York.		minous, ne, f. o. b. mines, urgh.	Coal, bitu Pocahont spot at 1 Colum	as, f. o. b. mines,
Year and month.	Average price per 100 pounds.	Rela- tive price.	Average price per pound.	Rela- tive price.	Average price per M feet.	Rela- tive price.	Average price per M feet.	Rela- tive price.	Average price per short ton.	Rela- tive price.	Average price per short ton.	Rela- tive price.
1913 1919.	\$8, 4541 18, 3260	100 217	\$0,4710 1,1894	100 248	\$24, 2273 39, 7500	100 164	\$44, 5909 78, 8333	100 177	\$1.3200	100	1 \$1, 5710	100
March. April. May June July August September October November December.	15. 7125 14. 7550 15. 3500 15. 8875 15. 7350 17. 0688 14. 7875 12. 1400	183 186 175 182 188 186 202 175 144 114	1. 2364 1. 2000 1. 1636 1. 0000 . 9091 . 8727 . 8364 . 7273 . 6909 . 5455	263 255 247 212 193 185 178 154 147 116	57. 0000 57. 0000 57. 0000 57. 0000 57. 0000 57. 0000 57. 0000 57. 0000 57. 0000 57. 0000	235 235 235 235 235 235 235 235 235 235	139, 0000 160, 0000 160, 0000 160, 0000 157, 0000 157, 0000 152, 0000 124, 5000 124, 5000	312 359 359 359 359 352 352 341 279 279	2. 3500 3. 5900 4. 4200 8. 6700 10. 0000 10. 6300 0. 4700 8. 7500 5. 1900 3. 7500	178 272 335 657 758 805 793 663 393 284	2. 3500 4. 0700 6. 4700 7. 0000 7. 9000 8. 6300 8. 6600 7. 3800 5. 2000	150 259 412 446 503 549 551 529 470 331
1921 January	9. 6700 9. 7063 10, 3063	114 115 122	. 5455 . 5455 . 5273	116 116 112	48, 0000 48, 0000 48, 0000	198 198 198	110, 0000 95, 0000 95, 0000	247 213 213	2. 5300 2. 4200 2. 2900	192 183 173	4. 2506 3. 7300 3. 4000	271 237 213
	Coal, ant stove, Ne tidew:	w York,	Coke, Co vill		Copper, electro New Y	lytic,	Lead, deslive New Y	rized,	Petroleun Pennsyl at we	vania,	Pig iron	, basic.
Year and month.	Average price per long ton.	Rela- tive price.	Average price per short ton.	Rela- tive price.	A verage price per pound.	Rela- tive price.	A verage price per pound.	Rela- tive price.	A verage price per barrel.	Rela- tive price.	A verage price per long ton.	Rela- tive price.
1913. 1919.	\$5.0613 8.1639	100 161	\$2, 4396 4, 7375	100 194	\$0. 1573 . 1911	100 122	\$0. 0440 . 0578	100 131	\$2, 4500 4, 1346	100 169	\$14.7058 27.6971	100 188
March	8. 9964 9. 3672 9. 4580	166 167 178 185 187 190 206 207 208 208	6. 0000 10. 5000 12. 0000 14. 3750 15. 5500 15. 3125 14. 3125 8. 8500 6. 2375	246 430 492 586 589 637 628 587 363 256	. 1858 . 1919 . 1906 . 1900 . 1900 . 1900 . 1869 . 1675 . 1455 . 1369	118 122 121 121 121 121 121 119 106 92 87	. 0923 . 0896 . 0856 . 0848 . 0860 . 0898 . 0816 . 0731 . 0628 . 0478	210 204 195 193 195 204 185 166 143 109	6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000 6. 1000	249 249 249 249 249 249 249 249 249 249	41, 6000 42, 5000 43, 2500 44, 0000 45, 7500 48, 1000 48, 5000 43, 7500 36, 5000 33, 0000	283 289 294 299 311 327 330 298 248 224
1921. January February March		210 210 210	5. 5313 5. 1875 5. 0000	227 213 205	. 1288 . 1288 . 1223	82 82 78	. 0497 . 0468 . 0405	113 106 92	5. 7750 4. 1875 3. 0000	236 171 122	30. 0000 27. 5000 24. 2000	204 187 165

 $^{^{\}rm 1}$ On Toledo market, average for last six months of 1913.

AVERAGE MONTHLY WHOLESALE PRICES OF COMMODITIES-Continued.

[Average prices of 1913 == 100.]

			[A v	rerage pi	.1065 01 191	3 am 100.]						
	Cotton northern	cones,	Leather hemlock		Steel b Besser Pittsbr	mer,	Steel p tank, l burg	Pitts-	Steel i open he Pittsb	earth,	Worsted 2-32's o	ross-
Year and month.	A verage price per pound.	Rela- tive price.	A verage price per pound.	Rela- tive price.	A verage price per long ton.	Rela- tive price.	A verage price per pound.	Rela- tive price.	A verage price per long ton.	Rela- tive price.	A verage price per pound.	Rela- tive price.
1913	\$0. 2213 . 5340	100 241	\$0. 2821 . 5283	100 187	\$25. 7892 40. 5385	100 157	\$0.0148 .0271	100 183	\$30.0000 49.2642	100 164	\$0.7767 1.6274	100 210
March April May June. July Angust September October November December	. 7672 . 7299 . 7009 . 6310 . 5429	341 352 347 330 317 285 245 196 167 140	. 5700 . 5700 . 5700 . 5700 . 5700 . 5500 . 5100 . 4900 . 4700 . 4100	202 202 202 202 202 202 195 181 174 167 145	60, 0000 60, 0000 60, 0000 60, 0000 62, 5000 61, 0000 58, 7500 55, 0000 49, 7000 43, 5000	233 233 233 233 242 237 228 213 193 169	. 0365 . 0375 . 0375 . 0355 . 0338 . 0325 . 0325 . 0309 . 0281 . 0265	247 253 253 240 228 220 220 209 190 179	54. 5000 54. 5000 54. 5000 54. 5000 54. 5000 54. 5000 54. 5000 54. 5000 54. 5000 56. 5000	182 182 182 182 182 182 182 182 182 182	2. 2000 2. 2000 2. 0000 2. 0000 1. 7500 1. 7500 1. 5000 1. 3000 1. 1000	283 283 258 258 225 225 206 193 167 142
1921. January February March	. 2878 . 2775 . 2447	130 125 111	. 4000 . 3800 . 3700	142 135 131	43. 5000 42. 2500 38. 4000	169 164 149	. 0265 . 0233 . 0204	179 157 138	47. 0000 47. 0000 47. 0000	157 157 157	1.1500 1.1500 1.2000	148 148 155
Year and month.	Beef, ca good n steers, C	ative	Coffee, Ri	o, No. 7.	Flour, v standard (1918, sta war Minnea	patents indard),	Hams, si Chica		Illumina 150° fir New Y	e test,	Sug granul New Y	ated,
	A verage price per pound.	Rela- tive price.	A verage price per pound.	Rela- tive price.	A verage price per barrel.	Rela- tive price.	A verage price per pound.	Rela- tive price.	A verage price per gallon.	Rela- tive price.	A verage price per pound.	Rela- tive price.
1913	\$0.1295 .2333	100 180	\$0.1113 .1785	100 160	\$4.5837 11.9982	100 262	\$0.1662 .34 3 3	100 207	\$0.1233 .2004	100 163	\$0.0427 .0894	100 209
March 1920. April May June July August September October November December .	. 2090 . 1950 . 2225 . 2550 . 2550 . 2600	158 161 151 172 197 197 201 195 185	. 1500 . 1514 . 1559 . 1498 . 1306 . 0936 . 0819 . 0759 . 0746 . 0656	135 136 140 135 117 84 74 68 67 59	13. 1650 14. 2813 15. 0313 14. 1600 13. 6688 12. 2350 12. 5938 11. 2063 9. 2950 8. 9438	287 312 328 309 298 267 275 244 203 195	.3155 .3313 .3556 .3650 .3769 .3725 .3634 .3575 .3065 .2575	190 199 214 220 227 224 219 215 184 155	. 2500 . 2600 . 2600 . 2600 . 2600 . 2600 . 2750 . 2900 . 2900	203 211 211 211 211 211 211 223 235 235 235	. 1372 . 1919 . 2247 . 2120 . 1910 . 1490 . 1426 . 1078 . 0962 . 0809	321 449 526 497 447 349 344 252 225
1921. JanuaryFebruary March		134 124 125	. 0669 . 0672 . 0639	60 60 57	9. 6250 9. 1813 8. 7300	210 200 190	. 2488 . 2600 . 2725	150 156 164	. 2900 . 2750 . 2625	235 223 213	. 0757 . 0709 . 0784	177 166 184

FOREIGN TRADE INDEX.

designed to reflect movements in foreign trade of the United States, with 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. The list includes 25 of the most important imports, the value of which in 1913 formed 47.7 per cent of the total import values, and 29 of the most important exports, the value of which in 1913 formed 56.3 per noticeable in the case of wheat, cotton, and

There is presented below a series of indexes used was given in the July, 1920, Bulletin. A classification of the 11 additional commodities of imports was given in the October, 1920, BULLETIN.

Total exports continued their decline during March, while imports again showed a considerable increase. The decline in exports took place in both raw materials and producers' goods, but there was a slight increase in the exports of consumers' goods. The decrease in the exports of raw materials was most cent of the total export values. The classi-fication of the original list of commodities goods a decline was noted in the export of every commodity. The most noticeable increase in the exports of consumers' goods was in the case of wheat flour. There was a considerable increase in every class of imports. The outstanding increase in raw materials was every commodity.

VALUE OF EXPORTS AND IMPORTS OF SELECTED COMMODITIES AT 1913 PRICES.

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

[Monthly average values, 1913=100.]

				Ex	ports.							Im	ports.			
·	Raw mar (12 comi ties)	nodi-	Produ goods (I modit	.0 com-	Consur goods (' modit	7 com-	Total (29 moditi		Raw ma (10 com ties	modi-	Produ goods (1 modit	2 com-	Consugoods (3 com-	Total (2) moditi	
	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.	Value.	Index num- ber.
1913. January February March April May June July August September October November	100,027 71,074 61,681 71,446 68,856 46,963 51,325 74,869 103,614 137,772 126,836 113,326	116. 8 83. 0 72. 0 83. 0 80. 4 54. 8 59. 9 87. 4 120. 9 160. 9 148. 1 132. 3	11,762 12,266 11,836 14,128 11,661 11,612 11,109 11,547 10,622 12,608 9,987 10,053	101. 4 105. 8 102. 1 121. 8 100. 6 100. 1 95. 8 99. 5 91. 6 108. 7 86. 1 86. 7	30,715 30,790 28,698 28,708 29,923 28,242 27,686 29,370 32,190 34,612 31,246 33,089	100. 9 101. 2 94. 3 94. 3 98. 3 92. 8 91. 0 96. 5 105. 8 113. 8 102. 7 108. 7	142,504 114,130 102,215 114,282 110,440 86,817 90,120 115,786 146,426 184,992 168,069 156,468	111, 6 89, 4 80, 1 89, 5 86, 5 68, 0 70, 6 90, 7 114, 7 144, 9 131, 6 122, 5	61,347 55,332 55,555 52,271 50,089 40,822 40,298 42,470 52,659 44,407 48,107 60,904	121, 9 110, 0 110, 4 103, 9 99, 5 81, 1 80, 1 84, 4 104, 6 88, 2 95, 6 121, 0	40,107 41,060 45,753 42,346 38,409 38,606 35,990 37,385 41,184 22,721 28,788 31,929	108. 3 110. 9 123. 6 114. 4 103. 7 104. 3 97. 2 101. 0 111. 2 61. 4 77. 8 86. 2	14,219 14,335 13,378 10,896 7,718 8,382 9,698 11,078 15,829 15,059 21,446	108.0 108.9 101.6 82.7 58.6 63.7 73.6 84.1 120.6 121.0 114.4 162.9	115,673 110,727 114,686 105,513 96,216 87,810 85,986 90,933 109,726 83,057 91,954 114,279	115. 1 110. 1 114. 1 104. 9 95. 7 87. 3 85. 4 90. 4 109. 2 82. 6 91. 5 113. 7
Үеаг	1,027,789	100.0	139,191	100.0	365,269	100.0	1,532,249	100.0	604,261	100, 0	444,278	100.0	158,021	100.0	1,206,560	100.0
January February March April May June July August September October November	84,066 58,488 57,659 65,112 67,595 98,335 71,917 81,250 70,285 70,322 99,552 89,584	98. 2 68. 3 67. 3 76. 0 78. 9 114. 8 84. 0 94. 9 82. 1 82. 1 116. 2 104. 6	18,444 14,598 16,161 19,356 15,972 28,618 17,150 19,574 19,359 17,182 15,735 13,208	159. 0 125. 9 139. 3 166. 9 137. 7 247. 1 147. 9 168. 8 166. 9 148. 1 135. 7 113. 9	56,748 53,338 61,585 80,639 58,731 96,088 52,553 49,194 43,342 45,844 46,729 43,571	186, 4 175, 2 202, 3 264, 9 192, 9 315, 1 172, 7 161, 6 142, 4 150, 6 153, 5 143, 1	159, 258 126, 424 135, 405 165, 107 142, 298 223, 041 141, 620 150, 018 132, 986 133, 348 162, 016 146, 363	124. 7 99. 0 106. 1 129. 3 111. 4 174. 7 110. 9 117. 5 104. 1 104. 4 126. 9 114. 6	44,552 47,774 54,947 63,385 81,274 83,256 86,443 85,571 123,524 99,114 98,690 79,965	88. 5 94. 9 109. 2 125. 9 161. 4 171. 7 169. 9 245. 3 196. 8 196. 1 158. 9	53,071 66,708 82,546 88,017 89,890 61,886 77,401 42,132 70,033 74,736 79,198 71,886	143. 3 180. 2 223. 0 237. 7 242. 8 167. 2 209. 1 113. 8 189. 2 201. 9 213. 9 194. 2	14,434 14,230 25,223 18,869 24,861 18,512 29,492 20,953 25,240 20,386 21,254 21,521	108. 1 109. 6 191. 6 143. 3 188. 8 140. 6 224. 0 159. 1 191. 7 154. 8 161. 4 163. 4	112,057 128,712 162,716 170,271 196,025 166,654 193,336 148,656 218,797 194,236 199,142 173,372	111. 4 128. 0 161. 8 169. 3 195. 0 165. 7 192. 3 147. 8 217. 6 193. 2 198. 1 172. 4
Year	914,165	88.9	215,357	154.7	688,362	188. 5	1,817,884	118.6	951,495	157. 5	857,504	193. 0	254,975	161.4	2,063,974	171. 1
January. February. March. April May. June. July. August. September. October November. December.	93,142 70,150 90,779 68,048 63,650 55,200 66,924 67,225 70,699 101,708 95,148 104,828	108. 7 81. 9 106. 0 79. 4 74. 3 64. 5 78. 1 78. 5 82. 5 118. 7 111. 1 122. 4	13,883	134. 9 122. 4 148. 8 147. 1 151. 3 126. 4 165. 0 135. 4 119. 7 152. 2 121. 8 186. 0	35,377 41,645 56,612 51,689 62,457 46,113 43,325 28,599 37,859 33,996 37,536	116. 2 136. 8 186. 0 169. 8 205. 2 151. 5 142. 4 94. 0 94. 0 124. 4 111. 7 123. 3	144, 166 125, 996 164, 513 136, 800 143, 653 115, 976 129, 387 111, 527 113, 181 157, 216 143, 267 163, 941	112. 9 98. 7 128. 9 107. 1 112. 5 90. 8 101. 3 87. 3 88. 6 123. 1 112. 2 128. 4	103,782 87,210 97,011 87,588 64,177 75,225 60,942 61,321 51,388 44 866 43,436 39,963	206. 1 173. 2 192. 7 174. 0 127. 5 149. 5 121. 0 121. 8 102. 1 89. 1 86. 3 79. 4	90,633 107,162 125,496 97,187 81,134 95,699 93,910 91,836 61,163 48,683 61,590 49,239	244. 8 289. 5 339. 0 262. 5 227. 2 258. 5 253. 7 256. 2 165. 2 131. 5 166. 4 133. 0	24,062 19,936 25,999 29,076 14,887 21,463 24,562 22,624 17,226 17,613 14,610 13,401	182. 7 151. 4 197. 4 220. 8 113. 1 163. 0 183. 5 171. 8 130. 8 133. 8 111. 0 101. 8	218, 477 214, 308 248, 506 213, 851 163, 198 192, 387 179, 414 178, 811 129, 777 111, 162 119, 636 102, 603	217. 3 213. 1 247. 2 212. 7 162. 3 191. 8 178. 1 177. 6 129. 0 110. 0 119. 0
Year	947,501	92, 2	198,457	142.6	503,802	137. 9	1,649,760	107. 7	816,909	135. 2	1,009,762	227. 3	245,459	155, 3	2,072,130	171.7
January February March	90,063 77,922 65,680	105. 2 91. 0 177. 4	16,349	187. 9 141. 0 104. 4	38,356 35,433 37,243	126. 0 116. 4 122, 4	150,216 129,704 116,126	117. 6 101. 6 91. 1	37,523 59,514 80,926	74, 5 118, 2 160, 7	48,442 53,111 65,698	130. 8 143. 5 177. 5	19,288 21,179 27,560	146, 5 160, 8 209, 3	105,253 133,804 174,166	104. 7 133. 1 173. 2

PHYSICAL VOLUME OF TRADE.

In continuation of tables in the April, 1921, Federal Reserve Bulletin there are presented in the following tables certain data relative to the physical volume of trade. The January, 1919, issue contains a description of the methods employed in the compilation of the data and the construction of the accompanying index numbers. Additional material will be presented from time to time as reliable figures are obtained.

The textile industry has continued its recovery and has shown the usual seasonal productive activity. Cotton consumption during March increased slightly, but was considerably lower than the consumption during March, However, the number of cotton spindles active during the month decreased slightly from last month. The percentage of idle wool machinery during the month of March to the total reported continued to decline. The imports of raw silk, after a very large increase last month, decreased slightly during March.

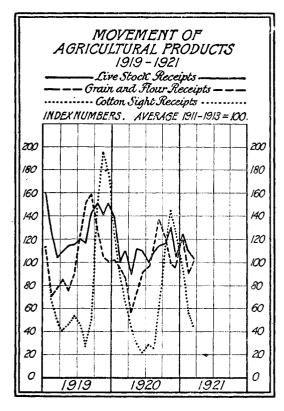
The production of bituminous coal during March continued its decline and was considerably less than the production during March, 1920. The production of anthracite coal also continued to show a downward trend, being slightly less than last month and somewhat less than the same month a year ago. March crude petroleum production showed a considerable increase over the production of last month, as well as over the production for March, 1920. Pig-iron production during April made another record drop, reaching almost the low production of June, 1908. The average daily production during April was 39,768 tons, as compared with 91,327 tons during April, 1920, and 51,468 tons during March, 1921. Steel-ingot production likewise showed another considerable drop, being considerably below the production of last month and the same month a vear ago. The unfilled orders of the United States Steel Corporation at the close of April also continued to decline, reaching a new low point.

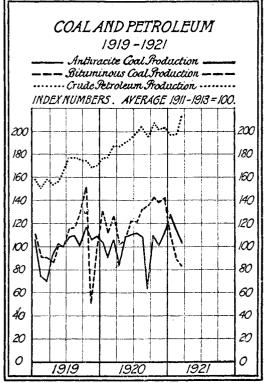
Receipts of live stock at 15 western markets showed a further decrease during March and were still below the figure for March, 1920. There was an increase over the previous month in the receipts of cattle and calves and sheep, but a large drop occurred in the case of hogs. Total shipments increased slightly over February, but were practically the same time the railroad outlaw strike occurred.

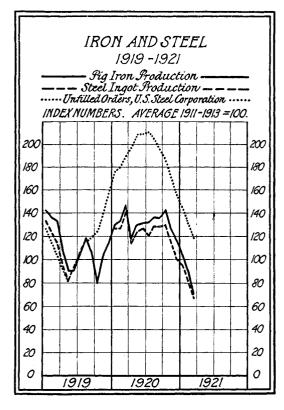
as during March a year ago. Stocker and feeder shipments from 34 markets showed a very large seasonal gain over February, but were still smaller than shipments during March, 1920. The number of animals slaughtered under Federal inspection during March reflected the seasonal decrease and was considerably lower than during March, 1920. Receipts of grain and flour at 17 interior centers during March were in larger volume than either last month or the same month a year ago. Stocks of grain at 11 interior centers at the close of March were much larger than in February, 1921, or March a year ago. Wheat flour production during March showed a marked increase over February and was somewhat larger then during March, 1920. Cotton sight receipts continued their seasonal decrease, and the American spinners' takings decreased to about one-half of last month's takings.

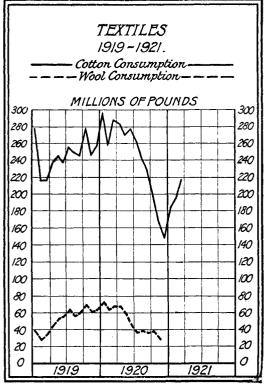
Receipts and shipments of lumber at Chicago and St. Louis during April showed a slight decrease from the March figure, but were still considerably larger than receipts and shipments during April, 1920. The production of lumber during March has shown a considerable revival in each of the five associations, namely, southern pine, western pine, Douglas fir, eastern white pine, and North Carolina pine. The production increased considerably over February, but was still considerably less than the production during March, 1920. Receipts and meltings of raw sugar at the North Atlantic ports showed a considerable increase over February, but in both cases were smaller than during March, The raw stocks at the close of March at these ports decreased from the February figure, and were practically the same as raw stocks at the close of March, 1920. California shipments of citrus fruits during March increased both when compared with last month and the same month a year ago. Shipments of deciduous fruits were the same as fast month and considerably smaller than during March, 1920.

Tonnage of vessels cleared during March was larger than in February, or in March a year ago. The January railway net ton mileage dropped to a very low figure, and was the smallest figure since April, 1920, at which









LIVE-STOCK MOVEMENTS.

[Bureau of Markets.]

			Receipts.					Shipments.		
	Cattle and calves, 59 markets.	Hogs, 59 markets.	Sheep, 59 markets.	Horses and mules, 43 markets.	Total, all kinds.	Cattle and calves, 54 markets.	Hogs, 54 markets.	Sheep, 54 markets.	Horses and mules, 43 markets.	Total, all kinds.
1920. March	Head. 1,643,816	Head. 3,903,804	Head. 1,254,951	Head. 82,584	Head. 6,885,155	Head. 571,123	Head. 1,399,485	Head. 483,559	Head. 87,896	Head. 2,542,054
JulyAugustSeptemberOctoberNovemberDecember	1,952,086 2,279,345 2,196,939	2,837,685 2,516,240 2,435,589 2,826,277 3,862,243 4,186,261	2,000,758 2,561,661 2,826,693 2,945,709 2,419,596 1,546,876	35,668 73,423 57,468 38,657 22,477 16,118	6,531,854 7,103,410 7,599,095 8,007,582 8,708,306 7,132,250	721,328 869,849 1,079,170 1,159,459 1,148,861 647,801	1,095,470 953,089 931,261 1,064,175 1,394,347 1,516,893	1,015,612 1,459,150 1,781,680 1,932,083 1,474,299 704,760	37,152 69 971 60,414 37,994 22,963 17,030	2, 969, 562 3, 352, 058 3, 652, 525 4, 193, 711 4, 040, 470 2, 886, 484
1921. January February March	1,629,994 1,174,611 1,548,061	4,654,560 3,951,971 3,338,483	1,769,155 1,501,902 1,731,653	34,712 41,212 41,951	8,088,421 6,669,696 6,660,148	602,320 456,471 587,898	1,637,902 1,346,092 1,229,105	681,987 590,487 688,072	34,572 40,611 42,602	2,956,781 2,433,661 2,547,977

RECEIPTS AND SHIPMENTS OF LIVE STOCK AT 15 WESTERN MARKETS.

[Chicago, Kansas City, Oklahoma City, Omaha, East St. Louis, St. Joseph, St. Paul, Sioux City, Cincinnati, Cleveland, Denver, Fort Worth Indianapolis, Louisville, Wichita. Monthly average, 1911–1913=100.]

RECEIPTS.

	Cattle an	d calves.	Но	gs.	She	ep.	Horses an	nd mules.	Total, al	l kinds.
	Head.	Relative.	Head.	Relative.	Head.	Relative.	Head.	Relative.	Head.	Relative.
1920.	1 105 000	110	0.050.151	100	200 700		F. 000	104	F 004 400	100
March	1,195,622	119	2,852,171	130	899,760	66	56,880	124	5,004,433	108
July	1,188,019 1,459,565 1,736,009 1,628,564 1,781,261 984,309	118 145 172 162 177 98	2,115,639 1,818,245 1,597 622 1,836,748 2,624,185 2,932,052	96 83 73 84 119 133	1,301,458 1,688,719 1,893,312 1,865,330 1,542,477 942,858	95 124 139 136 113 69	26, 257 55, 371 38, 950 24, 716 12, 149 9, 290	57 120 85 54 26 20	4,631,373 5,021,900 5,265,893 5,355,358 5,960,072 4,868,509	100 100 114 116 120 100
1921. January February March	1,191,914 825,686 1,119,548	118 89 111	3 339,419 2,902,107 2,390,480	152 141 109	1,112,024 972,647 1,161,549	81 76 85	24, 158 27, 111 28, 437	52 63 62	5,667,415 4,737,551 4,700,014	123 110 102
				SHIP	MENTS.	- 1000				
1920.					202 2					
March	418,310	103	923,526	191	298,878	59	61,625	150	1,702,339	119
July August September October November December	508, 199 649, 295 819, 371 866, 327 810, 284 472, 748	125 157 202 213 199 116	737, 923 627, 670 540, 812 584, 742 784, 468 943, 515	152 130 112 121 162 195	644, 557 899, 342 1,027,510 1,192,912 952,159 384,646	128 179 204 237 189 76	27, 728 52, 163 40, 890 24, 051 12, 782 10, 201	68 127 100 59 31 25	1,918,407 2,219,470 2,428,583 2,668,032 2,559,693 1,811,110	134 155 169 186 179 126
1921. January February March	426,887 334,113 447,682	105 88 110	1,978,679 869,718 825,944	223 192 170	316,068 324,311 406,705	63 69 81	24,463 26,495 28,765	60 69 70	1,846,097 1,554,637 1,709,096	129 116 119

SHIPMENTS OF STOCKERS AND FEEDERS FROM 34 MARKETS.

	Cattle and calves.	Hogs.	Sheep.	Total, all kinds.		Cattle and calves.	Hogs.	Sheep.	Total, all kinds.
1920. March	273,512	Head. 101,173 25,711 34,415 44,340 59,123	Head. 135,244 322 867 567,429 789,387 1,055,237	Head. 475,780 558,141 875,356 1,307,379 1,685,385	1920. November. December. 1921. January. February. March.	Head. 545,802 277,053 202,926 164,504 233,477	Head. 52,699 36,827 41,892 49,229 72,536	Head. 855, 545 258, 599 88, 089 61, 508 88, 292	Head. 1, 454, 046 572, 479 332, 997 275, 241 394, 205

ANIMALS SLAUGHTERED UNDER FEDERAL INSPECTION.

[Pureau of Animal Industry. Monthly average, 1911-1913=100.]

	Cattle		Calve	s.	Hogs	i.	Sheep	о.	Total	l .
	Head.	Rela- tive.	Head.	Rela- tive.	Head.	Rela- tive.	Head.	Rela- tive.	Head.	Rela- tive.
1920. March	683,139	113	390,053	221	3,481,680	124	787,867	65	5,342,739	111
July	661,172 685,763 825,484 843,136 858,946 667,314	109 113 136 139 142 110	342,765 332,349 347,578 314,789 315,971 244,573	194 188 197 178 179 138	2,643,772 2,176,010 1,978,602 2,486,940 3,328,633 3,985,125	94 77 70 88 118 142	1,048,428 1,041,580 1,150,776 1,067,821 968,235 932,417	87 86 95 89 80 77	4,696,137 4,235,702 4,302,440 4,712,686 5,471,785 5,829,459	98 89 90 98 114 121
January	689,506 522,718 624,395	114 92 103	282,043 252,369 361,733	160 153 205	4,347,306 3,770,974 3,075,137	154 143 109	1,068,346 957,751 1,075,481	89 85 89	6,387,201 5,503,812 5,136,746	133 123 107

EXPORTS OF CERTAIN MEAT PRODUCTS.

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

	Beef, can	ned.	Beef, fre	sh.	Beef, pick and other		Bacon		Hams as shoulders, o		Lard.		Pickled 1	ork.
	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela- tive.	Pounds.	Rela tive
1920. March	847,397	128	6,036,166	487	2,290,835	86	75,002,410	448	31,088,859	208	69, 429, 785	158	3,160,456	71
July	5, 217, 838 1, 231, 070 244, 261 207, 503 282, 761 399, 916	788 186 37 31 43 60	5,506,812 343,352 1,964,543 522,251 3,091,895 1,583,434	444 28 158 42 249 128	1,973,004 2,152,982 1,613,657 1,995,039 1,678,091 3,053,993	74 81 60 75 63 114	31, 562, 761 23, 333, 156 41, 371, 561 49, 838, 768 57, 934, 259 68, 784, 322	188 139 247 298 346 411	8,385,089 9,360,469 8,997,124 8,787,853 11,197,880 14,491,763	56 63 60 59 75 97	47, 061, 422 31, 020, 802 46, 326, 353 54, 173, 979 57, 316, 309 90, 080, 092	107 71 105 123 130 205	2,926,247 2,257,511 3,279,902 3,549,456 2,605,431 2,691,452	66 51 74 80 59 61
1921. January February March	548, 227 1,733, 678 504, 356	83 280 76	6,078,550 979,081 508,230	490 85 41	1,725,625 1,750,756 2,246,547	65 70 84	43, 202, 486 31, 612, 140 35, 350, 774	258 202 211	16, 869, 841 15, 847, 799 19, 102, 633	113 114 128	76, 185, 237 91, 840, 951 82, 616, 583	173 224 188	3,089,094 3,150,452 2,024,334	70 76 46

RECEIPTS OF GRAIN AND FLOUR AT 17 INTERIOR CENTERS.

Chicago, Cleveland, Detroit, Duluth, Indianapolis, Kansas City, Little Rock, Louisville, Memphis, Milwaukee, Minneapolis, Omaha, Peoris, St. Louis, Spokane, Toledo, Wichita; receipts of flour not available for Cleveland, Detroit, Indianapolis, Louisville, Omaha, Spokane, Toledo, and Wichita. Compiled from reports of trade organizations at these cities. Monthly average, 1911-1913=100.]

	Whea	it.	Corn	١.	Oats	•	Rye	э.	Barle	ey.	Total gr	ain.	Flou	r.	Total grai flour.	
	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels	Rela- tive.	Bushels	Rela- tive.	Bushels.	Rela- tive.	Barrels.	Rela- tive.	Bushels.	Rela- tive.
1920. March	18,007,798	66	24, 304, 946	108	19, 149, 624	95	3, 549, 739	322	2,908,440	41	67, 920, 547	87	1,618,519	83	75, 203, 883	87
July	46, 181, 275 45, 403, 825 39, 272, 827	159 170 167 145	20, 824, 268 9, 840, 320 20, 696, 955 19, 064, 508 11, 407, 224 19, 390, 714	92 85 51	18, 734, 180 30, 728, 748 31, 031, 569 21, 235, 162 15, 282, 651 13, 777, 300	153 154 106 76	3,096,026 3,191,103 5,571,428 4,455,979 3,706,653 3,482,685	289 505 404 336	2,653,921 3,007,508 6,630,056 5,795,028 6,616,362 5,057,808	42 92 81 92	75,022,794 89,806,700 110,111,283 95,954,502 76,285,717 74,467,280	115 141 123 98	2,052,110 1,949,339 1,843,954 2,137,639 2,054,262 1,570,822	100 94 109 105	84, 257, 289 98, 578, 726 118, 409, 076 105, 573, 878 85, 529, 896 81, 535, 979	114 137 122 99
1921. January February March	32, 229, 218 22, 922, 667 22, 84 8, 939	91	42,036,812 27,565,779 34,165,324	132	18,508,986 12,553,913 17,432,655	67.	2, 202, 705 1, 397, 832 1, 34), 498	136	3,753,837 2,074,908 3,111,12 7	31	98,731,558 66,515,099 78,898,543	91	1,430,904 1,659,009 2,096,03	91		91

 $^{^1\,\}mbox{Flour}$ reduced to its equivalent in wheat on basis of $4\frac{1}{2}$ bushels to barrel.

SHIPMENTS OF GRAIN AND FLOUR AT 14 INTERIOR CENTERS.

[Chicago, Cleveland, Detroit, Duluth, Kansas City, Little Rock, Louisville, Milwaukee, Minneapolis, Omaha, Peoria, St. Louis, Toledo, Wichita; shipments of flour not available for Cleveland, Detroit, Louisville, Omaha, Toledo, and Wichita.]

	Whea	t.	Corn.		Oats		Rye	e.	Barle	ey.	Total gr	ain.	Flou	ır.	Total grai flour.	
	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Barrels.	Rela- tive.	Bushels.	Rela- tive.
July	24, 934, 816 28, 700, 593 26, 258, 795 24, 950, 771	122 160 184 169 160	11, 165, 894 9, 100, 527 6, 260, 144 6, 284, 075 10, 336, 378 7, 890, 500 7, 898, 979	64 44 44 72 55	14, 243, 957 11, 345, 429 12, 814, 067 12, 690, 866 10, 601, 178 10, 729, 045 9, 964, 743	75 84 83 70 71	3,063,530 4,476,238 2,880,003 4,339,057 4,742,380 2,998,524 3,171,616	632 407 613 670 423	1,572,887 2,086,672 2,231,851 3,556,180 4,529,091 4,247,954 3,082,249	53 57 91 116 109	41,073,604 46,010,965 49,120,881 55,570,771 56,467,822 50,816,794 46,370,617	93 99 112 114 102	2, 960, 175 3, 767, 678 3, 605, 105 3, 187, 454 3, 758, 735 3, 949, 699 3, 141, 524	111 106 94 111 117	62,965,516 65,343,854 69,914,314 73,382,130	97 101 108 113 106
January February March	15, 134, 115	104	17, 288, 509 12, 891, 895 2 0, 72 3 , 904	97	11, 523, 642 9, 299, 842 12, 435, 262	66	2,380,797 1,041,424 1,116,943	158	2,874,359 1,626,913 1,685,989	45	54, 254, 686 39, 994, 189 53, 3 77, 36 4	86	2,678,257 2,696,723 3,156,299	85	66, 306, 843 52, 129, 443 67, 580, 710	86

 $^{^1}$ Flour reduced to its equivalent in wheat on basis of $4\frac{1}{2}$ bushels to barrel.

STOCKS OF GRAIN AT 11 INTERIOR CENTERS AT CLOSE OF MONTH.

[Chicago, Detroit Duluth, Indianapolis, Kansas City, Milwaukee, Minneapolis, Omaha, Peoria, St. Louis, and Toledo.

	Wheat.	Corn.	Oats.	Rye.	Barley.	Total grain.
1920.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.
March	32,743,697	4,423,249	7,525,112	14,391,595	2,016,046	61,099,699
July August September October November December	5, 492, 026	4,959,314	2,059,842	670,563	1,336,553	14,518,298
	5, 460, 879	1,414,708	7,447,762	338,600	709,469	15,371,418
	9, 134, 621	5,669,580	23,322,910	1,303,475	2,114,369	41,544,955
	14, 627, 524	7,823,807	28,941,148	668,084	2,096,517	54,157,080
	16, 058, 407	3,461,911	28,697,974	1,082,195	1,874,366	51,174,853
	15, 525, 114	4,793,299	27,358,948	1,007,591	2,378,548	51,063,500
January . 1921. February	14, 414, 231 12, 883, 444 11, 277, 724	11,596,518 17,294,569 24,465,117	29, 435, 153 30, 039, 057 31, 570, 022	478, 125 600, 585 562, 754	2,057,434 1,800,604 1,673,037	57, 981, 461 62, 618, 259 69, 548, 654

RECEIPTS OF GRAIN AND FLOUR AT NINE SEABOARD CENTERS.

[Boston, New York, Philadelphia, Baltimore, New Orleans, San Francisco, Portland (Oreg.), Seattle, Tacoma; receipts of flour not available fo Seattle and Tacoma. Compiled from reports of trade organizations at these cities. Monthly average, 1911–1913=100.]

	Whea	it.	Corn.		Oats	•	Rye	».	Barl	ey	Total g	rain.	Flou	ır.	Total grain flour.	
	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Bushels.	Rela- tive.	Barrels.	Rela- tive.	Bushels.	Rela- tive.
1920. March	6, 486, 745	51	1, 203, 649	34	3, 646, 727	77	4, 119, 986	2, 900	1, 300, 871	78	16, 757, 978	74	1, 752, 860	168	24, 645, 848	90
July	28, 098, 022 31, 693, 246 29, 028, 202 24, 410, 356	223 252 230 194	1, 456, 958 1, 844, 753 2, 401, 181	44 41 52 68	2, 671, 365 3, 069, 700 1, 828, 515 1, 874, 271	56 65 38 39	5, 048, 019 3, 407, 799 4, 133, 465 5, 436, 354 3, 329, 710 3, 490, 405	2,398 2,909 3,826 2,344	2, 289, 791 1, 815, 227 2, 558, 276 2, 721, 320	138 109 154 164	32, 661, 378 38, 043, 819 42, 168, 596 40, 696, 100 34, 736, 838 38, 099, 993	168 186 179 153	1, 660, 849 1, 390, 077 1, 422, 872 1, 463, 830 3, 683, 380 4, 367, 180	133 136 140 353	44, 299, 166 48, 571, 520 47, 283, 335 51, 312, 048	162 177 173 187
1921. January February March	10, 315, 852	88	6, 228, 175 7, 845, 915 13, 933, 057	237	1, 039, 537	23	2, 748, 524 2, 059, 538 1, 034, 760	1,553	1, 970, 931 1, 631, 288 1, 689, 129	105	25, 207, 240 22, 892, 130 27, 154, 549	108	1, 174, 815 1, 186, 565 1, 518, 450	122	30, 493, 908 28, 231, 673 33, 987, 574	110

¹ Flour reduced to its equivalent in wheat on basis of 4½ bushels to barrel.

STOCKS OF GRAIN AT EIGHT SEABOARD CENTERS AT CLOSE OF MONTH.

[Boston, New York, Philadelphia, Baltimore, New Orleans, Newport News, Galveston, San Francisco. Compiled from reports of trade organizations at these cities.]

	Wheat.	Corn.	Oats.	Rye.	Barley.	Total grain.
1920.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.
March	6, 280, 682	851, 287	1, 351, 457	2, 389, 321	1,891,862	12,764,609
July Angust September October November December	11, 923, 745	744, 167	1, 323, 940	1, 275, 554	3, 187, 611	18, 455, 017
	13, 915, 892	1, 097, 945	1, 532, 272	777, 445	4, 052, 189	21, 375, 743
	15, 517, 070	1, 146, 514	2, 398, 157	2, 414, 910	4, 110, 158	25, 586, 809
	17, 277, 003	1, 292, 818	2, 521, 049	1, 742, 178	3, 577, 450	26, 410, 498
	17, 794, 605	1, 371, 013	2, 327, 249	1, 906, 527	3, 097, 922	26, 497, 316
	18, 263, 476	510, 142	2, 205, 936	2, 196, 380	3, 322, 050	26, 497, 984
January	15, 060, 423	2, 524, 700	1, 980, 265	1,602,358	2, 105, 450	23, 273, 196
	12, 032, 772	3, 982, 316	1, 775, 563	1,332,441	1, 909, 706	21, 032, 798
	6, 782, 584	6, 353, 250	1, 286, 275	1,069,220	1, 454, 547	16, 945, 876

Note.—Figures for San Francisco include also stocks at Port Costa and Stockton.

WHEAT FLOUR PRODUCTION.

[January, 1918, to June, 1920, U. S. Grain Corporation; July, 1920, on, estimated by Russell's Commercial News (Inc.), New York.]

March	1920.	Barrels. 9, 036, 000	November. 1920. December.	Barrels.
July August September		. 8, 200, 000	December. 1921. January. February. March.	0, 000, 000

COTTON.

[New Orleans Cotton Exchange. Monthly average crop years, 1911–1913=100.]

	Sight receipts.		Port receipts.		Overland move- ment.		- American spinners' takings.		Stocks at ports and interior towns at close of month.	
	Bales.	Rela- tive.	Bales.	Rela- tive.	Bales.	Rela- tive.	Bales.	Rela- tive.	Bales.	Rela- tive.
1920–21. August September October November December January February March	308, 262 771, 590 1, 466, 874 1, 804, 135 1, 579, 751 1, 153, 825 744, 682 553, 518	25 62 117 144 126 92 64 44	159, 586 443, 149 971, 334 1, 075, 803 797, 350 636, 260 446, 399 401, 464	17 48 106 117 87 69 52 44	25, 322 17, 324 87, 215 117, 139 134, 455 157, 012 206, 554 134, 085	24 16 83 111 128 149 210 127	251, 841 254, 460 395, 165 425, 089 672, 477 526, 718 576, 260 253, 368	55 56 87 94 148 116 136 56	1, 365, 397 1, 607, 602 2, 101, 839 2, 597, 820 2, 815, 934 2, 863, 377 2, 820, 403 2, 757, 715	116 136 178 220 239 243 239 234

COTTON SEED.

[Bureau of the Census.]

	Received at mills.	Crushed.	On hand at mills (close of month).		Received at mills.	Crushed.	On hand at mills (close of month).
1920. March	24, 979	Tons. 316, 393 13, 219 20, 317	Tons. 215, 872 30, 084 36, 760	November	557, 787	Tons. 719, 455 546, 086	
September. October	244, 382 945, 998	145, 519 607, 628	135, 623 471, 979	January February March	418, 846 431, 539 336, 226	527, 521 499, 851 452, 770	

SHIPMENTS OF CITRUS AND DECIDUOUS FRUITS FROM CALIFORNIA.

[March, 1921, on, Bureau of Markets and California Fruit News.² Monthly average, 1911-1913=100.]

	Oras	nges.	Lem	tons.	Total citi	Total deciduous fruits.	
	Carloads.	Relative.	Carloads.	Relative.	Carloads.	Relative.	Carloads.
March	4,715	193	651	161	5, 366	188	155
	2,822	115	664	164	3, 486	122	3,179
	1,707	70	751	185	2, 458	86	7,239
	1,409	58	464	115	1, 873	66	9,021
	752	31	925	228	1, 677	59	11,880
	1,602	66	377	93	1, 979	69	2,792
	3,774	154	368	91	1 4, 167	146	368
January	3,429	140	627	155	1 4,077	143	98
February	3,484	153	610	161	1 4,123	155	81
March	4,955	203	936	231	5,891	207	81

¹ Includes grapefruit.

SUGAR.

[Data for ports of New York, Boston, Philadelphia. Weekly Statistical Sugar Trade Journal. Tons of 2,240 pounds. Monthly average, 1911–1913–100.]

	Recei	pts.	Meltin	ngs.	Raw stocks at close of month.			Recei	pts.	Melti	ngs.	Raw stocks at close of month.	
	Tons.	Rela- tive.	Tons.	Rela- tive.	Tons.	Rela- tive.		Tons.	Rela- tive.	Tons.	Rela- tive.	Tons.	Rela- tive.
1920. March	335, 532	182	333,000	182	88,185	51	1920. December	148, 464	81	154,000	84	63,715	37
JulyAugustSeptemberOctoberNovember	386, 328 308, 313 109, 302 109, 335 186, 274	210 168 59 59 101	325,000 287,000 164,000 118,000 179,000	177 156 89 64 98	104, 027 125, 340 70, 642 61, 977 69, 251	60 73 41 36 40	1921. January February March	92, 498 228, 952 306, 914	50 133 167	94,000 193,000 310,000	51 113 169	62,113 98,165 87,466	36 57 51

SALE OF REVENUE STAMPS FOR MANUFACTURES OF TOBACCO IN THE UNITED STATES (EXCLUDING PORTO RICO AND PHILIPPINE ISLANDS).

[Commissioner of Internal Revenue.]

	Cig	ars.	Cigarettes.	Manu-		Cig	ars.	Cigarettes.	Manu-	
	Large.	Small.	Small.	factured tobacco.		Large.	Small.	Small.	factured tobacco.	
1920. March	Number. 753, 239, 958	Number. 55, 052, 100	Number. 4,373,778,917	Pounds. 38, 422, 481	1920. December	Number. 506, 126, 135	Number. 47, 380, 000	Number. 2,816,818,050	Pounds. 15, 452, 701	
August	678, 751, 956 672, 020, 289 678, 640, 116 704, 799, 089 668, 060, 015	51,766,100 48,171,240 50,175,580 60,882,760 57,026,500	3,053,336,563 3,569,397,443 3,557,482,503 3,840,334,806 3,529,200,006	30, 988, 646 32, 138, 941 32, 094, 569 27, 123, 774 18, 513, 654	February	462, 798, 039 496, 724, 482 561, 343, 699	64,661,867 64,461,733 70,245,500	3,901,560,330 4,119,376,533 4,470,292,160	24,750,290 27,096,592 32,209,842	

NAVAL STORES.

[Data for Savannah, Jacksonville, and Pensacola. Compiled from reports of trade organizations at these cities.]

	Spirits of turpentine. Ros		Rosin.			urpentine.	Rosin.		
	Receipts.	Stocks at close of month.	Receipts.	Stocks at close of month.		Receipts.	Stocks at close of month.	Receipts.	Stocks at close of month.
1920. March	Barrels. 1,876 39,158	Barrels. 4,819 30,906	Barrels, 14,660 117,088	Barrels. 103,443 135,979	1920. November	Barrels. 23,893 21,174	Barrels. 49,209 53,356	Barrels. 83,177 76,848	Barrels. 247,253 300,315
August		30,906 27,963 44,3 9 6 49,885	117,088 111,497 97,797 88,766	144, 109 176, 612 195, 837	1921. January February March	9, 419 7, 404 7, 995	51,563 41,755 28,838	36,333 26,736 18,906	310,905 316,440 319,347

² For previous sources, see April, 1921, Bulletin.

LUMBER.

[From reports of manufacturers' associations.]

	Southern pine. We		Vestern p	Vestern pine.		Douglas	fir.	Eastern white pine.			North Carolina pine.				
	Num- ber of mills.	Pro- duc- tion.	Ship- ments.	Num- ber of mills.	Pro- duc- tion.	Ship- ments.	Num- ber of mills.	Pro- duc- tion.	Ship- ments.	Num- ber of mills.	Pro- duc- tion.	Ship- ments.	Num- ber of mills.	Pro- duc- tion.	Ship- ments.
1920. March	205	M feet. 436,944	M feet. 424,775	50	M feet. 130, 425	M feet. 156, 211	123	M feet. 342,948	M feet. 329,012	21	M feet. 43,771	M feet. 61,620	24	M feet. 29,633	M feet 29,896
July	204 204 206	385, 842 383, 540 376, 566 344, 427 315, 343 264, 504	331,273 337,677 378,195 329,751 320,756 281,326	49 50 49 49 52 53	177, 262 171, 143 164, 312 146, 424 107, 846 45, 578	103,500 123,344 98,808 69,936 60,259 46,112	127 123 127 120 123 119	242,612 366,433 299,277 355,614 263,452 188,905	225,666 322,908 238,965 299,704 212,226 187,874	20 20 20 19 19 19	37, 459 46, 149 48, 962 40, 724 20, 294 19, 056	49,668 55,991 45,445 30,928 19,751 10,587	20 19 20 24 24 21	20,756 19,511 21,887 19,487 14,617 8,091	15,217 14,130 16,043 14,877 12,929 14,716
1921. January February March	193 189 195	289,824 330,680 387,959	311,977 335,876 390,300	54 53 55	24,698 22,128 35,983	42,793 48,270 63,126	116 114 118	153,157 159,646 192,188	170,821 153,649 210,842	19 19 19	24,319 23,722 26,396	10,602 13,615 15,298	16 18 15	7,123 10,673 12,778	7,880 10,045 8,915

RECEIPTS AND SHIPMENTS OF LUMBER AT CHICAGO AND ST. LOUIS.

[Chicago Board of Trade and Merchants' Exchange of St. Louis. Monthly average, 1911-1913-100.]

	Recei	Receipts. Shipmer		ents.		Recei	ipts.	Shipm	ents.
	M feet.	Relative.	M feet.	Realtive.		M feet.	Relative.	M feet.	Relative.
1920. April	236,975	51	131,933	52	1920. December	351,695	76	192,072	76
July August September October November	370,352 375,456	86 80 81 86 74	184,767 220,368 242,857 220,116 190,282	73 87 96 87 75	1921. January February March April	263,001 269,632 349,426 345,798	57 62 75 74	165,308 169,843 215,760 213,359	65 72 8! 84

COAL AND COKE.

[U. S. Geological Survey. Monthly average, 1911-1913=100.]

•	•	,					
	Bituminous comated mont duction.	oal, esti- thly pro-	Anthracite comated monduction.	pal, esti- thly pro-	Beehive coke, estimated monthly production.		
	Short tons.	Relative.	Short tons.	Relative.	Short tons.	Relative.	
March	48, 910, 000 49, 172, 000 52, 144, 000	126 121 132 133 141 139 141	7, 857, 000 8, 261, 000 8, 025, 000 4, 646, 000 8, 069, 000 7, 453, 000 8, 321, 000	106 112 108 63 109 101 112	2,025,000 1,693,000 1,776,000 1,757,667 1,742,333 1,622,000 1,515,000	77 65 68 67 67 62 58	
January February March	40, 270, 000 30, 851, 000 30, 328, 000	109 89 82	9, 419, 000 7, 845, 000 7, 603, 000	127 114 103	1, 074, 833 863, 834 587, 333	41 35 22	

CRUDE PETROLEUM.

[U. S. Geological Survey. Barrels of 42 gallons each. Monthly average, 1911-1913=100.]

	Producti			ose of month rels).		Producti	on.	Stocks at close of mont (barrels).	
	Barrels.	Rela-	East of California.	California.		Barrels.	Rela- tive.	East of California.	California.
1920. March July August September October	35, 831, 000 38, 203, 000 39, 055, 000 37, 532, 000 39, 592, 000	187 199 204 196 207	89, 355, 000 88, 155, 000 89, 584, 000	22, 149, 000 21, 874, 000 21, 265, 000	1920. November	38, 699, 000 38, 961, 000 37, 853, 000 35, 348, 000 40, 802, 000	202 203 197 198 213	92, 015, 000 94, 919, 000 95, 838, 000 100, 147, 000 105, 797, 000	21, 272, 000 20, 930, 000 21, 261, 000 21, 566, 000 22, 896, 000

TOTAL OUTPUT OF OIL REFINERIES AND STOCKS OF OIL.

[Bureau of Mines.]

OUTPUT, BY MONTHS.

	Crude oil run (barrels).	Gasoline (gallons).	Kerosene (gallons).	Gas and fuel (gallons).	Lubricating (gallons).
1920. February	29, 208, 723	322, 588, 697	194, 523, 334	589, 684, 857	74, 243, 073
July	37, 024, 052 39, 757, 770	423, 419, 770 444, 141, 422 453, 881, 096	172, 213, 511 189, 010, 459 199, 140, 024	751, 193, 898 834, 322, 503 836, 700, 086	92, 369, 504 91, 078, 569 86, 230, 371
September October November December	39, 458, 945	465, 787, 745 452, 642, 125 464, 393, 356	213, 742, 156 214, 804, 177 210, 668, 109	823, 114, 603 822, 638, 305 859, 131, 359	92, 369, 504 91, 078, 569 86, 230, 371 93, 229, 723 91, 180, 007 90, 894, 798
January	39, 637, 382 34, 588, 096	460, 432, 439 388, 188, 252	205, 374, 611 163, 081, 918	836, 684, 040 732, 542, 415	85, 908, 641 72, 432, 219
STOCKS AT CLO	SE OF MON	TH.		<u> </u>	<u>!</u>
Feb. 29. 1920.	13, 500, 599	562, 996, 489	330, 120, 942	590, 322, 125	132, 759, 244
July 31	21,373,945	413, 279, 319 323, 239, 991 288, 195, 394 301, 283, 731 354, 835, 764 462, 381, 837	410, 853, 047 378, 548, 791 379, 300, 705 383, 828, 239 398, 991, 592 393, 070, 923	655, 152, 293 708, 608, 472 771, 126, 965 799, 024, 084 808, 802, 516 837, 404, 414	131, 866, 455 130, 797, 810 130, 449, 829 136, 194, 914 142, 180, 775 160, 522, 477
Jan. 31. 1921. Feb. 28.	21,064,124	571, 983, 793 680, 540, 351	418, 747, 781 430, 045, 193	921, 028, 127 993, 127, 328	183, 813, 205 201, 627, 558

IRON AND STEEL.

[Pig-iron production, Iron Age; steel-ingot production, American Iron and Steel Institute. Monthly average, 1911-1913=100.]

	Pig-iron pr	oduction.	Steel-ingo	produc-	Unfilled orders U. S. Steel Corporation at close of month.	
	Gross tons.	Relative.	ative. Gross tons. Relative.		Gross tons.	Relative.
July August September October November December	3, 129, 323 3, 292, 597	118 132 136 135 142 127 117	2, 638, 305 2, 802, 818 3, 000, 432 2, 999, 53 3, 015, 982 2, 638, 670 2, 340, 365	113 120 128 128 129 113 100	10, 359, 747 11, 118, 468 10, 805, 038 10, 374, 804 9, 836, 852 9, 021, 481 8, 148, 122	197 211 205 197 187 171 155
January. 1921. February March April	2, 416, 292 1, 937, 257 1, 595, 522 1, 193, 041	104 90 69 51	2, 203, 186 1, 749, 477 1, 570, 978 1, 213, 958	94 80 67 52	7, 573, 164 6, 933, 867 6, 284, 765 5, 845, 224	144 132 119 111

STRUCTURAL-STEEL ORDERS AND SHIPMENTS.

[Bridge Builders and Structural Society.]

Fabricated struc-tural steel con-tracted for throughout country. Structural-steel orders and shipments of the membership of Bridge Builders and Structural Society. Orders. Shipments. Per cent shop capacity. Ton-Per cent shop capacity. Per cent shop capacity. nage. Ton-Tonnage. nage. 1920. 150,400 83. 5 50,598 69.0 49, 434 67. 5 90, 400 72, 000 77, 400 45, 600 49, 200 47, 000 33, 213 36, 843 26, 755 14, 161 41, 531 14, 521 49, 096 51, 381 53, 526 47, 200 41, 268 42, 767 50. 0 40. 0 43. 0 25. 5 27. 5 26. 0 47. 0 50. 0 37. 0 20. 0 16. 0 20. 0 69. 0 70. 0 74. 0 66. 0 57. 5 60. 0 July..... August
September
October
November
December 1921. January...
February...
March... 18. 0 14. 0 29. 0 12, 194 12, 013 26, 398 18. 0 18. 5 38. 0 32, 964 25, 776 30, 011 48. 5 40. 0 43. 0

IMPORTS OF PIG TIN.

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

	Pounds.	Relative.		Pounds.	Relative.
March 1920. July August September October October	11, 980, 019 17, 584, 167 11, 195, 937 9, 596, 819 6, 741, 331	132 193 123 106 74	November 1920. November 1921. January February March	9, 550, 535 5, 893, 627 2, 584, 347 5, 269, 969 3, 028, 356	105 65 28 62 33

RAW STOCKS OF HIDES AND SKINS.1

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

	Cattle hides.	Calfskins.	Kipskins.	Goat and kid.	Cabretta.	Sheep and lamb.
1920. Mar. 31	Pieces. 6, 558, 300	Pieces. 1, 930, 218	Pieces. 966, 850	Pieces. 16, 436, 848	Pieces. 2,047,519	Pieces. 9, 227, 252
Sept. 30.	5, 926, 708	3,542,388	1,083,193	13, 408, 277	2, 197, 149	11, 235, 417
Oct. 31.	6, 770, 509	3,850,183	1,377,998	12, 147, 070	2, 104, 133	13, 626, 406
Nov. 30.	7, 158, 751	3,492,653	1,422,608	11, 231, 086	2, 234, 027	12, 705, 767
Dec. 31.	7, 793, 762	3,271,905	1,305,776	11, 721, 505	2, 685, 670	13, 773, 089
Jan. 31	7,899,138	3,086,862	1,381,748	10,870,210	2, 155, 200	13, 184, 052
	7,940,359	3,157,723	1,375,110	9,798,311	1,941,832	12, 489, 855
	7,806,867	3,060,144	1,241,984	8,652,171	1,579,457	12, 970, 857

¹ Includes hides and skins in transit. The number of firms reporting increased in the autumn of 1920 as follows: Sept., 1,307; Oct., 1,915; Nov., 2,027; Dec., 2,059.

TEXTILES—COTTON AND SILK.

[Cotton, Bureau of the Census; silk, Department of Commerce. Cotton, monthly average, crop years 1912-1914=100; silk, monthly average, 1911-1913=100.]

		consump- on.	Cotton spindles active	Imports of	mports of raw silk.		Cotton consumption.		Cotton spindles active	Imports of raw silk.	
•	Bales.	Relative.	during month.	Pounds.	Relative.		Bales.	Relative.	during month.	Pounds.	Relative.
1920. March July August September October	575, 789 525, 489 483, 193 457, 647 399, 837	128 117 107 102 89	34, 697, 812 34, 666, 794 34, 471, 515 34, 040, 806 33, 669, 804	2, 491, 651 2, 581, 920 2, 690, 690 1, 968, 801 1, 531, 850	122 126 132 96 75	1920, November December 1921. January February March	332, 057 294, 851 366, 270 395, 563 437, 933	74 66 81 94 97	31, 654, 126 29, 879, 402 31, 509, 021 32, 458, 528 32, 104, 946	1, 319, 995 972, 011 708, 897 2, 327, 949 2, 201, 633	65 48 35 122 108

TEXTILES-WOOL.

[Wool consumption, Bureau of Markets; idle wool machinery, Bureau of the Census.]

		Perce	Percentage of idle machinery on first of month to total reported.						Percentage of idle hours on first of month to total reported.						
	Consump- tion	Loc	ms.			Spinnin	g spindl e s.	Loc	oms.			Spinnin	oolen. Worsted.		
	(pounds).1	Wider than 50- inch reed space.	50-inch reed space or less.	Sets of cards.	Woolen.	Worsted.	Wider than 50- inch reed space.	50-inch reed space or less.	Sets of cards.	Combs.	Woolen.	Worsted.			
1920. April	66, 935, 318 37, 097, 077 38, 054, 708 36, 297, 221 38, 443, 688 28, 096, 047	13. 1 42. 5 49. 5 51. 8 49. 0 46. 9 51. 2	16. 9 32. 3 29. 9 34. 8 34. 9 37. 7 44. 8	9. 6 38. 0 39. 6 39. 6 38. 3 39. 5 50. 3	7. 1 35. 0 33. 4 37. 3 26. 3 32. 8 41. 4	9. 5 42. 0 45. 5 44. 6 43. 2 42. 8 51. 7	7. 0 32. 7 37. 6 38. 0 26. 0 34. 8 42. 7					46. 7 53. 9			
1921. January. February. March. April.		57. 0 53. 9	49. 2 48. 7 41. 7 34. 4	58. 1 56. 5 46. 2 33. 0	52.9 43.8 28.3 18.7	59. 4 58. 9 47. 2 32, 3	50. 8 43. 0 33. 0 21. 8	66. 7 60. 0 45. 3 38. 3	71. 2 66. 7 57. 1 47. 3	66. 1 64. 3 50. 6 35. 8	62. 9 51. 0 26. 2 11. 3	68. 4 64. 5 50. 5 34. 1	65. 2 55. 3 37. 9 25. 7		

 $^{^{\}rm 1}$ Converted to grease equivalent basis.

PRODUCTION OF WOOD PULP AND PAPER.

[Federal Trade Commission.]

	Wood pulp.	News- print.	Book.	Paper board.	Wrap- ping.	Fine.		Wood pulp.	News- print.	Book.	Paper board.	Wrap- ping.	Fine.
JulyAugustSeptemberOctober	319, 877	129, 853	95, 526 94, 424 94, 142 93, 849	Net tons. 207, 863 218, 771 215, 633 218, 743 196, 604 133, 818	Net tons. 68, 403 73, 487 75, 226 70, 917 73, 100 65, 920	Net tons. 33, 671 34, 078 33, 122 34, 207 34, 526 31, 208	1921. January February	243, 797	Net tons. 124, 857 123, 830 103, 040 107, 532	64, 382 56, 687	Net tons. 105, 227 105, 806 123, 832 139, 723	Net tons. 54, 308 44, 620 46, 352 49, 879	Net tons. 27, 233 22, 756 19, 242 19, 058

OUTPUT OF LOCOMOTIVES AND CARS.

[Locomotives, reports from individual producers; cars, Railway Car Manufacturers' Association.]

	Locom	otives.	Oı	utput of ca	rs.		Locom	otives.	Output of cars.		
!	Domestic shipped.	Foreign com- pleted.	Domes- tic.	Foreign.	Total.		Domes- tic shipped.	Foreign com- pleted.	Domes- tic.	Foreign.	Total.
1920. March	Number. 45	Number. 59	Number. 3, 053	Number. 2,040	Number. 5, 093	1920. December	Number. 198	Number. 93	Number. 7,551	Number. 1,420	Number. 8, 971
JulyAugustSeptemberOctoberNovember	114 126	54 125 69 106 73	2, 731 3, 409 3, 955 6, 309 6, 243	434 1, 210 1, 103 684 985	3, 165 4, 619 5, 058 6, 993 7, 228	January February March	154 108 112	71 70 49	7, 169 6, 482 6, 041	843 518 705	8,012 7,000 6,746

VESSELS BUILT IN UNITED STATES, INCLUDING THOSE FOR FOREIGN NATIONS, AND OFFICIALLY NUMBERED BY THE BUREAU OF NAVIGATION.

[Monthly average, 1911-1913=100.]

	Number.	Gross tonnage.	Relative.		Number.	Gross tonnage.	Relative.
1920. March	170 173 178 135 120 119	279, 709 217, 239 259, 210 261, 962 227, 162 213, 966	1,157 899 1,073 1,084 940 885	1920, December	87 94 95 86	176, 903 216, 280 121, 404 154, 864	732 895 538 641

TONNAGE OF VESSELS CLEARED IN THE FOREIGN TRADE.

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

	1	Net tonnage) .		Per-			1	Net tonnage).		Per-	}
• • •	Ameri c an.	Foreign.	Total.	Rela- tive.		Rela- tive.		American.	Foreign.	Total.	Rela- tive.		
1920. March	2, 040, 031 3, 302, 538	2, 040, 538 3, 616, 052	4, 080, 569 6, 918, 590	100	50. 0 47. 7	189	1920. December	2, 785, 615	2, 949, 416	5, 735, 031	140	48.6	183
August September October November	3, 616, 267 3, 421, 531 3, 500, 312	3, 929, 602 3, 513, 599 3, 756, 512 2, 868, 294	7, 545, 869 6, 935, 130 7, 256, 824 6, 170, 661	169 184 170 177 151	47. 9 49. 3 48. 2 53. 5	181 186 182 202	January February March	2, 191, 201 2, 017, 303 2, 097, 843	2, 454, 617 2, 149, 300 2, 396, 309	4, 645, 818 4, 166, 603 4, 494, 152	114 109 110	47. 2 48. 4 46. 7	178 183 176

NET TON-MILES, REVENUE AND NONREVENUE.

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

1920. 32,958,000,000	1920. 37, 458, 630, 000 December 34, 722, 365, 000
July 40, 450, 094, 000 August 42, 706, 838, 000 September 40, 999, 843, 000 October 42, 562, 687, 000	January 29,817,000,000 February 24,915,000,000

REPORT OF KNIT-GOODS MANUFACTURES.

The total production of winter and summer underwear for the 6 months ending March 31 was as follows:

	Number of mills reporting.	Actual produc- tion (dozens).	Per cent of normal.
1920. October November December	61 63 61	393, 422 191, 831 98, 671	50. 4 23. 2 11. 0
1921. January February March Winter underwear (March) Summer underwear (March)		148, 023 248, 431 421, 140 102, 415 318, 725	16. 4 28. 0 50. 1 31. 0 62. 5

Order and production report for month ending March 31, 1921, follows. The number of mills reporting was 46.

	Dozens.	Per cent of normal produc- tion.
Unfilled orders 1st of month New orders received during month	273, 962 371, 657	61.5
Total (A)	645, 619	
Shipments during month. Cancellations during month	285, 53 7 5, 389	47.3 0.89
Total (B)	290, 926	
Balance orders on hand Mar. 1 (A minus B) Production	354, 693 315, 159	52. 1

Thirty-eight representative mills which reported for February and March furnish the data for the following tables:

[In dozens.]

	February (38 mills).	March (38 mills).	Gain.	Loss.
Unfilled orders 1st of month. New orders. Shipments. Cancellations. Production.	205, 260 175, 226 1, 619	269, 104 284, 712 266, 823 5, 173 261, 934	79, 452 91, 597 3, 554 114, 112	319, 023

FINISHED COTTON FABRICS.

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

The accompanying figures are compiled from statistics furnished by 34 out of 58 member firms of this association. It is probably fair to state that in the absence of having

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

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

PRODUCTION AND SHIPMENTS OF FINISHED COTTON FABRICS.

		Februa	ry, 1921.			March	ı, 1921.	
	White goods.	Dyed goods.	Printed goods.	Total.	White goods.	Dyed goods.	Printed goods.	Total.
Total finished yards billed during month: District 1.	9, 201, 380	12, 009, 687	5 145 619	28, 279, 941	14, 560, 030	19, 056, 336	7, 804, 941	45, 046, 63
2	5, 553, 700 4, 520, 032	1,070,187	5, 145, 619 359, 555	12, 415, 909	7, 425, 289 6, 246, 321	2, 461, 016	4, 323, 519	21, 695, 89
3 5	4, 520, 032 4, 698, 536	3, 231, 582 24, 034	 	8, 291, 903	6, 246, 321 5, 500, 003	5, 449, 031		12, 533, 51 5, 576, 35
6	126, 265	380, 241		4, 722, 570 506, 506	86, 151	76, 348 457, 629		543, 78
8				1, 220, 042		• • • • • • • • • • • • • • • • • • • •		1, 336, 45
Total	24, 099, 913	16, 715, 731	5, 505, 174	55, 436, 871	33, 817, 794	27, 500, 360	12, 128, 460	86, 732, 62
Total finishing charges billed during menth:								
District 1	\$182, 214 110, 950	\$502, 706 36, 629	\$239,014	\$1,015,721	\$276,003	\$814, 343	\$374, 326 186, 977	\$1,654,08
3	143, 350	123, 713	9, 225	288, 014 277, 460	119, 672 188, 596	60, 916 221, 512	150, 977	553, 92 425, 23 107, 72
5	96,080	347		96, 427 19, 333	106, 373	1,351		107, 72
6	2, 360	16, 973		19, 333	1, 808	19, 829		21,63
8				15, 961				20, 30
Total	\$534, 954	\$680,368	\$248, 239	\$1,712,916	\$692, 452	\$1, 117, 951	\$561, 303	\$2,782,90
Total average per cent of capacity operated: District 1	50	57	30	46	63	68	44	5
2	73	34	54	58	77	49	85	7 7 9 3 5
3 5	66 73	41		51 73	87 96	62	:	7
6				34	<i>5</i> 0			3
8				46				5
Average for all districts	61	50	34	51	75	64	50	6
Total gray yardage of finishing orders received:								
District 1	10, 745, 070	16, 816, 715	7, 084, 145	37, 372, 981 19, 212, 796 13, 205, 870 4, 734, 647	12, 517, 785 7, 302, 473 7, 115, 387	18, 675, 645	8, 453, 394	43, 461, 75 22, 908, 74 13, 007, 28
2	6, 396, 320 7, 365, 939	2, 976, 397 5, 036, 959	5, 162, 723	19, 212, 796	7, 302, 473	3, 970, 174 5, 122, 275	6, 780, 303	22, 908, 74
3 5	4, 689, 469	5, 036, 939 45, 178		4 734 647	6, 743, 059	116, 232		6, 859, 29
6	65, 706	328, 072		393, 778 1, 281, 734	126, 760	408, 843		535,60
8				1, 281, 734				1, 569, 92
Total	29, 262, 504	25, 203, 321	12, 246, 868	76, 201, 806	33, 805, 464	28, 293, 169	15, 233, 697	88, 342, 59
Number of cases of finished goods shipped to customers (case equal approximately 3,000 yards):								
District 1	4,662	3,399	1,818	16,650	6,095	5, 938	2,612	24, 26
2 3	4, 079 3, 576	94 1, 956	• • • • • • • • • • • • • • • • • • • •	9, 455 5, 777	5, 424 4, 426	140 2, 512		12, 29 7, 30
5	1, 464	1, 950		2,685	1,603	2, 012		3, 19
6								
8				376				39
Total	13, 781	5, 449	1,818	34, 943	17, 548	8, 590	2, 612	47, 45
Number of cases of finished goods held in stor-			`					
age at end of month: District 1.	3,879	3, 198	3, 196	18, 506	3, 581	3, 102	2,323	16, 82
2	2,309	145		18, 506 6, 354	1,968	214		6,02
<u>3</u>	216 457	310		5,059	189 433	278		4,82
6	457			1,560	400			1,34
8				1, 309				1, 29
Total	6, 861	3, 653	3, 196	32, 788	6, 171	3, 594	2,323	30, 32
Total average work ahead at end of month (expressed in days):								
District 1	7.3	6.8	7.8	7.2	5.8	7.0	7.0	6.
2 3	12.0 11.0	6.8 6.3	16.0	13.0 8.4	16.0 16.0	8.5	17.0	12.
5	6.1	0.3		6.1	8.2	8.1		11. 8.
6				2.2				2.
8				8.1				6.
Average for all districts	8.8	6.7	9. 1	8.5	10.0	7.5	8,6	8.
A verage for an districts	0.8	0.7	9.1	0.0	10.0	1.0	0.0	, 8.

RETAIL TRADE.

In the following tables is given a summary of the data obtained from representative department stores in each Federal Reserve district, showing the activity of retail trade during the past several months. In district Nos. 1, 5, 6, 7, 9, 11, and 12 the data were received in (and averages computed from) actual amounts material was received in the form of percentages, the 1921 averages for the cities and dis-

weighted according to volume of business done during the calendar year 1920, and the averages for the several months in 1920 by similar figures for the calendar year 1919. For the month of March the tables are based on reports from 24 stores in district No. 1, 37 in district No. 2, 47 in district No. 3, 15 in district No. 4, 25 in district No. 5, 11 in district No. 6, 19 in district No. 7, 11 in district No. 8, 19 in district (dollars). In districts Nos. 2, 3, 4, 8, and 10 the No. 9, 16 in district No. 10, 18 in district No. 11, and 28 in district No. 12. The number of stores varies somewhat, due to the inclusion of tricts computed from such percentages being newstores from time to time in the reporting list.

CONDITION OF RETAIL TRADE IN THE 12 FEDERAL RESERVE DISTRICTS.

			Perce	ntage	ofiner	ease in	net sa	les as c	ompar	ed wit	h corre	spondi	ng per	iod pre	vious	year.		
District and city.	July,	Aug., 1920.	Sept.,	Oct.,	Nov.,	Dec.,	Jan.,	Feb.,	Mar.,		July !	1, 1920,	to clos	se of—		Jan c.	. 1, 192 lose of-	1, to
	1920.	1920.	1920.	1920.	1920.	1920.	1921.	1921.	1921.	July, 1920.	Aug., 1920.	Sept., 1920.		Nov., 1920.	Dec., 1920.	Jan., 1921.	Feb., 1921.	
District No. 1: Boston Outside	16.3 27.2	11.6 9.1	16.0 14.7	$0.1 \\ 2.2$	15.0 1.7	1.4 16.4	5. 4 1 10. 1	10.8 16.0	2.1 1.9	16.3 27.2	24.1 18.1	15.9 16.9	9.7 11.1	11.0 9.0	8.5 5.0	5. 4 1 10. 1	7.7 19.1	5.5 16.2
District	19.9	10.9	15.4	.6	11.4	1.4	1.5	6.5	1.5	19.9	15.1	15.2	10.1	10.4	7.7	1.5	3.5	2.7
District No. 2: N. Y. City and Brooklyn. Outside	22. 4 26. 9	10.9 26.4	1 3. 2 16. 9	1.7 15.4	7.6 18.9	1 3. 6 5. 9	1 6.5 1 1.5	1 1.1 9.5	15.8 1.3	22. 4 26. 9	13.0 27.1	3.6 23.4	5. 2 19. 6	3.0 22.8	3. 2 14. 3	1 6. 5 1 1. 5	1 4. 6 1. 6	14.5
District	24.4	15.9	3.6	6.2	11.6	11.6	1 5.3	1.0	14.6	24.4	17.5	10.2	10.0	10.0	5.5	1 5. 3	1 3. 5	13.4
District No. 3: PhiladelphiaOutside					8.5 8.5	2.9 10.8	2.9 3.3	3.4 4.7	.9					12.0 18.5	9.1 21.6	2.9 3.3	4. 4 1. 7	2.0 2.1
District	23.8	22.6	15.2	15.8	8.5	6.1	3.1	3.8	1.8	23.8	24.9	19.6	17.3	14.6	14.1	3.1	3.6	2.0
District No. 4 District No. 5:	29.9	25.7	24.6	20.8	26.1	14.7	3.6	6.4	1,4	29.9	27.3	25.9	23.9	24.8	22.0	3.6		4.3
BaltimoreRichmondWashingtonOther cities							5.9 14.2 9.3 4.0	5.3 14.2 8.4 15.9	12.2 6.3 5.5 9.4							5.9 14.2 9.3 4.0	4.6 4.2 8.8 9.4	1.9 5.6 7.4 10.8
District	15.7	20.9	7.5	12.4	13.1	4.9	5.4	8.6	2.7	15.7	21.1	14.1	13.6	13.5	10.4	5. 4	6.4	5. 2
District No. 6 District No. 7 District No. 8 District No. 9 District No. 9 District No. 10 District No. 11	11.6 14.1	27.6 33.2 20.8 8.8 9.9 25.6	12.6 28.6 11.8 .3 7.8 12.4	25. 1 8. 3 10. 5 1 2. 9 1 1. 9 16. 0	14.6 17.6 10.8 2.9 9.2 12.7	5.3	1 9. 0 1 10. 5 1 3. 8 1 12. 3 1 11. 6 1 8. 9	4.1	15.6 13.2 1.7 111.2 16.1 116.0	11.6 41.2 11.6 14.1 25.9	19.6 29.6 18.0 14.2 25.2	16.9 35.5 16.8 11.1 20.9	19.7 32.6 16.5 5.2 21.6	24.2	13.3 7.6 .7	1 9.0 1 10.5 1 3.8 1 12.3 1 11.6 1 8.9	1 5. 4 1 4. 7 1 3. 7 1 10. 9 1 1. 8 1 8. 4	1 4.7 13.3 11.7 1 11.8 1 3.9 1 11.4
District No. 12: Los Angeles. San Francisco. Oakland. Sacramento. Seattle. Spokane. Salt Lake City.	21.0 16.9 20.1 .2 22.7 20.6	48.9 18.6 15.3 3.1 18.0 12.7 11.6	29.1 10.4	22.0 9.9 114.6 4.6 8.9	5.6 14.7	2.3 118.7 11.5 9.1	17.1 112.1 110.4 116.8 123.4 110.1	12. 2 1 5. 2	9.9 13.1 .9 16.2 114.6 4.6 1.7	35. 1 21. 0 16. 9 20. 1 . 2 22. 7 20. 6	42.4 19.6 14.7 13.3 1 4.4 16.8 16.1	37.9 17.3 	33.9 15.4 21.3 16.1 17.3 9.4 14.0	18.2 19.2 8.4 12.2	7.0 111.1 8.6 14.6	17. 1 1 12. 1 1 10. 4 1 16. 8 1 23. 4 1 10. 1 1. 6	13.3 16.5 12.2 19.3	11.9 14.3 9.8 14.2 115.6 1.3 6.0
District	21.2	21.7	14.5	8.2	11.3	1 4.3	1 14. 3	1 2.4	.6	21.2	21.4	19.8	16.8	14.8	5.0	114.3	1 5.9	1.6

Decrease.

CONDITION OF RETAIL TRADE IN THE 12 FEDERAL RESERVE DISTRICTS—Continued.

		<u>·</u>			Perce	ntage o	of incre	ase in	stocks	at close	of mo	nth co	mpare	d with				
District and city.			San	ne mor	th pre	vious	year.						Prev	ious m	onth.			
	July, 1920.	Aug., 1920.	Sept.,	Oct., 1920.	Nov., 1920.	Dec.,			Mar., 1921.	July, 1920.	Aug., 1920.	Sept., 1920.	Oet., 1920.				Feb.,	Mar., 1921.
District No. 1: Boston Outside	32. 1 30. 4	26. 3 26. 4	20. 7 21. 7	9. 5 15. 9	7. 1 10. 6	1 1. 7 2. 0	¹ 10. 7	13.7 3.7	¹ 18. 2 ¹ 10. 3	17.0 .2	4. 9 3. 2	9. 5 9. 7	1 4. 2 3. 0	9.0	¹ 18. 2 ¹ 20. 5	1 14. 5 1 8. 2	15. 5 15. 4	1 6. 6 1 5. 7
District	31. 5	26. 4	21.0	11.6	8.2	1. 7	110.7	1 1.6	116.0	1 4. 7	4. 3	9. 5	11.8	4.9	118.9	112.7	15.5	1 6. 4
District No. 2: N.Y. City and Brooklyn. Outside	46. 2 30. 9	30. 7 26. 3	18. 0 20. 2	17. 2 15. 6	5. 1 3. 8	1 2. 3 112. 7	1 9, 5 120, 0	¹ 16. 5 ¹ 23. 0	123. 2 117. 9	1 4. 3 4. 6	7. 3 5. 6	5. 7 9. 3	1. 0 1. 4	1 4.8 1 7.0	¹ 20. 4 ¹ 24. 0	1 8. 1 1 6. 1	6.3	8. 3 9. 0
District	39. 5	29. 3	18.7	16. 7	4.6	1 4. 5	112.0	117.8	122.0	1, 5	6.8	6. 9	. 5	1 5. 6	121.1	17.6	5.3	8.5
District No. 3: Philadelphia Outside					5. 7 17. 4	2. 2 8. 0	1, 9 110, 8	¹ 11. 7 ¹ 12. 4	¹ 20. 4 ¹ 14. 3					1 5. 0 1 4. 1	¹ 15. 5 ¹ 20. 0	¹ 13. 8 ¹ 7. 4	4. 2 9. 5	5. 4 7. 3
District	28. 4	31.0	20.6	16.0	10. 1	4. 4	1 4. 6	¹ 11. 9	119.0	3.3	6.2	8.4	.9	1 4. 7	117.3	111.5	5.6	5. 9
District No. 4	48. 3	40. 4	34.0	34. 9	22. 5	11.6	1 4. 0	¹ 13. 2	¹ 17. 1	1 1.4	9.4	9. 2	4.8	16.4	120.0	114.6	3. 1	7.9
District No. 5: Baltimore							119.7 19.8 128.6 120.3	124. 0 113. 1 129. 9 121. 4	128. 2 116. 6 126. 2 122. 6							1 7. 0 115. 2 118. 7 132. 1	6. 9 7. 7 9. 8 13. 9	8. 8 7. 8 7. 1 10. 1
District		29.6	21. 1	15. 1	5. 3	1 4. 2	122. 2	124. 8	125. 9	2, 5	2.3	10. 2	.1	17.7	125. 5	116. 2	8, 9	8.4
District No. 6 District No. 7 District No. 8 District No. 9 District No. 10 District No. 10	70. 1	39. 8 64. 1 24. 2 17. 7 39. 1 59. 5	37. 2 55. 5 35. 4 22. 6 29. 1 52. 8	30. 1 51. 7 30. 5 12. 0 25. 0 42. 3	16. 3 39. 7 17. 0 7. 1 11. 8 31. 5	1, 2 27, 7 16, 2 1 3, 5 9, 4 8, 8	9.9	118.2	112.7 114.3 19.8 114.8 120.9 117.7	5.6 8.4 14.7 8.9 8.3	5. 4 14. 6 5. 6 2. 9 9. 8 22. 3	13. 1 4. 8 11. 6 6. 9 4. 6 6. 6	.8 1.0 1.8 .5 11.9 13.0		130. 8 124. 0 118. 8 118. 7 123. 9 128. 8	1.8 11.8 13.3 18.8 11.1	6. 0 1. 4 1. 8 1. 2 10. 1 5. 0	4. 4 9. 2 9. 6 6. 2 6. 4 9. 3
District No. 12: Los Angeles. San Francisco. Oakland. Sacramento. Seattle. Spokane. Salt Lake City.	43. 1 27. 7	31. 2 27. 1 22. 5 11. 4 1 8. 4 45. 5	33. 4 16. 2	21. 6 15. 4 8. 3 17. 5 . 5 40. 1	16. 4 8. 0 3. 8 1 4. 4 33. 6	1 3. 6 112. 3 112. 2	¹ 21. 1	¹ 16. 5 ¹ 27. 8 ¹ 27. 5 ¹ 14. 0	112. 8 121. 9 127. 2 130. 3 133. 8 120. 9	1.8 1.5 12.9	1 2. 5 1. 4 2. 3 9. 8 1. 9 9. 1	13. 7 7. 4 6. 3	15.4 .6 .3 2.8 12.7	1 4. 2 1. 8 1 3. 1 1 2. 9 1 4. 2	13.6	3. 6 1 9. 0 110. 9 111. 3 2. 1	. 5 6. 1 4. 2 6. 6 4. 4	6. 2 3. 1 7. 7 6. 8 3. 1 1. 4
District	40.1	95.2	20, 6	15. 6	20. 1	12.7	.4	17.6	115. 1	1,8	.7	4.9	1.2	1 3. 4	¹ 22. 4	1 4. 1	2, 2	6.6 4.5
District		25.3				e of eac			!	1 1	l					of mo		
						e perio			aver-	pur	chases	during	previ	ous cal	lendar	year (I	er cen	t).
District and city.		July 1	, 1920,	to clos	e of—	(Jan el	. 1, 192 lose of	1, to	July,	Aug.,	Sept.,	Oct.,	Nov.,	Dec.,	Jan.,	Feb.,	Mar.,
	July, 1920.	Aug., 1920.	Sept., 1920.	Oct., 1920.	Nov., 1920.		Jan., 1921.	Feb., 1921.	Mar., 1921.	1920.	1920.	1920.	1920.	1920.	1920.	1921.	1921.	1921.
District No. 1: Boston Outside	419. 2 436. 4		412. 7 485. 9				270. 2 392. 9	325. 3 473. 7	300. 7 445. 8	18. 5 9. 1	13. 7 14. 2	11. 4 14. 7	7. 5 10. 8		3.6	5. 1 4. 5	7. 4 8. 6	
District	425, 1	455. 1	433. 5	415.6	398.6	357. 9	297. 2	358.1	332. 5	12.0	14.0	13.1	9. 1	7.7		4.8	8.1	6.4
District No. 2: New York City and Brooklyn Outside	390. 0 485. 8		613. 7 492. 1		464. 1 430. 6		315. 8 351. 3			15. 7 18. 9	16. 8 14. 3		9. 2 6. 6		5. 3 3. 1	5. 5 4. 1	7.3 7.2	7. 1 5. 7
District	440. 1	496.7	573. 9	466. 9	452, 3	358. 0	325.0	328.7	330.6	17. 4	15. 9	13.6	8. 1	5. 5	4. 5	5. 1	7.3	6.7
District No. 3: Philadelphia Outside					360. 4 520. 5			314. 3 508. 7	330. 5 465. 8					4. 7 2. 9	4. 9 4. 1	4. 4 4. 8	7. 9 6. 2	7. 6 6. 1
District	399. 8	471. 2	500. 3	437. 2	418.0	371. 1	357. 6	365.6	361. 9	19. 8	14. 2	10, 1	5. 9	4.0	4.6	4.6	7.5	7.3
District No. 4	403. 6	412. 7	468. 8	466. 8	452. 1	398. 5	306. 4	353.6	345. 9	18.9	17.0	13.3	7.6	5.9	4.7	7.1	7.0	7.7

¹ Decrease.

CONDITION OF RETAIL TRADE IN THE 12 FEDERAL RESERVE DISTRICTS—Continued.

	Ratio							nth to cent).		Ratio	of ou chases	itstand durin	ing or g previ	ders a ious ca	t close lendar	of mo	onth to	total
District and city.		July 1	l, 1920,	to clos	se of—		Jan e	. 1, 192 lose of-	1, to	July.	A 119.	Sept.,	Oct	Nov.	Dec.	Jan	Feb.	Mar.,
	July, 1920.			Oct., 1920.		Dec., 1920.		Feb., 1921.	Mar., 1921.	1920.	1920.		1920.		1920.	1921.	1921.	
District No. 5: Baltimore Richmond. Washington. Other cities							403.5	370.9	354. 4 341. 3							7. 2 5. 4 3. 9 5. 4	6.1 4.8	5. 5 4. 2
District	505. 9	560.7	512. 9	489. 0	454. 5	386.6	344. 5	368. 7	343. 2	16.1	14.8	8. 4	7.1	3. 0	.2. 7	6.0	6.6	5. 4
District No. 6		432. 6 334. 0	410. 7 377. 0 340. 4 523. 9	396. 8 343. 3	431. 7 324. 4 526. 8	391.0 245.1 466.3	336. 5 480. 8	404.4	360. 2 388. 6	19.3 13.7 15.6	23. 2 17. 2 9. 1 9. 7	15. 7 9. 2 8. 8	5. 1 6. 1 12. 4 3. 1	6. 5 3. 9	5.6 3.8 18.7 2.3	10.8 3.4 4.2 22.1	11.0 8.9 5.5 11.8	4. 1 5. 2 6. 4
District No. 12: Los Angeles. San Francisco. Oakland. Sacramento. Seattle. Sookane.	522. 5 539. 9 625. 1 470. 2 652. 6	512. 8 598. 3 423. 3 532. 7	511. 5	511. 9 732. 5 387. 4	515. 8 567. 4 454. 5	434. 3 490. 5 413. 7	424. 2 427. 2 463. 0	355. 6 444. 6 467. 1 468. 1 610. 9	401. 5 455. 3 438. 0	25. 9 16. 3	21. 1 12. 2	10.8	13.6	9.6	4.3	4.4	8.2	6. 9 5. 6
SpokaneSalt Lake City	002.0	070.0		519.0	344. 5	601. 4		010.9	021.6	18.7					2.6		5. 2	0. 3
District	536. 5	489.6	504.0	467.3	488. 5	490.7	502. 4	448.2	404.7	22, 3	14.2	9. 5	9.8	7.0	5.8	5. 4	8.6	7. 8

WHOLESALE TRADE.

PERCENTAGE OF INCREASE (OR DECREASE) IN NET SALES IN MARCH, 1921, AS COMPARED WITH THE PRECEDING MONTH (FEBRUARY, 1921).

*	Groc	eries.	Dry §	goods.	Hard	ware.	Boot sho	s and es.	Furn	iture.	Dr	ugs.	Statio	onery.		imple- nts.	Auto	tires.
District.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.		Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.	Per cent.	Num- ber of firms.		Num- ber of firms.		Num- ber of firms.	Per cent.	Number of firms.
	+7.2 $+19.5$ -0.7	4	+14.7 +35.6 +16.1 +28.5	13	+30. 2 +35. 2 + 6. 0 +65. 5 -29. 3 +33. 9	8 3 2	+53. 4 +72. 6 +68. 4	7	-22. 4 +19. 7		+ 7.3 +14.3	4 12	+ 1.3	20	-18.4	2	+46.7	14

PERCENTAGE OF INCREASE (OR DECREASE) IN NET SALES IN MARCH, 1921, AS COMPARED WITH MARCH, 1920.

	Groc	eries.	Dry	goods.	Hard	lware.	Sh	oes.	Furn	iture.	Dr	ugs.	Statio	onery.	Farm me	imple- nts.	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.		Num- ber of firms.		Num- ber of firms.		Num- ber of firms.		Num- ber of firms.	Per cent.	Num- ber of firms.
No. 3 No. 4 No. 5 No. 6		50 14 9 10 22	-14.9 -38.3 -41.7 -35.9		-19. 2 -16. 3 -24. 1 -45. 6	8 8		8 7 10	-66.5	4								
No. 10 No. 11 No. 12	-42.1		-34, 0 -29, 1		-34.3 -37.7 -33.6		-16.0	16	-30.6	19	-29. 1 -10. 4	4 12	-9.7	24	-88.0	2	-47. 4	. 15

COMPARATIVE WHOLESALE PRICE LEVELS IN PRINCIPAL COUNTRIES.

are constructed by various statistical offices according to methods described in most cases in the BULLETIN for January, 1920. A description of the method used in the construction of the Swedish index number appeared in the Bulletin for February, 1921, for the new Italian index number in the April, 1921, issue of the Bulletin, and the method used by the Frankfurter Zeitung in the case of the German index number was described in the BULLETINS for February and March, 1921. Complete information regarding the computation of the United States Bureau of Labor Statistics appears in the publications of that bureau, and a description of the index number of the Federal Reserve Board may be found in the Bulletin for May, 1920. The new British index number, compiled by the Board of Trade, will be found appear together to facilitate the study of on p. 602 of this issue of the Bulletin. It is comparative price levels.

The foreign index numbers published below | not included in the table below as it can not be referred back to a definite prewar base. In the case of the two American index numbers, 1913 is used as the basis in the original computations. In the other cases in which 1913 appears as the basis for the computation the index numbers have been shifted from their original bases. The computations in these cases are, therefore, only approximately correct. In a few cases July, 1914, or the year immediately preceding that, is used as the base. The figures are for the most part received by cable, and the latest ones are subject to revision. In cases where the index numbers were available they have been published for the war years in various issues of the Bulletin in 1920.

In the following table the all-commodities index numbers for the whole series of countries

INDEX NUMBERS OF WHOLESALE PRICES (ALL COMMODITIES).

	United States; Federal Reserve Board (88 com- modi- ties).a	United States; Bureau of Labor Statistics (328 quo- tations).a	United King- dom; Statist (45 com- modi- ties).b	France; Bulletin de la Sta- tistique Générale (45 com- modi- ties). ^b	Italy;¹ Prof. Bachi (38 commodi- ties until 1920, 76 there- after).b	Germany; Frank- furter Zeitung (77 com- modi- ties).d	Sweden; Svensk Handels- tidning (47 quota- tions).c	Japan; Bank of Japan for Tokyo (56 commodi- ties).a	Australia; Common- wealth Bureau Census and Sta- tistics (92 commodi- ties).a	Canada; Department of Labor (272 quotations).c	Calcutta, India; Depart- ment of Statistics (75 com- modi- ties).b
1913		100 100 101 124 176 196 212 243	100 101 126 159 206 226 242 291	100 101 137 187 262 339 357 510	100 95 133 202 299 409 364 624	5 100	2 100 116 145 185 244 339 330 347	100 96 97 117 147 192 236 259	3 100 141 132 6 155 170 180 218	100 101 110 135 177 206 217 246	4 100 204
March. April. May. June July. August. September October. November December.	263 264 258 250 234 226 208	253 265 272 269 262 250 242 225 207 189	307 313 305 300 299 298 292 282 263 243	555 588 550 493 496 501 526 502 461 435	602 664 660 632 604 625 655 659 670 655	1,615 1,604 1,714 1,473 1,495 1,547 1,582 1,604 1,670 1,681	354 354 361 366 363 365 362 346 331 299	321 300 272 248 239 235 230 226 221 206	209 217 225 233 234 236 230 215 208 197	258 261 263 258 256 244 241 234 225 214	198 200 210 206 209 209 208 206 194 180
1921. January Kebruary March April.	154 150	178 167 162 154	232 215 208 199	407 377 360 344	642 613 604	1,626 1,495 1,440 1,429	267 250 237 229	201 195 191 190	196 192 181	208 199 194	178 174 183

a Average for the month.

¹ Index numbers for 1920 and thereafter based upon prices of 76 commodities.

² July 1, 1913, to June 30, 1914=100.

³ July, 1914=100.

⁴ Beginning of month but not always the first.

Computations arrived at by the method described on p. 465 of this BULLETIN.

⁴ End of July, 1914=100.

⁵ Middle of 1914=100.

⁶ Last six months of 1917.

individual groups of commodities are given not be referred back to the 1913 base and it is for each country separately. Reference should | therefore impossible to compare present levels be made to the preceding table for the "all with prewar levels in these cases. No group commodities" indexes. In the case of the index numbers are compiled by the Bank of Italian group index numbers, Prof. Bachi's Japan.

In the following tables the index numbers for | new computations only are given. These can

GROUP INDEX NUMBERS—UNITED STATES, BUREAU OF LABOR STATISTICS.

[1913=100.]

Date.	Farm products.	Food, etc.	Cloths and clothing.	Fuel and lighting.	Metals and metal products.	Lumber and building material.	Chemicals and drugs.	House furnishing goods.	Miscel- laneous.
1913. 1914. 1915. 1916. 1917. 1918. 1918. 1919.	100 103 105 122 189 220 234 218	100 103 104 126 176 189 210 239	100 98 100 128 131 239 261 302	100 96 93 119 175 163 173 238	100 87 97 148 208 181 161 186	100 97 94 101 124 151 192 308	100 101 114 159 198 221 179 210	100 99 99 115 144 196 236 366	100 99 99 120 155 193 217 236
March	243 236 222	246 270 287 279 268 235 223 204 195	356 353 347 335 317 299 278 257 234 220	192 213 235 246 252 268 284 282 258 258	192 195 193 190 191 193 192 184 170 157	325 341 341 337 333 328 318 313 274 266	205 212 215 218 217 216 222 216 207 188	329 331 339 362 362 363 371 371 369 346	230 238 246 247 243 240 239 229 220 205
1921. January February March April	136 129 125 115	162 150 150 141	205 198 192 186	234 218 207 199	152 146 139 138	239 222 208 203	182 178 171 168	283 277 275 274	190 180 167 154

ALL COMMODITIES AND GROUP INDEX NUMBERS-UNITED KINGDOM, BOARD OF TRADE.

[1920=100.]

	Cereals.	Meat and fish.	Other foods.	Total food.	Iron and steel.	Other metals and minerals.	Cotton.	Other tex- tiles.	Other arti- cles.	Total not food.	All arti- cles.
January 1921. February March	90. 5 78. 4 75. 5	108. 0 100. 8 95. 5	88. 0 81. 6 82. 0	94. 8 86. 2 83. 8	88. 6 79. 0 69. 5	85. 5 80. 7 77. 2	46. 7 40. 6 36. 1	61. 1 55. 6 49. 3	80. 4 78. 6 74. 7	73. 1 67. 3 61. 4	80. 1 73. 4 68. 6

GROUP INDEX NUMBERS—UNITED KINGDOM, STATIST.

[1913=100.]

Date.	Vege- table foods.		Sugar, cof- fee, tea.	Food- stuffs.			Sun- dries.	Mate- rials.	Date.	Vege- table foods.	mal	Sugar, cof- fee, tea.	Food-	Min- erals.	Tex- tiles.	Sun- dried.	Mate- rials.
1913 1914 1915 1916 1917 1918 1919 1920	110 155 193 252 248	100 100 125 152 192 210 215 264	100 107 130 161 213 238 275 366	100 105 137 169 218 229 238 301	100 90 109 140 152 167 190 269	100 97 111 152 228 265 271 299	100 105 131 163 212 243 268 290	100 98 119 153 198 225 243 285	1920. July	317 319 334	278 295 291 290 293 262	425 404 334 257 238 212	325 319 308 302 291 253	276 281 283 276 265 254	298 298 286 261 212 205	277 278 279 268 253 248	283 285 282 266 245 237
1920. MarchApril MayJune	346	237 265 244 244	393 392 473 496	300 315 318 325	263 263 273 269	360 354 308 308	318 321 311 282	312 311 298 285	January February March April.	206	283 270 262 249	192 187 182 180	251 234 232 225	225 200 179 176	198 179 171 172	230 224 221 199	219 203 193 184

${\bf GROUP\ INDEX\ NUMBERS-FRANCE,\ GENERAL\ STATISTICAL\ BUREAU.}$

[1913=100.]

Date.	Ani- mal foods.	Vege- table foods.	contee,		Min- erals.	Tex- tiles.	Sun- dries.	Raw mate- rials (25).	Date.	Ani- mal foods.	Vege- table foods.	and '	Foods (20).	Min- erals.	Tex- tiles.	Sun- dries.	
1913 1914 1915 1916 1917 1918 1919 1919	103 126 162 215 286	100 103 126 170 243 298 313 427	100 106 151 164 201 231 253 422	100 104 131 167 225 281 336 459	100 98 164 232 271 283 272 449	100 109 132 180 303 460 444 737	100 99 145 199 302 420 405 524	100 101 145 206 291 387 373 550	1920. July	501 515 531 533 519 515	370 359 412 421 390 360	405 399 544 422 377 355	432 432 487 469 442 424	469 475 468 453 424 385	746 737 715 637 510 475	500 524 540 527 498 471	548 558 558 528 476 444
1920. March April May June	522	516 511 480 400	439 447 424 392	498 506 472 434	460 507 459 428	884 953 841 734	548 598 601 517	600 653 614 540	January February March	483 452 406 389	334 317 322 337	337 338 367 359	397 378 366 364	341 300 289 281	460 398 375 314	445 422 382 371	415 378 355 328

GROUP INDEX NUMBERS-ITALY, RICCARDO BACHI.

[1920=100.]

GROUP INDEX NUMBERS—GERMANY, FRANKFURTER ZEITUNG.

[Middle of 1914=100.]

									Į	crie oi rară.	- 40013		
l ta	ege- able ods. f	mar	Chem- icals.	Tex- tiles.		ing mater-		Sun- dries.		Agricul- tural products.	Textiles, leather.	Minerals.	Miscel- laneous.
March 10 10 10 10 10 10 10 1	93. 1 102. 7 102. 2 100. 2 96. 8 100. 7 104. 8 107. 1 107. 7 106. 9	108. 0 124. 1 126. 4 120. 7 119. 5	110. 4 122. 6 112. 8 100. 0 102. 3 100. 1 103. 4 107. 7 102. 8	130. 8 101. 9 90. 8 88. 3 94. 9 99. 6 97. 9 94. 0 81. 9	99. 1 95. 5 96. 6 103. 7 106. 5 101. 4 92. 7 88. 2 79. 5	96. 4 101. 8 106. 3 108. 4 109. 9 109. 9 112. 8 112. 6 112. 6	99. 8 97. 2 95. 9 90. 2 91. 9 97. 5 100. 5 108. 7 121. 8	104. 2 107. 8 105. 7 104. 9 101. 4	1920. Beginning of— April	1, 125 1, 283 1, 309 1, 318 1, 344 1, 450 1, 555	4,114 3,243 2,670 2,561 2,643 2,807 2,943 3,025 2,698 2,643 2,507 2,371 2,371 2,153	1,888 1,860 1,528 1,552 1,566 1,734 1,678 1,636	1, 417 1, 417 1, 642 1, 625 1, 617 1, 608 1, 592 1, 658 1, 625 1, 525 1, 527 1, 517

GROUP INDEX NUMBERS—SWEDEN, SVENSK HANDELSTIDNING.

[July 1, 1913—June 30, 1914=100.]

Date.	Vegetable food.	Animal food.	Raw mate- rials for agriculture.	Coal.	Metals.	Building material.	Wood pulp.	Hides and leather.	Textiles.	Oils.
1913-14 1914 ¹ 1915 1916 1917 1918 1919 1919	100 136 151 152 181 221 261 262	100 191 140 182 205 419 409 296	100 114 161 180 198 304 340 312	100 123 177 266 551 856 804 1,007	100 109 166 272 405 398 258 278	100 104 118 165 215 275 286 371	116 223 267 300 308 675	100 118 158 229 206 195 211 215	100 103 116 166 247	100 111 120 149 212
1920. March	265 269 250 252 271 273 258	304 284 283 273 277 307 312 306 290 283	318 320 320 311 312 316 308 309 303 301	960 1,008 1,069 1,252 1,252 1,117 1,085 1,026 910 602	291 283 324 318 293 226 273 256 253 247	367 367 367 381 388 388 388 390 387 362	682 767 788 778 767 756 753 740 609 598	268 263 252 212 202 191 180 166 161	380 368 374 368 336 328 310 250 233 206	275 275 275 303 303 322 340 340 332 322 323
1921. January Pebruary March April	231	26£ 241 229 231	281 248 240 236	371 362 279 291	230 204 185 178	320 319 298 236	520 511 510 510	131 108 85 84	169 147 134 125	328 318 268 264

¹ Average for 6 months ending Dec. 31, 1914,

GROUP INDEX NUMBERS—AUSTRALIAN COMMONWEALTH, BUREAU OF CENSUS AND STATISTICS. [July, 1914=100.]

Pate.	Metals and coal.	Textiles, leather, etc.	Agricul- tural products.	Dairy products.	Groceries and tobacco.	Mest.	Building materials.	Chemicals.
July, 1914	100 117 154 213 220 193 209	100 93 131 207 232 217 243	100 202 113 110 135 186 229	100 127 124 116 121 137 184	100 110 127 131 138 147 186	100 150 155 155 147 145 201	100 116 136 194 245 261 295	100 149 172 243 315 282 277
March 1920. Aprii May June July August September October November December	205 205 214 214 211 209 211 222 222 216	281 277 265 260 252 251 222 290 180 156	226 234 252 261 244 238 231 208 206	162 169 177 187 188 199 209 214 212 210	160 192 197 195 193 193 196 196 195 198	126 160 170 208 261 284 273 226 211	298 298 307 307 307 312 295 280 281 271	280 280 297 297 283 282 276 276 255 252
January 1921. Pebruary March	215 214 203	145 132 107	197 192 176	208 206 207	197 197 198	191 184 178	279 303 303	24: 244 234

GROUP INDEX NUMBERS—CANADA, DEPARTMENT OF LABOR.¹ [1913=100.]

Date.	Grains and fodder.	Animals and meats.	Dairy products.	Fruits and vege- tables.	Other foods.	Textiles.	Hides, leather, etc.	Metals.	Imple- ments.	Building materials, lumber.	Fuel and lighting.	Drugs and chemi- cals.
1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920.	100 114 136 142 206 231 227 263	100 107 104 121 161 197 199 198	100 100 105 119 149 168 192 204	100 99 93 130 233 214 206 261	100 104 121 136 180 213 222 258	100 102 114 148 201 273 285 303	100 105 110 143 168 169 213	100 96 128 167 217 229 173 203	100 101 106 128 174 213 228 245	100 100 97 100 118 147 171 268	100 94 92 113 163 188 201 255	100 106 160 222 236 250 205 204
March April May June July August September October November December	291 301 302	198 200 207 211 211 204 202 194 184 179	206 196 189 183 194 198 202 207 209 221	295 316 358 338 295 216 190 177 203 189	254 264 275 274 283 277 261 249 236 223	322 328 323 314 305 300 296 292 273 251	222 239 210 182 178 173 161 156 153	210 214 213 207 209 209 207 203 195 178	237 237 237 238 242 243 259 259 259 259	268 268 294 294 282 285 273 265 265 265	215 245 257 279 294 298 296 295 270 269	194 201 203 206 218 218 217 211 205 201
1921. January February March	186 171 168	175 171 171	216 185 174	184 163 175	212 205 203	228 204 198	131 126 112	174 167 158	257 257 243	248 239 231	247 234 233	196 188 181

¹ Unimportant groups omitted.

GROUP INDEX NUMBERS—CALCUTTA, INDIA, DEPARTMENT OF STATISTICS. [End of July, 1914=100.

Date.	Build- ing mate- rials.	Manu- fac- tured articles.	Metals.	Hides and skins.	Cotton manu- fac- tures.	Raw cotton.	Jute manu- fac- tures.	Other tex- tiles.	Oils, mus- tard.	Raw jute.	Oil seeds.	Tea.	Sugar.	Pulses.	Cereals.	Other foods.
End of July, 1914	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1920. Average for the year. March. April May. July August. September. October November. December.	138 127 114 128 131 139 142 158 154 161	231 218 201 215 233 235 235 237 282 246 229	238 222 219 248 244 249 257 245 245 243 242	147 211 209 160 116 100 99 105 96 89	354 351 357 365 364 364 360 347 343 341 333	153 179 158 135 144 132 139 154 142 133 116	149 150 170 142 147 151 163 163 136 118	162 159 161 164 168 168 164 164 164	128 135 116 123 119 119 115 132 118 124	104 118 119 120 83 89 91 105 104 90 83	173 166 163 169 171 169 167 179 184 163 152	78 87 90 90 73 74 72 65 64 62 69	407 321 377 511 482 503 477 456 392 348 273	166 160 159 150 149 159 160 170 169 168 149	154 151 156 157 156 151 151 154 154 155 150 139	184 192 185 183 180 188 185 186 178 173 160
1921. January February March	158 147 147	238 226 242	247 243 255	81 80 97	324 306 311	107 104 119	104 101 9 7	149 149 123	116 97 110	85 80 85	130 124 131	77 70 76	314 352 354	135 119 147	139 129 141	139 148 150

COMPARATIVE RETAIL PRICES IN PRINCIPAL COUNTRIES.

showing the trend of retail prices and the cost of living in the United States and important European countries. Three of these index numbers—those for the United Kingdom, Paris, and Sweden—are constructed on the basis of prices in July, 1914 = 100. In the case of the United States, the original base, that of the year 1913, has been shifted to the July, 1914 base. The German index has not been computed for the prewar period, the base being July 15 to August 15, 1919.

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 for the larger number of commodities, although the actual "weights" applied have been

changed.

The British index number of the cost of living constructed by the Ministry of Labor consists of the retail prices of not only 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 working-class families.

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 working man's family of four persons. Eleven of the commodities included in this index are foods, and the other two are

kerosene and alcohol.

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

In the following table are presented statistics | man's family which before the war had a yearly income of 2,000 kroner.

The German index is that prepared by Dr. Silbergleit, of the Berlin Statistical Office, and is based upon the number of marks required to purchase the minimum amount of food needed by one growing person weekly.

RETAIL PRICES IN THE UNITED STATES, PARIS, AND SWEDEN; COST OF LIVING IN UNITED KINGDOM.

[July, 1914=100.]

	United States, retail prices.1	United King- dom, cost of living. ²	Paris, retail prices.1	Sweden, retail prices.
1919	182 199	216 249	260 371	321 298
March. A pril. May June July August September October November December	207 211 215 215 203 199 194 189	230 232 241 250 252 255 261 264 276 269	339 358 378 369 373 373 407 420 426 424	291 297 294 294 297 308 307 306 303 294
January February March April	155 153	265 251 241 233	410 382 358	283 262 253

I Average for the month.

WEEKLY COST OF FOOD PER PERSON IN BERLIN.

[July 15-Aug. 15, 1919=100.]
 November
 227

 December
 232
 January..... 231

² Beginning of month.

FOREIGN TRADE—UNITED KINGDOM, FRANCE, ITALY, SWEDEN, AND JAPAN.

In the following table are presented figures showing the monthly value of the foreign trade of a group of important European countries and Japan. Similar statistics for Germany are not available. Currencies have not been converted to a common unit, nor are methods of valuation the same in all countries. In England, imports are given current c. i. f. values in England; exports and reexports, current f. o. b. values. The same method is followed in Japan and Sweden. In France and Italy, on the other hand, the value of foreign trade is estimated not in terms of current prices but in terms of those of some earlier date, usually the preceding year.

None of the figures presented below include the import or export of gold and silver. In the case of England and France, group figures are given as well as total values, while in the case of the other countries, total values only are presented. This does not mean that group figures are not obtainable, merely that they are either delayed in publication or appear not to be of such general interest as the French and English material.

Japanese figures for recent months are received by cable and subject to revision.

FOREIGN TRADE OF UNITED KINGDOM.

[In thousands of pounds sterling.]

			Imports.			[
	Food, drink, and tobacco.	Raw materials and articles mainly unmanu- factured.	Articles wholly or mainly manu- factured.	Miscella- neous, including parcel post.	Total.	Food, drink, and tobacco.	Raw materials and articles mainly unmanu- factured.	Articles wholly or mainly manu- factured.	Miscella- neous, including parcel post.	Total.	Re- exports.
1913 monthly average. 1919 monthly average. 1920 monthly average. March April May June July August September October November December	57,387 64,993 67,566	23, 485 50, 565 59, 292 76, 540 71, 587 60, 509 57, 919 51, 899 44, 557 44, 299 46, 560 48, 613	16, 134 24, 663 37, 902 38, 156 38, 050 40, 580 44, 681 41, 923 40, 016 40, 573 36, 267 35, 955 34, 553	259 358 254 144 131 252 325 450 185 293 156 246 241	64, 061 135, 513 161, 395 176, 648 167, 154 166, 334 170, 491 163, 842 153, 255 152, 692 149, 889 144, 260 142, 785	2,716 2,814 4,241 4,280 3,959 4,020 4,313 4,515 3,503 4,311 4,678 4,723 3,842	5, 825 9, 274 12, 138 14, 482 12, 194 13, 211 11, 447 12, 551 10, 467 9, 515 9, 632 9, 399 12, 277	34, 281 53, 457 93, 394 83, 287 88, 689 100, 727 99, 081 118, 954 99, 645 102, 216 95, 701 103, 694 78, 819	949 1, 008 1, 528 1, 551 1, 410 1, 361 1, 512 1, 432 1, 288 1, 415 2, 285 1, 548 1, 694	43,770 66,553 111,297 103,699 106,252 119,319 116,352 137,452 114,903 117,456 112,295 119,365 96,631	9, 131 13, 729 18, 701 27, 031 20, 407 20, 260 20, 124 17, 848 13, 368 13, 351 16, 134 13, 115 12, 699
January February March April ¹		37,005 25,504 17,739	30, 467 23, 394 24, 930	420 326 184	117, 051 96, 974 93, 742 89, 996	3,852 3,075 2,897	7,668 5,881 5,832	79,746 58,177 56,969	1,491 1,089 1,111	92,756 68,222 66,809 59,868	9,955 8,004 8,888 8,524

¹ These figures are provisional.

FOREIGN TRADE OF FRANCE.1

[In thousands of francs.]

		Imp	orts.				Exports.		
	Food.	Raw materials.	Manu- factured articles.	Total.	Food.	Raw materials.	Manu- factured articles.	Parcel post.	Total.
1913 monthly average ²	151, 465	412, 144	138, 169	701, 778	69, 908	154, 841	301, 420	47, 182	573, 351
	892, 040	1, 229, 434	861, 797	2, 983, 272	99, 201	203, 691	615, 630	71, 444	989, 966
	718, 179	1, 400, 046	832, 187	2, 950, 413	184, 277	397, 677	1, 187, 742	99, 867	1, 869, 563
March. 1920. April. May June 4	871, 857	1, 478, 987	772,007	3, 122, 851	114, 223	349, 521	834, 031	39, 884	1, 337, 659
	675, 799	1, 398, 592	813,216	2, 887, 607	125, 678	353, 344	844, 901	52, 987	1, 376, 910
	547, 825	1, 193, 960	644,911	2, 386, 696	103, 355	348, 361	726, 654	31, 658	1, 210, 028
	558, 951	1, 302, 867	726,856	2, 588, 674	216, 849	421, 735	1, 100, 931	69, 862	1, 809, 377
July 5 August 6 September October November December.	008.822	1,171,091 1,294,160 1,243,294 1,389,928 1,548,681	905, 613 724, 894 684, 442 732, 416 726, 715	2,800,453 2,627,876 2,595,445 2,672,178 2,948,257	210, 888 229, 892 262, 808 200, 388 218, 626	440, 482 446, 131 337, 464 405, 858 366, 981	1,631,883 1,363,469 1,597,808 1,136,356 929,222	116, 255 112, 081 134, 472 140, 996 146, 067	2, 399, 508 2, 151, 573 2, 332, 552 1, 883, 598 1, 660, 896
January	346, 703	1, 101, 267	534, 498	1,982,468	188, 546	436, 069	1,142,398	115,605	1, 882, 618
February	386, 169	803, 231	424, 531	1,613,931	172, 992	478, 561	1,162,817	85,074	1, 899, 444
March	455, 545	786, 352	501, 011	1,742,908	162, 901	379, 281	1,035,826	108,418	1, 686, 426

FOREIGN TRADE OF ITALY, SWEDEN, AND JAPAN.

	(In mi	aly. llions of e. ¹)	(In mi	den. llions of ner.)		an. lions of n.)
	Imports.	Exports.	Imports.	Exports.	Imports.	Exports.
1913, monthly average. 1919, monthly average. 1920, monthly average.	304 1,385 1,322	210 506 650	71 211 281	68 131 191	61 181 195	53 175 162
January February March April May June July August September October November December	1, 141 1, 431 1, 363 1, 401 2, 076 1, 040 1, 249 1, 202 1, 126	497 616 683 679 662 752 521 532 570 707 731 853	238 282 301 267 314 283 331 308 325 299 228 197	127 106 151 164 227 224 268 230 233 218 177	205 271 329 297 296 220 157 123 118 108 108	176 174 194 217 193 184 154 175 154 134 105
January 1921. February March			122 2 116	91 2 89	2 105 2 119 2 137	2 75 2 76 2 94

¹ 1920 figures based on 1919 prices.

Not including gold, silver, or the reexport trade.
 Calculated in 1913 value units.
 Calculated in 1919 value units.
 February-June, 1920, figures are calculated in 1918 value units. French foreign trade figures are originally recorded in quantity units only, and the value of the trade is calculated by applying official value units to the quantities imported and exported. Normally the monthly statements of trade appear computed at the rates of the year previous, and only at the end of the year is the trade evaluated at the prices prevailing during that year. Because of the disturbed price conditions in France last year, however, it was not until July that the 1919 price units were decided upon and applied.
 Monthly French foreign trade figures are published only in cumulative form, and as the value rates used were changed in July it is impossible to give separate figures for that month.
 August, 1920, through March, 1921, figures calculated in 1919 value units.

² Provisional.

FINANCIAL STATISTICS FOR ENGLAND, FRANCE, ITALY, GERMANY, SWEDEN, AND **JAPAN.**

A summary of banking and financial conditions abroad is presented statistically in the accompanying tables. Similar material will be published regularly each month in the BULLETIN.

BRITISH FINANCIAL SITUATION.

[Amounts in millions of pounds sterling.]

	Deposit E	and note a	accounts, ad Treasu	Bank of ry.	Governi	nent float	ing debt.	Nine	London o	learing ba	anks.³	Discour	nt rates
	Bank notes. ¹	Currency notes and certificates outstanding.	De- posits, public and other.	Coin and bullion,2	Treas- ury bills.	Temporary advances.	Total floating debt.	Money at call and short notice.	Discounts and advances.	Invest- ments.	De- posits.	3 months' bank bills.	6 months' trade bills.
1913, average of end of month figures	29		57	38								Per cent.	Per cent.
1920, end of— March. April. June. July August September October November	101 104 107 107 106 109 109	335 337 348 357 362 356 354 356 349	137 140 118 192 134 116 127 137 123	141 141 146 152 152 152 152 153	1, 107 1, 048 1, 062 1, 050 1, 058 1, 067 1, 139 1, 028 1, 097	205 249 221 244 204 183 143 241 231	1, 312 1, 297 1, 283 1, 294 1, 262 1, 250 1, 282 1, 269 1, 328					5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	64477777777777777777777777777777777777
December	113 109 108 110 109	368 342 336 344 338	190 129 127 138 141	157 157 157 157 157 157	1, 102 1, 145 1, 110 1, 121	306 242 189 155	1, 408 1, 387 1, 299 1, 275	99 88 83	1, 207 1, 172 1, 145	317 340 336	1, 810 1, 754 1, 715	68 64 64 518	73 7 73 74 75 7

¹ Less notes in currency note account.

FRENCH FINANCIAL SITUATION.

[Amounts in millions of francs.]

		Ва	nk of Fran	ice.		Situation	of the Go	vernment.
	Gold. reserves.	Silver reserves.	Deposits.1	Circula- tion.	Advances to the Govern- ment for purposes of the war. ²	Govern- ment ⁸ revenue.	Public debt.	Price of 3 per cent perpetual rente.
1913, average	,	629	830	5, 565		320	35,000	86. 77
March	4 3, 606	247	4,039	37, 569 37, 688 37, 915 37, 544 37, 696 37, 905 39, 208 39, 084 38, 807	26,300	859		58, 8-
April	4 3, 608	244	4, 039 3, 469 3, 751	37,688	25, 300 26, 050 26, 000 25, 550	1,057		57.40
<u>М</u> ау	4 3, 609	240	3,751	37,915	26,050	857		59.35
June	4 3, 610	241	3,653	37,544	26,000	908		57. 25
July	4 3, 611	248	3, 416 3, 267	37,696	25,550	1,109		58.90
August	3.012	255 256	3,267	37,905	25, 800 26, 600 26, 600 26, 600	882		56. 30
September	6 3, 531 6 3, 537	264	3,307	39,208	20,000	1,120	⁶ 285, 836	54.15
October November	63,543	265	3, 474 3, 927	39,084	20,000	1,332		56. 20
December	6 3, 552	266	3,575	37,902	26,600	1,000		55.40 57 95
1921:	0,002	200) 0,010	01,002	20,000	1,100		01.90
	6 3, 553	268	3, 429	37, 913	25,600	1,204	1	59. 16
JanuaryFebruary	6 3, 555	264	3, 293	37, 808	25,600	921	7 302, 735	58, 15
March	6 3, 556	267	3, 429 3, 293 3, 103	37, 913 37, 808 38, 435	26, 200	972		58. 17
April	63,566	271	3,018	38,211	26,000			56,92

² Held by the Bank of England and by the treasury as note reserve.
⁸ Average weekly figures.

Includes Treasury and individual deposits.
 Under the laws of Aug. 5 and Dec. 26, 1914, July 10, 1915, and Feb. 16, 1917.
 From indirect taxation and Government monopolies.
 Not including about 1,978 million francs held abroad.

<sup>Foreign debt calculated at the exchange rates of Sept. 30, 1920.
Not including about 1,948 million francs held abroad.
Foreign debt calculated at the exchange rates of Feb. 28, 1921.</sup>

ITALIAN FINANCIAL SITUATION.

[In millions of lire.]

	Leadir	g private	banks.1			Banks	of issue.				Gove	nment fi	nances.	
	Cash.	Loans, dis- counts, and corre- spond- ents' debts.	Deposits and correspondents' credits.	Loans and dis- counts.	Gold re- serve.	Total re- serve.	Deposits and de- mand liabilities.	Com- mer- cial circu- lation.	Circulation for account of the state.	State cur- rency notes.	Treas- ury metal- lic re- serve.	Short- term treas- ury bills.	Total public debt.	Principal revenues from taxation and monopolies during month.
End of December,1913	129	2,007	1,674	857	1,375	1,661	318	2,284		499	117			
1920. January. February. March. April May. June. July. August September October. November December January. February	1.297	13,054 13,571 14,421 14,884 15,240 14,996 14,924 15,177 15,653 15,700 16,003 16,538 17,113 16,842	12,094 12,629 13,397 14,045 14,046 14,131 14,457 14,824 14,909 15,315 15,801 16,392 15,961	4,173 4,671 5,322 5,804 5,782 6,784 6,576 6,233 6,628 7,083 6,397 7,074 6,931 7,158	1,038 1,038 1,038 1,038 1,039 1,039 1,039 1,039 1,058 1,058 1,058 1,058 1,058	2,021 2,047 2,053 2,035 2,065 2,110 2,113 2,172 2,217 2,082 2,069 2,077	2,376 2,224 2,296 2,377 2,264 2,379 2,196 2,276 2,494 2,337 2,589 2,559 2,635 2,221	4,920 4,848 5,478 6,029 6,459 7,484 7,615 7,413 8,231 8,361 8,577 8,988 (3) (4)	10,714 10,599 10,454 10,401 10,402 10,333 10,284 10,524 10,682 10,940 10,899 10,743 (3)	2,345 2,538 2,546 2,546	343	9,300 9,800 10,200 10,300 10,700 11,700 13,200	95,000	561 878 461 1,268 563

Banca Commerciale Italiana, Banca Italiana di Sconto, Credito Italiano, Banco di Roma.
 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.
 Combined circulation, 19,264.
 Combined circulation, 18,926.

GERMAN FINANCIAL SITUATION.

[Amounts in millions of marks.]

	:	Reichsbanl	c statistics			Situ	ation of th	e Governn	ent.	
	Res	Reserve.			Darlehns- kassen-	Receipts				Index •
	Gold.	Reichs und Darlehns- kassen- scheine.	Note circula- lation.	Deposits.	scheine in circula- tion.	from taxes and Govern- ment monop- olies.	Floating debt.	3 per cent imperial loan.1	5 per cent war loan.1	of securi- ties prices.2
1913 average	1,068	32	1, 958	668		265		75. 90		
March April	1,091 1,092 1,092 1,092 1,092 1,092 1,092 1,092 1,092	13,972 15,193 15,907	45,170 47,940 50,017	18,498 16,499 17,024 23,414 17,282 15,772 20,054 17,945	13,731 13,776 13,567	2, 072 2, 599		77.00 74.50 67.50	97,20 98.75 98.70	³ 139 ⁴ 133 ⁵ 109
Mây June. July. August	1, 092 1, 092 1, 092	15, 193 15, 907 17, 252 17, 874 18, 686 19, 861 21, 341	47, 940 50, 017 53, 975 55, 969 58, 401 61, 735 63, 596	23, 414 17, 282 15, 772	13, 567 13, 633 13, 328 13, 266 13, 348	2, 599 3, 227 3, 739 3, 635	141, 987 148, 750	62. 90 60. 64 60. 80	98. 30 98. 50 98. 70	6 117 7 140 148
September October November	1,092 1,092	19, 861 21, 341 20, 363	61, 735 63, 596 64, 284	20, 054 17, 945 17, 340	13, 348 13, 024 12, 370	4, 126 5, 121 6, 130	156, 825 161, 920 165, 918	62. 25 66. 25 68. 60	99. 90 99. 00 98. 75	161 172 179
December	1,092	23, 417	68, 806	22, 327	12, 033	9, 103		65.75	98, 90	189
January February March	1, 092 1, 092 1, 092	22, 810 21, 982 23,836	66, 621 67, 427 69, 417	15, 834 17, 357 28, 043	11, 341 10, 755 10, 168			67.00 67.25 67.60	99. 50 99. 75 99. 70	179 155 8 161

¹ Quotations of the Berlin Bourse.
2 Calculated by the Frankfurter Zeitung with the prices of 10 bonds and 25 stocks.
3 As of Apr. 5.
4 As of May 3.
5 As of June 1.
6 As of July 1.
7 As of Aug. 2.
8 As of Apr. 2.

SWEDISH FINANCIAL SITUATION.

[In millions of kronor.]

	Riksba	nk.	Joint stock banks.			Riksl	bank.	Joint stock banks.	
	Gold coin and bullion.	Note circula- tion.	Bills dis- counted with the Riks- bank.	Loans and dis- counts.		Gold coin and bullion.	Note circula- tion.	Bills dis- counted with the Riks- bank.	Loans and dis- counts.
1913, end of December 1920, end of: March April May June July August September	261. 1 261. 0 261. 0 261. 1 261. 3	234. 5 741. 6 718. 3 708. 3 736. 5 724. 8 742. 2 779. 8	155. 2 507. 4 497. 7 473. 5 531. 1 514. 2 567. 8 547. 0	2, 286. 9 5, 877. 4 5, 969. 4 5, 998. 6 5, 982. 9 6, 028. 9 6, 007. 4 6, 068. 7	1920, end of—Continued: October. November. December. 1921—January February March April 1.	281, 8 281, 9	772. 8 752. 8 759. 9 672. 5 687. 6 716. 9 680. 5	503. 4 447. 2 451. 3 431. 2 452. 7 445. 7 442. 2	6,079.0 6,117.8 6,211.3 6,172.6 6,119.2 6,093.6 6,065.3

¹ Provisional.

JAPANESE FINANCIAL SITUATION.

[Amounts in millions of yen.]

		Bank o	f Japan.		T	okyo bank	·s.
	Private and Gov- ernment deposits.	Loans and dis- counts.	Note circula- tion.	Specie reserve. ²	Tokyo associated banks, total loans.	Tokyo bank clearings (total within the month).	Average discount rate (Tokyo market).
End of—1 January. February March April May June July August September October November December.	1,146 1,181 1,261 1,209 1,165 1,120 1,202 1,079 1,048	305 336 364 432 445 381 273 278 180 164 128 158	1,375 1,368 1,368 1,367 1,328 1,349 1,202 1,217 1,170 1,192 1,180 1,439	944 937 921 917 930 979 1,011 1,040 1,078 1,117 1,152	1, 929 2, 022 1, 982 1, 982 2, 089 2, 036 2, 029 2, 014 2, 076 2, 133 2, 134 2, 137	3,063 3,532 4,135 3,168 2,922 2,524 2,109 2,139 2,032 2,032 2,302 2,841	Per cent. 9. 38 9. 67 10. 15 10. 62 10. 95 10. 95 10. 80 10. 50 10. 44
January 1921. February	1,071 1,126 81,159	115 103 3 92	1,235 1,141 31,056	1,235 1,141	2,171 2,188 41,852	2,013 2,143 2,502	10. 33 9. 7

In case of Tokyo banks, and note circulation and specie reserve of Bank of Japan, last day of month.

It is generally understood that in recent years a certain portion of the reserve has been held abroad. Specie reserve figures do not include bank's own notes held in the bank.

Mar. 5.

Mar. 26.

CONDITION OF PRINCIPAL EUROPEAN BANKS OF ISSUE.

BANK OF ITALY.

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

[In thousands of dollars.]

	Dec. 31,	Dec. 31,	Dec. 31,	Dec. 31,	Dec. 31,	Dec. 31,	Dec. 31,
	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Assets.							
GoldSilver	215, 810	207, 931	173,639	161,320	157,827	155,331	158, 128
	20, 823	20, 227	14,023	16,870	14,890	14,494	14, 472
Total metallic reserve	236,633	228, 158	187,662	178, 190	172,717	169,825	172,600
foreign, banks of issue. Other cash and cash equivalents. Bills payable in Italy Bills payable in foreign countries, including foreign treas-	11,150	20,112	27,504	34,591	65,322	103,150	85,218
	3,287	2,724	4,971	6,173	8,201	773	547
	136,227	91,430	104,187	146,127	171,159	261,692	609,652
Bills payable, received for collection. Advances, ordinary. Advances to the Government or for account of the Govern-	16,804	4,034	4,016	4,270	60,871	4,163	3,992
	4,648	4,893	3,946	680	2,106	1,730	2,290
	29,181	37,168	59,254	84,222	147,202	263,507	442,773
ment. Securities Debtors in current account:	100, 131	310, 447	353,335	835,136	1,012,260	1,499,991	1,551,087
	39, 486	39, 549	42,414	43,063	39,543	41,045	41,336
In Italy In foreign countries Bank premises In facel account with the Government and provincial	7,725	2,118	2,139	2,404	73,682	71,320	218, 165
	8,195	28,652	74,592	90,309	149,645	148,987	150, 045
	5,364	5,500	5,647	5,462	5,643	5,755	6, 760
administration. Sundry assets	988 33,871	1,703 82,446	$^{1,399}_{141,661}$	18,384 774,237	48,705 452,513	100, 191 512, 651	67, 266 324, 649
Total	633,690	858,934	1,012,727	2,223,248	2,409,569	3,184,780	3,676,380
LIABILITIES.							
Capital. Surplus Extraordinary and special reserves. Circulation:	34,740	34,740	34,740	34,740	34,740	34,740	34,740
	9,264	9,264	9,264	9,264	9,264	9,264	9,264
	2,321	2,321	3,382	5,587	8,998	13,243	15,349
For account of commerce. For account of Government Demand and time deposits. In fiscal account with the Government and provincial	417,353 106,135	276, 299 310, 460 143, 956	394,877 353,335 167,125	426,929 835,136 279,672	767,848 1,012,260 308,155	949,522 1,499,991 402,376	1,428,238 1,551,087 401,743
In useal account with the Government and provincial administration. Sundry liabilities	40,320	21,660	16,648	56,033	51,329	8,651	68,484
	23,557	60,234	33,356	575,887	216,975	266,993	167,475
Total	633,690	858,934	1,012,727	2,223,248	2,409,569	3,184,780	3,676,380
Ratio of metallic reserve to deposit and note liabilities combined, per cent	45. 20	31. 22	20, 50	11.56	8. 27	5. 95	5. 10

BANK OF NORWAY.

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

	Dec. 31, 1914.	Dec. 31, 1915.	Dec. 31, 1916.	Dec. 31, 1917.	Dec. 31, 1918.	Dec. 31, 1919.	Dec. 31, 1920.
ASSETS.							
Gold in vault	10, 290	13, 837	33, 027	31, 193	32, 691	39, 590	39, 472
Total metallic reserve. Held with Scandinavian banks of issue. Held with other foreign agencies Loans and discounts, domestic Foreign bills. Real estate loans Securities. Sundry assets.	10, 290 892 7, 473 32, 066 216 404 2, 402 1, 753	13, 837 4, 191 16, 948 23, 140 83 371 3, 590 651	33, 027 828 21, 227 42, 802 148 337 3, 602 2, 006	31, 193 902 20, 615 109, 822 178 296 3, 508 225	32, 691 866 18, 703 116, 269 64 267 3, 543 288	39, 590 1, 279 19, 140 106, 686 31 244 2, 831 3, 693	39, 472 15, 623 130, 003 11 219 2, 433 11, 120
Total	55, 496	62, 811	103, 977	166, 739	172,691	173, 494	198, 881
LIABILITIES. Capital. Surplus. Notes in circulation Deposits.	5,666	6,700 3,201 43,473 7,309	6,700 3,069 69,105 22,326	9,380 4,654 87,454 60,689	9,380 4,569 116,905 34,178	9,380 4,120 121,747 29,411	9, 380 3, 752 133, 272 35, 721
Sundry liabilities	3,588 55,496 24.72	2, 127 62, 811 27, 25	2,777 103,977 36,12	4, 562 166, 739 21, 06	7, 659 172, 691 21. 64	8, 836 173, 494 26. 19	16, 756 198, 881 23. 36

BANK OF COPENHAGEN (DENMARK).

[From monthly statements of the Bank of Denmark.]

[In thousands of dollars.]

	Dec. 31, 1914.	Dec. 31, 1915.	Dec. 31, 1916.	Dec. 31, 1917.	Dec. 31, 1918.	Dec. 31, 1919.	Dec. 31, 1920.
ASSETS.							
Gold coin and bullion	24,506 908	29,833 829	42 , 847 448	46,611 660	52, 159 654	60, 807 887	60, 992 698
Total metallic reserve. Foreign credits. Danish Government securities Other Danish securities. Foreign Government securities. Notes of and credits with other banks of issue. Domestic bills Foreign bills Loans and discounts. Real estate. Other assets.			43, 295 11, 245 8, 492 1, 641 2, 449 13 15, 335 2, 790 6, 246 664 20, 874	47, 271 12, 038 7, 204 1, 720 2, 311 8 9, 000 2, 655 5, 864 819 41, 119	52, 813 24, 003 4, 463 2, 602 1, 071 7, 933 15, 013 2, 518 6, 566 792 47, 016	61, 694 7, 912 11, 318 3, 094 1, 141 6, 839 47, 411 4, 082 14, 352 814 43, 781	61,690 2,520 9,752 2,872 1,095 8,608 50,317 14,155 828 62,179
Total		<u></u>	113,044	130,009	164,790	202, 438	214, 987
LIABILITIES.			-				
Capital Surplus and special reserves. Notes in circulation. Government deposits. Current account deposits. Other deposits. Due to foreign central banks of issue.	55,376	59,081	7, 236 2, 732 76, 344 918 16, 313 7, 657 1, 532	7, 236 4, 001 90, 547 889 14, 734 11, 671 771	7,236 5,293 120,609 859 26,619 3,928	7, 236 7, 301 131, 145 827 19, 275 36, 279	7, 236 8, 575 149, 197 795 17, 476 31, 452
Profit and loss. Other liabilities.			134 178	134 26	134 112	134 241	134 122
Total Ratio of metallic reserve to deposit and note liabilities combined—percent			113, 044 42. 77	130, 009 40, 11	164, 790 34. 74	202, 438 32, 90	214, 987 31. 01

BANK OF SWEDEN.

[From the Bank of Sweden's year book and weekly statements.]

:	Dec. 31, 1914.	Dec. 31, 1915.	Dec. 31, 1916.	Dec. 31, 1917.	Dec. 31, 1918.	Dec. 31, 1919.	Dec. 31, 1920.
ASSETS.							
Gold coin and bullion	29, 088 506	33,385 572	49, 183 627	65, 515 429	76,532 98	75, 351 272	75, 516 732
Total metallic reserve. Checks and sight drafts, including foreign Current account deposits held abroad Government securities Securities of domestic corporations Bills payable in Sweden Bills payable abroad Advances in current account Other advances Sundry assets	4,489 6,586 805 46,883 11,631 671	33, 957 4, 832 13, 691 13, 978 1, 430 30, 450 24, 426 613 6, 668 17, 142	49, 810 4, 602 10, 471 16, 860 1, 525 32, 595 32, 807 669 14, 177 17, 792	65, 944 6, 756 5, 132 16, 041 1, 485 49, 940 29, 515 374 32, 507 22, 788	76, 630 9, 504 12, 239 14, 638 1, 352 75, 122 18, 892 48, 386 24, 739	75, 623 10, 146 13, 065 12, 959 1, 352 121, 503 17, 950 27, 173 8, 029	76, 248 13, 039 19, 714 3, 403 1, 203 145, 038 8, 397 302 4, 260 1, 091
Total	134, 962	147, 187	181, 308	230, 482	281, 824	288, 169	272,695
LIABILITIES.							
Capital Surplus Deposits Due to foreign banks Notes in circulation Bank orders Dividends due and payable to the Government Sundry liabilities	81, 488 549	13, 400 3, 350 34, 590 2, 668 87, 874 699 2, 348 2, 258	13, 400 3, 350 46, 399 1, 289 111, 895 964 2, 176 1, 835	13, 400 3, 350 52, 916 518 153, 490 2, 364 4, 444	13, 400 3, 350 37, 902 85 218, 027 3, 076	13,400 3,350 57,278 1,344 200,347 2,774	13, 400 3, 350 45, 967 1, 312 203, 647 1, 437
Total. Ratio of metallic reserve to deposit and note liabilities combined, per cent.	134, 962 26. 77	147, 187 27. 73	181, 308 31. 47	230, 482 31. 95	281, 824 29. 94	288, 169 29. 35	272, 695 30. 55

DISCOUNT AND OPEN-MARKET OPERATIONS OF FEDERAL RESERVE BANKS.

DISCOUNTS.

Discount operations of the Federal Reserve Banks during March and February, 1921 and 1920, are shown in summary form for the entire system in the table below. Detailed figures for each Federal Reserve Bank for the most recent month are given on pages 615 to 617.

VOLUME OF DISCOUNT OPERATIONS.
[In thousands of dollars.]

	19	21	199	20
	March.	February.	March.	February.
Total	7, 368, 268	8, 120, 849	6,970,331	6, 517, 439
Secured by Government obligations	3, 549, 797	3,856,306	5, 298, 884	5, 514, 279
secured—Total	3,818,471	4,264,543	1,671,447	973,160
e.s	3,709,669 59,129	4,187,059 46,263	1,613,530	933,557
Live-stock paper Trade acceptances— Total	26,451 11,709	11,806 13,256	23,383	10,992
Domestic Foreign	11,620	12,799 457	20, 800	10, 992
Bankers' accept- ances—Total	11,513	6,159	34,534	28,611
Domestic	4,809 6,704	$2,907 \ 3,752$		
days)	12.38	9.53	13.77	12.26
basis), per cent	6.43	6.41	5.64	5. 52

Discount operations during March aggregated \$7,368,000,000, a decrease of \$753,000,000 from the total of \$8,121,000,000 reported for February, but an increase of \$398,000,000 over the amount shown for March, 1920. Volume of discounts reduced to a daily basis by the method explained in the BULLETIN for April, 1921, page 466, together with average maturity, is shown for each Federal Reserve district for March and for February in the table below:

VOLUME OF DISCOUNTS REDUCED TO DAILY BASIS.

Federal Reserve	Volume coun milli		Average rity (in		Volume on daily basis (in millions).		
Bank,	March.	Feb- ruary.	March.	Feb- ruary.	March.	Feb- ruary.	
All banks	7,368	8, 121	12.38	9. 53	2,943	2,765	
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco.	732 4,272 399 279 299 164 519 154 66 111 74 299	524 5,631 310 381 225 150 387 122 69 91 67 164	8. 86 6. 41 12. 56 14. 74 12. 89 26. 50 41. 13 24. 33 36. 55 32. 86 32. 86 21. 55	7. 89 5. 51 12. 70 9. 40 12. 99 25. 81 33. 50 26. 43 32. 66 30. 79 31. 62 27. 77	209 883 162 133 124 140 689 121 78 118 78 208	148 1,109 140 128 105 138 463 115 81 100 76 162	

It will be noted that, as a result of a large increase in average maturity, namely, from 9.53 to 12.38 days, volume of discounts on the daily basis shows an increase of 6 per cent, in spite of a decrease in the total volume of business of 10 per cent. The greatest increases in average maturity are shown for the Cleveland and Chicago banks, the average for the former having increased from 9.4 days in February to 14.74 days in March, and for the latter from 33.5 days to 41.13 days. Longer average maturities of discounted paper are shown for all the districts, except the Richmond, St. Louis, and San Francisco districts.

Decreases between February and March are noted in the volume of discounts secured by United States obligations, as well as in all other discounts. Of this latter class of paper, commercial paper, n. e. s., shows a decline from \$4,187,000,000 to \$3,710,000,000, while agricultural paper increased from \$46,000,000 to \$59,000,000, and live-stock paper from \$12,000,000 to \$26,000,000. Discounted trade acceptances show a decline from \$13,000,000 to \$12,000,000, while discounted bankers' acceptances increased from \$6,000,000 to \$12,000,000. The rate of discount charged in March was slightly higher on the average than that for February—6.43 per cent as compared with 6.41 per cent.

Following is a summary of holdings of discounted bills at the end of March and February, 1921 and 1920. Detailed figures for each Federal Reserve Bank are shown on page 618.

HOLDINGS OF DISCOUNTED BILLS.
[In thousands of dollars.]

	19	21	1920		
	Mar. 31.	Feb. 28.	Mar. 26.	Feb. 27.	
Total	2, 233, 054	2,389,510	2,449,230	2, 453, 511	
Secured by United States Government obligations. Otherwise secured and un-	970, 911	997,968	1,441,015	1,572,980	
Secured—Total	1,262,143	1,391,542	1,008,215	880, 531	
dustrial paper, n.e.s. Agricultural paper Live-stock paper	1,010,891 140,987 81,693	1,140,826 136,679 83,654	861,848 29,321 45,344	755,750 30,125 37,070	
Trade acceptances— Total	15,520	16,962	20,813	18,508	
Foreign trade Domestic trade	256 15,264	540 16, 422			
Bankers' acceptances— Total	13,052	13, 421	50,889	39,078	
Foreign trade Domestic trade Dollar exchange	8,787 4,183 82	10,335 3,086			

BANKS ACCOMMODATED.

During the month of March 34 banks were added to the membership of the system, the total number of member banks increasing from 9,681 to 9,715. The number of banks accommodated in February was 5,107 and in March 5,332, so that the percentage of banks accommodated was 54.9 per cent in March, as against 52.8 per cent in February, the increases being general throughout the system. The number of member banks in each district at the end of March and of February, and the number and percentage accommodated during each of the two months are shown in the following statement:

Federal Reserve Bank.		r banks strict.	Member accomm	r banks lodated.	Percentage accommodated.		
Bank.	Mar. 31.	Feb. 28.	March.	Feb- ruary.	March.	Feb- ruary.	
Boston. New York. Philadelphia Cleveland. Richmond Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	788 701 875 612 484 1,425 578 1,011 1,094	439 788 701 874 611 472 1, 425 575 1, 005 1, 093 851 847	257 349 330 261 347 355 922 306 589 589 585 570 461	225 316 318 318 237 335 340 908 299 589 561 550 429	58. 9 44. 3 47. 1 29. 8 56. 7 73. 3 64. 7 52. 9 58. 3 56. 7 53. 9	51. 3 40. 6 45. 4 27. 1 54. 8 72. 0 63. 7 52. 0 58. 6 51. 4 64. 6 50. 6	
Total	9, 715	9, 681	5, 332	5, 107	54. 9	52. 8	

ACCEPTANCES.

A summary of open-market operations of the Federal Reserve Banks in March and in February, 1921 and 1920, is shown in the following table:

OPEN-MARKET OPERATIONS.
[In thousands of dollars.]

	19	21	1920		
	March.	Feb- ruary.	March.	Feb- ruary.	
Total	149, 255	169, 456	303, 360	300, 308	
Bankers' acceptances-Total	148,698	167, 362	294, 301	296, 959	
In the domestic trade	31, 362	37,074	57, 350	65, 918	
In the foreign trade	100, 598	115,638	236, 951	228,091	
Dollar exchange	16, 738	14,650	4, 158	2, 950	
Trade acceptances-Total	557	2,094	4, 901	3, 349	
In the domestic trade		15	812	29	
In the foreign trade	557	2,079	4,089	3, 320	
Average maturity (in days)	33.99	36. 98	49.33	50, 50	
Average rate (365-day basis),					
per cent	6.01	6.01	5. 80	5. 53	
United States securities pur-					
chased:					
Bonds			22	5	
Certificates of indebted-					
ness	448, 487	18, 879	1, 496, 388	3 04, 29 6	

Bills purchased in March totaled \$149,000,-000, as against \$169,000,000 the month before and \$303,000,000 in March, 1920. Decreased

totals are shown for all classes of bills purchased, bankers' acceptances declining from \$167,000,000 to \$149,000,000 and trade acceptances from \$2,000,000 to a little over \$500,000. Of the bankers' acceptances purchased in March about two-thirds and of the trade acceptances the entire amount were bills drawn in the foreign trade. The average maturity of acceptances declined from 36.98 days in February to 33.99 days in March, while the average rate of interest remained unchanged at 6.01 per cent.

The following table shows the volume of acceptances purchased by each of the Federal Reserve Banks, reduced to a daily basis:

VOLUME OF OPEN-MARKET PURCHASES REDUCED TO DAILY BASIS.

Federal Reserve Bank.	chase	e of pur- es (in ons).	tur	ge ma- ity ays).	Volume on daily basis (in millions).		
Juna:	Mar.	Feb.	Mar.	Feb.	Mar.	Feb.	
All banks	149	169	33. 99	36, 98	164	224	
Boston	24	23	19. 57	19. 46	15	16	
New York	78	58	29.89	25. 31	75	52	
Philadelphia	.9	11	40. 13	49, 80	12	20	
Cleveland	11	27	44.65	49.50	16	49	
Richmond	3	2	39. 78	37.88	4	2	
Atlanta	(1)	1	70.05	47. 14	1 1	. 1	
Chicago	15	16	57. 27	58.01	28	34	
St. Louis	2	1	21.27	32, 28	1	2	
Minneapolis	(1)		39. 29				
Kansas City Dallas.			*******			•••••	
	(1)		82.90	;:-;:-			
San Francisco	7	30	50.60	45. 54	. 12	48	

¹ Less than \$500,000.

Following is a summary of the holdings of purchased and discounted acceptances at the end of March and of February, 1921:

Holdings of Purchased and Discounted Acceptances.

[In thousands of dollars.]

	End	of—
	March.	February.
All classes	147, 913	199, 804
Purchased in open market	119, 341 28, 572	169, 420 30, 384
Bankers' acceptances—Total. Foreign Domestic.	132, 106 93, 782 28, 224	182, 469 134, 885 37, 072
Dollar exchange Trade acceptances—Total Foreign	10, 100 15, 807 543	10, 512 17, 335 1, 222
Domestic Bankers' acceptances, distributed by classes of accepting institutions: Member banks—	15, 264	16, 113
National Nonnational Nonmember banks and banking corporations	46, 304 28, 745	64,652 40,330
Private banks	23, 736 16, 015 17, 306	37, 561 18, 729 21, 197

It will be noted that the total holdings of acceptances declined from about \$200,000,000 to \$148,000,000 during the month. Of the \$148,000,000 held at the end of March, \$119,-000,000 were purchased in open market and \$29,000,000 were discounted for member banks. Of the total of \$148,000,000 of acceptances held, \$132,000,000 were bankers acceptances held, \$132,000,000 were bankers' acceptances corporations, 12.1 per cent of private banks, and \$16,000,000 were trade acceptances. Of and 13.1 per cent of branches and agencies of the bankers' acceptances, about 71 per cent foreign banks.

were drawn in the foreign trade, while of the trade acceptances all but \$2,000,000 were drawn in the domestic trade. Of the total of \$132,000,000 of bankers' acceptances held, 35 per cent were acceptances of national banks, 21.8 per cent of nonnational member banks, 18 per cent of nonmember banks and banking

VOLUME OF OPERATIONS.

VOLUME OF DISCOUNT AND OPEN-MARKET OPERATIONS DURING MARCH, 1921.

	Bills dis-	Bills bought		ates securities chased.	Total.		
Federal Reserve Bank.	counted for member banks.	in open market.	Bonds and Victory notes.	Certificates of indebtedness.	March, 1921.	March, 1920.	
Boston New York Philadelphila Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	4, 271, 627, 879 399, 243, 410 279, 380, 406 298, 973, 793 163, 603, 783 519, 190, 203 154, 417, 963 66, 495, 192 110, 900, 132 73, 451, 683	78, 089, 389 9, 022, 991 11, 155, 289 2, 665, 401 470, 519 15, 022, 539 1, 599, 984 38, 988 20, 907		281, 578, 557 26, 939, 000 71, 030, 500 6, 000, 000 22, 698, 500 844, 000 16, 500 1, 214, 000 100, 000	\$772, 882, 327 4,631, 295, 825 435, 205, 401 361, 566, 195 307, 639, 194 164, 074, 302 556, 911, 242 156, 861, 947 66, 550, 680 112, 114, 132 73, 572, 590 327, 336, 599	\$493, 475, 209 4, 574, 324, 471 544, 618, 766 484, 519, 424 351, 353, 026 163, 917, 786 911, 114, 648 288, 699, 690 145, 259, 885 178, 502, 098 210, 928, 153 423, 386, 935	
Total: March, 1921. March, 1920. 3 months ending Mar. 31, 1921. 3 months ending Mar. 31, 1920.	23, 746, 878, 928	149, 255, 323 303, 359, 534 440, 979, 807 906, 119, 686	\$22,050 11,800 244,450	448, 487, 057 1, 496, 387, 500 741, 538, 557 2, 443, 059, 000	7, 966, 010, 434 24, 929, 409, 092		

VOLUME OF BILLS DISCOUNTED DURING MARCH, 1921, BY CLASSES OF PAPER; ALSO AVERAGE RATES AND MATURITIES.

	Customer's	Member bank note		Commercial			
Federal Reserve Bank.	cured by Government obligations.	Secured by Government obligations.	Otherwise secured.	paper, n. e. s.	Agricultural paper.	Live-stock paper.	
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	48, 046, 031 17, 767, 127 1, 468, 625 2, 431, 130 5, 387, 167 16, 512, 028 4, 604, 685 469, 755 2, 909, 603	\$417, 741, 200 1, 514, 553, 505 234, 020, 402 218, 453, 307 254, 805, 468 98, 388, 950 243, 338, 073 84, 453, 877 30, 685, 083 73, 893, 339 49, 593, 677 209, 542, 901	\$187,000 538,000 845,300 6,404,200 128,887 9,737,992 58,607 2,420,900 9,409,933	\$297, 030, 160 2, 702, 476, 882 146, 910, 1667, 524 35, 204, 021 52, 389, 759 226, 902, 647 59, 609, 246 17, 796, 710 15, 005, 622 10, 871, 662 64, 073, 047	\$97, 703 581, 356 240, 814 225, 380 4, 881, 691 21, 518, 787 4, 064, 234 5, 147, 620 6, 840, 246 4, 666, 356 5, 427, 138	77, 555 564, 896 3, 138, 211 284, 112 2, 218, 348 11, 357, 394 4, 557, 552	
Total: March, 1921 February, 1921 March, 1920 February, 1920	ì	3, 429, 449, 782 3, 727, 518, 681 5, 109, 371, 143 5, 344, 979, 056	29, 730, 819 22, 571, 562 11, 451, 320 7, 148, 484	3, 679, 937, 806 4, 164, 487, 425	59, 129, 386 46, 262, 837 1, 602, 079, 269 926, 408, 815	26, 451, 094 11, 806, 039	

$\begin{array}{l} \textbf{VOLUME OF BILLS DISCOUNTED DURING MARCH, 1921, BY CLASSES OF PAPER; ALSO AVERAGE RATES AND MATURITIES--Continued.} \end{array}$

	Trade acce	ptances.	Bankers' ac	ceptances.	Total	Average	Average rate
Federal Reserve Bank.	Domestic. Foreign.		Domestic.	Domestic. Foreign.		maturity.	(365-day basis).
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco Total: March, 1921 February, 1921 March, 1920	3, 079, 961 176, 051 1, 388, 818 1, 113, 483 560, 650 1, 052, 948 252, 702 428, 184 802, 307 440, 032 1, 963, 515 11, 620, 251 12, 798, 707	\$72, 805 16, 100 88, 905 456, 920	127, 000 2, 162, 928 49, 000 323, 309 587, 415 11, 500 33, 014	360, 000 585, 671 6, 703, 824 3, 752, 037	\$731, 710, 033 4, 271, 627, 879 399, 243, 410 279, 380, 406 298, 973, 793 163, 603, 783 519, 190, 203 154, 417, 963 66, 495, 192 110, 900, 132 73, 451, 683 299, 273, 577 7, 368, 268, 054 8, 120, 848, 629 6, 970, 330, 977	Days. 8. 86 6. 41 11. 2. 56 14. 74 11. 2. 89 26. 50 41. 13 24. 33 36. 55 32. 86 21. 55 12. 38 9. 53	Per cent. 6.57 6.52 5.67 6.00 6.00 6.39 6.72 5.90 6.78 6.50 6.68 6.00 6.41
February, 1920.	23, 382 10, 991		28, 611		6, 517, 439, 982	13.77	5. 54 5. 52

VOLUME OF BANKERS' AND TRADE ACCEPTANCES PURCHASED DURING MARCH, 1921, BY CLASSES OF PAPER; ALSO AVERAGE RATES AND MATURITIES.

		Bankers' acceptances.				de acceptar	ices.			Average
Federal Reserve Bank.	Foreign.	Domestic.	Dollar exchange bills.	Total.	Foreign.	Domestic.	Total.	Total bills purchased.	A verage matur- ity.	rate (365-day basis).
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis	568, 207 38, 988			\$23, 787, 794 77, 653, 881 9, 022, 991 11, 155, 289 2, 665, 401 470, 519 15, 022, 539 1, 599, 984 38, 988	\$ 435, 508		\$435, 508	2, 665, 401 470, 519	Days. 19. 57 29. 89 40. 13 44. 65 39. 78 70. 05 57. 27 21. 27 39. 29	Per cent. 5. 88 5. 98 5. 99 6. 01 6. 08 7. 10 6. 08 6. 09 5. 96
Kansas City Dallas San Francisco	20, 907 5, 007, 983	1, 688, 679	563, 513	$\substack{20,907\\7,260,175}$	121, 347		121, 347	20, 907 7, 381, 522	82. 90 50. 60	7. 10 6. 04
Total: March, 1921 February, 1921.	100, 598, 340 115, 637, 555	31, 361, 941 37, 074, 502	16, 738, 187 14, 650, 397	148, 698, 468 167, 362, 454	556, 855 2, 078, 542		556, 855 2, 093, 542	149, 255, 323 169, 455, 996	33.99 36.98	6. 01 6. 01
March, 1920 February, 1920.	236, 951, 064 228, 091, 255	57, 350, 003 65, 917, 632	4, 157, 622 2, 950, 000	298, 458, 689 296, 958, 887	4, 089, 335 3, 319, 569	811, 510 29, 312	4, 900, 845 3, 348, 881	303, 359, 534 300, 307, 768	49.33 50.50	5, 80 5, 53

VOLUME OF PAPER DISCOUNTED AND PURCHASED DURING THREE MONTHS ENDING MARCH 31, 1921, BY MATURITIES,

Endamel Degenvo	18	15-day maturities.			30-day maturities.			60-day maturities.		
Federal Reserve Bank.	Discounts.	Acceptances.	Total.	Discounts.	Accept- ances.	Total.	Discounts.	Accept- ances.	Total.	
Boston. New York Philadelphia. Cleveland Richmond Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.		\$43, 320, 245 112, 856, 895 3, 231, 727 7, 897, 423 1, 519, 575 53, 600 18, 797, 223 3, 645, 729	\$1,636,459,801 15,228,981,423 985,562,440 952,945,724 654,254,169 377,831,604 744,610,034 287,391,300 211,243,683 166,726,201 509,799,774	\$26, 712, 057 71, 673, 683 15, 071, 092 15, 282, 526 19, 239, 926 17, 059, 708 84, 233, 672 33, 160, 225 8, 175, 961 9, 059, 155 5, 064, 630 17, 186, 417	\$7,621,412 32,858,523 6,284,239 8,791,205 2,717,370 751,100 6,012,345 25,000 143,125 13,654,238	\$34, 333, 469 104, 532, 206 21, 355, 331 24, 073, 731 21, 957, 296 17, 810, 808 90, 246, 017 33, 160, 225 8, 200, 961 9, 202, 280 5, 064, 630 30, 840, 655	\$74,600,347 69,257,069 16,888,633 28,488,192 38,661,650 35,989,555 221,241,041 53,949,649 22,236,372 25,795,192 17,090,232 44,769,264	\$5, 469, 656 30, 780, 058 5, 436, 448 20, 292, 534 1, 655, 201 847, 314 16, 810, 362 43, 871 13, 988 788, 723	\$80,070,003 100,037,127 22,325,081 48,780,726 40,316,851 36,836,869 238,051,403 53,993,520 22,250,360 26,583,915 17,090,232 61,783,274	
Total	21,701,053,826	194, 865, 419	21, 895, 919, 245	321, 919, 052	78, 858, 557	400,777,609	648, 967, 196	99, 152, 165	748, 119, 361	

VOLUME OF PAPER DISCOUNTED AND PURCHASED DURING THREE MONTHS ENDING MARCH 31, 1921, BY MATURITIES—Continued.

D. L. D.	. 90	-day maturi	ties.	Over	90-day matu	rities.		Total.	
Federal Reserve Bank.	Discounts.	Accept- ances.	Total.	Discounts.	Accept- ances.	Total.	Discounts.	Acceptances.	Total.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago. St. Louis. Minneapolis Kansas City Dallas. San Francisco.	44, 428, 773 62, 921, 427 41, 126, 458 58, 946, 780 275, 740, 169 46, 640, 796 38, 441, 286 39, 477, 793	\$1, 664, 439 19, 762, 380 11, 743, 980 12, 307, 205 1, 400, 900 921, 204 7, 258, 813 791, 126 400, 860 222, 500 20, 907 11, 609, 352	\$58, 562, 494 230, 789, 677 56, 172, 753 75, 228, 632 42, 527, 358 59, 867, 984 282, 998, 982 47, 431, 922 38, 842, 146 39, 700, 293 28, 742, 573 101, 650, 097	87, 746 37, 141 282, 649 1, 307, 104 4, 015, 524 22, 088, 518 2, 812, 178 8, 308, 314 15, 854, 782 14, 966, 628		87, 746 37, 141 282, 649 1, 307, 104 4, 015, 524 22, 088, 518 2, 812, 178 8, 308, 314 15, 854, 782 14, 966, 628	\$1,751,375,731 15,468,170,323 1,058,756,352 1,051,923,095 753,069,732 753,069,732 1,329,116,211 420,308,419 217,375,025 301,430,605 232,569,357 668,994,507	\$58,075,752 196,257,856 26,696,394 49,288,3046 2,573,218 48,878,742 4,480,727 439,848 1,154,348 2,0907 45,820,602	\$1, 809, 451, 483 15, 664, 428, 179 1, 085, 452, 746 1, 101, 211, 462 760, 362, 778 424, 789, 146 217, 814, 873 302, 584, 953 232, 590, 264 714, 815, 109
Total	994, 411, 245	68, 103, 666	1,062,514,911	80, 527, 609		80, 527, 609	23, 746, 878, 928	440, 979, 807	24, 187, 858, 735

VOLUME OF REDISCOUNTS AND SALES OF DISCOUNTED AND PURCHASED PAPER BETWEEN FEDERAL RESERVE BANKS FROM JAN. 1 TO MAR. 31, 1921.

			Redi	scounted o	r sold by I	ederal Re	serve Banl	x of— .		
Discounted or purchased by Federal Reserve Bank of—	New	York.	Rich- mond.	Atla	inta.	Chic	eago.	Minne	eapolis.	Kansas City.
	January.	February.	January.	January.	February.	January.	February.	January.	February.	January.
Boston New York	10, 671		10,000	6, 550	2,000	315		3, 500		•••••
Philadelphia	25, 094	6, 823		4,000 11,400			1,000	1,000 4,000	3,000	9, 008
San Francisco	15, 058 50, 823	6, 823	10,000	21, 950	2,000	315	1,000	8, 500	3,000	9,008
Purchased bills	50, 823	6, 823	10,000	21, 950	2,000	315	1,000	8, 500	3,000	9,008
	Redis	scounted or Reserve	sold by F Bank of—	ederal	Rediscou	nted or sol	d by all F	ederal Res	erve Banks	during—
Discounted or purchased by Federal Reserve Bank of—		Dallas.		San Fran-		1		[1	
				cisco.	-	February.	March.	Total.	Pur-	Dis-
	January.	February.	March.	risco. February.	January.	February.	March.	Total.	Pur- chased bills.	Dis- counted bills.
Boston			March.		January.	2,000	March.	32, 721 340	chased bills.	counted bills.
			March.	February.	January.	2,000	March.	32,721	chased bills.	counted bills.
New York. Philadelphia Cleveland. St. Louis				February.	30, 721 315 5, 000 98, 502	2, 000 25 6, 823 37, 500		32, 721 340 11, 823 169, 002 1, 000	10,671 340 6,823 25,094 1,000	counted bills. 22, 050

HOLDINGS, BY CLASSES.

AVERAGE DAILY HOLDINGS OF EACH CLASS OF EARNING ASSETS, EARNINGS THEREON, AND ANNUAL RATES OF EARNINGS, DURING MARCH, 1921.

	A	verage daily h	oldings of-			Earnings	s on		Annu	al rate of	earning	s on
Federal Reserve Bank.	All classes of earning assets.	Discounted 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 earning assets.	Dis- counted bills.	Pur- chased bills.	United States securi- ties.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kausas City Dallas San Francisco	\$177, 753, 391 884, 540, 680 200, 396, 883 183, 339, 615 127, 059, 014 140, 156, 266 442, 293, 989 105, 686, 223 78, 614, 500 118, 919, 247 77, 910, 037 199, 114, 266	777, 122, 543 152, 192, 403 129, 674, 508 110, 150, 103 122, 357, 549 387, 171, 774 88, 872, 655 70, 016, 000 99, 265, 519 65, 610, 217	37, 721, 615 14, 963, 745, 29, 720, 876 3, 219, 963 1, 016, 571 10, 357, 280 2, 185, 878 2, 500 311, 960 4, 441	69, 696, 522 33, 240, 735 26, 914, 231 13, 688, 948 16, 782, 146 44, 764, 955 14, 627, 690 8, 596, 000 19, 341, 759 12, 295, 379	4, 675, 636 871, 143 872, 955 601, 695 688, 636 2, 326, 283 412, 247 556, 476 365, 624	4, 332, 350 731, 835 670, 434 561, 319 653, 828 2, 192, 179 445, 301 397, 518 519, 289 343, 438	190, 854 76, 122 151, 721 16, 629 6, 121 53, 387 11, 170 1, 880	152, 432 63, 186 50, 300 23, 747 28, 687 80, 714 27, 109 14, 716 35, 307 22, 163	6. 22 5. 11 5. 52 5. 58 5. 79 6. 19 5. 39 6. 17 5. 51	6. 56 5. 66 6. 08 6. 00 6. 29 6. 67 5. 90 6. 68 6. 16	5. 98 6, 01 6. 08 7. 09 6. 07 6. 02 5. 92 7. 10 6. 24	2. 58 2. 23 2. 22 2. 04 2. 01 2. 12 2. 18 2. 02 2. 15 2. 12
Total, March, 1921 February, 1921	2, 735, 784, 111 2, 869, 233, 489	2, 301, 628, 559 2, 408, 791, 923	138, 397, 250 173, 082, 386	295, 758, 302 287, 359, 180	13, 697, 626 13, 022, 158	12, 428, 781 11, 762, 106	706, 155 795, 795					
March, 1920 February, 1920	3, 211, 935, 980 3, 154, 053, 873	2, 386, 536, 669 2, 298, 976, 613	481, 238, 308 546, 457, 974	344, 161, 003 308, 619, 286	13, 906, 323 12, 210, 019	11, 065, 472 9, 487, 201	2, 231, 078 2, 191, 536	609, 775 531, 282				

HOLDINGS ON MAR. 31, 1921, OF DISCOUNTED BILLS, BY CLASSES.

	-	Custom- ers' paper	Member be lateral r					Trade acc	eptances.	Banke	ers' accept	ances.
Federal Reserve Bank.	Total.	secured by Gov- ernment obliga- tions.	Secured by Gov- ernment obligations.	Other- wise secured.	Commercial paper n. e. s.	Agri- cultural paper.	Live- stock paper.	Foreign.	Do- mestic.	Foreign.	Do- mestic.	Dollar exchange
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	149, 334 642, 011 156, 357 134, 536 114, 364 122, 890 427, 569 89, 021 70, 768 100, 096 63, 578 162, 580	22, 306 86, 219 35, 660 5, 549 5, 282 11, 104 21, 632 5, 848 1, 297 4, 320 920 4, 432	42, 548 268, 440 72, 871 53, 442 45, 267 45, 777 107, 036 30, 214 11, 988 30, 690 11, 534 46, 585	20 100 383 372 3,941 114 4,897 5 1,600 4,357	83, 953 276, 713 47, 208 71, 085 52, 744 50, 657 238, 510 43, 630 16, 815 24, 774 13, 646 75, 367	169 492 400 480 8, 838 11, 902 53, 375 7, 033 19, 761 16, 221 12, 402	9 5 199 25 1, 678 607 15, 361 29, 190 18, 936 15, 683	120	349 1, 855 213 1, 760 1, 825 1, 091 2, 895 449 449 1, 170 667 2, 541	6, 938 988 89 90 200	1, 334 933 100 180 926 33 54 623	82
Total Mar. 31, 1921 Feb. 28, 1921 March, 1920. Feb., 1920.	2, 389, 510 2, 449, 230	204, 569 224, 607 359, 106 353, 504	766, 392 773, 361 1, 081, 909 1, 219, 476	15, 789 13, 031 6, 248 3, 744	995, 102 1, 127, 795 855, 600 752, 006	140, 987 136, 679 29, 321 30, 125	81, 693 83, 654 45, 344 37, 070		15, 264 16, 422 813 508	8, 787 10, 335	4, 183 3, 086 50,889 39,078	82

HOLDINGS ON MAR. 31, 1921, OF BANKERS' AND AND TRADE ACCEPTANCES PURCHASED OR DISCOUNTED, BY CLASSES OF ACCEPTANCES.

[In thousands of dollars.]

		All classes.			Bankers' a	cceptances		Trac	le acceptai	nces.
Federal Reserve Bank.	Total.	Pur- chased in open market.	Discounted for member banks.	Total.	Foreign.	Domestic	Dollar exchange bills.	Total.	Foreign.	Domestic
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	4,602 2,111 14,190 3,800	9,684 40,303 13,867 21,910 2,777 711 11,114 2,225 	349 10,127 213 3,680 1,825 1,400 3,076 1,575 649 1,203 721 3,754	9,684 48,542 13,867 23,788 2,777 900 11,295 3,241 200 218 75 17,519	6,750 35,609 10,158 18,015 1,752 328 6,436 1,225 200 180 21 13,108	2,324 8,140 1,484 4,291 1,025 572 4,539 2,016	610 4, 793 2, 225 1, 482 320	349 1,888 213 1,802 1,825 1,211 2,895 559 449 1,170 667 2,779	33 42 120 110	349 1,855 213 1,760 1,825 1,091 2,895 449 449 1,170 667 2,541
Total: Mar. 31, 1921 Feb. 28, 1921	147, 913 199, 804	119,341 169,420	28,572 30,384	132,106 182,469	93,782 134,885	28,224 37,072	10,100 10,512	15,807 17,335	543 1,222	15, 264 16, 113
Purchased in open market:					84, 995 124, 550 8, 787 10, 335	24,041 33,986 4,183 3,086	10,018 10,512 82	287 372 15,520 16,963	287 347 256 875	25 15,264 16,088

HOLDINGS ON MAR. 31, 1921, OF BANKERS' ACCEPTANCES PURCHASED OR DISCOUNTED, BY CLASSES OF ACCEPTING INSTITUTIONS.

		Membe	r banks.	Non- member		Branches
Federal Reserve Bank.	Total.	National.	Non- national.	banks and banking corpora- tions.	Private bankers.	and agencies of foreign banks.
Boston New York Philadelphia Cleveland Richmond	9, 684 48, 542 13, 867 23, 788 2, 777 900	7,114 12,123 3,482 6,522 2,742	2,022 10,339 3,850 5,001	367 10,886 2,739 3,916	69 6,619 1,580 4,831	112 8,575 2,216 3,518
Atlanta. Chicago. St. Louis. Minneapolis. Kansas City	11,295 3,241 200	496 6,828 1,135 200 218	3,747 1,565	426 320	268 10	26 211
Railsas Oty Dallas San Francisco	75 17,519	54 5,390	1,782	5,082	12 2,626	9 2,639
Total:	132,106 182,469	46,304 64,652	28,745 40,330	23,736 37,561	16,015 18,729	17,306 21,197
Purchased in open market: Mar. 31, 1921. Feb. 28, 1921. Discounted for member banks:	119,054 169,048	40, 404 59, 258	25, 464 37, 055	20,653 33,768	15,878 18,458	16,655 20,509
Mar. 31, 1921. Feb. 28, 1921.	13,052 13,421	5, 900 5, 394	3, 281 3, 275	3,083 3,793	137 271	651 688

CHANGES IN CONDITION OF FEDERAL RESERVE BANKS.

Between March 25 and April 22 the Federal Reserve Banks reduced their holdings of discounted paper from \$2,286,700,000 to \$2,113,-900,000, all the banks, except those of Cleveland, Richmond, and Minneapolis, reporting smaller discount holdings at the close of the period than at its beginning. Decreases are shown in practically equal proportions for bills secured by United States Government obligations as well as for other discounted bills, with the result that the proportion of "Government paper" to total discounts held shows but slight fluctuations between 43 per cent and a little over 44 per cent, compared with about 60 per cent the year before. Government credit operations during the period included the purchase in open market before maturity of moderate amounts of Liberty bonds and Treasury certificates, also the redemption on April 15 of about \$100,000,000 of loan certificates, falling due on that date, and the issuance on the same date of about \$190,000,000 of loan certificates. These operations had but little effect on the volume of member bank borrowings from the Federal Reserve Banks, partly for the reason that Reserve Bank rates on paper secured by Treasury certificates in most cases

are at present in excess of the coupon rates of the certificates, and thus no longer act as inducement for the discounting with the Reserve Bank of this class of paper. To judge from the volume of subscriptions received on the more recent offerings and from the gradual decline in the member bank holdings of certificates, the investment demand for these securities was sufficient to absorb the new issues with a minimum amount of temporary assistance of the Federal Reserve Banks. As a matter of fact, Reserve Bank holdings of paper secured by Treasury certificates fluctuated between \$94,500,000 on March 25 and \$68,000,000 on April 15, and following the most recent certificate issue, show an increase of but \$10,300,000 for the last week under review. A reduction for the four weeks of \$51,400,000 in the holdings of paper secured by United States bonds and notes is due largely to Government purchases of Liberty bonds in connection with sinking fund operations.

In the following exhibit, there is given a summary of the weekly changes in the principal asset and liability items of the Federal Reserve

Banks for the four weeks under review:

MOVEMENT OF PRINCIPAL ASSETS AND LIABILITIES OF THE TWELVE FEDERAL RESERVE BANKS COMBINED. [In millions of dollars.]

	Mar. 25.	Apr. 1.	Apr. 8.	Apr. 15.	Apr. 22.
Reserves: Total. Gold	2,422.0	2,461.2	2,481.8	2,485.1	2,492.8
	2,210.8	2,246.4	2,264.0	2,286.9	2,298.1
Bills discounted: Total. Secured by United States Government obligations All other. Bills bought in open market. Certificates of indebtedness.	2,286.7	2,214.6	2,154.7	2,104.6	2,113.9
	1,010.4	950.7	936.0	929.2	942.7
	1,276.3	1,263.9	1,218.7	1,175.4	1,171.2
	123.1	122.5	103.6	119.6	104.5
	256.9	250.4	253.7	253.7	246.7
Total earning assets	2,692.4	2,613.2	2,537.6	2,503.8	2,490.7
Government deposits. Members' reserve deposits. Total deposits. Federal Reserve notes in circulation Federal Reserve Bank notes in circulation—net liability Reserve percentage.	114. 7	82. 1	48. 1	31.1	67. 5
	1, 674. 5	1, 672. 4	1, 661. 9	1,685.5	1, 648. 9
	1, 840. 9	1, 789. 2	1, 745. 3	1,754.9	1, 749. 4
	2, 930. 7	2, 908. 2	2, 894. 0	2,868.5	2, 856. 7
	175. 5	169. 7	167. 2	163.2	159. 6
	50. 8	52. 4	53. 5	53.7	54. 1

Some changes are shown in the distribution of discounted bills by maturities. Thus, 15day paper at the beginning of April declined by over \$75,000,000, or by slightly more than the total decline in discounts shown on that date, though the relative share of shortest-term paper in the total discounts held shows but a slight change from 60 to 59 per cent. A relatively large reduction is shown in the holdings of 90-day paper, while the decline in 30-day lessened supply of these bills, the market, paper was merely proportionate to the total apparently, was able to absorb the new offer-

decline in discounts. Only holdings of 60-day paper show both an absolute and relative gain, the share of this class of paper increasing from 16 to almost 20 per cent of the total discounts held. Six-month paper increased from about \$42,000,000 to \$47,700,000.

A further decline from \$123,000,000 to \$104,500,000 is shown in the holdings of acceptances purchased in open market. With the lessened supply of these bills, the market,

ings without enlisting the assistance of the Federal Reserve Banks. Reduction from \$254,400,000 to \$240,900,000 in the total of so-called "Pittman" certificates held by the banks with the Treasury of the United States to secure Federal Reserve Bank note circulation is due in part to the redemption by the Government of \$10,000,000 of these certificates held as excess collateral by the Boston, New York, Philadelphia, Atlanta, Chicago, and Dallas banks. A further reduction of \$3,500,000 was made in connection with the issuance of silver certificates and the deposit with the Treasury by the New York and Chicago banks of equivalent funds to cover the withdrawals of Federal Reserve Bank note circulation. An increase of \$3,300,000 in other Treasury certificates represents largely the increase in the amount held under repurchase agreements, largely by the New York and Philadelphia As a consequence of the changes shown, total earning assets show a decline of \$201,700,000 for the four weeks under review. and on April 22 stood at \$2,490,700,000, or \$931,200,000 below the peak figure reported on October 15 of last year.

Rediscounting operations are reported by the Richmond and Dallas Federal Reserve Banks. On April 22 the Dallas bank reported \$7,400,000 of bills held under rediscount with the Boston and Cleveland banks, compared with \$14,700,000 held under rediscount with the Cleveland bank four weeks earlier. During the last week under review the Richmond bank rediscounted \$10,000,000 of bills with the New York bank, which no longer appears among the borrowing Federal Reserve Banks. Aggregate contingent liabilities of the Federal

Reserve Banks on bills purchased for foreign correspondents continued unchanged at \$32,400,000.

Total deposits show a decline for the period of \$91,500,000, all classes of deposits, but largely those on Government account, sharing in the decline. Federal Reserve note circulation continued its decline from \$2,930,700,000 to \$2,856,700,000, or at an average weekly rate of \$18,500,000. Between December 23, 1920, and April 22 of the present year, the reduction in Federal Reserve note circulation amounted to \$548,200,000, or to 16 per cent, while as compared with the circulation figures for the corresponding Friday in 1920, a decline of \$211,-600,000, or of 7 per cent, is shown. There is also noted a reduction during the period of \$15,900,000 in the Federal Reserve Banks' net liabilities on Federal Reserve Bank notes, corresponding to a reduction of \$13,500,000 in the amount of Pittman certificates held by the banks as cover for these notes.

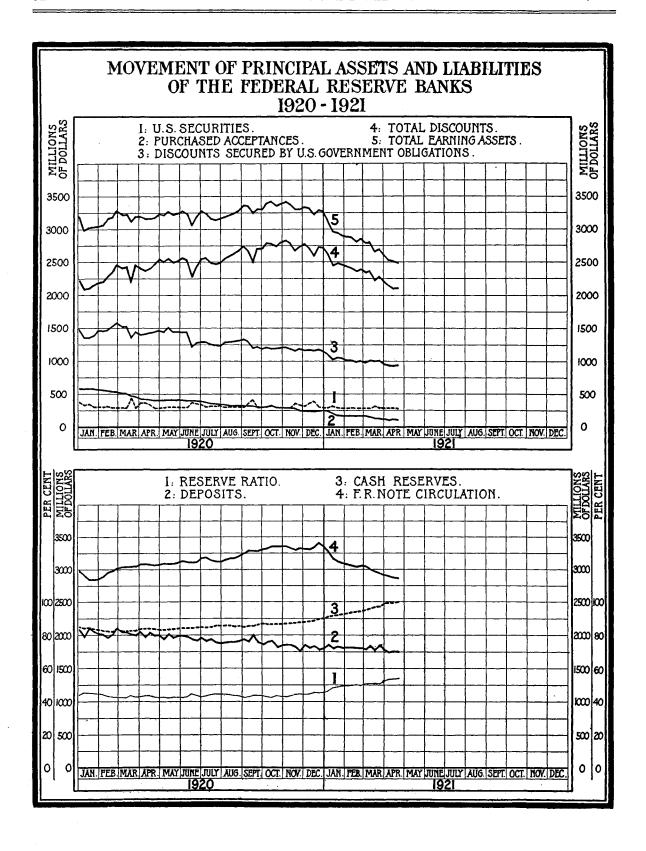
Owing to the continued imports of gold from Europe and the purchase of this gold by the Federal Reserve Banks, gold reserves show a further gain for the period of \$87,300,000. This gain is partially offset by a loss of \$16,500,000 in other reserves, i. e., silver and legals. Since the beginning of the year gold holdings of the Federal Reserve Banks, largely through purchase of imported gold, show a gain of \$235,300,000, while total cash reserves increased during the same period by \$239,100,000. The banks' reserve ratio, owing to the substantial reduction in note and deposit liabilities and the simultaneous gain in cash reserves, shows a steady rise during the review period from 50.8 to 54.1 per cent.

CASH RESERVES, TOTAL DEPOSITS, FEDERAL RESERVE NOTE CIRCULATION, AND RESERVE PERCENTAGES FOR MARCH AND APRIL, 1921.

[Daily averages. Amounts in thousands of dollars.]

Federal Reserve Bank.	Total cast	reserves.	Total d	eposits.	Federal Re in circu	serve notes lation.	Reserve po	ercentage.
200000 2000000	April.	March.	April.	March.	April.	March.	April.	March.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St Louis Minneapolis Kansas City Dallas San Francisco	778, 936 192, 534 286, 271 82, 173 90, 542 337, 832 102, 009 48, 367 73, 171 41, 448	228, 977 661, 950 192, 265 308, 282 95, 992 89, 847 351, 637 101, 513 55, 826 82, 306 44, 141 190, 734	112,520 671,799 106,546 143,834 58,054 48,436 245,052 67,133 46,050 76,644 48,681 124,619	114, 174 678, 428 109, 383 153, 948 62, 004 54, 161 258, 126 69, 555 48, 234 83, 599 122, 919	257, 916 762, 884 235, 260 283, 200 139, 854 155, 675 474, 999 113, 397 66, 748 91, 155 57, 512 232, 045	263, 028 789, 258 247, 776 296, 596 149, 234 159, 336 487, 105 119, 181 70, 073 97, 446 62, 931 237, 522	69. 4 54. 3 56. 3 67. 0 41. 5 44. 4 46. 9 56. 5 42. 9 43. 6 39. 0 54. 5	60. 7 45. 1 53. 8 68. 4 45. 4 42. 1 47. 2 53. 8 47. 2 57. 8 52. 9
Total, 1921	2,485,079 2,084,077 2,224,948	2, 403, 470 2, 058, 293 2, 202, 368	1,749,568 1,998,732 1,878,879	1,808,529 2,032,787 1,951,752	2,870,645 3,071,754 2,547,535	2,979,486 3,040,440 2,503,350	53.8 1 43.0 1 52.0	50. 2 1 42. 7 1 51. 6

¹ Calculated on basis of net deposits and Federal Reserve notes in circulation.



RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON FRIDAYS, APR. 1 TO 22, 1921.

RESOURCES.

													
	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Gold and gold certifi- cates:													
Apr. 1 Apr. 8 Apr. 15 Apr. 22	299, 485 313, 322 327, 637	7,428 7,506 7,598	214, 187 226, 697 240, 265	3,216 3,275 3,294	6,628 6,710 6,759	3,422 3,405 3,419	4,900 5,435 5,508	21,300 21,073 21,155	3,213 3,315 3,351	8,319 8,351 8,377	2,605 2,623 2,636 2,724	6,701 7,040 7,223	17,566 17,892 18,052
fund—Federal Re-	339, 432	7,649	251,345	3,324	6,646	3,403	5,446	21,292	3,369	8,413	2,724	7,255	18,566
serve Board: Apr. 1	497,790 501,061 466,241	36,499 52,963 53,218	131,932 56,688 61,704	59,039 55,231 41,478	73,442 84,000 66,957	20, 192 20, 228 18, 608	12,856 13,667 13,656	62,478 105,539 107,792	20,857 27,185 20,365	17,015 13,756 10,348	27, 161 28, 521	7,210 6,287 4,036	29, 109 39, 996 39, 230 37, 318
		53,467	59, 899	48,813	72, 105	22,982	14,348	103,988	19,822	9,977	28,849 28,001	6,506	37,318
Apr. 1	1,300,345 1,306,949 1,346,558	135,988 157,459 164,784	300,115 299,594 299,077	120,395 128,495 129,555	196,558 196,347 194,920	50,377 45,777 42,537	55, 401 54, 892 64, 213	175, 766 165, 299 177, 730	57,916 57,504 67,400	25,410 26,095 26,266	35,847 35,161 34,520	15,826 19,108 18,158	129,746 121,218 127,398
		172,172	298, 524	115,592	194, 639 6, 024	46,297	60,057	170, 430	63,265	22,484	33,089	16,485	128,782
Apr. 1	148,819 139,678 146,443 159,594	29,279 17,176 19,260 21,211	36,000 36,000 36,000 36,000	8, 454 11, 837 10, 397 15, 150	5,360 5,823 7,425	6,194 9,754 11,897 7,034	7,026 6,897 6,769 7,823	24,948 25,161 31,303 37,983	5,134 5,242 4,061 3,958	2,819 3,908 3,330 3,097	4,901 4,174 4,315 3,346	7,697 4,121 4,768 6,203	10,343 10,048 8,520 10,364
Apr. 1. Apr. 8. Apr. 15. Apr. 22. Legal tender notes,	2,246,439 2,264,010 2,286,879	209, 194 235, 104 244, 860	682,234 618,979 637,046	191,104 198,838 184,724	282,652 292,417 274,459	80, 185 79, 164 76, 461	80, 183 80, 891 90, 146	284, 492 317, 072 337, 980	87, 120 93, 246 95, 177	53,563 52,110 48,321	71,514 70,479 70,320	37,434 36,556 34,185	186, 764 189, 154 193, 200
		254, 499	645,768	182,879	280,815	79,716	87,674	333,693	90,414	43,971	67, 163	36,449	195,030
Apr. 1	214,792 217,824 198,198 194,733	14,790 15,038 15,328 15,907	151,207 151,272 130,428 122,972	3,106 3,027 3,428 4,083	3,319 3,447 3,824 4,080	4,810 4,516 4,231 4,415	4,593 5,129 5,098 5,484	11,976 13,103 13,532 13,964	9,392 10,248 10,276 11,158	532 633 590 554	3,242 3,399 3,366 3,449	5,240 5,329 5,421 6,009	2,585 2,683 2,676 2,658
Total reserves: Apr. 1 Apr. 8	2, 461, 231 2, 481, 834	223, 984 250, 142	833, 441 770, 251	194, 210 201, 865	285, 971 295, 864 278, 283	84, 995 83, 680	84, 776 86, 020	296, 468 330, 175	96, 512 103, 494	54, 095 52, 743 48, 911	74, 756 73, 878	42, 674 41, 885	189, 349 191, 837
Apr. 1	2, 485, 077 2, 492, 804	260, 188 270, 406	767, 474 768, 740	188, 152 186, 962	278, 283 284, 895	80, 692 84, 131	95, 244 93, 158	351, 512 347, 657	105, 453 101, 572	48, 911 44, 525	73, 686 70, 612	39,606 42,458	195, 876 197, 688
Secured by United States Government obligations—													
Apr. 1 Apr. 8 Apr. 15 Apr. 22	936, 021	63, 338 54, 361 46, 770 45, 161	335, 628 342, 653 349, 507 367, 624	106, 646 102, 335 104, 274 108, 198	62, 194 59, 991 63, 038 56, 889	52, 877 49, 688 48, 148 43, 640	56, 571 54, 355 52, 433 52, 893	128, 391 127, 644 123, 798 126, 814	36, 665 35, 993 35, 225 34, 584	13, 118 13, 648 13, 142 15, 368	34, 147 34, 738 33, 450 32, 804	12,774 11,365 9,243 12,645	48, 339 49, 250 50, 158 46, 045
All other—	1	84, 291 69, 371 60, 754	288, 430 304, 324 291, 576	45, 987 29, 698 40, 222	79, 852 77, 751 86, 865	64, 428 65, 454 64, 173	67, 162 64, 053 59, 843	299, 050 270, 348 245, 641	51, 020 48, 513 43, 494	56, 718 58, 548 58, 516	64, 253 64, 895 62, 439	49, 366 51, 887	113, 350 113, 889
Bills bought in open		61, 425	275, 035	36, 035	88, 372	68, 940	63, 402	247, 123	45, 903	59, 166	64, 302	52, 537 52, 187	109, 308 109, 301
Apr. 1	122, 491 103, 607 119, 582 104, 452	9, 431 6, 405 7, 233	42, 185 34, 492 50, 849	14, 57° 15, 6.0 16, 856	21, 596 19, 161 19, 184	2,798 2,243 1,724	711 727 742	12,049 9,298 9,950	2, 225 1, 380 1, 453		69	21 21 25	16,718 14,030 11,497
United States Gov- ernment bonds: Apr. 1	25, 720	6, 866 550	42, 085 1, 255	14,018	17, 520 833	1,825	718	4, 490	784 1, 153	116	8,867	3,979	11, 595
Apr. 8 Apr. 15 Apr. 22 United States Vic-	25, 547 25, 914	550 550 550	1, 255 1, 255 1, 005	1, 434 1, 434 1, 434	834 833 834	1, 233 1, 233 1, 233 1, 233	114 481 621	4, 489 4, 490 4, 490	1, 153 1, 153 1, 153	116 116 116	8,867 8,867	3, 979 3, 979 3, 979	1,523 1,523 1,409
tory notes:	19	5 5			10 10	 	3				1 1		
Apr. 8 Apr. 15 Apr. 22 United States certifi-	19 19 19	5 5			10 10		3 3				1 1		
cates of indebted- ness: One year certifi- cates (Pittman													
Act)— Apr. 1 Apr. 8	247,375 247,375	20,436	56, 276 56, 276	28, 280 28, 280 28, 280	23,799 23,799 23,799	12,260 12,260 12,260	16,664 16,664	38,612	13,068 13,068	8,480 8,480	10,320 10,320	8,300 8,300	10,880 10,880
Apr. 15 Apr. 22 All other—	245,875 240,875	20,436	55,276 55,276	28,280	23,799	12,260	16,664 15,564	38,112 38,112	13,068 13,068	8,480 8,480	10,320 10,320	8,300 4,400	10,880 10,880
Apr. 1 Apr. 8 Apr. 15 Apr. 22	6,303 7,824	352 479	1,424 5,000 5,934 1,860	926 735 874 2,626	125 125	1 1 1	1 1 1 1	77 19 45 108	256 30 45 628	30 31	100	100	2 165 190 142

RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON FRIDAYS, APR. 1 TO 22, 1921—Continued. RESOURCES—Continued. [In thousands of dollars.]

Total certning assets: Apr. 8.					Į.	n thousar	ids of dol	ars.]						
Apr. 1		Total.	Boston.					Atlanta.	Chicago.	St. Louis.			Dallas.	Fran-
Apr. 1	Total corning accets:					-								
Apr 15. 221,002 5,209 4,708 5091 1,738 1,600 750 3,100 100 65 509 2,002 1,807 509 1,707 1,708 1,709 3,100 100 65 509 2,002 1,807 509 1,709	Apr. 1	2,613,183	178,225	725,198	197,845	188,305	133,598	141,225	482,669	104,387	78, 432	117,773	74,540	190,986
Apr 15. 221,002 5,209 4,708 5091 1,738 1,600 750 3,100 100 65 509 2,002 1,807 509 1,707 1,708 1,709 3,100 100 65 509 2,002 1,807 509 1,709	Apr. 8 Apr. 15	2,537,603	136,227	754,397	178, 162	193,854	130,879	130, 167	450,410	94,438	80,792	118,991	74,084	189,737
Apr 15. 221,002 5,209 4,708 5091 1,738 1,500 700 3,100 605 509 2,602 1,807 509 509 509 2,002 1,807 509 509 509 2,002 1,807 509 509 509 2,002 1,807 509 509 509 2,002 1,807 509 509 509 2,002 1,807 509 509 509 2,002 1,807 509 509 509 2,002 1,807 509 509 509 509 2,002 1,807 509 509 509 509 2,002 1,807 509 509 509 509 2,002 1,807 509 509 509 509 509 2,002 1,807 509 509 509 509 509 509 509 509 509 509	Apr. 22	2, 490, 720	134,748	742, 885	190, 591	187,549	127,899	133, 202	425, 638		83, 161	116,319	73,236	179, 372
Apr. 8.	Apr. 1	20,651	3,232	4,708		1,716	1,635		2,828			1,741	1,802	529
Apr. 8.	Apr. 8 Apr. 15	21,002	3,269	4,708		1,733	1,640 $1,752$		2,828 3,106			2,032	1,807	
Apr. 8.	Apr. 22	21,782	3,307			1,802		730				2,052	1,821	
Apr. 8.	fundagainst Federal	•							İ					,
Other Content Conten			1,072	1,916	1,300	1,239	602	664	2,006	523	367	916	586	665
Other Content Conten	Apr. 8	11,647	1,072	1,840	1.300	1,239				523				665
Other Content Conten	Apr. 22.	11,562	1,072	1,812	1,300	1,239		653	1,899	523				
Apr. 1. 6. 672, 485	Unconected Items:		41,898	115,590	49,254	53,860	44, 417	23,565	76,282	29,603	15,907	39,503	26,736	37,700
All officer resources: 1, 200 519 390 14, 524 49, 148 51, 134 34, 406 27, 615 73, 552 29, 855 16, 180 40, 190 27, 171 37, 752 Apr. 8.	Apr. 8	544, 255	38, 255	111,609	50,323	47,851	44,118	22,934	69,829	36,592	15,374	42,039	27,099	38,232
Apr. 8. 11, 404 505 3, 202 572 607 403 683 1,706 507 148 578 1,763 502 Apr. 8. 11,404 505 3, 202 509 605 77 1,706 602 2, 2, 23 578 147 582 1,601 502 Apr. 22. 11,804 505 3, 202 509 605 77 1,706 602 2, 2, 23 578 167 502 1,718 428 Apr. 12. 5,774,564 444,723 1,505 600 427,606 22, 28, 30 508 167 502 1,718 428 Apr. 13. 5,774,564 444,723 1,505 600 427,606 22, 28, 30 50, 30 10,	Apr. 22	550, 950	46,390		49,148			21,615	73,552	29,855		40,190	27,171	37,725
Trigonome Trig	All other resources:	11,200		3,062						567				502
Trigonome Trig	Apr. 8	11,454		3, 252 3, 259					1,782					507 484
Apr. 1. 5, 672, 436 44, 848, 809 1, 683, 915 443, 687 531, 698 286, 740 251, 642 861, 959 222, 218 149, 548 235, 597 444, 221 1, 665, 690 432, 920 421, 507 Apr. 15. 5, 602, 2024 441, 181 1, 607, 223 429, 122 429, 122 52, 429,				3,359			678		2,233					426
Banks: Apr.	Apr. 1	5,672,436	448,930	1,683,915	443,687	531,698	265,740	251,642	861,959	232, 218	149,548	235, 267	148, 101	419,731
Banks: Apr.	Apr. 8 Apr. 15	5,652,524	444, 723	1,635,660	432,690	528,888 535,965	261,628 260,696	246,694 251,069	856, 954	241,930	150,063 146,567	238,438	148,620	421,507 426,242
Banks: Apr.	Apr. 22	5, 580, 128	456, 537	1,636,230	429, 122	527, 433	258, 483	249, 930	854, 085	229, 284	145,069	230,671	146,988	
Banks: Apr.	counted for other	}		l									i	
Capital paid in:	Banks:	ļ					ļ							
Capital paid in:	Apr. 1	14,764				14,764	-			 			•••••	•••••
Capital paid in:	Apr. 15	12, 169	1,500			10,669								
Apr. 1. 101, 137 7, 838 25, 488 8,000 10, 830 5, 321 4, 047 14, 172 4, 437 3, 490 4, 488 4, 132 7, 235 Apr. 1. 101, 231 7, 838 25, 488 8,000 10, 830 5, 323 4, 047 14, 172 4, 437 3, 490 4, 488 4, 132 7, 235 Apr. 1. 101, 224 7, 838 25, 488 8,000 10, 933 5, 532 4, 049 14, 172 4, 437 3, 500 4, 488 4, 132 7, 238 Apr. 1. 101, 224 7, 838 25, 488 8,000 10, 933 5, 532 4, 049 14, 172 4, 437 3, 500 4, 488 4, 132 7, 238 Apr. 1. 101, 224 7, 838 25, 488 8,000 10, 933 5, 532 4, 049 14, 172 4, 437 3, 500 4, 488 4, 132 7, 238 Apr. 1. 101, 231 7, 838 25, 488 8,000 10, 933 5, 532 4, 049 14, 172 4, 437 3, 500 4, 488 4, 132 7, 238 Apr. 22 101, 231 7, 838 25, 488 8,000 10, 933 5, 532 4, 049 14, 172 4, 437 3, 500 4, 475 4, 132 7, 238 Apr. 1. 202, 036 15, 711 56, 414 17, 010 20, 305 10, 561 8, 343 25, 980 8, 346 6, 980 9, 159 6, 033 14, 194 Apr. 1. 202, 036 15, 711 56, 414 17, 010 20, 305 10, 561 8, 343 25, 980 8, 346 6, 980 9, 159 6, 033 14, 194 Apr. 1. 202, 036 15, 711 56, 414 17, 010 20, 305 10, 561 8, 343 25, 980 8, 346 6, 980 9, 159 6, 033 14, 194 Apr. 1. 202, 036 15, 711 56, 414 17, 010 20, 305 10, 561 8, 343 25, 980 8, 346 6, 980 9, 159 6, 033 14, 194 Apr. 1. 202, 036 15, 711 56, 414 17, 010 20, 305 10, 561 8, 343 25, 980 8, 346 6, 980 9, 159 6, 033 14, 194 Apr. 1. 202, 036 15, 711 56, 414 17, 010 20, 305 10, 561 8, 343 25, 980 8, 346 6, 980 9, 159 6, 033 14, 194 Apr. 1. 202, 036 15, 711 56, 414 17, 010 20, 305 10, 561 8, 343 25, 980 8, 346 6, 980 9, 159 6, 033 14, 194 Apr. 1. 202, 036 15, 711 56, 414 17, 010 20, 305 10, 561 8, 343 25, 980 8, 346 6, 980 9, 159 6, 033 14, 194 Apr. 1. 202, 036 15, 711 56, 414	2Includes bankers'	17,457	2,000	10,000		3,437								
Reserve Banks without their indorsement: Apr. 1.	from other Federal		1						l					
Apr. 1	Reserve Banks			Í	1									
Capital paid in: Apr. 1.	dorsement:	1 500		05		501				* 000				
Capital paid in: Apr. 1.	Apr. 8	262		25		171				1,000				16
Capital paid in: Apr. 1.	Apr. 15			25 25		162								16
Capital paid in:		1	<u> </u>		1				<u> </u>	<u> </u>]		<u> </u>	<u></u>
Apr. 1.		,			,	LIAB	ILITIES.							
Apr. 1	Capital paid in:			22 400							[
Apr. 1	Apr. 8	101, 137	7,838	26,488	8,600	10,963	5.328	4,049	14,172	1 <i>4 4</i> 37	3,500	4,488	4,132 4,132	7,225 $7,231$
Apr. 1	Apr. 15	101,274	7,838 7,838	26,488 26,400	8,600	10,963	5,372	4.059	14.172	4,437	3,500	4,475	4,132	7,238
Apr. 1	SHEOMS:						-		1				ĺ	
Apr. 1	Apr. 8	202,036	15,711	56, 414	17,010	20,305	10,561	8,343	28,980	8,346	6,980	9,159	6,033	14,194
Apr. 1	Apr. 15 Apr. 22	202,036	15,711	56,414 56,414	17,010	20,305 20,305	10,561 10,561	8,343 8,343	28,980 28,980	8,346 8,346	6,980 6,980	9,159 9,159	6,033 6,033	14,194 14,194
Apr. 8. 43,003 4,741 5.921 (2,354 4,404 2,046 5,131 6,047 2,578 4,129 2,446 3,707 4,549 Apr. 22 67,483 7,445 18,073 5,488 4,578 4,729 1,430 9,974 3,511 2,320 3,022 3,006 3,907 Due to members—reserve account: Apr. 1. 1,672,402 105,677 659,620 107,870 139,602 55,110 44,598 231,558 61,500 43,755 70,459 44,535 108,118 Apr. 15 1,685,503 107,289 661,184 103,666 139,390 54,095 43,867 240,504 62,062 43,785 71,862 45,115 111,784 Apr. 22 1,648,868 107,857 638,884 101,218 138,823 53,048 44,632 235,794 61,535 42,920 72,817 44,208 107,122 Characteristics: Apr. 1. 34,732 910 15,776 989 743 455 390 2,467 988 492 549 441 10,532 Apr. 15 33,323 791 17,432 880 780 445 365 10,905 389 2,315 695 523 493 401 10,177 Apr. 22 33,010 888 13,695 989 927 539 371 3,485 833 562 970 516 9,205 Total deposits; Apr. 15. 38,323 1,203 18,466 1,097 1,095 505 389 2,699 836 662 790 556 10,026 Apr. 22 33,010 888 13,695 989 927 539 371 3,485 833 562 970 516 9,205	(40) veriament deposits:		,		'			-	1 '					
Apr. 22	Apr. 8	48,053	4,741	5,921	2,354	4,404	2.046	5,131	6,047	2.578	4,129	2,446	3,707	4,549
Due to memoers reserve account: Apr. 1	Apr. 22	67, 483	7,445	18,073	5,488	4,578	1,513 4,729	1,594	9,974	$2,824 \\ 3,511$	$2,020 \\ 2,320$	5,156 3,022	$1,231 \\ 3,006$	6,498 3,907
Apr. 1.	Due to members—			·	i :	, i	'	ĺ	,	_,-	.,,	-,		.,
Cluding foreign government credits: Apr. 1	Anr 1	1,672,402	105,677	659,620	107,870	139,602	55,110	44,598	231,558	61,500	43,755	70,459	44,535	108,118
Cluding foreign government credits: Apr. 1	Apr. 15	1,685,503	107, 289	661,184	103,666	139,390	54,095	43,867	240,504	62,962	44,714	71,862	45,115	112,221 111,784
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Apr. 22 Other deposits, in-	1,648,858	107,857	638,884	101,218	138,823	53,048	44,632	235, 794	61,535	42,920	72,817	44,208	107, 122
Apr. 1. 34,732 910 15,776 989 743 455 390 2,467 988 492 519 441 10,532 Apr. 8. 35,325 791 17,432 880 780 457 369 2,315 695 523 493 401 10,177 Apr. 15. 38,323 1,203 18,466 1,997 1,095 505 389 2,699 836 662 790 555 10,026 Apr. 22. 33,010 888 13,695 989 927 539 371 3,485 833 562 970 516 9,205	cluding foreign gov-													
Apr. S	Apr. 1	34,732		15,776					2,467					10,532
Total deposits:	Apr. 15	35,325 38,323	791 1,203	17,432 18,466	1.097			369 389	2,315 2,699					10,177
Apr. 1 1,789,233 113,452 685,492 112,887 146,451 63,358 52,545 247,781 65,629 48,165 76,978 51,613 121,882 Apr. 8 1,745,316 112,637 654,888 107,286 144,149 58,945 48,722 245,489 67,005 49,366 80,015 49,867 126,947 Apr. 15 1,754,943 108,702 680,283 107,478 143,560 56,113 45,850 246,851 66,622 46,467 77,808 46,901 128,308 Apr. 22 1,749,351 116,190 670,652 107,695 144,328 58,316 46,433 249,253 65,879 45,802 76,809 47,760 120,234	Apr. 22	33,010	888	13,695	989	927		371	3,485					9,205
Apr. 8. 1,745,316 112,637 634,888 107,286 144,149 58,945 48,722 22,54,89 67,005 49,366 80,015 49,867 126,947 Apr. 15. 1,754,943 108,702 680,283 107,478 143,560 56,113 45,850 246,851 66,622 46,467 77,808 46,901 128,308 Apr. 22. 1,749,351 116,190 670,652 107,695 144,328 58,316 46,433 249,253 65,879 45,802 76,809 47,760 120,234	Apr 1	1,789,233	113, 452	685, 492	112,887	146, 451	63,358	52, 545	247,781	65,629	48, 165	76,978	51,613	121,882
Apr. 22	Apr. 8 Apr. 15	1,745,316 1,754,943	112,637 108,702	654,888 680,283	107, 286	144,149 143,560	58,945 56,113	48,722 45,850	245,489 246.851	67,005	49,366 46,467	80,015 77,808	49,867	126,947 128 308
	Apr. 22	1,749,351	116, 190	670,652	107,695	144,328	58,316		249, 253	65,879	45,802	76,809	47, 760	120, 234

RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON FRIDAYS, APR. 1 TO 22, 1921—Continued. LIABILITIES—Continued.

[In thousands of dollars.]

					III (IIIOUSSI	ids of doi							
	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
Federal Reserve notes in actual circula- tion:													-
Apr. 1	2,908,153 2,893,964 2,868,527	258, 547 257, 265 256, 329 259, 859	783, 461 776, 791 762, 173	239, 274 236, 446 235, 815 233, 467	285, 259 286, 863 283, 489 280, 599	142, 953 141, 016 139, 678 138, 832	153, 554 152, 453 158, 648 157, 384	476, 592 478, 326 473, 559 473, 814	116, 103 115, 111 113, 756 112, 183	68, 017 67, 360 66, 545 66, 096	93, 325 92, 460 90, 849	59, 215 58, 607 57, 461	231, 853 231, 266 230, 225
tion—net liability:			756, 071			•				Í	90,019	56, 844	231, 532
Apr. 1	169,722 167,152 163,187 159,590	15,084 15,204 15,329 15,301	26, 544 24, 537 23, 173 22, 056	17,335 16,823 16,117 15,682	20, 995 21, 111 21, 067 21, 039	8,658 8,580 8,489 8,300	13, 488 13, 537 13, 311 13, 059	28, 412 27, 516 26, 475 25, 406	7,037 7,081 7,140 7,055	7,043 7,062 6,985 6,939	11,458 11,316 11,083 11,028	5,496 5,839 5,639 5,594	8, 172 8, 546 8, 379 8, 131
items:	451 270	·	87,750	45, 814 43, 617	44,755	33,032	17,314	56,809		14,066	37,387	19,982	30,078
Apr. 8	445, 108 507, 724 454, 238	35, 384 33, 104 42, 233 38, 502	78, 078 99, 823 84, 941	51,360 43,323	44,755 42,264 53,123 46,598	35, 215 38, 415 34, 887	17,314 17,096 18,279 17,907	53, 095 59, 483 52, 501	28, 899 38, 109 33, 667 29, 398	13, 898 14, 130 13, 704	38, 422 40, 519 36, 448	22, 414 22, 377 24, 816	29,796 34,315 31,213
Apr. 1. Apr. 8. Apr. 15. Apr. 22.	50, 885 52, 993 54, 833 56, 982	2,914 2,964 3,041 3,136	17, 766 18, 464 19, 174 19, 696	2,767 2,908 3,184 3,345	3,053 3,233 3,458 3,609	1,847 1,983 2,068 2,201	2,351 2,494 2,579 2,737	9, 213 9, 376 9, 550 9, 929	1,767 1,841 1,879 1,980	1,778 1,897 1,960 2,049	2,472 2,578 2,597 2,733	1,630 1,728 1,760 1,808	3,327 3,527 3,583 3,759
Apr. 1	5, 672, 436 5, 607, 795 5, 652, 524 5, 580, 128	444,723 449,183	1,683,915 1,635,660 1,667,528 1,636,230	443,687 432,690 439,564 429,122	531, 698 528, 888 535, 965 527, 433	265,740 261,628 260,696 258,483	251,642 246,694 251,069 249,930	861, 959 856, 954 859, 070 854, 085	232, 218 241, 930 235, 847 229, 284	149, 548 150, 063 146, 567 145, 069	235, 267 238, 438 236, 490 230, 671	148, 101 148, 620 144, 303 146, 988	419,731 421,507 426,242 416,296
MEMORANDA.		1	' '	1	,	ĺ	'	<u> </u>			•	, í	,
Ratio of total reserves to deposit and Fed- eral Reserve note liabilities com- bined, per cent:													
Apr. 1	53.5	60. 2 67. 6 71. 3 71. 9	56. 7 53. 8 53. 2 53. 9	55. 1 58. 7 54. 8 54. 8	66. 2 68. 6 65. 2 67. 0	41. 2 41. 8 41. 2 42. 6	41. 1 42. 8 46. 6 45. 7	40. 9 45. 6 48. 8 48. 1	53. 1 56. 8 58. 5 57. 0	46. 6 45. 2 43. 3 39. 8	43. 9 42. 8 43. 7 42. 3	38. 5 38. 6 38. 0 40. 6	53. 1 53. 6 54. 6 56. 2
Contingent liability as indorser on dis- counted paper re- discounted with other Federal Re- serve Banks:]				 	į			
Apr. 1	14, 764							.				14,764	
Apr. 8 Apr. 15	12, 405 12, 169											12,405 12,169	
Apr. 22 Bankers' acceptances sold to other Fed-	17, 437					10,000						7, 437	
eral Reserve Banks without indorse- ment:	1 500		507					1 000					
Apr. 1	1,562 262		537 187			••••••	•••••	1,000					25 25
Apr. 15	203		178										25 25 25 25 25
Apr. 22 Contingent liability on bills purchased for foreign corre-	25												25
spondents: Apr. 1 Apr. 8 Apr. 15	02,009	2,336 2,336 2,336	12, 117 12, 122 12, 113	2,560 2,560 2,560	2,624 2,624 2,624	1,568 1,568 1,568	1,152 1,152 1,152	3,808	1,504 1,504 1,504	864 864 864	1,536 1,536 1,536	832 832 832	1,472 1,472 1,472
Apr. 22	32, 370	2, 336	12, 114	2,560	2,624	1,568	1,152	3,808	1,504	864	1,536	832	1,472

MATURITY DISTRIBUTION OF BILLS AND CERTIFICATES OF INDEBTEDNESS HELD BY ALL FEDERAL RESERVE BANKS COMBINED.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Total.	Within 15 days.	16 to 3 0 days.	31 to 60 days.	61 to 90 days.	Over 90 days.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Apr. 1 Apr. 8 Apr. 15 Apr. 22	2,154,752 2,104,554	1,246,667 1,231,807	217,566 208,163	402, 366 410, 801	248, 446 207, 684 199, 475	46,099 47,733
Apr. 1. 250, 358 6, 959 4, 000 5, 108 7, 722 222, 568 Apr. 8. 253, 678 6, 425 4, 500 4, 563 8, 945 229, 24 Apr. 15. 253, 699 14, 758 2, 052 10, 625 9, 125 217, 13	Apr. 1. Apr. 8. Apr. 15. Apr. 22.	103,607	42,852 35,245 57,335 50,389	32, 125 28, 108 24, 860 22, 921	31, 135 28, 626	8,761	
	United States certificates of indebtedness: Apr. 1 Apr. 8.	250,358 253,678 253,699	6,425	4,000 4,500 2,052	4,563	8,945	226, 569 229, 245 217, 139 223, 369

FEDERAL RESERVE NOTES.

FEDERAL RESERVE AGENTS' ACCOUNTS ON FRIDAYS, APR. 1 TO 22, 1921.

	Total.	Boston.	New York.	Phila- delphia.	Cleve- land.	Rich- mond.	Atlanta.	Chicago.	St. Louis.	Minne- apolis.	Kansas City.	Dallas.	San Fran- cisco.
RESOURCES.													
Federal Reserve notes on hand:							1						
Apr. 1	821, 271 814, 484	106, 410 104, 010	268,001 268,000	28, 540 26, 540	43, 430 42, 270 41, 630 38, 770	28, 229 25, 689	79, 476 75, 805 63, 565	148, 441 153, 200 154, 540	26, 840 28, 320 28, 320	12,765 11,890	4,400 4,600	29, 439 28, 859 28, 759	45, 300 45, 301 45, 300
Apr. 15	802, 823 806, 642	104, 210 100, 610	268, 000 268, 000	28, 540 24, 420	41,630 38,770	24, 089 25, 108	63, 565 78, 815	154, 540 155, 060	28,320 27,520	12,130 11,700	3,740 4,600	28,759 28,339	45, 300 43, 700
Federal Reserve notes outstanding:	3 263, 111	271,565	918, 095	263,943	315, 146	149 221	159 045	520, 640	139 099	70, 336	102 204	63 847	289 976
Apr. 1	3, 246, 061 3, 224, 111	270, 436 270, 561	920, 431 901, 637 887, 757	261, 043 259, 103 257, 259	315, 146 313, 895 310, 508	149, 221 147, 162 146, 242	159,045 160,206 169,767	514, 014 513, 745	139, 099 138, 509 136, 904	69, 896 68, 827	102, 204 101, 318 100, 536	63, 847 62, 709 61, 859	289, 970 286, 442 284, 422
Apr. 22 Collateral security for	3, 198, 002	273, 049	887,757	257, 259	309, 287	145, 982	166, 861	511, 845	134,669	68, 275	100,006	60,606	282, 400
notes outstanding: Gold and gold			•										
certificates— Apr. 1	233, 853	5,600	176, 925	ļ	23,775		3,500		6, 110	13,052		4,891	
Apr. 8 Apr. 15	233, 852 233, 852	5,600 5,600	176, 924 176, 924		23,775 23,775 23,775		3,500 3,500		6,110 6,110	13, 052 13, 052		4,891 4,891	
Apr. 22 Gold redemption fund—	233, 853	5,600	176, 925		23, 775		3,500	••••••	6, 110	13,052		4,891	
Apr. 1 Apr. 8	106, 157 120, 988	15,388 21,859	7, 190 16, 670	13,006 13,106	17,783 17,572	3,877 2,277	2,401 3,392	15, 121 14, 655	2,475 4,164	2,158 2,843	3, 487 3, 801	4,701 4,983	18,570 15,666
Apr. 15 Apr. 22 Gold settlement	111,570 104,409	19, 184 16, 572	16, 153 15, 599	12, 166 11, 203	16, 145 15, 864	2,037 1,797	4, 713 3, 557	14, 085 14, 786	4, 559 3, 524	3, 014 3, 232	2, 160 2, 729	4, 033 4, 360	13,321 11,186
fund-Federal Reserve Board-		•											
Apr. 1 Apr. 8	1 952, 109	115,000 130,000	116,000 106,000	107, 389 115, 389	155,000 155,000	46,500 43,500	49,500 48,000	160, 645 150, 644	49, 331 47, 230 56, 731	10, 200 10, 200	33,360 31,360	6, 234 9, 234	111, 176 105, 552
Apr. 15 Apr. 22 Eligible paper—	1,001,136 983,554	140,000 150,000	106,000 106,000	117,389 104,389	155,000 155,000	40,500 44,500	56,000 53,000	163, 645 155, 644	56, 731 53, 631	10, 200 6, 200	32, 360 30, 360	9, 234 7, 234	114, 077 117, 596
Amount re-													
Apr. 1 Apr. 8	1, 962, 766 1, 939, 112 1, 877, 553 1, 876, 186	135, 577 112, 977	617, 980 620, 837	143, 548 132, 548	118,588 117,548	98, 844 101, 385	103, 644 105, 314	344, 874 348, 715	81, 183 81, 005	44, 926 43, 801	65,357 66,157	48, 021 43, 601	160, 224 165, 224
Apr. 15 Apr. 22 Excessamount	1,877,553 1,876,186	105,777 100,877	602, 560 589, 233	129, 548 141, 667	115,588 114,648	103, 705 99, 685	105, 554 106, 804	336, 015 341, 415	69, 504 71, 404	42, 561 45, 791	66,016 66,917	43, 701 44, 121	157, 024 153, 624
held— Apr. 1	315,696	21, 483	18,953	2,324 5,040	44,448	17,037	20,790	94,328	8,666	23,727	33, 187	13,741	17,012
Apr. 8 Apr. 15 Apr. 22	296, 452	17,160 8,980 12,575	32, 948 57, 792 61, 933	19, 332	39, 012 52, 991 47, 745	15, 149 7, 909	13, 805 7, 455	58,569 43,234 41,372	4,869 10,660	23,727 27,467 28,167 27,810	33,571 29,926	19,169 17,611	10,668 12,395
Total resources:	1	1 1		4, 296 558, 750	718, 170	11,065 343,708	10, 196 418, 356	1, 284, 049	9, 817 313, 704	177, 164	30, 150 241, 995	20, 317 170, 874	12,023 642,252
Apr. 1 Apr. 8 Apr. 15 Apr. 22	7, 584, 033 7, 547, 497	662,042 654,312	2, 123, 144 2, 141, 810 2, 129, 066	553,666 566,078	709,072 715,637	335, 162 324, 482	410,022 410,554	1, 239, 797 1, 225, 264	310, 207 312, 788	179, 149 177, 951	240, 807 234, 738	173, 446 170, 088	628,853 626,539
Apr. 22	7, 491, 945	659, 283	2, 105, 447	543, 234	705, 089	328, 137	422, 733	1, 220, 122	306,675	176,060	234, 762	169, 868	620, 535
Net amount of Fed-													
eral Reserve notes received from Comptroller of the													ļ
Currêney:	4, 084, 382	377, 975	1, 186, 096	292, 483	358, 576	177, 450	238, 521	669,081	165, 939	83, 101	106,604	93, 286	335, 270
Apr. 1	4,060,545 4,026,934	374, 446 374, 771	1, 188, 431 1, 169, 637	292, 483 287, 583 287, 643	356, 165 352, 138	172,851 170,331	236, 011 233, 332	667, 214 668, 285	166, 829 165, 224	81,786 80,957	105, 918 104, 276	91,568 90,618	335, 270 331, 743 329, 722
Collateral received from Federal Re-	4,004,644	373,659	1, 155, 757	281,679	348,057	171, 090	245,676	666,905	162, 189	79,975	104,606	88,945	326, 106
serve Bank: Gold—													
Apr. 1 Apr. 8	1,300,345	135, 988 157, 459	300, 115 299, 594	120, 395 128, 495	196, 558 196, 347	50,377 45,777	55, 401 54, 892	175, 766 165, 299 177, 730	57, 916 57, 504	25, 410 26, 095	36, 847 35, 161	15,826 19,108	129, 746 121, 218
Apr. 15 Apr. 22 Eligible paper—	1,321,816	164, 784 172, 172	299, 077 298, 524	129, 555 115, 592	194, 920 194, 639	42,537 46,297	64, 213 60, 057	177, 730 170, 430	67, 400 63, 265	26, 266 22, 484	34, 520 33, 089	18,158 16,485	127, 398 128, 782
Apr. 1	2, 278, 462 2, 216, 539	157, 060 130, 137	636, 933 653, 785	145, 872 137, 588	163,036 156,560	115, 881 116, 534	124, 434 119, 119	439, 202 407, 284	89, 849 85, 874	68,653 71,268	98, 544 99, 728	61,762 62,770	177, 236 175, 892
Apr. 15	2, 174, 005 2, 165, 485	114, 757 113, 452	660, 352 651, 166	148, 880 145, 963	168, 579 162, 393	111,614 110,750	113,009 117,000	379, 249 382, 787	80, 164 81, 221	70, 728 73, 601	95, 942 97, 067	62,770 61,312 64,438	169, 419 165, 647
Total liabilities: Apr. 1	7, 663, 189	671,023 662,042	2, 123, 144 2, 141, 810	558, 750 553, 666	718, 170 709, 072	343, 708 335, 162	418, 356 410, 022	1, 284, 049 1, 239, 797	313, 704 310, 207	177, 164 179 149	241, 995 240, 807	170, 874 173, 446	642, 252 628, 853
Apr. 15 Apr. 22	7, 547, 497	654, 312	2, 141, 810 2, 129, 066 2, 105, 447	553,666 566,078 543,234	715, 637 705, 089	324, 482 328, 137	410,554	1, 225, 264 1, 220, 122	310, 207 312, 788 306, 675	179,149 177,951 176,060	234,738	170, 088 169, 868	628, 853 626, 539 620, 538

INTERDISTRICT MOVEMENT OF FEDERAL RESERVE NOTES DURING THREE MONTHS ENDING MAR. 31, 1921.

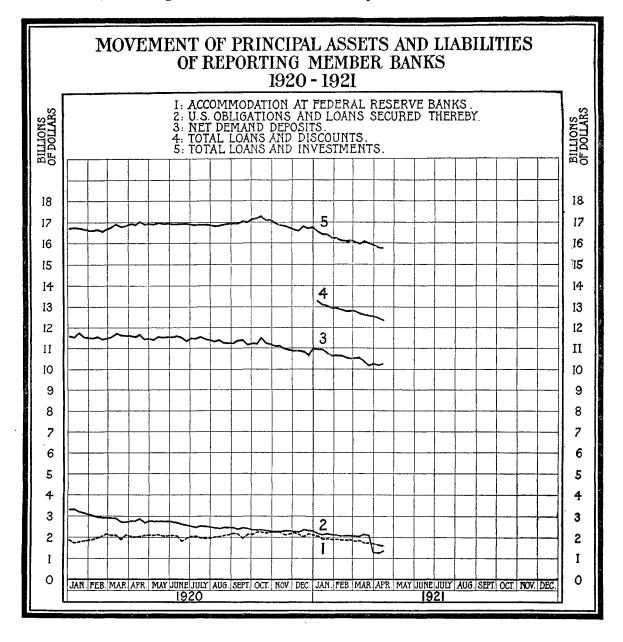
Tn	thousande	of dollars.1	
111	uiousanus	oi uonais. i	

								·									
Federal Reserve	Во	ston.		New	York	. F	hilad	lelphia.		Clev	eland.	Ric	hmond.	At	lanta.	Chi	cago.
Bank from which received or to which returned.	Re- ceived.	Re- turne	I. cei	Re- ved.	Return	e- I ied. cei	te- ved.	Re- turne		Re- eived.	Re- turned	Re- ceived	Re- turned	Re- ceived.	Re- turned.	Re- ceived.	Re- turned.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	22, 397 1, 755 1, 169 1, 318 1, 111 1, 691 20 227 223 830	12,74 1,68 99 1,24 75 1,46 21 15 30 39	2 7 14 7 7 0 4 5 5 1 6 1 1 0 1 1 1	,897 ,353 ,666 ,833 ,672 ,618 ,822 ,571 ,085 ,460 ,577	9, 17, 2, 1, 2, 2,	809 286 5 988 3 678 1	700 647 308 631 314 512 540 114 259 264 660	1,75 14,28 4,23 3,45 1,00 1,73 26 12 43 38 32	34 31 1 31 1 31 1 32 1 33 1 34 1 35 1 37 1 38 1 38 1 39 1 30 1 31 1 32 1 33 1 34 1 35 1 36 1 37 1 38 1 38	1,012 7,893 4,307 2,694 2,748 7,104 2,505 310 679 552 1,247	94 5,37 3,53 3,33 96 5,77 66 29 56 37 35	8 8,453 1 3,376 2 4,719 25 5 2,732 0 1,101 6 566 8 76 8 208	3, 920 1, 467 3, 920 1, 467 397 100 100 100 100 100 100 100 100 100 10	8,478 1,024 1,389 3,926 1,449 2,024 103 422	1,089 5,543 1,311 2,670 2,742 3,413 3,954 233 719 2,429 521	1, 480 16, 234 1, 785 8, 727 1, 458 3, 462 10, 763 3, 903 3, 916 1, 569 4, 693	1,551 6,705 1,616 7,033 1,112 1,497 4,326 4,633 3,287 943 2,361
Total: Jan. 1 to Mar. 31, 1921. Jan. 1 to Mar. 31, 1920. Jan. 1 to Mar. 31, 1919. Jan. 1 to Mar. 31, 1919. Jan. 1 to Mar.	31,209 20,080 11,816 3,619	20, 32 17, 73 22, 27 5, 28	1 54 5 59	, 557 , 912 , 635 , 767	115, 77, 62, 21,	681 29, 806 17,	952 113 071 734	28,01 22,08 26,90 10,62	30 2 99 2	1,051 25,923 22,779 6,357	22, 196 15, 68 17, 64 2, 44	4 17,762 9 18,773	17,366 23,430	15,921 12,995	24,624 19,868 15,745 6,721	57,990 45,941 34,432 8,653	35, 094 31, 055 28, 435 8, 715
Federal Reserve E which received or returned.		ch	St. I	ouis. Return		Minn Re- ceived.	R		Ka Re- ceive		Re-	Dal Re- ceived.	Re- turned.	San Fra Re- ceived.	Re- turned.	Re- ceived.	Re- turned.
Boston. New York. Philadelphia. Cleveland. Richmond. Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.			211 2,000 269 4,489 401 8,980 2,250 215 2,050 382 806	1, 2, 1, 10, 3, 1,	374 795 532 362 555 941 550 461 019 890 714	152 1,616 129 419 98 235 4,640 462 842 221 1,467		115 588 107 307 73 97 ,223 227 667 96 ,451	1, 9: 4: 7: 9: 7: 3, 2: 3, 0:	37 771 926 31 966 937 993	229 1,063 261 671 208 425 3,777 1,974 842 1,782 1,782	451 1,935 393 539 615 2,293 951 1,892 100 1,775	220 1,424 257 501 278 1,461 1,462 1,367 1,88 2,078	407 4,391 325 512 194 528 2,337 729 1,293 1,720 2,314	849 3,551 655 1,259 418 717 4,316 781 1,529 2,327 1,213	20, 617 108, 966 28, 153 32, 708 20, 127 24, 816 34, 929 24, 708 7, 401 13, 183 11, 937 17, 903	32, 261 57, 897 38, 417 40, 033 22, 437 22, 464 55, 669 16, 365 10, 170 16, 577 12, 354 14, 530
Total: Jan. 1 to Mar. 31 Jan. 1 to Mar. 31 Jan. 1 to Mar. 31 Jan. 1 to Mar. 31	, 1920 , 1919	11	7,063 5,743 2,071 3,063	23, 17.	193 667 087 684	10, 281 11, 184 9, 926 3, 455	6	, 951 , 737 , 733 523	16, 5 13, 9 13, 7 12, 4	975 1 700	12,957 12,467 6,675 2,526	12, 163 8, 595 5, 892 3, 124	10,911 6,725 5,017 2,832	14,750 12,802 7,426 2,696	17,615 14,575 10,988 1,688	345, 448 271, 951 226, 516 80, 658	339, 174 265, 636 242, 749 73, 670

CONDITION OF MEMBER BANKS IN LEADING CITIES.

Credit liquidation as indicated by reductions of \$265,000,000 for the period. Commenin loans and discounts of the member banks in surate decreases in deposit liabilities and in leading cities reporting weekly to the Federal Reserve Board, continued uninterruptedly for the four weeks ending April 15. Total loans of these banks were \$12,365,000,000 on that date, compared with \$12,630,000,000 four weeks earlier, indicating a reduction in loans summary for the most recent five weeks.

accommodation at the Federal Reserve Banks are noted.



MOVEMENT OF PRINCIPAL ASSETS AND LIABILITIES OF REPORTING MEMBER BANKS.

[In millions of dollars.]

	March 18.	March 25.	April 1.	April 8.	April 15.
Number of reporting banks Loans and discounts: 1	824	823	822	821	820
Secured by United States Government obligations. Secured by Stocks and bonds (other than United States Government obligations). All other	761 3,015 8,854	760 3,011 8,828	755 3,028 8,776.	752 2, 982 8, 731	740 2,961 8,664
Total loans and discounts¹- United States bonds. United States Victory notes. United States certificates of indebtedness. Other bonds, stocks, and securities.	866 192 339	12,599 875 192 275 2,042	12,559 871 190 231 2,052	12, 465 872 191 218 2, 031	12,365 874 191 287 2,039
Total loans and discounts, and investments 1	16,076	15, 983	15,903	15,777	15, 756
Reserve balance with Federal Reserve Bank Cash in vault. Net demand deposits. Time deposits Government deposits.	321 10,376	1, 260 315 10, 186 2, 932 329	1, 263 300 10, 271 2, 925 326	1, 252 317 10, 204 2, 923 304	1,270 308 10,263 2,924 329
Bills payable and rediscounts with Federal Reserve Bank, total. Secured by United States Government obligations. All other. Ratio of accommodation at Federal Reserve Banks to total loans and investments.	769 950	1,764 772 992 11.0	1,685 709 976 10.6	1,630 696 934 10.3	1,581 694 887 10.0

¹ Including bills rediscounted with Federal Reserve Bank.

Liquidation is shown for all classes of loans those secured by United States Government obligations declined from \$761,000,000 on March 18 to \$740,000,000 on April 15; those secured by stocks and bonds declined from \$3,015,000,000 to \$2,961,000,000, and all other loans, representing largely commercial paper, show a reduction from \$8,854,000,000 to \$8,664,000,000. This reduction of \$190,000,000 in commercial loans constitutes over 70 per cent of the total loan liquidation for the four weeks.

Member bank holdings of United States bonds fluctuated somewhat from week to week and stood at \$874,000,000 on April 15, compared with \$866,000,000 four weeks earlier. Holdings of Victory notes remained practically constant throughout the period, while Treasury certificates on hand followed the usual course by showing reductions for the three weeks after the allotment of the March 15 issue and an increase on April 15 when a new issue was floated. For the period as a whole, Treasury certificates show a reduction of \$52,000,000. Comparatively slight fluctuations in holdings of other bonds, stocks, and securities resulted in a reduction of \$10,000,000 for the four weeks under review. As a consequence of all these changes, total loans and investments of all reporting banks show an uninterrupted decline for each week of the period under review and stood on April 15 at \$15,756,000,000, or \$320,000,000 below the March 18 amount. For the six months period since October 15, when reporting member bank loans and investments stood

gregate reduction under this head amounts to \$1,528,000,000, or approximately at the rate of \$60,000,000 per week.

Accommodation of member banks at the Federal Reserve Banks shows a decline for the four-week period from \$1,719,000,000 to \$1,581,000,000, and the ratio of accommodation declined from 10.7 to 10.0 per cent. For the member banks in New York City a total reduction of \$155,000,000 in loans and investments is shown between March 18 and April At the same time their accommodation 15. at Federal Reserve Banks declined from \$651,000,000 to \$552,000,000, and the ratio of accommodation declined from 12.4 to 10.8 per cent.

Government deposits, which amounted to \$348,000,000 on March 18, the first Friday after the Treasury transactions in connection with the March 15 income-tax payments, declined to \$304,000,000 on April 8, but increased to \$329,000,000 by April 15, largely as a result of the allotment on that date of a new issue of Treasury certificates. Other demand deposits (net) showed considerable fluctuations for the period, but stood on April 15 about \$113.000.000 below the March 18 amount. A decrease of \$2,000,000 in time deposits is noted for the period. Reserve balances of member banks with the Federal Reserve Banks showed comparatively slight changes, the April 15 amount being \$18,000,000 in excess of the figure for March 18. Cash in vault declined from \$321,000,000 at the beginning to at the peak figures of \$17,284,000,000, the ag- \$308,000,000 at the end of the review period.

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

	Total.	Boston.	New York.	Phila- del- phia.	Cleve- land.	Rich- mond.	Atlan- ta.	Chica- go.	St. Louis.	Min- neapo- lis.	Kan- sas City.	Dallas.	San Fran- cisco.
Number of reporting banks: Mar. 25	823 822 821 820	49 49 49 49	113 112 112 112	58 58 58 58	88 88 88 88	84 84 83 83	43 43 43 43	113 113 113 113	37 37 37 37 37	35 35 35 35	82 82 82 82 81	52	69 69 69
tions— Mar. 25	759, 917 755, 451 752, 056 740, 055	40, 136	337, 568 338, 736	68, 829 68, 113	63, 165 63, 504	27, 869 28, 577 28, 417 26, 990	24,037 23,964	92,724 92,922 92,561 90,105	22, 623 23, 667 23, 480 23, 596	13, 428 13, 243 13, 166 13, 231	22,206	7,906 7,730 7,789 7,627	29,578 29,088 29,620 29,229
ment obligations)— Mar. 25. Apr. 1. Apr. 8. Apr. 15. All other—	3,011,152 3,027,935 2,981,939 2,960,944	194, 086 194, 103 189, 674 186, 802	1,222,797 1,242,761 1,233,643 1,220,512		347, 898 347, 786 349, 049	112,505 116,664 112,361 112,174	56, 186 55, 460 55, 485	432, 181 426, 308 426, 961	120, 765 120, 993 120, 513 121, 516	48, 223 28, 695 29, 695	73,945 74,730 69,513	37,456 37,606 37,639	150, 380 150, 604 150, 828 148, 713
Mar. 25	8,827,750 8,775,553 8,730,694 8,663,590	652, 102 650, 530 644, 495 637, 175	3, 087, 365 3, 055, 694 3, 039, 621 3, 012, 644	$ 406,774 \\ 398,608$	699, 223	334, 210 335, 069 336, 380 335, 307	323, 617 318, 942 314, 322 313, 285	1,353,775 1,354,552 1,337,979 1,321,327	335, 175 330, 417 328, 774 322, 528	220, 141 222, 453 239, 764 236, 762	398,804 398,047	221, 141	781,923 781,954 781,083 777,599
eral Reserve Bank— Mar. 25. Apr. 1. Apr. 8. Apr. 8. Apr. 15. United States bonds:	12, 598, 819 12, 558, 939 12, 464, 689 12, 364, 589	891, 181 889, 052 874, 305 863, 341	4, 649, 240 4, 636, 023 4, 612, 000 4, 566, 640	685, 033 682, 524 671, 056 673, 384	1, 118, 029 1, 110, 286 1, 100, 916 1, 102, 590	474, 584 480, 310 477, 158 474, 471	405, 934 399, 165 393, 746 391, 618	1,885,341 1,879,655 1,856,848 1,838,393	478, 563 475, 077 472, 767 467, 640	283, 402 283, 919 281, 625 279, 688	495, 347	266,327 267,390	961,881 961,646 961,531 955,541
Apr. 1. Apr. 15. United States Victory potes:	870, 776 871, 735 874, 117	33, 041 32, 993 33, 183	301, 369 300, 557 304, 606 305, 293	44,068 44,144	97, 141 95, 908 97, 407	60, 571 60, 587 60, 904	39,570 39,758 39,498	77, 455 77, 628 76, 891 77, 150	28, 226 28, 221	16,795 16,684	35, 988 35, 192 34, 554	37,016	99,751
Mar. 25	192,687 190,199 191,377 190,891	6,028	83, 121 82, 889 82, 303 82, 521	10,099 10,072 10,119 10,025	20,466 20,277	7,702 7,711 7,719 7,193	3,094 3,105	34, 923 33, 346 34, 846 34, 373	2,221 $2,105$	1,247 1,243 1,238 1,209	3,660 3,179 3,083 2,957	1,895 1,835	18,006 18,059 18,719 19,067
Mar. 25		11,046	121,625	23, 444 14, 793 15, 881 21, 846	16, 059 13, 773	6, 138 4, 479	1,915 1,841	31, 016 26, 055 27, 362 39, 671	1, 152 735	3, 234 1, 602 952 4, 408	6, 399	2,303	15, 671 15, 206
Mar. 25	2, 041, 780 2, 051, 418 2, 030, 769 2, 039, 525	123, 807 123, 868	738, 506	156, 058 156, 322 155, 665 156, 172	281,663 281,946	52, 100 48, 941	36, 395 36, 123	339, 070 341, 921 339, 950 340, 432	65, 519 65, 690	19, 659 19, 351	53, 351 52, 771	10, 552 10, 731 10, 965 9, 099	171, 450 171, 444 166, 470 172, 791
Federal Reserve Bank: Mar. 25	15,902,713 15,776,904 15,755,648		5,911,471 5,889,427 5,849,563 5,835,356	918, 350 907, 779 896, 865 905, 883	1,540,084 1,525,615 1,512,820 1,522,034	603, 591 606, 830 598, 884 598, 717	484, 244 480, 139 474, 573 472, 310	2,367,805 2,358,605 2,335,897 2,330,019	578, 306 572, 636 569, 523 566, 496	324, 056 323, 107 319, 961 321, 363	591, 251 590, 818	318, 160	1,267,765 1,266,194 1,261,835 1,266,797
Mar. 25	1, 259, 573 1, 263, 106 1, 251, 801 1, 269, 570	73, 128 72, 211 74, 080 73, 450	606, 053	69, 713 65, 061 65, 425	93, 169 94, 215	33, 348 35, 035		169, 572 175, 433 177, 934	40, 138 42, 323 40, 838	19, 475 20, 384 18, 786	39, 885 46, 942 40, 474	20, 794 21, 704 21, 241	77, 195 70, 797 74, 220 72, 790
Mar. 25	314, 764 300, 469 316, 684 307, 943	21, 904 21, 256 21, 846 20, 874	104, 734	1	29, 403 28, 626 29, 508 28, 563	14, 049 14, 479 15, 515	10, 224	51,480	0,440	6,576	12, 309 12, 943 12, 270		23, 264 24, 181 23, 271
Apr. 1. Apr. 8. Apr. 15.	10,185,727 10,270,573 10,204,045 10,263,390	705, 606 713, 447 714, 821 727, 492	4,663,402 4,569,574 4,607,862	631, 704 644, 358 632, 188	845, 926 840, 537 832, 766	316, 313 312, 329	228, 159 231, 598	1,279,796	314, 376 315, 677	180, 502 179, 512	380, 871 378, 529	198, 721 200, 003 200, 299	564, 723
Mar. 25. Apr. 1. Apr. 8. Apr. 15.	2, 932, 472 2, 925, 227 2, 923, 013 2, 923, 718	168, 464 168, 432 168, 934 167, 685	452, 560 460, 233	39, 620 39, 409	433, 368 424, 659	117, 509 118, 486 119, 500 119, 002	142, 355 141, 761	657, 258 656, 424	143, 336 143, 138 143, 190 143, 450	69, 513 69, 432	101, 240 101, 201 100, 608 103, 598	60,040 60,223	539, 256

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

[In thousands of dollars.]

	Total.	Boston.	New York.	Phila- del- phia.	Cleve- land,	Rich- mond.	Atlan- ta.	Chica- go.	St. Louis.	Min- neapo- lis.	Kan- sas City.	Dallas.	San Fran- cisco.
Government deposits: Mar. 25	328, 613	24,750	170, 639	36,560	29,851	8,214	2,323	26, 125	6,437	4,156	4,091	1,835	13,632
	325, 765	24,749	170, 639	35,935	29,938	8,147	2,060	25, 010	6,527	4,156	4,091	1,835	12,678
	304, 287	23,324	162, 094	34,123	28,169	7,768	1,961	18, 707	6,200	3,949	3,740	1,784	12,468
	329, 192	26,442	167, 211	36,725	28,030	8,343	2,943	25, 635	8,080	7,086	4,088	2,464	12,145
Government obligations— Mar. 25. Apr. 1. Apr. 8. Apr. 15. Apr. 15. All other—	573, 124	30, 289	256,003	45,662	33,473	25,531	27, 110	69,098	19,226	5,180	19,552	9,537	32, 463
	526, 021	25, 026	224,015	44,101	35,121	28,014	26, 628	66,523	17,165	4,551	17,993	9,288	27, 596
	499, 317	20, 898	213,357	40,440	33,538	24,566	24, 831	66,124	16,557	4,563	18,515	8,182	27, 746
	503, 256	14, 173	223,120	42,207	37,062	24,736	25, 346	63,556	16,079	4,248	16,880	6,119	29, 730
Mar. 25 Apr. 1 Apr. 8 Apr. 15 Bills rediscounted with Federal Reserve Bank: Secured by United States	3,993 4,668 6,195 1,685				36 36 36	130	90 95 95 278	2,800 3,500 650 130	190 4,137	367 357 357 357		100 100 100 100	280 580 820 820
Government obliga- tions— Mar. 25 Apr. 1 Apr. 8 Apr. 15 All other—	198, 649 183, 338 197, 061 190, 802	18, 294 17, 253 14, 632 12, 265	94,710 84,128 102,338 100,311	35,334 31,216 30,476 30,573	7,189 7,038 6,592 6,758	3,268 3,562 3,775 2,832	8,558 8,228 7,895 7,140	18,852 19,181 17,991 17,208	3,742 5,026 4,675 4,856	781 547 527 531	4,001 3,469 3,625 4,093	586 755 889 863	3,334 2,935 3,646 3,372
Mar. 25	988, 420	75,477	307, 428	42,399	65, 954	40,008	33,614	223,306	42,513	25,944	44,276	17,348	70,153
	971, 286	79,238	277, 098	41,716	66, 809	41,679	33,688	235,425	37,666	27,028	40,990	17,293	72,656
	928, 003	64,611	292, 931	25,474	66, 422	42,338	31,257	209,606	35,776	28,920	40,824	16,911	72,933
	885, 169	55,804	280, 510	35,968	75, 410	41,021	27,350	185,550	30,508	27,849	39,689	17,498	68,012

2. MEMBER BANKS IN FEDERAL RESERVE BANK CITIES.

Number of reporting banks: Mar. 25 Apr. 1. Apr. 8. Apr. 8. Loans and discounts, including bills rediscounted, with	286	26	. 72	44	. 9	10	8	52 52	13	10	19	8	15
Apr. 1	286 285	26	71	44	9	10		52	13			8 8 8	15 15
Apr. 8	285	26	71	44	9	10	8	52	13			8	15
Apr. 15	284	26	71	44	9	10	8	52	13	10	18	8	15
Loans and discounts, includ-	1	1								1			
ing bills rediscounted, with)												
Secured by United States Government obliga-													
tions											!		
Mar. 25	558,372	38,794	313,365	68,719	17,411	6,442	3.814	66,514	13,577	8,246	6,785	2,164	12,541
Apr. 1	553, 228	38, 156	312,000	65,687	17, 448	6,412	3,814 3,673 3,652	65,769	14,969	8,206	6,819	1,992	12,097
Apr. 8	550, 745	33,977	313,065	64,962	17,472	6,419	3,652	66,694	14,815	8,241	6,821	2,008	12,619
Apr. 15	540,881	32,753	308,055	65,203	17,745	6,358	3,691	63, 434	15,004	8,410	5,872	1,900	12,456
Secured by stocks and						1							
bonds (other than United States Govern-								i			1		
ment obligations)—						1		i			1		
Mar 25	2.098.604	149.283	1,062,760	184, 709	135,488	15,625	9.539	317,285	87,648	32,706	28,374	9,051	66,136
Mar. 25	2,112,481	149, 282	1 081 193	187 020	135 644	15,489	9,539 9,576	312,004	87,456	31,206	27, 737	9, 191	65,774
Apr. 8	2,073,367	145,603	1,073,825 1,061,236	185, 234	134, 795	15, 422	9,042	306, 478	87, 281	12,212		9,380	66, 221
Apr. 15	2,056,612	143, 165	1,061,236	183,806	134, 471	15,412	9,203	308,039	88,750	13,310	24,942	9,414	64,864
All other— Mar. 25	F 010 000				1	60.000	F7 0F7	001 507	011 004	00 010	120 410	E0 E04	200 000
Mar. 25	5,810,968	511,709	2,773,443	372,370	278, 617 279, 690	69,383 69,816	57, 257 53, 791	801,007	211,904 207,608	90,210	139,410 141,059	58,564 58,442	
Apr. 1	5,777,019 5,751,077	506,490	2, 773, 443 2, 743, 151 2, 727, 043	363 000	277,008	69, 921	54,371	849,622	207,003	114,797	142,432	58,662	380,724
Apr. 5	5, 692, 739	408 568	2,700,146	366, 703	275,555	70,178	54, 200	839,364		113 673	140,933	54, 441	
Apr. 15 Total loans and dis-	0,002,100	400,000	2, 100, 140	000,100	21.0,000	.0,1.0	01,200	000,001	201,020	110,000	120,000	o.,	0,000
counts, including hills		i		i	į	i						i	
counts, including bills rediscounted with Fcd-	1	i			i		1				i i		
eral Reserve Bank		1											
Mar. 25	8,467,944	699,846	4,149,568 4,136,344 4,113,933	626,004	431,516 432,782	91,450	70,610	1,245,366	313,129	137,168	174,569	69,779	
Apr. 1	8,442,728 8,375,189	699, 331	4,136,344	624, 364	432,782	91,717	67,040	1,240,008 1,222,794	310,033	135, 250	175,615	69,625 70,050	459, 561
Apr. 8Apr. 15United States bonds:	8,375,189	686,009	4, 113, 933 4, 069, 437	615, 200	429, 275 427, 771	91,762 91,948	67,000	1,222,794 $1,210,837$	309,155 $304,782$	135 303	171,747	65, 755	
Apr. 19	8,290,232	014,400	4,009,401	010,712	441,111	91, 910	01,003	1,210,001	301,102	100,000	111,711	00,100	400,210
Mar. 25	434, 371	9,723	258,022	32.314	8, 789	7.264	4, 421	19,867	13,713	4,441	12,205	8,084	55, 528
Apr. 1	435, 479	9, 738	256,997	32.268	8,789 8,831	7,264 7,263	4,421 4,362	19,899	13,602	4,420	12,511	8,111	57, 477
Apr. 8	436, 991	9.740	260.549	32,339	7,618	7, 263	4 362	10 812	13, 184	4,433	11,774	7,686	58, 231
Apr. 1	440,733	9,863	261,094	32,548	8,730	7,260	4,360	20, 192	13,087	4,413	11,286	9, 593	58,307

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

	Total.	Boston.	New York.	Phila- del- phia.	Cleve- land.	Rich- mond.	Atlan- ta.	Chica- go.	St. Louis.	Min- neapo- lis.	Kan- sas City.	Dallas.	San Fran- cisco.
United States Victory Notes:	106,926	533	73,172	6,816	2,195	181	65	12,877	431	461	1, 195	31	8,969
Mar. 25. Apr. 1. Apr. 8. Apr. 15. United States certificates of	105,742 106,533	532 536	72, 957	6,816 6,784 6,838 6,743	2,195 2,194 2,128	181 181	65 65	12,219 13,010	416 413	473 473	750 668	31	9,140
Apr. 15	106,778		72, 349 72, 579	6,743	2,028	181	65	12,909	499	473	534	31	9,841 10,200
United States certificates of indebtedness:	,		,	,	ĺ								,
Mar. 25. Apr. 1. Apr. 8. Apr. 15. Other bonds, stocks, and	197,238	8,573	136,580	21,587	1,492	288	225	12,182	2,106	1,805	1,506	1,170	9,724
Apr. 1	162,694 154,289	2, 823 3, 289	125, 810 116, 412	12,991 14,188	967 802	287	225 225	9,121	758 390	498 482	768		7,441 7,034
Apr. 15	198, 487	9,369	136,537	19,773			225	9,551 14,911	913	2,339	634 1,141		8,705
Other bonds, stocks, and securities:										, i		_	,
Mar. 25	1, 121, 154	47,910	559,099	125,895	67,956	4, 101	3,196	146,613	41,845	8,368	18,414	4,232	93,525
Apr. 1	1,127,186 1,110,003		564,161 555,555	126,014 125,518	67,163	4,022	3, 220 3, 221	146,622 143,963	41,799 41,432	8,452 8,299	17,895 16,968	4,429 4,447	93, 972 89, 648
Apr. 15	1,119,868	50, 238	565, 417	126, 186	67,385 66,709	4, 125	3,226	145,378	42,069	8,284	11,074	2,405	94,757
Total loans and discounts,	' '				·			,			•	'	,
bills rediscounted with													
Federal Reserve Bank:	10 227 622	766 585	5 178 441	010 616	511 049	103, 284	70 517	1 426 005	971 994	159 943	207,889	83,296	coc cos
Apr. 1	10, 273, 829	761,861	5, 156, 269	802, 421	511,937	103, 470 103, 607	74,912	1,427,869	366,608	150, 151	207,539 207,171	83, 201 83, 209	626,685 627,591
Mar. 25	10, 183, 005	749,027	5, 176, 441 5, 156, 269 5, 118, 798 5, 105, 064	792,088	507, 208	103,607	74,938	1,436,905 1,427,869 1,409,130 1,404,227	364, 574	148,937	207, 171	83, 209	624, 318
Reserve with Federal Re-	10, 100, 000	144,492	5, 105, 004	800,902	508,038	103,927	14,970	1, 404, 221	301,330	150,902	195,792	79,135	627, 239
serve Bank:	015 110		F20 610	ET 004	06 040	E 670	0 600	106 400	90.020	0 504	15 100	F 000	00 00
Apr. 1	915,112 930,502	58,756 57,032	539,619 563,146	57,824 62,601	26,842 28,591	5,672 5,737	3,633 3,945	121,119	30,038 29,189	8,584 8,917	15,189 14,206	5.363	30,656
Apr. 8	910, 951	58,589	533,576	59,670	26,737	5.824	4.025	125,199	30,616	10,733	18,563	5,420	31, 999
serve Bank: Mar. 25. Apr. 1. Apr. 8. Apr. 15. Cash in vault:	929,071	58,523			26, 192	5,995	3,699	127,796	30,029			5,039	31,613
Cash în vault: Mar. 25. Apr. 1. Apr. 8. Apr. 15. Net demand deposits:	181,909	13,321	92, 258 86, 837 92, 715 92, 869	13,690	6,909	1,196	1,909	31,306	4,077	2,441 2,012 2,417 2,133	3,402	1,908	9,492
Apr. 1	172,604 181,457	12,771 13,187	86,837 92,715	13, 084 12, 952	7,153 7,301	1,160 1,189	1,975 1,939	29,649 31,263	3,866 4,137	2,012 2,417	3,144	1,795 1,819	9, 158 9, 334
Apr. 15	178,875	12,761	92,869	13, 147	7,405	1,093	1,868	29, 895	3,864	2, 133	3,144 3,201 3,058	1,840	8.942
Net demand deposits:	7,082,263	547, 168			205, 377	50.130	i		213, 362	ŀ			259, 218
Apr. 1	7, 170, 034	550, 835	4, 178, 969	549, 597	208, 241	48, 416	36,258	855,044	215,530	84, 491	138, 265	54,276 54,625	256, 312
Apr. 8	7,115,514 7,164,112	553,615 566 194	4, 063, 690 4, 178, 969 4, 085, 548 4, 118, 470	562, 126 551, 368	208, 241 208, 153 201, 823	48, 056 49, 116	35, 452	875 117	215, 982 216, 603	84,739 84,429	137, 905 136, 329	54,625 55,029	253, 214 253, 496
Net demand deposits: Mar. 25. Apr. 1 Apr. 8. Apr. 15. Time deposits: Mar. 95	1,101,111	1	1	ľ	1		į	1	ì	1	! '		
Mar. 25. Apr. 1. Apr. 8. Apr. 15. Government deposits:	1,365,683 1,360,168	64,025 64,027	297, 158 289, 931	27,067 27,666	232, 612 233, 648	23, 252 23, 319	21,667 21,688	313,991 314,611	82,451 82,445	27, 498 27, 210 27, 074	11,554 11,603	7,629 7,699	256,779 256,321
Apr. 8	1,358,670 1,361,704	64, 027 63, 707	297, 871 289, 681	27, 433	225, 201	23, 321 23, 217	21, 377	314.370	82, 445 82, 528 82, 528 82, 282	27,074	11,628	7,555	256, 605
Apr. 15	1,361,704	63, 343	289,681	28, 809	227, 239	23, 217	21, 829	313, 150	82, 282		· 1	7,600	262, 461
Mar. 25. Apr. 1 Apr. 8. Apr. 15. Bills payable with Federal	264, 424	19,899	165, 208	35, 402	5, 168 5, 207	1,297	251	14, 157	5,002	2,139 2,139 2,033	3,352		
Apr. 8	262, 243 249, 091	19,898 18,904	165, 208 156, 940	34,777 33,024	5, 207 4, 968	1, 227 1, 227	240 231	13,098 12,445		2, 139 2, 033	3,352 3,041	1,459 1,427	10,636 10,100
Apr. 15	264, 442	21, 288	162, 875			930	247	16, 357	6,424	3,450	3,303		8,502
Reserve Bank:													
Secured by United States Government obliga-			-) 				<u> </u>		***************************************
Mar. 25	382, 197	26, 226	233,609	41,571	2,749	5,433	705		12, 493	2,030	11,005	1,600	
Mar. 25. A; r. 1. Apr. 8. Apr. 15.	336, 073 321, 090	21,911	201,745 191 100	40,954	2,749 2,600 5,100 5,300	6,512	705 855	20, 856 19, 952	10,004	999	9,357	1,250 1,350	19,180
Apr. 15	324, 538	18, 283 11, 233	191, 100 199, 601	37, 394 39, 561	5,300	6, 201 5, 473	705	21,596	10, 148 9, 597	887	10, 227 8, 818	980	19, 481 20, 787
All other—	2 800		1			1	i	2,800		f	i		
Apr. 1	3,500							3,500					
Apr. 8	4,787		-					650	4, 137				
Mar. 25	130							130					•••••
Secured by United States Government obliga-				:	:								
tions— Mar. 25	164, 272	17,773	92,678	35, 165	1,368		798	11, 135	1,770	489	1,113	93	1,890
Apr. 1	149, 497	16,882	82, 163 100, 386	31,047	1,189		745	11,087	3,380	493	1,212	105	1,194
Apr. 8 Apr. 15	163, 864 158, 504	14, 261 11, 894	98,427	30, 307 30, 404			723 602		3, 161 3, 176	478 488	1,335 1,149	112 105	2,130 2 012
All other—		ľ	ł					,	-	l	'	1	1
Mar. 25 Apr. 1	721, 541 703, 275	75, 117 78, 843	279, 103 249, 089	40, 246 39, 350	52, 271 53, 002	8,361 8,524	4, 597 5, 242	146, 447 158, 487	26,618 21,520	19,044 18,991	20,528	5, 298 5, 336	43,911 45 170
Apr. 8	703, 275 662, 975	78, 843 64, 430	268, 175	23,510	49,849	9,520	5.231	130, 263	20,856	21,090	18,622	5,651	45,778
Apr. 15	629,993	55, 519	253, 857	34, 555	55,917	9,085	4,338	113,847	16,460	20,213	18, 422	5,830	41,950

3. MEMBER BANKS IN FEDERAL RESERVE BRANCH CITIES.

	_	_ '	ти споиза	ands or do	iiais.j						
	Total.	New York.1	Cleve- land. ²	Rich- mond.	Atlan- ta.4	Chica- go.5	St. Louis.	Minne- apolis, ⁷	Kansas City. ⁸	Dallas.9	San Fran- cisco. ¹⁰
Number of reporting banks: Mar. 25	216 216 216 216 216	11 11 11 11	40 40 40 40	18 18 18 18	21 21 21 21 21	13 13 13 13	20 20 20 20 20	5555	29 29 29 29	14 14 14 14	45 45 45 45
ment obligations— Mar. 25. Apr. 1. Apr. 8. Apr. 15. Secured by stocks and bonds (other than United States Government	113,772	9,547	34, 363	7,471	14,150	11,558	8,004	62	10, 540	2,214	15, 863
	113,637	9,396	34, 813	7,560	13,723	12,262	7,659	64	10, 139	2,152	15, 869
	112,606	9,219	34, 899	7,646	13,544	11,350	7,633	62	10, 315	2,051	15, 887
	111,902	9,051	34, 731	7,290	13,008	12,165	7,564	60	10, 281	2,068	15, 684
Apr. I. Apr. 8. Apr. 15.	487, 750 487, 210 483, 993	57, 722 57, 063 55, 986 54, 813	154, 742 154, 318 154, 727 157, 264	28,716 28,475 28,316 28,317	36,370 35,931 35,870 35,434	61,745 61,069 61,130 60,341	30, 523 30, 926 30, 624 30, 162	510 509 509 507	29, 298 28, 568 29, 549 27, 431	15, 226 15, 152 14, 894 14, 836	75, 160 75, 739 75, 605 74, 888
Mar. 25	1, 580, 600	108, 978	288, 068	97, 572	190, 585	185, 820	110,607	9, 220	154,622	66,091	369, 037
	1, 566, 362	109, 546	279, 082	96, 660	189, 041	185, 650	110,281	9, 257	152,881	66,081	367, 883
	1, 553, 728	108, 939	273, 097	96, 006	185, 423	186, 888	108,792	9, 260	150,873	66,117	368, 333
	1, 550, 820	110, 381	274, 182	97, 131	183, 998	181, 605	108,779	9, 276	151,251	66,130	368, 087
Mar. 25.	2, 184, 384	176, 247	477, 173	133,759	241, 105	259, 123	149, 134	9,792	194, 460	83, 531	460, 060
Apr. 1.	2, 167, 749	176, 005	468, 213	132,695	238, 695	258, 981	148, 866	9,830	191, 588	83, 385	459, 491
Apr. 8.	2, 153, 544	174, 144	462, 723	131,968	234, 837	259, 368	147, 049	9,831	190, 737	83, 062	459, 825
Apr. 15.	2, 146, 715	174, 245	466, 177	132,738	232, 440	254, 111	146, 505	9,843	188, 963	83, 034	458, 659
Apr. 1. Apr. 8. Apr. 15.	220, 253 219, 204 218, 630	14,889 15,017 15,533 15,766	64,843 64,529 64,633 64,868	13, 907 14, 805 14, 569 14, 968	27,908 27,915 27,846 27,830	21, 873 22, 725 21, 866 21, 862	13, 246 13, 140 13, 116 13, 211	714 714 714 715	12,895 12,986 12,948 12,872	13,668 13,718 13,466 12,362	35, 285 34, 704 34, 513 34, 176
Apr. 1. Apr. 8. Apr. 15. United States certificates of indebted-	50,901	1,994	15,371	3,182	2,363	15,866	1,829	58	1,042	798	8,398
	49,693	1,972	15,295	3,187	2,412	15,005	1,756	57	1,048	660	8,301
	50,255	1,969	15,221	3,188	2,423	15,862	1,643	47	1,021	623	8,258
	50,443	1,975	15,430	3,041	2,460	15,861	1,641	56	1,039	619	8,321
ness: Mar. 25. Apr. 1 Apr. 8 Apr. 15. Other bands stocker and securities:	42,930	2,036	13,678	2,447	1,650	10,933	489	10	2,580	509	8,598
	36,546	1,614	11,228	1,846	1,624	9,478	318	10	1,807	477	8,144
	35,757	1,588	9,802	953	1,550	10,343	269	10	2,633	477	8,132
	50,495	2,253	15,121	2,423	1,930	12,962	753	10	3,941	681	10,421
ness: Mar. 25. Apr. 1 Apr. 8 Apr. 15: Other bonds, stocks, and securities: Mar. 25. Apr. 1 Apr. 8 Apr. 15 Total loans and discounts, and investments, including bills rediscounted with Federal Reserve Bank: Mar. 25.	576,127	77,548	182,035	21,312	26,230	146,153	20,806	785	25,722	3,104	72,432
	575,412	77,096	179,661	21,340	29,130	146,404	20,464	774	25,451	3,082	72,010
	575,940	76,699	179,977	21,611	29,033	146,823	21,000	792	25,530	3,139	71,336
	576,858	76,935	179,702	21,536	28,802	146,826	21,429	791	25,162	3,245	72,430
Mar. 25. Apr. 1 Apr. 8 Apr. 15. Reserve with Federal Reserve Bank:	3,073,570	272,714	753,100	174,607	299, 256	453,948	185,504	11,359	236,699	101,610	584,773
	3,049,653	271,704	738,926	173,873	299, 776	452,593	184,544	11,385	232,880	101,322	582,650
	3,034,700	269,933	732,356	172,289	295, 689	454,262	183,077	11,394	232,869	100,767	582,064
	3,043,141	271,174	741,298	174,706	293, 462	451,622	183,539	11,415	231,977	99,941	584,007
Mar. 25. Apr. 1. Apr. 8. Apr. 15. Cash in vault:		16,633 15,813 16,428 18,027	53,587 47,556 50,268 51,430	10,880 11,374 12,074 10,534	20,628 19,019 16,465 18,305	23,344 20,701 24,707 21,355	9,479 10,018 10,951 9,988	660 769 683 583	16,355 14,854 16,863 16,268	7,370 6,725 7,544 6,907	37,027 36,165 38,511 37,318
Mar. 25. Apr. 1. Apr. 8. Apr. 15.	57,995 62,599 60,638	2,362 2,343 2,475 2,334	13,465 12,876 13,357 12,608	4,431 4,198 4,306 6,530	6,230 6,334 7,178 5,878	7,750 7,821 9,236 8,184	3,981 3,773 4,038 3,782	254 247 248 253	5,714 5,337 5,869 5,430	2,826 2,812 2,823 3,006	12,990 12,254 13,069 12,633
Net demand deposits:	1,622,249	154, 142	479,119	101, 632	153,635	157,817	86,579	5,024	142,384	61,794	280, 123
	1,611,320	157, 278	468,542	99, 986	154,569	159,264	87,089	5,159	140,432	60,994	278, 007
	1,613,702	157, 371	464,950	102, 110	151,858	159,047	89,020	5,031	142,012	61,013	281, 290
	1,619,017	155, 967	463,614	97, 925	153,410	171,454	89,804	5,079	140,190	60,684	280, 890
Time deposits: Mar. 25. Apr. 1 Apr. 8 Apr. 15. Government deposits:	916, 161	69,501	118, 244	20, 109	83,360	214,723	51,170	3,177	61,999	24, 260	269,618
	915, 763	69,740	117, 962	21, 438	82,788	213,449	50,936	3,162	62,194	24, 365	269,729
	913, 755	69,484	117, 982	21, 471	82,578	212,947	50,929	3,155	61,900	24, 547	268,762
	912, 929	69,758	117, 360	21, 337	82,823	211,070	51,462	3,153	61,243	24, 345	270,378
Government deposits: Mar. 25. Apr. 1. Apr. 8. Apr. 15.	37,623	3,062 3,062 2,908 1,978	21,602 21,652 20,305 23,083	2,604 2,604 2,442 4,038	1,283	5,100 5,100 4,845 4,050	1,449		124 117	322 306	1,885 1,885 1,790 2,756

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

(In thousands of dollars.)

	Total.	New York. ¹	Cleve- land.2	Rich- mond. ³	Atlan- ta.4	Chica- go.5	St. Louis.	Minne- apolis.	Kansas City. ⁸	Dallas.9	San Fran- cisco. ¹⁰
Bills payable with Federal Reserve Bank: Secured by United States Government obligations— Mar. 25. Apr. 1. Apr. 8.	128,340	15, 421 13, 610 13, 869	29,018 30,484 26,485	8,093 9,573 7,174	22,974 22,692 21,218	31, 959 30, 396 31, 870	6,170 6,573 5,821	72 122 72	5,126 5,294 5,037	3,240 2,995 2,170	7,491 6,601 6,510
Apr. 8. Apr. 15 All other—	123,087	14,691	30,316	8,407	21,898	28,178	5,969	72	4,821	1,395	7,340
Msr. 25	845 830 1,070 1,253				90 95 95 • 278		190	75 75 75 75 75		100 100 100 100	260 560 800 800
Mar. 25 Apr. 1 Apr. 8. Apr. 15. All other—	24,833 23,991 23,366 23,079	1,143 1,112 1,096 1,053	5,509 5,508 5,630 5,625	2,124 1,935 2,206 1,791	5,623 5,463 5,160 4,683	5,502 5,613 5,360 5,475	1,972 1,646 1,514 1,680			313 337 289 299	1,297 1,600 1,344 1,234
An other— Mar. 25. Apr. 1. Apr. 8. Apr. 15.	137, 990 137, 007 134, 665 128, 253	15, 591 14, 556 12, 709 15, 826	10,389 10,077 11,791 13,129	14, 194 15, 675 14, 498 13, 948	17,500 17,424 14,674 12,631	21,782 21,325 24,805 18,765	15,178 15,677 14,196 13,408	482 440 475 475	13,659 11,721 12,036 11,550	6,291 6,267 5,863 5,728	22,924 23,845 23,618 22,793

Buffalo.
Cincinnati and Pittsburgh.
Baltimore.

New Orleans, Jacksonville, Nashville, and Birmingham.

BANK DEBITS.

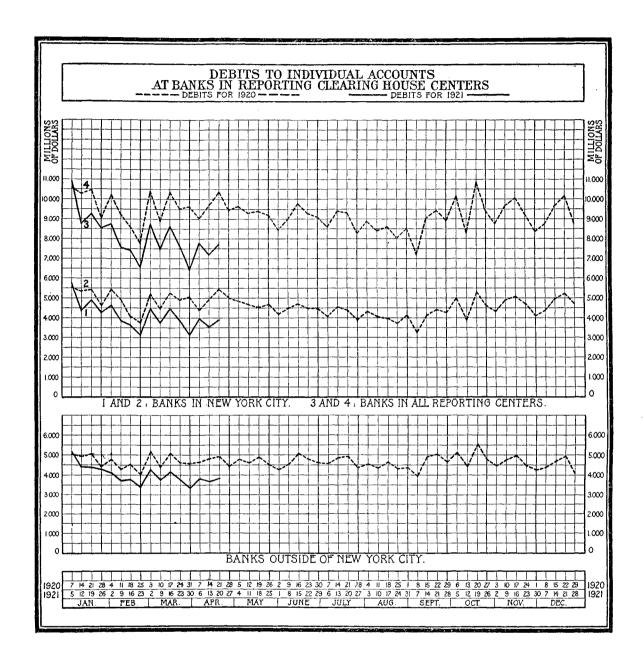
Debits to individual accounts, as indicators of the volume of the Nation's business, show an upward tendency for the four-week period ending April 20. The first of the four weeks saw a material reduction in debits, namely, from \$7,538,000,000 to \$6,393,000,000, but this reduction was due in part to the observance of Good Friday on March 25 as a holiday in some of the Federal Reserve districts. The debits rose for the following week to \$7,696,000,000, apparently as the consequence of end-of-month and end-of-quarter payments. After a drop to \$7,106,000,000 for the week ending April 13, debits rose again to \$7,648,000,000 for the last week of the period. Fluctuations of debits in New York City were parallel to those in all are that the relative volume of business this reporting centers, a 10 per cent increase for the year, as compared with last year, is smaller in most recent week being attributable in part to I the more recent period than four weeks earlier.

Louisville, Memphis, and Little Rock.
 Helena.
 Omaha, Denver, and Oklahoma City.

Oliana, Denver, and Calabana Cap.
 El Paso and Houston.
 Spokane, Portland, Seattle, Salt Lake City, and Los Angeles.

the larger volume of stock exchange transactions during that week.

Comparison of the movement of debits for the four weeks under review with that for the corresponding period of 1920 is vitiated by the fact that March 31, with its heavy end-of-month and end-of-quarter payments, was included in 1920 in the first week of the period, while in the current year it is included in the second week. Outside of this fortuitous difference, the general trend for the period is similar for the two years. It is noteworthy, however, that for the last four weeks this year's totals were below last year's by 25 per cent, on the average, while for the immediately preceding four weeks the difference between the two years was 18 per cent, so that the indications



DEBITS TO INDIVIDUAL ACCOUNTS AT CLEARING-HOUSE BANKS.

SUMMARY BY FEDERAL RESERVE DISTRICTS.

[In thousands of dollars.]

Federal Reserve district.	Num- ber of centers		Week e	21 nding		1920 Week ending—						
	in- cluded.	Mar. 30.	Apr. 6.	Apr. 13.	Apr. 20.	Mar. 31.	Apr. 7.	Apr. 14.	Apr. 21.			
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago. St. Louis. Minneapolis Kansas City Dallas. San Francisco.	7 10 13 7 15 22 5 12 15 13	333,877 3,250,158 319,689 392,661 137,947 154,735 787,512 152,171 101,077 207,590 124,963 430,520	400, 228 4, 116, 027 404, 289 432, 208 160, 439 194, 975 828, 870 171, 541 136, 323 249, 706 135, 654 465, 948	357, 480 3,657, 732 354, 470 440, 795 142, 707 166, 696 863, 310 177, 110 127, 901 228, 681 125, 638 463, 230	373,078 4,037,761 366,353 419,867 155,472 182,766 935,028 187,447 130,211 234,850 132,469 493,087	467,392 5,196,609 420,302 502,297 172,583 258,038 1,162,638 227,260 154,446 323,191 152,700 505,325	448, 994 4, 534, 986 425, 577 516, 029 185, 544 265, 557 1, 144, 788 252, 450 160, 427 311, 283 158, 108 532, 800	542,868 5,036,351 432,958 585,948 186,362 274,054 1,100,768 247,343 177,597 303,195 156,589 553,114	538,772 5,599,701 454,876 551,119 194,822 267,001 1,224,250 258,752 171,787 299,812 149,099 572,328			
Total	153	6,392,900	7,696,208	7,105,750	7,648,389	9,542,781	8,936,543	9,597,147	10, 282, 32			

Note.—Figures for the following centers, while shown in the body of the statement, are not included in the summary, complete data for these centers not being available for each week under review: Harrisburg, Pa.; Johnstown, Pa.; Reading, Pa.; Cincinnati, Ohio; Greenville, S. C.; Huntington, W. Va.; Washington, D. C.; Wilmington, N. C.; Moline, Ill.; East St. Louis and National Stock Yards, Ill.; Springfield, Ill.; Quincy, Ill.; Springfield, Mo.; Atchison, Kans.

DATA FOR EACH REPORTING CENTER.

		199 Week e				19 Week e		
	Mar. 30.	Apr. 6.	Apr. 13.	Apr. 20.	Mar. 31.	Apr. 7.	Apr. 14.	Apr. 21.
District No. 1—Boston:								
BangorBoston.	3, 327 1 216, 886	3,772 1 247,472	3,488 1 227,689	3, 514 1 236, 767	3, 611 305, 868	3, 637 268, 705	3,941 366,899	3, 363
Do	278, 073	322, 534	297, 681	309, 106	800, 803	208, 103	300, 899	351, 982
Fall River	5,036	6, 431	5, 194	5. 419	9,778	10, 135	11, 131	7.842
Hartford	16, 623	27, 209	20, 216	24,622	22, 178	27, 891	24, 084	29, 655
Holyoke	2, 709	3, 347	2,775	2,843	3, 625	4, 020	3,770	3,941
Lowell	3, 989	4, 525	4, 482	4, 158	5, 429	5, 899	6,061	5, 693
Manchester	4,006 4,740	5, 180 5, 338	4, 178 5, 365	4, 290	5, 123 8, 883	5, 854	4,947	5, 918
New Haven	13, 027	18, 345	15, 963	5, 319 17, 422	18, 245	9, 283 20, 381	10, 672 19, 401	10, 763 20, 763
Portland	6, 929	9, 099	7, 202	6, 217	7, 520	8, 421	7, 790	8, 266
Providence	27, 831	31, 595	28, 458	31, 816	37, 815	38, 576	41, 185	46, 953
Springfield	11, 263	14, 712	12, 448	11, 398	14, 606	18, 022	15, 814	17, 799
Waterbury	4, 314	6,715	5, 127	5, 311	6, 732	8, 316	7, 502	7 080
WorcesterDistrict No. 2—New York:	13, 192	16, 488	14, 895	13, 982	17, 979	19,854	19,671	18, 754
Albany.	24, 058	28, 106	22 870	21, 397	18, 309	22, 647	05 511	00.040
AlbanyBinghamton	3, 198	4, 287	22, 879 3, 979	4, 131	4, 211	4, 831	25, 511 4, 840	26, 943 4, 813
Buffalo	48, 897	62, 730	56, 856	60, 527	64, 718	72,388	64, 994	64, 474
New York	3, 133, 090	3, 967, 755	3, 527, 728	3, 900, 096	5, 060, 233	4, 370, 408	4, 885, 191	5, 445, 815
Passaic	4,014	4, 511	4, 592	5, 149	5,313	5,739	5, 741	5, 207
Rochester	24, 774	33, 121	28, 104	31, 971	28, 165	36, 648	33, 752	33, 517
Syracuse. District No. 3—Philadelphia: Altoona.	12, 127	15, 517	13, 594	14, 490	15,660	22, 325	16, 322	18, 932
Altons	3, 187	2,842	3, 124	9 449	2 701	0.000	0.410	
COESTER.	4, 127	5, 585	3, 124 4, 220	3, 442 4, 920	2, 701 5, 076	2, 888 5, 348	3, 413	3, 399
Harrisburg	5, 750	7, 931	6, 811	5, 965	5,070	ə, ə±8	5, 213	5, 903
Harrisburg Johnstown	5, 047	5, 254	5, 049	5, 042				
Lancaster	5, 790	16, 677	5, 946	5, 819	8,672	15,202	7, 553	8,030
Philadelphia	258, 762	324, 790	290, 116	304, 044	350, 158	342, 739	363, 227	384, 934
Reading.	5, 979	8, 393	8, 755	8, 108			1	302,002
Scranton	14, 823	14, 376	16, 310	12, 184	14,644	16, 589	15, 907	13,642
Wilkes-Barre	9, 753 8, 721	11, 290	16, 555	11, 512	11, 313	13, 450	11, 385	12,000
Williamsport	8, 721 3, 719	8, 702 4, 611	8, 070 4, 369	8, 958	9, 125	8, 257	8,002	8, 494
Williamsport. Wilmington	6, 705	8, 921	4, 369 7, 235	3,763	4,059	4,752	4, 837	4, 268
York	4, 102	6, 495	4, 525	7, 615 4, 096	8, 829 4, 725	9, 605 6, 747	8, 240	8,987
York District No. 4—Cleveland:	, ,	0, 100	7, 020	4,000	4, 120	0, 141	5, 181	5, 222
Akron. Cincinnati.	12, 365	16, 379	15,008	14, 794	19, 386	23,018	33, 735	34, 126
Cincinnati	54, 758	70, 138	72, 842	65, 451		20,010	00,100	01, 100
Cleveland	120, 419	138, 965	146, 850	133, 617	173, 856	187, 312	220, 707	181,603
Columbus Dayton	28, 427	28, 785	35, 874	31,635	26, 370	29, 311	35, 181	29, 426
Erie.	11, 879 5, 898	13, 532 6, 752	13, 128 6, 267	12, 358	12, 112	13,582	12, 863	12, 148
Greensburg.	3, 949	5, 752 3, 825	6, 267 3, 865	6, 256	7, 151	6, 596	7, 795	8, 575
Lexington	5, 101	5, 826 5, 221	3, 805 4, 181	4, 007 4, 492	4, 446 5, 653	3,643	4,624	4,843
Oil City.	1, 995	2, 604	2, 367	2, 82?	2,728	6, 154	5, 783	5,687

¹ Debits of banks which submitted reports in 1920.

DEBITS TO INDIVIDUAL ACCOUNTS AT CLEARING-HOUSE BANKS—Continued.

DATA FOR EACH REPORTING CENTER-Continued.

		Week er				199 Week e		
	Mar. 30.	Apr. 6.	Apr. 13.	Apr. 20.	Mar. 31.	Apr. 7.	Apr. 14.	Apr. 21.
District No. 4—Cleveland—Continued.								
Pittsburgh Springfield Toledo Wheeling Youngstown District No. 5—Richmond: Baltimore	158, 945 3, 960	161, 736 4, 887	159, 922 4, 693	162, 134 4, 101	190, 172 3, 162	179, 180 3, 185	189, 366 4, 158	206, 669
Toledo	20, 852	25, 107	26, 273	25, 160	30, 127	34, 010	37, 419	3, 450 37, 027
Wheeling.	8, 140	9, 901	8, 150	8, 696	10, 114	9, 724	11, 104	10, 511
Youngstown	10, 731	14, 514	14, 217	9, 885	17, 020	16, 847	20, 383	13, 520
Baltimore	85,685	99, 691	90, 569	93, 404	98, 509	109.341	107,842	109,649
Charleston	4,723	7, 263	5, 571	6,387	11 290	11, 445	9,332	9, 500
Charlotte	4,974	5,756	5,048	6,006	8,776 7,469	8,737	9,560 7,760	10,844
Greenville S C	4,374 2,283	$\frac{4,949}{3,177}$	4,490 3,981	4,378 3,069	7,409	6, 883	7, 700	7,665
Columbia. Greenville, S. C. Huntington Norfolk	5, 130	5,413	4,908	5, 461				
Norfolk.	12,607	14, 152	11,058	12,751	18,413	18,458	19,037	20, 516
Raleigh	4,200 21,384	$\frac{4,000}{24,628}$	4, 100 21, 871	3,800 28,746	3,900 24,226	4,900 25,780	5, 800 27, 031	6, 120 30, 529
Richmond	29, 572	40, 155	36,319	37,649	24, 220	20, 700	21,001	00,029
Wilmington District No. 6—Atlanta:	4,714	6, 132	5,048	5,902				
	20,055	05 174	00 544	05 500	33,040	34,742	34,894	38, 472
Atlanta	4, 079	25, 174 5, 507	$22,544 \\ 4,947$	$25,588 \ 5,032$	12,388	12,704	12, 921	10,670
Birmingham	12, 535	15,641	12,640	15, 756 10, 146	15,773	17,033	15,722	17,680
Chattanooga.	7,508	8,411	8,952	10,146	9,893	12, 116	11,920	13, 432
Augusta. Birmingham. Chattanoga. Jacksonville Knoxville	10, 189 5, 559	14, 159 6, 816	12, 293 5, 416	12, 863 6, 421	13, 966 6, 620	16, 131 7, 445	14, 808 7, 371	15, 826 7, 691
Macon		4, 491	3, 417	4,022	7,961	8,237	8, 144	8,113
Macon. Mobile Montgomery. Nashville New Orleans. Pensacola Savannah. Tampa. Vicksburg District No. 7—Chicago: Bay City	5,918	6,256	4,669	6,519	10, 292	9,996	9,036	10,096
Montgomery	3,004	3,612	2,886	$\frac{4,216}{20,354}$	5, 223 25, 804	5,776 $27,129$	5, 364 28, 775	6, 144 29, 722
New Orleans	17,797 48,220	20,390 63,158	19, 484 51, 623	52,614	83 684 5	82,610	93, 192	76, 939
Pensacola	1,120	1,607	1,466	1,644	2, 241 22, 718	2,204	2, 577	2,563
Savannah	8,498	11,619	8,781 6,272	10,099	22,718	19,471	20, 387	20,631
TampaVielzeburg	5,635 1,132	$6,868 \\ 1,266$	$\frac{6,272}{1,306}$	6, 192 1, 300	6,648 1,787	8, 114 1, 849	6,847 2,096	7, 106 1, 916
District No. 7—Chicago:	1,102	1,200	1,500	1,500	1,101	1,010	2,000	1,010
Bay City	2,588 2,481	2,781 2,983	2,328 3,203	2,308 2,564	3,707	4,094	4,020	3,839
Bloomington	2,481	2,983	3,203	2,564	3,775	4, 253	3,681 9,683	2, 922 10, 553
Chicago	10, 561 521, 575	$13,965 \ 514,728$	11,034 553,907	10, 520 593, 607	9,580 766,881	12, 141 720, 501	679, 290	737, 506
Davenport.	6,211	8,712	6,665	6,215	8,339	12, 157	679, 290 8, 779	8,887
Bay City Bloomington Cedar Rapids Chicago Davenport Decatur Des Moines	3,158	4,451	3,043	3,388	5,094	4,693	3,990	4,322 25,772
Des Moines Detroit Dubuque Flint Fort Wayne Grand Rapids Indianapolis Jackson Kalamazoo Lansing Milwaukee Moline Peoria	16,766 86,123	17, 887 101, 273	19, 173 103, 257	19,753 128,265	24, 039 146, 054	28,402 141,422	27, 495 149, 304	25,772 $206,456$
Dubuque.	2,883	3,410	2,826	3, 163	3,146	3,015	4,152	3,595
Flint	3,623	4,210	4,509	5, 426	10, 476	14, 198	7,719	12,868
Fort Wayne	5, 970 16, 017	7, 273 15, 346	7, 206 18, 252	7,699 18,756	7, 516 18, 867	7, 461 25, 553	8,866 19,617	8, 218 24, 820
Indianapolis.	26, 495	30,632	30, 905	31,708	36,414	36, 529	40, 488	39,653
Jackson	3, 243	3, 125	3, 195	3,549	2,707 5,627	3,231	4,138	5,579
Kalamazoo	3,630 4,003	4,354 4,801	4, 094 5, 236	4, 289 5, 415	5,627 6,982	5,427 5,678	5,454 7 518	5,730 6,937
Milwaukee.	41,577	51, 313	50.404	56, 265	59,882	69,387	7, 518 70, 630	74,045
Moline	2,002 7,173	2,540	2,478 7,982	2,211				
Peoria	$7,173 \\ 4,652$	8,676 6,034	7,982 5,468	8,477 5,124	11,683 6,817	$\begin{array}{c} 11,432 \\ 7,522 \\ \end{array}$	10,773 $6,667$	10,805 6,639
Sioux City	11, 139	13, 249	11,332	9,586	17,696	19,163	19,702	16, 181
South Bend	5,118	6,481 7,108	5, 890 5, 737	6,155	2,984	3, 129	3, 739	3,987
Springfield, III	5,960	7,108	5,737	5, 867 2, 796	4,372	5,400	5,063	4,936
Peoria. Rockford. Sioux City South Bend. Springfield, Ill. Waterloo District No. 8—St. Louis: East St. Louis and National Stock Yards.	2,526	3, 186	3,401	2,100	4,012	5, 400	0,000	1,000
East St. Louis and National Stock Yards.	7,418	8,030	8, 535	8,914				
	4,407	4,344	5, 243	5,343	5,596	5, 316 10, 239	6,023 10,611	5, 536 9, 247
Little Rock Louisville	8,622 1 19,690	9, 015 1 23, 513	9,545 1 21,718	10, 489 1 24, 472	10,031 32,234	35, 809	37,596	38, 792
Do		31,039	28, 945 20, 808 2, 474 1 119, 796	31, 271 20, 858				
Memphis Quincy St. Louis	25, 419 17, 110	16, 247	20,808	20,858	34,988	38,042	37, 263	38,771
Quincy	2,443 1 102,342	3,546	1 110 706	2,447	144, 411	163,044	155,850	166,496
Do	113, 525	131, 389	134, 832	1 126, 285 140, 306	141, 411	100,011		
Do Springfield, Mo District No. 9—Minneapolis:	2,435	31, 039 16, 247 3, 546 1118, 422 131, 389 3, 239	3,102	2,876				
District No. 9—Minneapolis:	1 450		1 000	1,588	1,573	1,892	1,861	1 799
Aberdeen. Billings.	1,456 1,400	1,374 1,965	1,000 1,632 15,266	1, 884	2,442	2,521	2,515	1,722 2,710 20,371
Duluth	11, 109	14, 453	15, 266	15, 159	16 423	2,521 15,120 3,391 2,109	20,346	20,371
Fargo. Grand Forks.	2,042	2,788 1,269 1,723	2,511 1,236	2,405	2,866	3,391	4,103	3,477
Grand Forks	997	1,269	1,236	1,071	1.583	2,109	2, 113 2, 017	1,987
Great Falls Helena	1, 457 1, 467	1,743 2.483	1,647 1,922	2, 201	2, 297 2, 081	2.741	2, 449	2,014
Minneapolis	54, 499	2, 483 72, 067	68,831	1, 586 1, 884 15, 159 2, 405 1, 071 1, 752 2, 201 67, 110	76 032	81, 474	94, 960	2, 317 2, 014 85, 287 41, 084
Minneapolis St. Paul Sioux Falls	20,453	30, 115	26,903	50,100	38, 339	37, 995	36, 627	41,084
Sioux Falls	3,719	4, 817 1, 997	3, 961 1, 913	3, 991 2, 088	38, 339 7, 412 2, 072 1, 326	2, 109 1, 893 2, 741 81, 474 37, 995 7, 616 2, 135 1, 540	6, 808 2, 425	7, 462 2, 024 1, 332
Superior	1,458 1,020	1,997	1,913	794	1 200	1 540	1,373	1 220

¹ Debits of banks which submitted reports in 1920.

DEBITS TO INDIVIDUAL ACCOUNTS AT CLEARING-HOUSE BANKS—Continued.

DATA FOR EACH REPORTING CENTER-Continued.

		Week er				199 Week ei	20. nding—	
	Mar. 30.	Apr. 6.	Apr. 13.	Apr. 20.	Mar. 31.	Apr. 7.	Apr. 14.	Apr. 21,
District No. 10—Kansas City:								
Atchison	1,200	1,240	1,300	980				
Bartlesville	2,021	2,589	2,774	2,480	4,011	3,541	3,953	3,370
Cheyenne. Colorado Springs. Denyer.	1,686	1,821	1,912	1,727	2, 430	2, 433	1,672	1,720
Colorado Springs	2,131	2,580	2,552	2, 182	3, 191	3,570	3,775	3,37
Denver	28, 413	36,000	29, 106	31,073	51,021	47, 583	44,005	38, 46
Joplin Kansas City, Kans Kansas City, Mo. Muskogee Oklahoma City Omaha	1,824 3,325	2, 259 3, 137	2, 198	2, 173 3, 223	4, 037 4, 537	3, 719 3, 907	4, 846 4, 436	4, 473 3, 86
Kansas City, Kans	59, 107	3, 137 75, 666	3,357 67,872	69,148	85, 050	86, 146	73, 934	71, 39
Muskogee	3,892	4,402	3,599	3, 486	6,013	6,336	5, 861	5,65
Oklahoma City	17,621	22, 060	19, 989	20, 365	19,769	21, 718	21, 322	23, 04
Omaha	38, 877	42, 867	40, 395	44, 029	66, 459	57, 801	59, 116	66, 24
Pueblo	4,335	5, 651	4,812	4, 356	4,823	5,055	5,771	3, 21
St. Joseph	14, 486	15, 350	15,631	13, 990	23,088	21, 815	21,674	24, 67
Topeka Tulsa.	2,537	4,639	2,983	4,098	5,571	6, 499	6,918	6,02
Tulsa	19, 467	21, 134	21, 266	22, 238	31, 281	26, 856	31, 460	29, 43
WichitaDistrict No. 11—Dallas:	7,868	9,551	10, 235	10, 282	11,910	14,304	14,452	14, 84
District No. 11—Dallas:	· · · · · · ·							
Albuquerque	804	1,788	1,599	1,145	1,763	1,968	1,752	2,35
Austin	2,465	2,900	3,039	2,480	2,815	3, 387	4,060	3,07
Beaumont	2,848	3,322	2,350	3,600	4,339	5, 859	5,478	4,59
Dallas	29,621	32, 838 7, 444	29, 936	33, 779	39, 172	42, 146	42, 887	41, 33
El Paso	7,405	7,444	7,795	7,534	9,467	9, 538	9,660	9,58
Galveston.	20, 410 17, 674	19,120 21,570	21, 800	19, 400	23, 198	24, 422	25,004	22, 53
Houston.	26,822	26,065	17,090 22,620	16, 451 28, 566	7, 935 38, 819	9,546 33,441	8, 413 32, 563	7, 78 32, 60
San Antonio.	5, 910	6,879	7.144	7,007	7,779	8,875	8, 397	32,00 7,15
Shrevenort	5,840	7. 270	5, 940	6, 275	9, 874	10, 951	9,612	8,98
Shreveport. Texarkana, Tex. Tucson	1,023	1, 490	1,839	1,652	1,818	1,942	3,090	3,06
Tueson	1,269	1,302	1,471	1,385	1,596	1,563	1,773	1,68
Waco District No. 12—San Francisco: Berkeley	2,872	3,666	3,015	3, 195	4, 125	4,470	3,900	4.35
District No. 12—San Francisco:	-,	2,000	0,010	0,200	-,	-, 2.0	0,000	-,00
Berkeley	2,252	2,973	2,750	2,838	2,194	2,727	2,591	2,85
Boise	1,862	2,610	3, 195	2,644	2,975	3,365	3,260	2,24
Fresno.	8,738	9, 739	9,401	9,838	9, 205	8,752	10, 519	8,63
Long Beach	5, 204	6, 321	5,389	6,088	5, 167	5,883	5,619	6, 16
Long Beach. Los Angeles. Qakland.	92, 979	100,682	94, 970	103, 232	89,409	101,971	96,025	99, 25
Oakland	18, 293	18, 412	18,069	18,643	19,510	19,709	20, 423	19, 52
Ogden.	3,011	3,620	3,076	2, 995	4,043	1,948	4,324	3,34
Pasadena. Portland	5,001 30,882	6,781	5,942 43,505	5,727 37,283	5,605	5,897	5,975	6, 98
Reno.	2, 180	39, 382 2, 656	2, 566	2,745	43,778 2,821	50,636 2,922	51, 539 3, 124	52, 56 2, 00
Sacramento	10, 524	11, 493	11,826	12,681	12, 183	13, 420	14, 105	14,72
Salt Lake City	14, 895	15, 624	18, 059	16, 513	18, 914	20, 192	16, 464	19, 42
Salt Lake City San Diego San Francisco	7,309	8, 329	8,911	8,726	8,011	8,484	8,076	9, 10
San Francisco.	171,072	175, 258	167, 823	198,664	198, 401	196, 897	208, 344	233, 74
San Jose.	3, 591	4,304	4,533	5,180	4,526	5,374	4, 943	4,64
Seattle	29, 402	30, 720	33, 520	33,407	47,318	49, 205	61, 888	50, 48
Spokane	9, 234	10, 341	12, 497	10,856	11,661	13, 229	14, 254	14, 75
Stockton	3,742	4,753	6,434	4,629	4,973	6,526	5,700	4,58
Tacoma.	8,248	9,657	8,773	8,182	11,325	11,587	12,529	13, 80
Yakima	2, 101	2, 293	1,991	2,216	3,306	4,076	3,412	3, 47

FEDERAL RESERVE CLEARING SYSTEM.

OPERATIONS FROM MAR. 16 TO APR. 15, 1921.

[All figures shown in thousands.]

								-						
Federal Reserve Bank or branch.	Items drawn on banks located in own district. In Federal Reserve Bank or branch city. Outside Federal Reserve Bank or branch city.			Trea	drawn on surer of d States.	handle sive of	al items ed, exclu- duplica- ons.	to othe Reser	forwarded er Federal ve Banks I their inches.	to par or to l	forwarded ent bank branch in district.	Amount. Number. Amount. Number. 4,356 6,320 8,130 22,311 3,711 1,110 6,364 1,560 11,503 2,301 1,513 6,304 11,503 2,301 11,503 2,301 1,513 3,213 1,133 6,405 31,384 31,384 31,302 2,71 1,511 1,512 301 1,578 31,384 31,392 271 1,513 325 578 31,384 326 31,392 31,393 31,394 325 31,395 3		
	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.	Num- ber.	Amount.		Amount.
Boston New York Buffalo Philadelphia Cleveland Cincinnati Pittsburgh Baltimore Atlanta Birmingham Jacksonville Nashville New Orleans Chicago Detroit St. Louis Little Rock Louisville Memphis Minneapolis Helena Kansas City Denver OklahomaCity Omaha Dallas E! Paso Houston San Francisco Los Angeles Portland Salt LakeCity Seattle Spokane	413 201 496 118 250 119 142 58 53 66 1,081 302 304 48 102 71 1252 41 251 76	537, 526 1, 750, 426 1, 750, 426 1, 750, 426 88, 737 766, 885 217, 342 134, 316 292, 669 118, 918 157, 245 56, 990 23, 051 29, 625 47, 182 642, 427 148, 3889 261, 364 25, 674 125, 429 261, 535 45, 510 55, 429 57, 477 61, 014 10, 373 40, 370 116, 750 114, 785 33, 559 22, 730 35, 670 17, 100	3, 300 4, 451 4, 451 1, 243 818 911 1, 911 1, 911 1, 911 1, 913 166 198 113 3, 722 408 1, 383 1, 383 1, 383 1, 383 1, 383 1, 383 1, 383 1, 383 2, 405 3, 405	380, 428 966, 784 50, 829 246, 240 163, 448 84, 064 164, 282 260, 526 43, 238 8, 399 43, 22, 021 13, 721 352, 689 44, 827 77, 89, 645 17, 098 25, 534 9, 482 8, 399 11, 452 111, 915 119, 985 77, 084 44, 825 111, 930 35, 025 111, 930 12, 611 28, 138 17, 562 10, 158	144 1, 105 15 211 80 60 653 577 62 34 12 9 17 36 451 35 8 31 10 50 3 106 21 7 44 30 18 155 77 31 18 122 24	28, 838 190, 580 2, 846 43, 125 7, 330 7, 829 9, 426 8, 382 17, 274 6, 333 1, 296 1, 296 1, 153 1, 1	4, 195 7, 087 7, 682 4, 166 1, 786 11, 086 1, 786 1, 489 297 293 268 215 5, 254 1, 825 246 1, 753 1, 748 102 2, 852 438 11, 702 1, 748 198 455 799 1, 290 1, 290 1, 293 342 223	946, 792 2, 907, 790 1, 142, 412 1, 956, 250 388, 120 1, 227, 582 406, 377 387, 848 36, 685 43, 073 54, 699 68, 323 1, 060, 673 197, 387, 259 219, 779 21, 429 383, 433 68, 532 1, 369, 532 1, 369, 688 240, 079 21, 429 383, 433 58, 532 130, 955 78, 430 240, 079 206, 705 54, 433 54, 186 64, 313 28, 252	161 1,019 159 762 45 12 71 157 79 47 18 2 43 49 339 8 26 9 13 2 190 7 269 75 44 41 77 14 221 28 111 5 12 16 10	55, 327 507, 711 28, 398 184, 793 184, 793 29, 009 23, 434 39, 552 55, 708 29, 992 16, 499 10, 122 416 7, 450 12, 986 1, 706 1, 872 2, 041 51, 329 18, 310 8, 263 6, 281 18, 525 6, 148 3, 214 4, 499 17, 559 11, 556 4, 489 17, 559 2, 094	24 45 38 12 29 58 73 42 31 11 6 8 8 24 77 77 72 15 19 44 6 43 56 43 58 13 14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	12, 991 3, 711 6, 364 11, 503 8, 223 6, 405 31, 384 13, 022 1, 541 762 2, 085	8, 130 836 4, 928 1, 819 1, 110 1, 560 2, 301 1, 139 578 346 271 322 270 5, 601	1, 002, 119 3, 421, 821 1, 241, 103 1, 241, 103 430, 120 254, 727 452, 273 458, 013 290, 533 128, 672 78, 191 1, 997, 024 207, 533 308, 641 46, 971 1, 112 38, 383 256, 736 251, 424 287, 393 115, 119 286, 009 30, 938 82, 994 251, 424 237, 73, 114 74, 922 36, 750
Total:	-	6, 382, 199 5, 576, 684	,		3, 085 1, 937	,	,	110,724,392	'	1,247,842	898 7 89		'	12, 202, 175 10, 698, 915
Mar. 16 to Apr. 15, 1920	8, 049 7, 982	8, 512, 045	'		2, 193	528, 946 882, 375	′	19,417,648		1, 818, 617	856		1	16, 588, 377

¹ Includes items drawn in banks in other Federal Reserve districts forwarded direct to drawee bank. Note.—Number of business days in period for Philadelphia, Pittsburgh, Baltimore, Jacksonville, Nashville, New Orleans, Detroit, St. Louis, Little Rock, Louisville, Memphis, Minneapolis, and Salt Lake City was 26, for other Federal Reserve bank and branch cities, 27 days.

NUMBER OF MEMBER AND NONMEMBER BANKS IN EACH FEDERAL RESERVE DISTRICT, APR. 15, 1921 AND 1920.

				Nonmem	ber banks.	
Federal Reserve district.	Member	banks:	On pa	ar list.	Not on par list.1	
	1921	1920	1921	1920	1921	1920
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	1,430 577 1,012 1,093	432 770 684 856 595 426 1,385 555 943 1,055 773 772	256 327 447 1, 082 1, 057 411 4, 261 2, 515 2, 797 3, 393 1, 247 999	253 320 419 1,079 763 445 4,231 2,514 2,913 3,368 1,248 939		744 1,130 174
Total	9,726	9, 246	18,792	18, 492	1,932	2, 15

¹Incorporated banks other than mutual savings banks.

GOLD SETTLEMENT FUND.

INTER FEDERAL RESERVE BANK TRANSACTIONS FROM MAR. 18 TO APR. 21, 1921.

Federal Reserve Bank.	Transfers. Daily set			tlements.	Changes in of gold th fers and s	ownership rough trans- settlements.	banks'
	Debit.	Credit.	Total debits.	Total credits.	Decrease.	Increase.	fund at end of period.
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	23, 001 11, 000 70, 500 7, 000 6, 000 48, 000 5, 500 10, 000 36, 578	2, 499 125, 000 4, 001 36, 079 24, 000 7, 000 3, 000 1, 000 2, 000 40, 500 10, 000	430, 656 1, 756, 242 650, 438 527, 263 567, 328 201, 834 781, 201 439, 121 130, 130 352, 241 189, 096 234, 448		24, 663 8, 728 3, 013 3, 284 14, 817 10, 302		22, 614 15, 221 107, 506 18, 971
Total, five weeks ending— April 21, 1921 Mar. 17, 1921 Apr. 22, 1920 Mar. 18, 1920	148,380	258, 079 148, 380 661, 270 416, 266	6, 259, 998 6, 323, 085 8, 584, 231 8, 503, 649	6, 259, 998 6, 323, 085 8, 584, 231 8, 503, 649		90, 709	

GOLD AND SILVER IMPORTS AND EXPORTS.

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

			Impo	orts.					Exp	orts.		
Country.	During 10 days ending Mar. 20, 1921.	During 11 days ending Mar. 31, 1921.	During month of March, 1921.	During 11 days ending Apr. 10, 1921.	From Jan. 1 to Apr. 10, 1921.	From Jan. 1 to Apr. 10, 1920.	During 10 days ending Mar. 20, 1921.	During 11 days ending Mar. 31, 1921.	month	Dur- ing 10 days ending Apr. 10, 1921.	From Jan. 1 to Apr. 10, 1921.	From Jan. 1 to Apr. 10, 1920.
Austria. Belgium.		\$ 5,000	\$5,000		\$9,000 38,391							
France	\$14,216,082 2 629	27,019,290 903	53,437 41,241,531 3,532	\$3,416,747	89,922 62,937,143 3 593	\$19,804			•••••			\$10,000
Greece		158,499	168,035		956, 211 11, 265	40.000						201.339
Netherlands Portugal	188,046	558,774	938,752	4,165,177	5,722,306 7,691	1,161,428 7,317						
Austria Belgium Denmark France Germany Greece Italy Netherlands Portugal Russia in Europe Spain Sweden Turkey in Europe United Kingdom England	664,600 17,488	129,614 164,356	138,957 4,678,956 17,488	4,737,870	\$9,000 38,391 89,922 62,937,143 3,593 956,211 11,265 5,722,306 7,691 85,000 413,915 9,416,826 238,488							
United Kingdom— England	6,526,179	7,575,282	24,075,538	4,369,040	55, 532, 348	48,348,362						13,235
Total Europe	21,615,024	35,611,718				49,576,911						224, 574
Bermuda British Honduras		600	600				ł		1			
BermudaBritish HondurasCanadaCosta RicaGuatemala.	22,550 8,949	10, 264, 511 490 13, 000	19,825,753 37,963 13,000 35,123	51,133 2,036 21,000	20,603,468 172,254 158,106 131,194 203,998 523,687 283,376 1,556,428 9,553 165,708	18,481,988 84,292	\$ 137,902	\$ 22,825	\$247,341	\$18,141	\$ 653,489	1,864,394
Honduras Nicaragua	22,942 9,824	597 25,854 37,164	69.860	12,742	131, 194 203, 998	54,788 289,129						19,000
Guatemala. Honduras. Nicaragua. Panama. Salvador. Mexico. Cuba.	122,930	37,164 31,008 129,424 278	82,776	29,000 110.192	523,687 283,376 1,556,428	30, 160 101, 221 1, 143, 741	173,417	42,040	300,187	28,402	3,126,387	11,534,429
British West Indies Virgin Islands of the	61,000	1,120	133,920		9,553 165,708	3,058 1,374			50,000		200,000	10.000
United States Dominican Republic. Dutch West Indies		226,067	509,803	249,386	2,025,128					•••••	••••••	10,000 16,000
Total North America		<u> </u>				20, 189, 771	311,319	64,865	597,528	46,543	3,979,876	13,443,823
Argentina. Bolivia Brazil		77,016 71	162,016 606	84,866	314,403 1 166	23, 270 5, 532						63,645,000
Brazil Chile. Colombia. Ecuador. British Guiana Dutch Guiana.	6,062 229,891	20,013 84,735			8,552 52,835 4,070,587	4,435 118,629 12,392					24,300	220,000 400,000 700,000 130,000
British Guiana Dutch Guiana				67, 204	210,466 7,408 21,104	22,060						150,000
Peru. Uruguay. Venezuela.	46,880 58,393 1,517	12,553 468,471 69,710	92,234 769,832 86,379	618,317	269,706 1,857,481 302,329	189,302						10,850,000 184,000
Total South America	342,743	732,569	2,262,798	1,047,153	7,116,037	E01 664					24 200	76 120 000
China. British India Straits Settlements. Dutch East Indies. Hongkong. Japan. Turkey in Asia	346,614	1,596,727 571,994	2,653,169 2,058,308	194,129	9,660,719 8,274,262							15, 833, 895 2, 716, 713 6, 116, 454 5, 542, 146 18, 009, 422 6, 762, 067
Dutch East Indies Hongkong	81,856		81,856	46,758	204,063 2,845,545	2,265,474	26,700	55,900	111,840	2,400	60,000 455,120	5,542,149 18,009,422
Turkey in Asia		137,611	145,664	5,220	2,208,234 150,884							6,762,067
Total Asia	428,470	2,306,332	4,938,997		23,343,707				1		:	F
Australia New Zealand Tahiti	1,216,625	202,834		20,900		346,398			300		300	
Philippine Islands Abyssinia British West Africa	38,581 19,625	263	74, 253 19, 625	23,000 800								26,038
British South Africa Portuguese Africa	51,313	51,823	51,823 51,313		51,823 166,328	37,727	,					20,000
Total, all countries Excess of imports or	24, 230, 533	49,635,652	101,656,796	18,536,706	1 19 6, 7 06, 3 82		338,019	120,765	709,668	48,943	² 4, 519, 596	144,804,13

¹Includes: Ore and base bullion, \$15,325,000; United States mint or assay office bars, \$428,000; other refined bullion, \$154,470,000; United States coin, \$5,836,000; foreign coin, \$20,648,000.

²Includes: Domestic exports—Ore and base bullion, \$23,000; United States mint or assay office bars, \$295,000; other refined bullion, \$35,000; coin, \$3,888,000. Foreign exports—Coin, \$279,000.

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

			Imp	orts.					Ex	ports.		
Country.	During 10 days ending Mar. 20, 1921.	During 11 days ending Mar. 31, 1921.	During month of March, 1921.	During 10 days ending Apr. 10, 1921.	From Jan. 1 to Apr. 10, 1921.	From Jan. 1 to Apr. 10, 1920.	During 10 days ending Mar. 20, 1921.	During 11 days ending Mar. 31, 1921.	During month of March, 1921.	During 10 days ending Apr. 10, 1921.	From Jan. 1 to Apr. 10, 1921.	From Jan. 1 to Apr. 10, 1920.
France	\$ 5,287	\$8,200 10,369 6,179	15, 924	\$102	\$74,364 39,072 209,799							
Greece		5, 923 295	5,923		805 9,830 15,270	369 4, 375						
Spain United Kingdom- England				936	25,326	34, 967	\$333,384	\$287,230	\$ 765, 413		\$ 3, 742 , 02 8	\$ 308, 24 1
Total, Europe	5, 287	30,966	56, 268	1,038	374, 466	51,853	333, 384	287, 230	765, 413		3,742,028	308, 241
British Honduras Canada Costa Rica	132,623 460	248, 694 7	451, 034 2, 080			10,496				\$79,087		4, 282, 198
Guatemala Honduras Nicaragua	15 173		67,368 15,191 996	17, 878	83, 423	739, 155 278, 655		500	500		500 800	348, 800
Panama Salvador Mexico Cuba British West Indies Virgin Islands of	668,345	922 802, 244 2, 847	3,922 2,375,308		6,081 9,567,607	3,358,361 21,828,063 26,673	66, 268	27, 915	50,000 112,677 9,750 1,200	37,378	226,000 50,000 784,786 298,771 88,840	431,000 1,511,607 169,917 14,585
Virgin Islands of United States Dominican Republic. Dutch West Indies								-,				10,000 128,000
Dutch West Indies French West Indies Haiti	98	178	276	154	720	20						4,000
Total, North America	860,670	1,079,265	2,919,022	698, 773	11,402,086	27, 624, 893	159, 792	89,712	398, 898	116, 855	2,247,637	6,900,607
Argentina Bolivia Brazil		997 58, 716	39,850		7,326 125,442 40,271	970		1	450		450	891 803
Chile Colombia Ecuador Dutch Guiana	91,863 1,554	42, 154 752		6,008 3,204	745, 392 59, 539 15, 400 42	977, 471 57, 247 12, 544					239,500	624
Peru Venezuela	184, 747	238, 717 35	539, 115 66	65, 264 54	1,402,158	3, 136, 056						10,000
Total, South America	278, 164		827,394	75, 485	2,395,970			<u></u>	450		239, 950	12,318
China British India Dutch East Indies	552 38,419		2, 107 59, 991	40 68,836	3,689 40 212,288	11,974 1,628,686	408.086	55,525 145,000	322, 389 553, 086		2,351,843 1,515,985	
French East Indies Hongkong Japan					192	1,650		179, 167	415, 639 462, 650	22,882	3, 413, 970 1, 574, 477	3,525,672 11,911,750
Total, Asia	38,971	22, 113	62,098	68,876	216, 209	1,642,310	1, 259, 247	379, 692	1,753,764	22,882	8, 856, 275	54, 208, 015
Australia New Zealand Philippine Islands Abyssinia. British West Africa	77	45 3				1 3,463						
British West Africa British South Africa Portuguese Africa	3, 254	3,280	3, 280 3, 254		3,760 14,251	7,604						3,080
Total, all countries Excess of imports or exports	1, 186, 454	1, 477, 043 720, 409	3, 872, 047 953, 522		1 14, 413, 748	34, 168, 976	1,752,423 565,969		2, 918, 525	139, 737	² 15,085,890 672,142	

¹ Includes: Ore and base bullion, \$12,108,000; refined bullion, \$1,636,000; United States coin, \$252,000; foreign coin, \$418,000.
² Includes: Domestic exports—Ore and base bullion, \$1,000; United States Mint or Assay Office bars, \$152,000; other refined bullion, \$8,522,000; coin, \$754,000. Foreign exports—Ore and base bullion, \$2,000; refined bullion, \$4,166,000; coin, \$1,489,000.

DISCOUNT AND INTEREST RATES.

In the following table are presented actual discount and interest rates prevailing during the 30-day period ending April 15, 1921, in the various cities in which the several Federal Reserve Banks and their branches are located. A complete description of the several types of paper for which quotations are given will be found in the September, 1918, and October, 1918, FEDERAL RESERVE BULLETINS. Quotations for new types of paper will be added from time to time as deemed of interest.

Comparison with rates prevailing during the period ending March 15, 1921, shows no marked changes in rates. There is a tendency to decrease in the rates for bankers' acceptances, both indorsed and unindorsed, but for other types of paper such increases and decreases as have occurred are approximately equal in number. With the exception of bankers' acceptances, present rates as a whole continue higher for all types of paper than those prevailing during the same period of 1920.

DISCOUNT AND INTEREST RATES PREVAILING IN VARIOUS CENTERS DURING 30-DAY PERIOD ENDING APR. 15, 1921.

		Pri	me commer	cial paper.				cceptances, 0 days.		loans—stock			Secured by	Ordinary loans to customers
District.	City.	Custo	mers.	Open	market.	Interbank loans.						Cattle loans.	warehouse receipts.	Liberty
		30 to 90 days.	4 to 6 months.	30 to 90 days.	4 to 6 months.	Tomis.	Indorsed.	Unindorsed.	Demand.	3 months.	3 to 6 months.		etc.	bonds and certificates of indebt- edness.
No. 1 No. 2 No. 3 No. 4 No. 5 No. 6 No. 7 No. 8 No. 10 No. 11	Boston. New York Emalo Philadelphia Cleveland . Pittsburgh Cincinnati Richmond Baltimore Atlanta Birmingham Jacksonville New Orleans Nashville Chicago Detroit St. Louis Louisville Memphis 2 Little Rock Minneapolis Helena Kansas City Omaha Denver Oklahoma City Dallas El Paso Houston San Francisco Portland Seattle Spokane Salt Lake City Los Angeles	6 6 6 7 6 6 6 6 6 8 8 8 6 6 7 7 7 7 7 7	$\begin{array}{c} H. \ L. \ C. \\ 8. \ 6\frac{1}{2}. 7\frac{1}{4} \\ 7. \ 6. \ 6. \ 7. \ 6. \ 6. \ 6. \\ 6. \ 6. \ 6. \ 6. \ 6$	H. L. C. 8 71 72 73 77 75 8 71 75 8 71 75 75 75 8 8 8 8 8 7 7 7 7 7 7 7 7 7 7	H. L. C. 174 74 74 74 74 74 74 77 74 77 74 77 75 76 64 77 75 8 8 8 7 7 74 8 7 7 7 8 7 7 8 7 7 8 7 8	8 6 7 9 7 8		6 5 5 5 6 6 6 5 6 6 5 5 6 6 5 5 6 6 5 5 7 6 6 6 5 7 6 6 6 5 7 6 6 6 5 7 7 6 6 6 5 7 7 6 6 6 5 7 7 6 6 6 6	7 6 5 7 6 8 6 6 7 8 8 6 6 7 7 8 8 6 7 7 8 8 6 7 7 8 8 8 7 8 8 8 7 8 8 8 8	H. L. G. 6 - 7 - 7 - 8 - 8 - 8 - 6 - 6 - 6 - 6 - 6 - 6 - 6	H. L. C. 8 61 7 12 7 6 6 7 6 6 6 6 7 7 6 6 6 6 7 7 7 7 7		8 6 7 6 6 6 6 8 7 8 8 6 7 8 8 6 7 8 8 7 74 8 6 7 7 8 8 6 7 7 8 7 7 6 2 7 6 6 8 8 8 8 8 7 7 6 2 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 41 6

¹ Rates for demand paper secured by prime bankers' acceptances, high 7, low 5½.

MONEY HELD OUTSIDE THE UNITED STATES TREASURY AND THE FEDERAL RESERVE SYSTEM, APR. 1, 1921.

	General stock.	Held in the United States Treasury as assets of the Government. ¹	Held by or for Federal Reserve Banks and agents.	Held outside United States Treasury and Federal Reserve System.	Amount per capita outside United States Treasury and Federal Reserve System.
Gold coin (including bullion in Treasury)	1	\$ 425, 716, 950	² \$1,607,219,944 362,379,242	\$395, 577, 262 210, 594, 517	
Gold certificates. Standard silver dollars. Silver certificates.	272, 112, 326	28,593,704	3 30, 882, 045	47, 199, 256	
Subsidiary silver. Treasury notes of 1890.	271, 111, 530	8, 443, 724	95,147,799	262 667 806	
United States notes	346, 681, 016	3,875,677 7,591,552	4 91, 142, 502 324, 443, 805	251, 662, 837 2, 933, 535, 838	
Federal Reserve bank notes	192, 991, 400	5, 855, 737 16, 868, 625	20, 562, 970 4, 965, 536	166, 572, 693	
Total: Apr. 1, 1921		496, 945, 969	2, 534, 743, 843	5,051,084,054	\$46, 91
Mar. 1, 1921	8, 084, 936, 396 8, 171, 237, 897	493, 976, 120 499, 358, 809	2, 385, 101, 578 2, 438, 773, 422	5, 205, 858, 698 5, 233, 105, 666	48, 41 48, 73
Jan. 1, 1921	8, 372, 970, 904 7, 887, 181, 586	494, 296, 257 485, 057, 472	2, 377, 972, 494 2, 021, 271, 614	5, 500, 702, 153 5, 380, 852, 500	51, 29 50, 19
Jan. 1, 1920	7, 961, 320, 139 7, 588, 473, 771	604, 888, 833 578, 848, 043	2,044,422,303 2,167,280,313	5, 312, 009, 003 4, 842, 345, 415	49, 81 45, 00
Jan. 1, 1919	7,780,793,606 6,742,225,784	454, 948, 160 356, 124, 750	2, 220, 705, 767 2, 018, 361, 825	5, 105, 139, 679 4, 367, 739, 209	47. 83 41. 31
July 1, 1918 Jan. 1, 1918 July 1, 1917	6, 256, 198, 271 5, 480, 009, 884	277, 043, 358 253, 671, 614	1,723,570,291 1,280,880,714	4, 255, 584, 622 3, 945, 457, 556	40. 53 37. 88

¹ Includes reserve funds held against issues of United States notes and Treasury notes of 1890 and redemption funds held against issues of national-bank notes, Federal Reserve notes, and Federal Reserve Bank notes, but excludes gold and silver coin and bullion held in trust for the redemption of outstanding gold and silver certificates and Treasury notes of 1890.

² Exclusive of amounts held with United States Treasurer in gold redemption fund against Federal Reserve notes, and of gold held with foreign agencies but inclusive of balances in gold settlement fund standing to the credit of the Federal Reserve Banks and agents.

³ Includes Subsidiary silver.

⁴ Includes Treasury notes of 1890.

DISCOUNT RATES OF THE FEDERAL RESERVE BANKS.

DISCOUNT RATES APPROVED BY THE FEDERAL RESERVE BOARD UP TO MAY 1, 1921.

		Paper maturing	Paper maturing within 90 days.								
Federal Reserve Bank.	Secure	d by—		-	Bankers' acceptances maturing	Agricultural and live-stock paper maturing					
	Treasury certificates of indebtedness.	Liberty bonds and Victory notes.	Trade acceptances.	Commercial paper n. e. s.	within 3 months.	after 90 days, but within 6 months.					
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas. San Francisco.	6 16 6 6 6 6 51 16	6 51 6 51 6 51 6 51 6 6 6	6 7 6 6 6 7 7 6 6 6 7 6 6 7 7 6 6 6 7 7 6 6 6 6 7 7 6 6 6 7 7 6 6 7 7 6 7 7 6 7 6 7 7 6 7 6 7 6 7 6 7 6 7 6 7 7 6 7 6 7 6 7 7 6 7 6 7 6 7 6 7 7 6 7 6 7 7 6 7 7 6 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 6 7 7 7 7 6 7 7 7 6 7 7 7 6 7 7 7 7 6 7 7 7 7 6 7 7 6 7 7 7 6 7 7 6 7 7 7 6 7 7 6 7 7 6 7 7 7 7 7 6 7 7 6 7 7 7 7 6 7 7 7 6 7	6 7 6 6 6 7 7 6 7 6 7 6	6 6 6 6 6 5 5 5 5 6 5 6 6 6 6 6 6 6 6 6	6 77 6 6 6 7 7 6 7 6 7 6					

¹ Discount rate corresponds to interest rate borne by certificates pledged as collateral.

Note.—Rates shown for St. Louis and Kansas City are normal rates, applying to discounts not in excess of a basic line fixed for each member bank by the Federal Reserve Bank. Rates on discounts in excess of the basic line are subject to a ½ per cent progressive increase for each 25 per cent by which the amount of accommodation extended exceeds the basic line, except that the maximum rate charged by the Kansas City bank does not exceed 12 per cent.

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