FEDERAL RESERVE BULLETIN

NOVEMBER, 1930

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ISSUED BY THE FEDERAL RESERVE BOARD AT WASHINGTON

Recent Gold Movements Seasonally Adjusted Index of Factory Employment Condition of All Member Banks Report of the Agent General for Reparations



UNITED STATES GOVERNMENT PRINTING OFFICE WASHINGTON: 1930

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FEDERAL RESERVE BULLETIN

VOL. 16

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No. 11

REVIEW OF THE MONTH

Gold holdings of the United States increased in October, as is not unusual at this season of

Recent gold imports

the year when exports of American products are in largest volume and dollar exchange is at

a premium. Recent gold imports, however have not come from Europe, but from the Orient and South America, where special conditions have resulted in particularly sharp declines of the exchanges. The total stock of monetary gold in the United States at the end of October was \$4,530,000,000, an amount \$140,000,000 above that of a year ago but \$150,-000,000 below the peak figure of May, 1927. A survey of gold movements in the past year with some reference to earlier years is presented in this review.

The chart shows the monetary gold stock of the United States from 1922 to date. Between

Gold movements: 1927-1929

May, 1927, and June, 1928, the United States lost \$580,000,000 of gold as the result largely of a lower level of money rates in

this country than prevailed in other parts This movement was reversed of the world. following the rise in money rates in the United States, which began early in 1928, and by October, 1929, this country's stock of gold had increased by \$280,000,000, most of the gold coming from Canada, England, Germany, and Argentina. Gold imports in the first 10 months of 1929 were on a large scale and were due to movements of funds to the United States caused by the prevailing high level of money rates, the increasing participation of foreigners in the American stock market, and the diminution in foreign capital flotations in this country. Toward the end of October, 1929, the fall in security prices and the accompanying rapid from Japan amounted to \$140,000,000. China

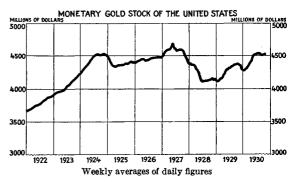
decline in money rates was reflected in an outward movement of gold, particularly to France and England, causing a decrease of \$100,000,000 in the monetary gold stock of the United States by the end of the year.

Money rates abroad, which had been kept up largely to protect the reserves of foreign

First half of 1930

countries against the attraction of speculative and high-money conditions in the United States,

declined rapidly when these conditions had changed. After the beginning of 1930 there was a cessation of the outward movement of



gold, and during the first half of the year gold movements between the United States and Europe were on a small scale. In the meantime, however, gold flowed into the United States in the amount of \$225,000,000, coming largely from Japan, China, Brazil, and other Central and South American countries. In the case of Japan the exports followed upon the return of the country to the gold standard, which involved removal of all restrictions on gold movements. Decreased exports of silk to the United States and of cotton goods to China and India contributed to the weakness of Jap-Taking the first 10 months of anese exchange. 1930 as a whole, gold imports to this country

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also contributed to the flow of gold to the United States, but in this case, since the country is on a silver basis, her exports of gold were in much smaller volume, amounting in all to about \$22,000,000. An important factor in this movement was the drop in the price of silver, which resulted in an increase to China in the cost of goods imported from abroad. Gold movements from Central and South America amounted to about \$138,000,000 during the first 10 months of the year, and reflected chiefly a decline both in the volume and in the prices of raw materials exported by these countries, following upon a long period of conditions in the United States unfavorable for the flotation of foreign bonds. Declining value of exports and the absence of the usual volume of borrowing from abroad left these countries no alternative other than to cover their unfavorable balance of payments through the export of gold.

During July and August gold continued to flow into the United States from the Orient and from South America, but there were at the same time exports of gold from this country to France and to Canada. The circumstances leading to these movements call for a brief explanation.

France has been the principal taker of gold in the world market since the spring of 1927,

Movement to France soon after the value of the franc was stabilized at approximately its present level. During the

period immediately following stabilization, large foreign balances were accumulated by the Bank of France, the French commercial banks, and the Government, chiefly in consequence of repatriation of French capital as the confidence of the French people in the stability of their currency was reestablished. Until the spring of 1929 the Bank of France utilized a part of its foreign balances for the purpose of building up its gold reserves. From that time on, however, the bank has kept its foreign balances at an approximately constant level and has taken no direct part in the importation of gold. Gold movements into France, however, have continued with little interruption, the imports

being arranged by commercial banks, which have been under the necessity of meeting a growing demand for currency and have drawn upon their foreign balances for the purpose of importing gold to be exchanged for notes at the Bank of France. The increased demand for currency in France has been due in part to an increase in the country's business activity and its prosperity, but has also reflected a reduced velocity of circulation such as usually follows stabilization of a currency.

While the Bank of France has not directly imported gold since the spring of 1929, about \$550,000,000 of gold has been added to its reserves between that time and the autumn of 1930. French imports of gold during this period, not being in response to central bank policy, have come from different countries at different times, depending on market conditions. Between June and October, 1929, most of the gold came from England, where money rates at that time were lower than in the United States or Germany. After the break in the stock market in the United States in the autumn of 1929 and the subsequent decline in money rates in this market there was a considerable movement of gold to France from this country. There followed a period of several months during which gold movements to France ceased altogether, and there was even an export from France to Germany in response to the higher rates prevailing in that country. The movement toward France was soon resumed, however, gold once more being shipped from England. By the summer of this year the amount of gold imported from England to France was in such large volume that the Bank of England no longer paid out gold of the degree of fineness required by the Bank of France (995/1000 fine), but began to exercise its legal authority to pay out gold of lesser fineness, known as standard gold (916%/1000 fine). French purchasers of gold from the Bank of England were thus forced to pay the cost of refining it, and this fact, together with some tightening of money rates in London as a result of previous gold losses, led to a diversion of French purchases to the United States,

from which \$65,000,000 of gold was taken in July and August. Since that time the French demand for gold has once more turned to England and for a period to Germany.

From an international point of view, the significance of this movement is found in the fact that for several years France has had a continuous demand for gold, first from the central bank and later from the commercial banks, coupled with the ability to satisfy this demand by the use of large foreign balances. In these circumstances gold has moved to France in an almost uninterrupted stream, though the origin of this gold has shifted from time to time in response to changes in relative money-market conditions.

Gold movements between Canada and the United States are to a considerable extent seasonal in character. In the Canadian gold autumn months, when Canamovements dian demand for currency is at its maximum, there is usually a movement of gold from the United States to Canada, while after the turn of the year, when currency returns from circulation, surplus funds are transferred to the United States, causing an export of gold from Canada to this country. Over a series of years the result of gold movements between the United States and Canada has been a net export from Canada of an amount of gold not infrequently approximating her annual production of about \$40,000,000. Movements during the past two years, however, have not followed the usual course. During 1928 the high level of money rates prevailing in the New York market caused Canadian banks, in addition to the usual exports, to borrow \$40,000,000 from the Finance Minister and to export this amount in gold, so that Canadian gold exports to the United States during that year were approximately twice as large as usual. In 1929 gold exports from Canada continued, and Canadian reserves declined to a point where informal measures for the cessation of further movements were adopted. During the period of high money rates in New York in 1929 Canadian balances were not withdrawn from this country, and |

seasonal requirements were met by the Canadian banks through additional borrowing from the Finance Minister. In the autumn of 1929, after the stock-market break and the decline in money rates in this country, Canadian exchange continued to be low, owing to an unusually small volume of wheat exports and also to a movement of funds from Canada for the protection of margins in the New York stock market. After the turn of 1930, currency returning from circulation was used by the Canadian banks to reduce their indebtedness to the Finance Minister, and consequently the usual flow of funds and of gold from Canada to the United States did not occur in January of this year. The banks, in fact, drew upon their dollar funds to meet the unfavorable balance of payments arising from the decline in wheat exports. By the middle of the year, however, Canadian exchange, owing to the low level of rates in New York and to the flotation of Canadian securities in this market, advanced to the gold-import point, and about \$20,000,-000 of gold was imported from the United States during the third quarter of the year, an unusual movement at that season, which in part restored the Canadian gold reserves diminished by the exceptionally large gold exports of 1928. More recently there have been additional gold exports to Canada, but in smaller volume and in accordance with the usual movements at this season.

The following table brings together the figures of gold movements between the United Summary of figures States and other countries for the past year. During that period the gold stock of the United States increased by \$140,000,000, of

United States increased by \$140,000,000, of which \$122,000,000 represented net imports from abroad, the difference being accounted for by domestic production and a change in gold earmarked for foreign account. The table shows gold movements for the entire year and for the periods that have been discussed above— (1) November and December, 1929, when gold was exported, chiefly to France and England; (2) January to June, 1930, when gold was received largely from Japan and South America; (3) July and August, 1930, when gold was exported to France and Canada; and (4) September and October, 1930, when once more there were gold imports from Japan and South America.

United States Gold Imports (+) and Exports (-)In millions of dollars

	nimons o	a donars	J		
	1929		1930		1929-30
Country	Novem- ber and Decem-	ary to	July and August	Septem- ber and October	1929, to
France England Switzerland Canada Japan Other Far Eastern countries. Brazil		-8 +16 +114 +15 +59	-65 -13 +8 +8 +8 +6	-15 +18 +2 +17	$-136 \\ -21 \\ -10 \\ -7 \\ +140 \\ +27 \\ +83$
Other Central and South American countries Other countries	$+7 \\ -8$	+35 +26 1	+17	+1 +5 -1	+55 -8
Total	-88	+223	-39	+26	+122

As already stated, the net effect of gold movements during the past Concentration year on the United States has in commercial been to increase its stock of countries gold. The table below shows gold holdings of some of the principal countries

of the world at the end of September, 1929 and Total monetary gold holdings of the 44 1930. principal countries of the world, not including Russia, increased by about \$470,000,000 during the year, as the result of new production and the absorption into central reserves of gold previously held by commercial banks and by individuals.

GOLD HOLDINGS OF PRINCIPAL CENTRAL BANKS AND GOVERNMENTS 51

In	millions	of	dollars]	I
In	millions	of	dollars	

Country	Oct. 31, 1929	Oct. 31, 1930 ¹	Increase or de- crease (—)
United States (Treasury and F. R. banks)	4, 023	4. 183	160
France	1, 570	1, 992	422
England		782	139
Germany	531	519	12
Italy	272	278	6
Netherlands		171	-7
Belgium	143	180	37
Switzerland	103	129	26
Argentina	476	429	-47
Brazil.	151	43	-108
Australia			-26
Japan	541	418	-123
Canada	77	122	45
			1

Partly estimated on basis of latest available figures.

In Europe there has been a large growth in the gold stock of France, the holdings of the Bank of France amounting now to about 50,000,000,000 francs, or \$2,000,000,000. The increase in the gold stock of the United States and France, however, has not been at the expense of other European countries. England's losses of gold to France and to Germany have been more than made up by the receipt of new gold from South Africa and by imports from Australia, where the decline in the price of wool and wheat has been largely responsible for an unfavorable balance of payments leading to a decline in the exchange value of the Australian pound and to exports of gold. Of the other major European countries, Germany's gold holdings increased considerably until June, but declined more recently to a level somewhat below that of a year ago. Gold reserves of the Netherlands also declined somewhat, while there was a substantial increase in the reserves of Switzerland, Belgium, and Canada, and a smaller increase in those of A characteristic of the year's gold move-Italy. ments has been a shifting of gold from outlying countries producing raw materials, which have felt the effects of the decline in the value of their exports, to France, the United States, England, and other important commercial countries.

Change of Agent at Chicago Bank

Mr. William A. Heath, who has served as Federal reserve agent and chairman of the board of directors of the Federal Reserve Bank of Chicago since January 1, 1917, has resigned, effective December 31, 1930.

The board has appointed Mr. Eugene M. Stevens, of Chicago, as class C director, with designation as chairman of the board of directors and Federal reserve agent, in succession to Mr. Heath, effective January 1, 1931.

Changes in Foreign Central Bank Discount Rates

The following changes have been made since the 28th of September in the discount rates of central banks in foreign countries:

September 29.-South African Reserve Bank, from 6 to $5\frac{1}{2}$ per cent.

October 1.-Bank of Latvia, from 6-7 to 6 per cent. October 3.—Bank of Poland, from 6½ to 7½ per cent. October 7.-Bank of Estonia, from 8 to 7 per cent

and Bank of Japan, from 5.48 to 5.11 per cent.

October 9.—German Reichsbank, from 4 to 5 per cent.

October 10.—Bank of Danzig, from 4 to 5 per cent.

CONDITION OF ALL MEMBER BANKS ON SEP-**TEMBER 24, 1930**

Detailed figures of condition of all member banks on September 24, including the detailed classification of loans, are given on pages 753-761 of this issue of the BULLETIN, and in greater detail by States, cities, and class of bank in Member Bank Call Report No. 49.

During the third quarter of the year total loans and investments of member banks, amounting on September 24 to \$35,472,000,000, decreased by \$180,000,000, reflecting a decrease of \$475,000,000 in their loans and a further increase of \$290,000,000 in their investments. In comparison with a year ago—the call date of October 4, 1929-member bank loans decreased by \$1,425,000,000 and their investments increased by \$985,000,000.

The detailed figures for the third quarter of 1930 show the influence on the demand for bank credit of the continued business recession, since much the larger part of the decrease in loans was in the further decline of \$365,000,000 in loans to customers, exclusive of loans secured by stocks, bonds, or real estate. Customer loans secured by real estate showed little change during the quarter, while security loans to customers (exclusive of loans to banks) decreased by \$200,000,000. At the same time the member banks increased by \$43,000,000 their total holdings of paper purchased in the open market, including both acceptances and commercial paper, and increased their street loans at New York City by \$107,000,000. The open-market portfolio of the member banks at the end of the third quarter amounted altogether to \$14,000,000,000, including \$267,000,-000 of acceptances, \$523,000,000 of commercial paper, \$2,472,000 of street loans, and \$10,-734,000,000 of bonds and other securities. The following table shows the classified loans change arrived at after subtracting the call

19367-30-2

and investments of all member banks on September 24 and the changes for the quarter and for the year:

ALL MEMBER BANKS-LOANS AND INVESTMENTS

[Preliminary figures in millions of dollars]

	Sept. 24, 1930	Change from June 30, 1930	Change from Oct. 4, 1929
Loans and investments-total	35, 472	-183	442
Loans to banks—total On securities All others	466 175 291	$-70 \\ -55 \\ -14$	-175 (1) (1)
Loans to customers (exclusive of banks)total. Secured by stocks and bondstotal. To brokers outside New York	21, 010 7, 864	$-555 \\ -196$	-2, 239 -245
To other customers	774 7, 090 387 2, 776	$-45 \\ -151 \\ +1 \\ +7 \\ +7 \\ -45 \\ +7 \\ +7 \\ +7 \\ +7 \\ +7 \\ +7 \\ +1 \\ +7 \\ +7$	$-165 \\ -79 \\ -5 \\ +16$
Otherwise secured and unsecured Open-market loans-total	9, 982 3, 262	-367 + 149	$^{+16}_{-2,006}$ +987
Purchased acceptances payable in United States Purchased acceptances, etc., pay-	205 62	+36 16	+112
able abroad Commercial paper purchased Street loans ²	$523 \\ 2,472$	+23 +107	+296 + 587
Investments-total United States Government securi-	10, 734	+292 +34	+985 +74
ties Other securities	4, 095 6, 639	$^{+34}_{+258}$	+74 + 912

 Figures not available prior to Mar. 27, 1930.
 ² Loans on securities to brokers and dealers in securities in New York City.

These figures are shown separately elsewhere in this BULLETIN (p. 753) for banks in New York City, Chicago, other reserve cities, and outside such cities (country banks) for the whole period for which they are availablefrom October 3, 1928, to September 24, 1930.

SECURITY LOANS IN SEPTEMBER, 1930

By combining statistics from the quarterly member bank call report and monthly reports of the New York Stock Exchange, it is possible to arrive at quarterly data for aggregate loans secured by stocks and bonds that are more comprehensive than those available weekly or monthly. This aggregate, here designated as total reported security loans, includes those reported on call dates by all member banks and in addition that part of the brokers' borrowings at New York City reported by the stock exdate figures of member bank loans to brokers in New York. It includes no security loans for nonmember banks or nonbanking lenders except those made at New York to members of the stock exchange. This compilation, now available for quarterly intervals from October, 1928, to September, 1930, is given in the following table, which shows separately security loans of member banks, by class of loan, and those of other lenders on securities.

The compilation shows that the total of reported security loans decreased further during the third quarter, by \$500,000,000, and that the total decrease from October, 1929, when these loans were at their peak, to September, 1930, amounted to \$5,450,000,000. For member banks the decrease in security loans for the quarter was \$150,000,000 and for other lenders included in the compilation it was \$350,000,000.

TOTAL REPORTED SECURITY LOANS of dollars]

ions of	dol	lars
	lions of	lions of dol

			By me	· - · ·			
Call date	Total	Total	To banks ¹	To brok- ers in New York City	To brok- ers else- where	To others	By other lend- ers ²
1928-Oct. 3 Dec. 31 1929-Mar. 27 Oct. 4 Dec. 31 1930-Mar. 27 June 30 Sept. 24	12, 429 14, 062 14, 613 15, 144 16, 974 12, 835 12, 644 12, 015 11, 521	8, 819 10, 172 9, 693 10, 094 10, 314 10, 505 10, 334 10, 655 10, 511	274 269 274 335 320 357 260 230 175	1, 809 2, 556 1, 879 2, 025 1, 885 1, 660 2, 344 2, 365 2, 472	850 975 1,014 921 939 803 706 819 774	5, 796 6, 373 6, 526 6, 813 7, 170 7, 685 7, 024 7, 242 7, 090	3, 610 3, 890 4, 920 5, 050 6, 660 2, 330 2, 310 1, 360 1, 010

¹ Security loans to banks, not available separately prior to 1930, estimated for 1928 and 1929 at half of total loans to banks.
² Total borrowings at Naw York as reported for end of month by members of Stock Exchange minus loans to brokers in New York as reported for call dates by all member banks; resulting figures, except in December and June, reflect in part differences in these dates.

NATIONAL SUMMARY OF BUSINESS CONDITIONS

[Compiled October 21 and released for publication October 24]

Volume of factory production increased by about the usual seasonal amount in September, while factory employment increased somewhat less than in other recent years. The general level of prices, which had advanced during August, declined during September and the first half of October. At member banks in leading cities there was a liquidation of security loans, and a considerable growth in commercial loans and in investments.

Industrial production and employment.-Output of factories increased seasonally in September, while that of mines declined. The board's seasonally adjusted index of production in factories and mines, which had shown a substantial decrease for each of the preceding four months, declined by about one-half of 1 per cent in September. Production of iron and steel, lumber, and cement decreased, and the output of automobiles continued to be in small volume. Activity in the textile industries, including cotton, wool, and silk, increased substantially, and stocks of cotton cloth were further reduced. At bituminous coal mines there was an increase in output of more than seasonal amount; output of copper was larger than in August, and there was a further increase in stocks of copper. Anthracite coal and petroleum production and shipments of iron ore declined.

Employment in manufacturing establishments increased less than is usual at this season, the increase being chiefly in fruit and vegetable canning and in clothing industries, while reductions in number of employees were reported for the iron and steel, automobile, and lumber industries. Outside of factories increased employment was reported in retail establishments and coal mines.

Residential building increased materially in September, contrary to the usual seasonal trend, while the volume of contracts for commercial buildings and public works and utilities decreased. Total value of building contracts awarded, as reported by the F. W. Dodge Corporation, showed little change during the month. In the first 10 days of October there was an increase in the daily average volume of contracts awarded.

Department of Agriculture estimates based on October 1 conditions indicate somewhat larger crops than the estimates made a month earlier for cotton, corn, oats, hay, potatoes, and tobacco.

Distribution.—Freight car loadings continued at low levels during September, the increases reported for most classes of freight being less than ordinarily occur in this month. Dollar volume of department-store sales increased by nearly 30 per cent, an increase about equal to the estimated seasonal growth. Wholesale prices.—The index of wholesale

Wholesale prices.—The index of wholesale prices on the average for the month of September as a whole, according to the Bureau of Labor Statistics, was at about the same level as in July and August. The movement of prices, however, was upward in August, reflecting chiefly advances in the prices of livestock and meats, while in September the movement was downward, reflecting declines in a large number of commodities, including grains, livestock, meats, cotton, and copper. In the first half of October there were wide fluctuations in many agricultural prices, decreases in prices of nonferrous metals, and considerable increases in the prices of sugar and coffee.

in the prices of sugar and coffee. Bank credit.—Security loans of reporting member banks in leading cities increased in the latter part of September, but declined rapidly early in October, the decline reflecting a large volume of liquidation in loans to brokers and dealers in securities. Commercial loans, which up to the last week in September had not shown the usual seasonal growth, increased by \$150,000,000 in the following three weeks. The banks' holdings of investments continued to increase.

In response to the seasonal demand for currency, outstanding volume of reserve-bank credit showed an increase of \$30,000,000 on the average between the weeks ending September 20 and October 18.

Money rates in the open market continued at low levels. The yield on high grade bonds declined further until early in October, when bond prices declined and there was a corresponding rise in yields.

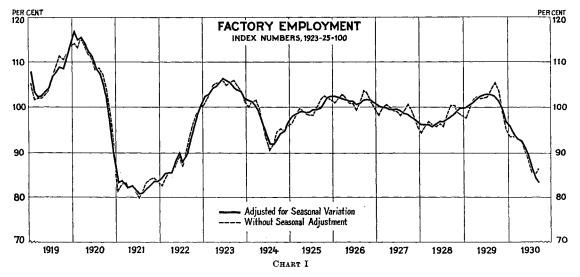
SEASONALLY ADJUSTED INDEX OF FACTORY EMPLOYMENT

Employment in manufacturing industries fluctuates every year from month to month in response to seasonal requirements, and adjustment for these regular fluctuations is necessary in order to observe changes in employment that reflect variations in the general condition of business. For this reason the Federal Reserve Board's index of factory employment, which has been described in the BULLETIN for November, 1929, has now been adjusted to allow for seasonal variation, and the new general index, with component indexes, is presented in the accompanying tables and charts.

In making this adjustment measures of sea- | change in number of workers employed in all sonal variation in employment have been deter- | manufacturing industries is about 4 per cent,

from the seasonally adjusted index, represented by the smoother solid curve.

While the amplitude of the purely seasonal swing varies slightly from year to year, it has been found that in general the monthly variation attributable to seasonal influences in the past 12 years has corresponded to that indicated by the curve in Chart II. This curve shows an index of average seasonal variation in employment in each month in relation to the average for the 12 months of a typical year. From the peak in mid-September to the low point of activity in mid-January the average seasonal change in number of workers employed in all manufacturing industries is about 4 per cent,



mined for each of the 54 manufacturing industries currently represented in the general index, and these measures have been used in computing adjusted indexes for particular industries, which in turn have been combined into group indexes and into a composite index. The composite index, adjusted for seasonal variation, is shown in Table 1 and Chart I, and indexes for 13 industrial groups and for individual industries included in the composite are given in Tables 3 and 4.

Manufacturing industries, as a group, have two busy and two dull seasons each year. Working forces are enlarged in the spring and again in the autumn months, and are reduced in midsummer and in midwinter. This typical seasonal movement is evident in the recurring divergence of the Board's unadjusted index, represented by the broken line on Chart I,

employment in September being in a typical year about 2 per cent larger, and in January 2 per cent smaller than the average for the year. In terms of number of workers this seasonal fluctuation is equivalent to about one-third of a million, out of some 8,400,000 wage earners employed in factories, although the actual seasonal displacement of labor may be considerably greater than this, since it does not follow that those seasonally unemployed in one industry in excess of the average are absorbed by employment in some other industry. The relatively narrow range of the seasonal fluctuation in employment in manufacturing industries taken as a group results partly from the overlapping of slack and busy seasons which come in different months in different industries, and partly from a desire on the part of employers to keep their

Although seasonal variations in employment are the rule, rather than the exception, regular changes of this character do not appear in all industries. Employment is relatively free of seasonal factors, for example, in the manufacture of electrical machinery and of paper and wood pulp. In certain machinery and metal industries seasonal variations in employment are smaller than in manufacturing industries This is true of foundries and taken as a group. machine shops, railway car building and repair shops, machine-tool factories, and steel works and rolling mills. The same is true also of newspaper printing. At the other extreme, showing regular and wide seasonal fluctuations, are the industries in which perishable raw materials are used—such as fruit and vegetable canning; those in which, as in the clothing industries, style is the dominant factor and in



CHART II.—These figures were computed by (1) dividing the composite unadjusted index for each month by the adjusted index for the corresponding month, in order to determine monthly divergences due to seasonal factors, which vary somewhat from year to year, and (2) grouping these ratios by months—all the Januaries, all the Februaries, etc., and (3) selecting therefrom a set of 12 typical monthly ratios.

which, consequently, inventories may result in costly losses; and those in which demand is affected by weather—as, for instance, in the manufacture of ice cream.

The magnitude of fluctuation in individual industries is shown in Table 2, which gives the indexes of seasonal variation used in computing the Board's adjusted index of factory employment. It is to be noted that these measures of seasonal variation apply to the number of wage earners employed in the pay-roll period ending nearest the 15th of the month—the period covered by the original reports collected by the Bureau of Labor Statistics and by the State departments of labor of New York and New Jersey—and are not necessarily representative of complete calendar months.

Method of seasonal adjustment.—The measures of seasonal variation given in Table 2 have been derived from the unadjusted relatives

(1923-1925=100) for each of the industries in the index. Reports of employment from which seasonal indexes were computed extend over a period of either $11\frac{1}{2}$ or of $7\frac{1}{2}$ years, the period covered by the data beginning in January, 1919, for 22 of the industries and for the remaining 29 in January, 1923.

In computing these measures of seasonality, the method used is the "ratio-to-moving-average" method, used also in the board's indexes of production and trade, and described in the FEDERAL RESERVE BULLETIN for April, 1928. In the case of each industry, as a first step, the influence of long-time trend and of broad cyclical fluctuations was determined by computation of a 12-month moving average of the unadjusted relatives (1923-1925=100) for the industry. This moving average, centered at the seventh month, approximately measured nonseasonal influences, with exception of those which have been purely accidental or erratic. Each monthly relative of the original unadjusted index was then divided by the moving average for the month, the resulting ratios reflecting solely the influence of seasonal and accidental variations. These seasonal ratios were then grouped by months and arrayed in order of magnitude-those for January of different years in one array, and similarly those for each other month in separate arrays. The very high and low ratios were then struck out, in order to eliminate so far as possible the influence of erratic fluctuations. Finally, 12 monthly ratios were derived by averaging the remaining medium-sized ratios for each month, and these ratios, adjusted to average 100 for the 12 months, became the measure of seasonal movement.

It was found that seasonal fluctuations in employment have for the most part been fairly regular-that not only has the maximum and minimum of employment occurred in the same month year after year, but that the relative variation from month to month has been reasonably constant over a number of years. Where this has been the case, a single set of seasonal indexes, derived as described above, has given a fair picture of seasonality. In a number of industries, however, there was evidence of a shift in the periods of seasonal fluctuation. In such industries employment in certain months may have become progressively larger, and in other months progressively smaller over the course of several years, so that occasionally it happened that the month of greatest activity during the early part of the period under review had gradually yielded first place to another month. In any industry in which the shift in seasonality was marked, changing seasonal indexes varying from year to year have been computed. The particular industries for which such indexes were computed are indicated in Table 2.

Adjusted indexes, in which the effect of seasonality is eliminated, were derived by dividing the unadjusted monthly indexes for each industry by the monthly index of seasonal change. These seasonally adjusted indexes were combined into group indexes and into a general index for all manufacturing industries.

TABLE 1.--INDEX OF FACTORY EMPLOYMENT, ADJUSTED FOR SEASONAL VARIATION

[Monthly average 1923-1925=100]

	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
January	107.9	116. 9	83. 0	84.1	102.3	101. 4	98. 0	102.4	100. 0	96.1	99. 8	95. 6
February	103.3	114. 8	83. 6	85.2	102.7	101. 1	98. 4	102.1	99. 9	96.1	100. 3	93. 9
March	102. 2	$115.3 \\ 114.2 \\ 112.1$	82.9	85.4	104.2	100, 5	98.8	101.8	99, 8	96.1	100. 9	92.9
April	102. 3		82.2	85.6	104.7	99, 1	99.0	101.4	99, 4	95.7	101. 7	92.4
May	103. 2		82.4	87.9	105.4	96, 4	98.8	101.2	99, 4	96.1	102. 4	91.4
June	104. 1	111. 1	81.4	89.8	106.4	93. 9	98.9	$101.2 \\ 100.5$	99.5	96.7	102.7	89.7
July	106. 9	108. 9	80.4	87.6	105.9	91. 7	99.4		99.2	96.6	102.8	86.6
August September October	107.9 109.0 108.4	107.6 105.2 101.9	80. 9 82. 0 82. 7	89.7 92.0 95.1	105.3 104.3 103.7	91. 7 92. 8 94. 0	99, 4 99, 8 101, 0	100.7 101.5 101.7	98.7 98.4 97.6	97.3 97.7 98.3	102.7 102.4 101.3	84. 4 83. 4
November	111. 1	96. 7	83. 5	98.0	103. 3	94.7	102. 1	101. 4	97. 1	99. 3	99. 3	
December	113. 8	90. 2	83. 4	100,2	101. 9	96.5	102. 4	100. 9	96. 5	99. 8	96. 9	
Annual index	106.7	107.9	82.4	90. 1	104. 2	96. 2	99.6	101.4	98.8	97.2	101. 1	

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TABLE 2.—FACTORY EMPLOYMENT: INDEXES OF SEASONAL VARIATION, BY INDUSTRIES

[Average for the year=100]

	Janu- ary	Febru- ary	March	April	May	June	July	August	Sep- tember	October	No- vember	Decem- ber
IRON AND STEEL AND PRODUCTS: Steel works and rolling mills	98.8	101.5	102.2	102.1	101. 5	99.7	98.6	99.2	99. 9	99.3	98.8	
Hardware 1	100. 5 97. 1	101.7 97.7	101. 5 97. 4	99.0 97.8	101. 0 99. 4	100. 5 100. 9	98. 1 101. 3	97.5 103.4	100.7 103.3	99. 5 102. 3	100. 0 100. 2	100. 0 99. 2
Steam fittings Stoves 1 Cast-iron pipe	96. 9 88. 0 95. 6	101.0 97.0 96.3	101. 3 99. 0 99. 4	101. 1 100. 5 101. 0	100.7 101.0 102.0	100.7 100.5 102.4	97.9 93.0 103.2	101.4 100.4 102.6	102.3 105.2 101.3	102. 1 108. 6 100. 3	99.5 106.1 98.3	95. 1 100. 7 97. 6
MACHINERY: Foundry, machine-shop products	98.0	100.5	101.8	101.6	101.0	101.1	100.5	100.2	99.8	99. 2	98.1	98.2
Machine tools	100. 0 103. 4	101.8 106.4	101. 9 107. 4	100. 9 106. 3	100.2 103.1	99. 2 99. 3	98.6 94.7	98. 9 94. 7	98. 8 92. 8	99.7 95.3	99. 9 96. 9	100. 1 99. 7
TEXTILES AND PRODUCTS: A. Fabrics— Cotton goods 1	101.5	102. 5	102. 0	100. 0	99.6	99. 0	96. 8	95.6	98.5	100. 8	101.6	102. 1
Woolen, worsted manufactures- Woolen and worsted goods Carpets and rugs	102. 1 102. 5	102. 0 102. 3	99. 9 103. 6	98.4 102.7	97.8 101.0	98. 2 97. 6	95. 1 94. 7	97. 9 96. 3	98. 9 96. 8	102.4 99.1	103. 9 101. 3	103. 4 102. 1
Hosiery and knit goods Silk manufactures. Dyeing and finishing textiles ¹ B. Wearing apparel—	99.0 99.4 100.7	101. 2 101. 5 102. 5	102. 1 102. 7 102. 5	102. 2 101. 4 103. 0	100. 9 100. 4 99. 8	100. 2 98. 7 99. 0	95. 7 97. 8 96. 5	97, 3 98, 4 96, 0	99. 0 99. 1 97. 5	100.7 100.6 100.2	101. 4 99. 8 100. 8	$100.3 \\ 100.2 \\ 101.5$
Clothing, men's	99.9 101.2 102.6	102.7 102.0 108.7	102.0 102.0 113.4	96. 9 100. 3 108. 7	95. 1 98. 8 97. 3	100.3 96.9 87.5	100. 9 95. 2 84. 3	103. 0 95. 9 92. 0	102.4 98.9 102.1	101. 1 102. 0 106. 5	97.4 103.3 98.3	98.3 103.5 98.6
Millinery 1	94.5	98.0	113. 1	117.1	108.0	98.0	70.5	83. 5	107.4	105.5	103.5	98. 0 96. 5
FOOD AND PRODUCTS: Baking ¹ Slaughtering and meat packing ¹	103.5	98.2 103.0 98.0	99.4 98.0 96.1	98.4 95.9 90.9	99, 4 96, 6 89, 9	101. 9 99. 5 89. 8	100.7 100.0 87.7	99, 5 99, 0 93, 6	101. 4 99. 0 110. 0	103. 2 99. 5 120. 7	101. 1 101. 0	99. 2 105. 0
Confectionery Ice cream Flour 1 Sugar refining, cane 1	85.7 99.5 92.0	86.5 100.0 95.7	89.3 99.2 101.0	96. 1 96. 1 95. 5 102. 7	104.7 96.0 100.5	96. 2 101. 7	120.6 99.7 104.0	117.4 102.0	109.1 103.9 101.1	97.9 104.5 103.5	115. 0 90. 2 102. 8 99. 0	110.3 87.8 100.7 93.3
PAPER AND PRINTING: Printing, book and job	102.3 100.4	101. 0 100. 2	101.2 100.2	99.3 100.3	98.9 100.3	98. 7 99. 7	98. 7 98. 7	98.3 98.0	99.4 98.9	99. 1 100. 2	100.6 101.3	102.5 101.8
Printing, newspapers and periodicals Paper boxes		98.6	98.7	97.2	96.2	96. 3	97. 2		101.6	105. 4	101. 3	101.8
LUMBER AND PRODUCTS: Lumber, sawmills. Lumber, mill work Furniture 1	97.5	95.7 98.6 98.8	96. 7 99. 8 99. 2	99.4 100.6 96.8	101. 5 100. 8 94. 5	102.6 101.1 94.6	102.2 101.4 96.5	102. 8 102. 0 100. 0	103. 2 101. 4 103. 5	101. 7 99. 9 108. 0	100.7 98.4 106.4	98. 0 98. 5 102. 7
TRANSPORTATION EQUIPMENT: Car building and repairing—steam Automobiles ¹ Shipbuilding	95.0	98.5 101.5 105.6	99.5 104.6 106.2	100. 7 106. 3 106. 1	100. 7 108. 5 102. 5	100. 8 102. 2 101. 2	100.6 99.7 97.7	100.3 102.5 94.6	100. 5 103. 0 93. 2	100. 5 100. 0 93. 8		99. 8 87. 5 100. 0
LEATHER AND MANUFACTURES: Boots and shoes ¹	100.3	102.5	101.1	97.8	95.6	94.5	100.0	103.5	105.0	104.2	99.0	96, 5
Leather CEMENT, CLAY, AND GLASS PRODUCTS:	101.8	103.1	102.4	99.2	97.6	97.1	98.2	99.5	100.1	99.9	100.7	100.4
Clav products— Brick, tile, and terra cotta. Pottery. Glass ¹	87.8 98.1 93.8	86.9 101.2 97.3	92.2 102.0 100.5	100.7 101.5 101.3	105.8 100.9 101.5	107.4 100.2 102.5	108.2 96.3 96.0	108.3 98.9 101.5	105. 8 99. 8 103. 5 105. 3	$102.4 \\ 100.6 \\ 102.9 \\ 104.0$	99.7 100.2 101.7	94. 8 100. 3 97. 5
NONFERROUS METAL PRODUCTS: Stamped and enameled ware	91. 5 96. 1	90. 8 102. 6	93. 5 106. 5	98.3 105.1	102. 0 103. 9	104.7 102.4	105. 2 97. 5	107.0 96.4	97.3	104.0 97.8	101. 3 98. 4	96. 4 96. 0
Brass, bronze, and copper	99. 5	101. 9	102.7	101.8	100.6	99.4	99.0	99.2	98.9	98, 8	98.9	99.3
Chemicals and drugs Petroleum refining Fertilizers 1	100.7 98.1 98.0	102.0 98.7 105.8	101. 3 99. 0 148. 0	100.9 100.0 160.8	98, 5 99, 8 91, 0	98.0 100.9 68.4	96.6 102.2 68.5	97.5 101.9 77.0	99. 9 101. 8 99. 0	101. 0 99. 8 97. 0	101. 9 99. 0 94. 5	101. 7 98. 8 92. 0
RUBBER PRODUCTS: Automobile tires and tubes Rubber boots and shoes 1	97. 9 103. 5	100. 4 102. 0	101. 4 98. 0	101. 7 97. 5	102. 0 95. 5	101. 9 94. 5	101. 9 95. 0	102. 9 95. 5	102. 8 102. 0	98. 4 104. 0	93. 6 105. 5	95. 1 107. 0
TOBACCO MANUFACTURES: Cigars and cigarettes ¹	91. 5 103. 6	98.3 106.3	98. 8 105. 0	97.6 99.3	98. 5 96. 3	99. 5 97. 8	98. 2 92. 9	99. 5 97. 9	103. 5 99. 0	106. 2 99. 7	106.3 100.1	102. 1 102. 1
MUSICAL INSTRUMENTS: Pianos and organs	103. 2	102.0	100.4	99.5	96.0	95.4	90.7	96.8	100.6	103.8	106.2	105.4

¹ In these industries there was evidence of progressive change in seasonal movement from year to year, and separate sets of seasonal indexes were computed for each year. They may be obtained from the Division of Research and Statistics; indexes shown are for the year 1929.

NOTE.--No seasonal variation in employment was evident in the following industries: Electrical machinery, paper and pulp, and electric carbuilding and car-repair shops.

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TABLE 3.—FACTORY EMPLOYMENT: INDEXES BY GROUPS

<u></u>		· · · ·		_							<u>.</u> .		
Year and month	Iron and steel	Machin- ery	Textiles	Food products	and	Lumber and products	Trans- porta- tion equip- ment	Leather and products	Cement, clay, and glass	Non- ferrous metals	Chemi- cals	Rubber products	Tobacco products
1919		117. 2 128. 9 77. 0 82. 2 107. 7 93. 6 98. 7 107. 9 100. 0 98. 8 116. 1	97, 9 98, 3 93, 1 97, 3 105, 3 95, 1 99, 6 97, 8 100, 8 95, 1 96, 9	109. 0 104. 1 94. 6 95. 4 102. 0 100. 0 98. 0 98. 4 99. 2 98. 7 99. 7	96. 9 104. 4 89. 1 92. 7 99. 2 99. 8 101. 0 103. 6 103. 1 101. 7 104. 2	93. 1 88. 2 74. 4 95. 5 100. 9 98. 1 101. 0 100. 5 92. 4 88. 1 88. 2	96. 3 104. 2 71. 6 78. 3 106. 9 94. 8 98. 3 98. 3 98. 3 98. 3 90. 7 94. 4	107. 6 98. 4 87. 8 97. 7 106. 2 96. 3 97. 5 96. 8 97. 2 93. 5 93. 7	84. 2 89. 3 73. 4 87. 7 100. 8 99. 0 100. 2 101. 9 97. 5 92. 4 89. 6	$114.7 \\ 121.3 \\ 74.5 \\ 90.1 \\ 107.1 \\ 95.0 \\ 97.9 \\ 99.5 \\ 97.4 \\ 96.7 \\ 101.1 $	$\begin{array}{c} 108.3\\ 97.1\\ 70.8\\ 81.0\\ 101.5\\ 95.9\\ 102.6\\ 102.6\\ 108.9\\ 107.9\\ 105.3\\ 112.3\end{array}$	102.5 91.8 105.7 104.6 104.0 108.7 108.1	$\begin{array}{c} 113.\ 0\\ 111.\ 8\\ 110.\ 4\\ 107.\ 2\\ 105.\ 8\\ 98.\ 8\\ 95.\ 4\\ 90.\ 8\\ 93.\ 6\\ 93.\ 6\\ 91.\ 6\end{array}$
1919—January February March June June July August September November December	109. 7 103. 3 98. 6 93. 8 92. 2 93. 9 101. 0 103. 0 102. 8 91. 3	121.0 118.2 114.5 113.2 107.9 108.7 114.2 117.9 122.4 126.8 131.2	90. 4 82. 9 84. 9 90. 3 95. 8 99. 4 105. 5 104. 7 103. 6 103. 6 105. 8 107. 6	114. 8 112. 5 110. 2 110. 4 108. 0 107. 4 106. 8 106. 8 106. 3 107. 3 109. 3	95. 4 95. 1 95. 2 94. 9 93. 4 96. 0 97. 5 98. 4 98. 2 97. 7 98. 9 101. 3	86.3 86.0 87.7 87.6 87.4 91.1 94.2 98.3 102.0 103.7 106.7	97. 4 94. 5 92. 4 91. 2 91. 2 95. 1 95. 9 99. 0 99. 0 99. 9 102. 4 105. 1	103. 9 102. 6 100. 4 101. 4 105. 4 107. 8 109. 0 110. 8 110. 8 110. 8 115. 4 116. 9	$\begin{array}{c} 73.3\\ 73.9\\ 75.1\\ 81.4\\ 85.7\\ 89.3\\ 82.4\\ 99.0\\ 91.7\\ 88.5\\ 88.4\end{array}$	110. 3 107. 2 104. 4 105. 4 109. 2 111. 8 118. 8 121. 6 120. 7 120. 7 122. 1 122. 1 123. 8			125. 2 126. 0 123. 1 112. 3 100. 7 90. 4 95. 1
1920—January February March Jure June July August September October December	110. 8 111. 8 110. 1 105. 1 109. 2 110. 4 107. 7 108. 4 107. 2 101. 7	134, 8 133, 0 135, 6 134, 3 132, 0 133, 0 133, 7 131, 0 128, 0 123, 2 117, 8 110, 4	109.0 105.9 107.7 108.8 108.8 105.6 99.4 96.2 94.0 89.6 81.7 73.0	111. 3 107. 4 106. 8 107. 8 107. 0 106. 1 103. 6 101. 7 98. 7 96. 6 94. 4	103. 6 102. 5 104. 3 104. 8 104. 7 104. 8 106. 7 105. 9 105. 3 103. 4 99. 8	105. 8 104. 8 97. 8 90. 4 83. 9 77. 7 85. 2 82. 3 80. 3 74. 8 70. 4	112. 4 109. 4 108. 9 106. 3 105. 8 106. 0 106. 0 106. 3 103. 7 98. 8 95. 0 92. 2	$\begin{array}{c} 116, 2\\ 112, 3\\ 111, 4\\ 111, 9\\ 110, 3\\ 105, 3\\ 98, 0\\ 93, 5\\ 84, 7\\ 82, 4\\ 78, 5\\ 76, 0\\ \end{array}$	91. 9 93. 3 90. 5 87. 9 88. 7 90. 2 89. 4 88. 6 88. 6 87. 1 89. 0 86. 4	$\begin{array}{c} 127.\ 4\\ 122.\ 1\\ 127.\ 2\\ 126.\ 8\\ 123.\ 5\\ 128.\ 5\\ 128.\ 4\\ 126.\ 7\\ 126.\ 6\\ 123.\ 5\\ 108.\ 0\\ 86.\ 6\end{array}$	100. 8 95. 9 97. 3 92. 7		118. 6 112. 0 112. 7 116. 4 111. 4 110. 9 110. 4 110. 9 109. 8 109. 8 109. 7 110. 4 110. 7
1921—January February April May June July August Septembor October November December	74.9 71.6 64.6 64.8 1 61.0 54.5 57.9 60.2 64.3 67.9	$\begin{array}{c} 103.\ 0\\ 94.\ 8\\ 89.\ 7\\ 84.\ 0\\ 78.\ 6\\ 674.\ 3\\ 68.\ 6\\ 67.\ 0\\ 65.\ 0\\ 65.\ 0\\ 65.\ 4\\ 67.\ 3\end{array}$	70, 9 81, 9 86, 4 91, 2 94, 4 96, 0 98, 6 98, 7 100, 8 100, 3 99, 2 98, 4	92. 4 93. 9 94. 3 93. 7 94. 2 93. 7 94. 2 93. 3 95. 8 97. 2 97. 9 94. 9	95. 8 94. 9 93. 6 89. 3 83. 9 84. 5 85. 2 86. 5 87. 2 88. 4 89. 9 89. 9	71. 4 73. 8 74. 7 74. 9 74. 4 74. 0 72. 4 72. 1 73. 4 75. 0 78. 3 79. 1	75. 0 71. 2 68. 4 67. 8 69. 0 67. 4 72. 0 73. 8 74. 6 75. 8 74. 9	73. 4 78. 4 80. 4 82. 0 86. 6 91. 3 92. 8 93. 3 94. 4 93. 8 93. 1 94. 4	77. 8 70. 6 71. 1 71. 8 72. 9 73. 1 72. 5 72. 6 74. 6 74. 6 74. 1 74. 3 75. 1	78. 3 69. 4 68. 5 70. 6 72. 9 72. 4 69. 5 75. 3 76. 2 80. 4 80. 9 79. 8	74. 4 74. 5 70. 3 70. 4 70. 2 68. 6 66. 3 65. 1		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
1922—January February April June July August September October November December	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	70. 0 71. 0 74. 5 76. 9 79. 8 80. 6 80. 8 82. 0 87. 1 90. 1 94. 1 99. 0	97. 8 98. 0 94. 1 92. 3 93. 3 93. 9 96. 1 97. 1 98. 4 99. 2 102. 4 104. 7	94. 4 95. 0 95. 1 93. 0 93. 4 93. 6 95. 3 96. 9 95. 0 95. 7 98. 7 98. 2	92. 6 92. 3 91. 1 89. 3 91. 5 91. 2 91. 7 93. 7 94. 0 04. 4 94. 4 95. 7	87. 3 91. 3 94. 4 92. 8 96. 3 98. 8 98. 3 97. 8 96. 2 97. 3 98. 1 96. 9	73. 6 73. 7 74. 8 75. 4 78. 3 57. 2 66. 3 77. 0 88. 3 93. 7 98. 6	94. 4 94. 5 91. 5 91. 0 91. 5 94. 8 97. 7 98. 7 101. 9 103. 2 105. 3 107. 4	76.0 77.0 81.4 83.2 87.1 87.8 88.8 91.4 93.1 94.0 95.7 96.7	78, 2 78, 0 78, 8 80, 1 85, 4 93, 1 96, 2 96, 2 96, 8 99, 3 102, 8 104, 4	86.8		106. 0 106. 3 103. 0 105. 4 105. 1 113. 2 112. 1
1923—January February April MayJuly July August September October November December	- 100.8 - 102.0 - 102.5 - 104.3 - 106.7 - 106.4 - 106.1 - 104.7	101.9 103.9 106.5 108.6 109.6 110.1 111.1 110.7 110.0 108.0 107.3 104.7	105.7 105.1 106.8 107.8 108.7 108.0 107.4 105.4 104.0 102.1 101.4 100.8	97. 6 99. 0 100. 7 101. 3 101. 6 102. 7 102. 8 103. 6 103. 8 104. 5 103. 7 101. 5	96. 1 97. 1 99. 3 100. 2 99. 7 100. 5 100. 1 100. 2 99. 4 99. 4 99. 4 99. 5	98. 8 100. 4 100. 3 100. 6 102. 2 103. 2 101. 9 101. 0 101. 1 100. 8 100. 2	104. 7 104. 4 105. 9 104. 5 105. 3 107. 9 107. 2 108. 6 108. 0 109. 2 110. 0 106. 6	108.3 108.5 107.8 109.9 108.7 109.0 104.8 104.0 104.0 103.1 103.7 102.3	98. 1 98. 5 98. 6 100. 0 101. 2 103. 0 101. 9 102. 4 102. 2 101. 6 100. 3 101. 0	106. 3 105. 9 107. 3 109. 6 110. 3 110. 8 110. 4 105. 0 105. 0 105. 0 102. 8 103. 1	99, 7 101, 4 102, 3 100, 4 105, 7 105, 0 103, 0 103, 0 100, 0 99, 2 99, 1 98, 5	111. 0 113. 7 114. 7 114. 7 114. 5 109. 9 102. 3 91. 7 85. 9 87. 4 91. 0 93. 3	109.0 107.7 167.8 109.4 107.1 106.9 104.7 103.1 103.8 104.1 103.4 102.9
1924—January February March A pril May June June July	105.3 106.2 105.6 99.1 94.7	101. 4 99. 0 98. 6 97. 9 94. 4 91. 6 88. 2	100. 7 100. 4 99. 2 96. 6 94. 6 93. 0 89. 2		100. 1 100. 4 100. 4 100. 7 100. 3 99. 9 98. 3	99. 5 101. 4 100. 7 100. 2 99. 3 96. 5 95. 5	104. 6 102. 7 101. 0 98. 3 93. 7 90. 6 90. 0	95.7 93.3	102. 1 101. 6 102. 9 102. 4 100. 6 98. 6 95. 9	103. 4 104. 2 102. 6 101. 1 96. 7 91. 8 88. 1	99. 3 98. 3 97. 9 97. 8 97. 8 97. 8 92. 9 93. 0		98.0

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TABLE 3.—FACTORY EMPLOYMENT: INDEXES BY GROUPS—Continued

Year and month	Iron and steel	Machin- ery	Textiles	Food products	Paper and printing	Lumber and products	Trans- porta- tion equip- ment	Leather and products	Cement, clay, and glass	Non- ferrous metals	Chemi- cals		Tobacco products
1924—August September October November December	88. 2 89. 8 92. 6 93. 2 97. 2	88. 0 88. 4 89. 8 91. 3 93. 9	90. 4 92. 7 94. 2 94. 1 96. 1	99. 4 99. 4 97. 8 97. 4 98. 6	98. 4 99. 9 99. 8 99. 4 99. 7	94. 9 95. 5 97. 4 97. 4 98. 7	89. 9 90. 1 91. 4 92. 0 93. 5	91. 9 94. 2 95. 8 97. 1 96. 9	96. 9 96. 0 96. 3 96. 6 98. 5	86. 6 88. 6 90. 0 92. 1 94. 8	92. 8 92. 8 94. 7 95. 6 97. 4	83. 9 92. 5 95. 0 101. 4 101. 0	99. 9 98. 3 90. 0 97. 3 97. 0
1925—January February March April June July August September November December	100. 3 98. 3 97. 2 96. 6 96. 4 96. 0 96. 0 97. 6 99. 2	95. 0 95. 2 96. 4 96. 5 96. 8 96. 9 97. 8 99. 8 99. 8 102. 4 105. 3 107. 1	97. 1 98. 3 99. 0 99. 6 99. 4 99. 8 100. 7 100. 2 99. 2 99. 9 100. 9 100. 4	99. 0 99. 2 98. 1 97. 2 97. 3 97. 3 97. 3 97. 5 97. 3 98. 1 98. 3 98. 6	100, 1 100, 6 101, 3 101, 2 100, 5 100, 5 100, 5 100, 7 100, 5 100, 7 101, 7 101, 8 102, 0	$\begin{array}{c} 100,8\\ 102,1\\ 100,9\\ 100,9\\ 100,2\\ 100,6\\ 100,3\\ 100,0\\ 100,8\\ 101,9\\ 101,8\\ 102,2 \end{array}$	94. 8 94. 4 95. 4 96. 7 96. 8 98. 0 98. 0 98. 4 99. 7 101. 9 104. 3 103. 3	97. 7 97. 9 98. 5 98. 7 98. 4 96. 0 96. 4 97. 0 98. 2 98. 2 98. 2 97. 2 95. 6	$\begin{array}{c} 99.1\\ 99.6\\ 100.4\\ 100.7\\ 100.0\\ 99.7\\ 100.4\\ 99.3\\ 100.0\\ 100.6\\ 100.8\\ 102.3\end{array}$	96, 6 96, 1 95, 1 94, 8 97, 3 98, 4 97, 9 98, 0 98, 0 98, 5 98, 9 100, 8 102, 2	97. 5 98. 7 100. 7 101. 6 102. 0 103. 9 103. 7 104. 8 105. 3 105. 8 106. 4	99.7 101.4 101.7 102.9 106.4 108.0 110.1 109.8 107.9 104.5 106.6 109.1	97. 4 96. 9 93. 9 95. 3 95. 5 95. 7 94. 3 93. 6 94. 3
1926—January February March April June July August September October November December	101. 1 100. 4 101. 2 100. 6 100. 6 101. 2 101. 3 102. 2	108, 2 108, 1 107, 9 107, 4 107, 1 107, 6 108, 2 107, 6 108, 0 108, 6 109, 2 109, 2 107, 4 107, 3	100. 2 99. 1 98. 6 98. 2 98. 4 97. 3 94. 3 94. 4 97. 2 98. 4 98. 4 98. 4 99. 7	98. 8 98. 2 98. 3 97. 8 98. 3 98. 4 98. 4 98. 9 98. 8 99. 8 99. 6 99. 7	102. 8 102. 5 103. 0 103. 3 103. 5 103. 6 103. 4 103. 7 104. 3 104. 8 104. 8	102.0 101.7 101.4 101.8 101.4 101.1 100.7 100.6 99.3 99.4 98.7 98.3	102. 4 102. 3 102. 2 99. 7 97. 8 98. 2 98. 0 97. 8 97. 9 95. 6 95. 1 92. 6	95. 0 95. 3 95. 2 94. 5 94. 9 95. 8 97. 3 97. 8 98. 1 98. 1 98. 6 99. 5 99. 4	102.8 102.3 100.3 99.8 101.3 102.3 102.3 102.9 103.2 102.4 102.4	101. 2 100. 6 100. 7 100. 6 99. 4 98. 3 98. 3 98. 9 100. 0 99. 0 99. 2 98. 0	107. 7 106. 9 106. 5 108. 1 109. 9 109. 5 109. 6 110. 3 111. 2 110. 7	108, 3 107, 0 106, 0 105, 6 102, 7 101, 9 97, 8 104, 1 106, 6 108, 1 108, 1 102, 5	91.8 92.7 92.1 91.9 89.9 90.6 89.2 89.3 89.6 89.3 89.6 89.8 90.5
1927—January February A pril May June July August September October December	98.0 98.6 98.4 98.3 98.2 97.5 96.1 95.5 94.9 94.0	105. 4 104. 7 103. 3 102. 0 100. 6 100. 5 98. 9 98. 8 98. 0 97. 4 95. 7 94. 6	99. 9 100. 0 100. 1 100. 1 101. 2 102. 1 102. 4 102. 3 100. 7 100. 8 99. 6	98. 4 98. 4 99. 2 99. 0 101. 0 100. 0 99. 4 99. 8 98. 7 98. 8 98. 4	$\begin{array}{c} 103.2\\ 103.9\\ 103.7\\ 103.7\\ 103.0\\ 102.9\\ 102.4\\ 103.2\\ 103.1\\ 102.9\\ 102.9\\ 102.6\end{array}$	96. 0 94. 7 93. 7 92. 4 92. 7 92. 4 92. 2 92. 0 91. 7 91. 2 90. 5 88. 8	90. 2 92. 2 91. 6 90. 6 90. 1 89. 7 88. 0 87. 4 86. 2 85. 3 84. 2 85. 4	98, 4 97, 5 98, 0 97, 3 97, 7 98, 2 98, 8 98, 3 97, 5 96, 6 94, 2 94, 5	99. 7 99. 8 100. 6 100. 0 98. 3 98. 1 95. 1 95. 1 95. 1 95. 5 94. 4	97. 7 95. 4 97. 0 97. 9 100. 3 98. 9 99. 4 99. 2 97. 4 96. 5 95. 0 94. 2	110. 6 109. 7 110. 2 109. 5 108. 7 108. 3 107. 8 107. 0 106. 4 105. 6 104. 8	101.0 100.9 101.4 105.4 108.7 107.8 105.7 104.1 102.8 102.7 103.0 104.3	$\begin{array}{c c} 90.3\\91.6\\91.7\\92.7\\93.0\\94.6\\96.3\\91.1\\95.6\\96.0\\95.4\\94.4\end{array}$
1928—January February A pril May June July A ugust September October November December	93. 2 94. 0 94. 0 95. 1 95. 1 95. 2 95. 1 96. 2 95. 7 98. 2 98. 5	93. 8 93. 4 94. 1 94. 7 97. 6 97. 6 97. 9 99. 7 101. 9 103. 6 105. 2 106. 4	98. 6 98. 0 96. 7 95. 2 94. 2 94. 0 92. 8 92. 8 93. 3 94. 0 95. 2 95. 2 96. 0	98. 2 98. 8 99. 4 90. 2 98. 9 97. 8 98. 0 98. 0 98. 0 98. 0 98. 0 99. 4 100. 2	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	88.0 87.9 88.6 88.3 87.8 88.0 87.1 88.0 87.1 88.0 87.9 88.1 89.0 88.7	85. 4 85. 9 86. 3 86. 6 88. 7 91. 1 91. 7 93. 2 94. 4 95. 4 95. 6	95. 5 95. 4 95. 3 94. 2 93. 6 94. 0 94. 0 94. 0 94. 7 91. 3 90. 1 91. 1	93. 6 93. 3 92. 7 91. 2 92. 4 92. 2 92. 4 92. 5 92. 3 91. 9 91. 2 91. 2 92. 3 91. 9 91. 2 92. 4	90. 9 91. 7 91. 4 93. 6 94. 7 96. 0 96. 6 97. 4 99. 1 101. 4 103. 4 103. 9	$\begin{array}{c} 103.\ 6\\ 104.\ 9\\ 105.\ 1\\ 105.\ 1\\ 103.\ 8\\ 103.\ 4\\ 105.\ 0\\ 104.\ 9\\ 104.\ 4\\ 106.\ 3\\ 107.\ 1\\ 107.\ 0\\ 108.\ 0\\ \end{array}$	105. 4 106. 4 105. 0 104. 7 105. 0 110. 7 110. 8 111. 0 113. 8 114. 4 112. 3	94. 6 93. 3 93. 7 93. 7 93. 6 89. 9 95. 7 93. 8 93. 9 93. 8 93. 9 93. 8
1929—January February March A pril. June July August September November December	101. 4 100. 2 99. 1 97. 4	107.8 109.8 112.0 115.2 118.3 120.1 121.5 119.6 120.1 119.5 116.4 113.3	65, 2 95, 4 97, 4 97, 5 98, 1 98, 6 97, 8 98, 7 97, 9 98, 7 97, 9 96, 2 93, 4	99, 9 99, 8 99, 5 99, 6 100, 0 99, 4 100, 1 99, 9 99, 9 99, 9 99, 9 99, 1 98, 7	$\begin{array}{c} 101.\ 7\\ 103.\ 2\\ 102.\ 8\\ 103.\ 0\\ 103.\ 6\\ 104.\ 2\\ 104.\ 8\\ 105.\ 4\\ 106.\ 3\\ 105.\ 6\\ 105.\ 2\\ 105.\ 0\end{array}$	85.0	96, 9 98, 6 98, 0 98, 0 97, 0 96, 2 96, 4 94, 5 93, 7 90, 4 87, 3 8€, 0	$\begin{array}{c} 91. \ 4\\ 91. \ 7\\ 91. \ 5\\ 92. \ 4\\ 94. \ 1\\ 94. \ 9\\ 95. \ 4\\ 95. \ 6\\ 96. \ 0\\ 95. \ 1\\ 92. \ 6\end{array}$	91. 9 90. 9 90. 0 89. 9 90. 2 89. 9 89. 6 89. 7 89. 9 89. 7 89. 9 89. 7 88. 4 85. 0	103. 6 104. 0 104. 2 105. 1 104. 0 102. 9 101. 2 100. 1 59. 9 94. 8 91. 1	$\begin{array}{c} 108.0\\ 109.5\\ 110.4\\ 112.0\\ 112.2\\ 111.8\\ 113.4\\ 114.4\\ 114.0\\ 115.8\\ 113.4\\ 111.9\end{array}$	113. 2 111. 4 112. 6 113. 3 114. 6 114. 7 113. 8 110. 3 105. 6 102. 9 94. 4 90. 8	90. 8 92. 9 92. 6 93. 3 91. 9 92. 0 92. 6 93. 6 90. 9 89. 9 98.9 90. 9 87. 4
1930—January February A pril May June July September	92. 8 91. 6 91. 9 91. 9 91. 6 90. 0 87. 3 83. 9	111.0 108.6 106.9 105.6 102.8 99.5 95.2 90.8 90.2	92. 2 90. 3 89. 4 88. 6 87. 4 85. 7 81. 0 81. 0 82. 4		104. 3 103. 8 103. 4 103. 1 103. 2 102. 4 101. 7 101. 1 99. 0	79. 6 77. 4 76. 8 75. 2 73. 9 71. 6 67. 8 65. 1 62. 4	85. 6 83. 6 81. 4 81. 0 80. 4 78. 9 74. 9 71. 7 69. 7	90. 4 88. 9 86. 8 85. 1	81. 2 80. 7 81. 1 80. 7 79. 3 77. 1 74. 3 71. 4 71. 7	86. 8 82. 9 81. 6 81. 0 80. 2 80. 3 78. 7 76. 1 73. 6	111. 1 109. 0 107. 5 105. 6 106. 5 105. 7 105. 4 104. 4 102. 3	86.8 88.0 88.0 88.0 88.0 82.4 80.0	• 90. 8 90. 1 90. 2 90. 1 90. 9 90. 9 89. 7 90. 4 84. 1 85. 1

[Adjusted for seasonal variation. Monthly average 1923-1925=100]

•				ron and s	teel group)				Mae	binery gr	oup	
		Crude iron	n and stee	1		Heat	ting appar	ratus		Found-	Elec-		
Year and month	Total	Steel works and rolling mills	Cast- iron pipe	Struc- tural iron- work	Hard- ware	Total	Steam fittings, etc.	Stoves	Total	ries and ma- chine shops	trical ma- chinery (unad- justed)	Machine tools	Agricul- tural imple- ments
1919. 1920.	100. 5 108. 9				106. 1 105. 2	88. 4 96. 7			117. 2 128. 9				
1921	64. 2 81, 9				70.8 91.2	67.2 90.0			77.0 82.2				
1923 1924	104. 4 97. 3	104.9 97.0	95. 9 102. 0	104.6 97.7	104.2 97.0	104.0 96.8	102.1 97.9	105.8 95.8	107.7 93.6	111.1 92.1	99. 9 97. 8	108.3 91.5	110.0 87.9
1925	98.2	98.1	102.1	97.7	98.8 97.7	99. 2 102. 9	100.0 102.5	98.4	98.7 107.9	96.8 105.1	102.3	100.2 119.8	102.1
1927	101.6 97.3	100, 8 96, 3	106.9 100.0	107.6 106.6	92.7	97.6	99.5	103.3 95.9	100.0	96. 9	111.6 102.6	114.5	115.4 118.7
1928 1929	96.6 100.7	95.7 99.8	91.3 86.6	108.9 117.0	90.6 93.6	91. 9 91. 8	90.9 86.9	92.9 96.4	98.8 116.1	94.4 106.7	99.6 125.6	126.2 161.8	140. 7 159. 1
1919-January	114.5				103.8	84.8			121.0				
February March	107.1 101.4				104, 4 103, 6	77.3 75.9			118.2 114.5				
April May	95.4 93.3				101.7 103.3	75.2 74.5			$113.2 \\ 110.2$	·			
June	95.9				96.5	78.2			107.9				
July August	102.8 104.1				101.1 107.4	91.3			114.2				
September	103.3 86.6				110.3 110.7	92.4 102.1			117.9				
October	80.0 97.2				114.4	106.7			126,8				
December	104.4				116.3	111.8			131.2				
1920—January February	$110.2 \\ 110.4$				117.7 117.8	114.5 106.2			134.8 133.0				
March	112.4				114.7	104.4	- 		135.6				
April May	109.9 105.2				112.0 103.6	$109.2 \\ 106.2$							
June	111.4				106.3	97.1	- 		133.0				
July August	111.5 109.3				106.9 105.8	106.8 99.0			133.7 131.0				
September	112.2	1			102.8	89. 2 84. 9			$128.0 \\ 123.2$				
October November	107.5				98.1 91.7	74.0			117.8				
December	94.2	11			85.1	68, 2	1		110.4				
1921—January February	75.9 76.4			•	$\begin{array}{c} 69.7\\71.2\end{array}$	61.3 69.2			103.0 94.8				
March	72.2				72.2	67.0			89.7				
April May	63. 2 63. 4				72.4 73.1	$ \begin{array}{c} 66.2 \\ 65.6 \end{array} $			84.0 78.6				
June July	60. 3 52. 4				71.6 66.3	55.8 55.6			74.3 68.6			-	
August	5 5. 4				66.9	65.3			67.0	[
September October	57.5 62.1				69.3 70.4	68.5 72.3			66. 0 65. 0				
November December	65.4 66.0				72.4 73.4	79.2 80.6			65.4 67.3				
1922—January	62.4	1			74.8	80.0			70.0				
February	66.9	l	.		79.9	81.7			71.0		I		
March April	75.1				82.1 85.4	81.3			74.5 76.9				
May June	79.1				88.7	82.7			79.8 80.6				
July	86.6				94.5	91.3			80.8				
August September	86.8					97.0		1	87.1				
October November	92.4				98.5 100.9				90.3				
December					103.4	107.3			99.0				
1923-January	99.8	100.4	90.9	97.7	103.5	110.4	102.3	117.7	101.9	105.9	93.0	100.9	103.7
February March	100.0 101.3	100.4 101.5	92.7 92.5	98.1 102.9	104. 4 104. 4	102.5 104.6	100.3	104.6	103.9 106.5	107.4 109.6	95.4	103.6 108.2	113.1 116.9
April	101.7	101.9	92.8	103.3	105.0	104.6 105.6	103.3	107.6	108.6	111.9	99.8	113.4	117.8
May June	108.5	104.5 109.1	93.1 96.4	103.9 107.4	104. 4 103. 8	105.8 106.3	103.8 103.6	107.7	109.6 110.1	113.2 114.2	99.8 99.3	115.8 115.9	118.8 117.8
July August September October	106.4 108.7	107.1 109.2	97.8 97.3	104.4 108.8	106.3 107.1	109.3 103.6	106.1 102.7	112.3 104.3	111.1 110.7	115.6 115.4	100.8 100.6	113.6 111.5	114.6 109.5
September	108.1	107.4	96.9	108.2	106.1	101.8	101.1	102.4	110.0	113.9	102.3	107.6	106.6
October November	107.4 106.2	107.8 106.3	98.6 100.4	107.6 107.8	103.8 100.5	100.1 99.4	100.0	100.2 100.2	108.0 107.3	111.0 109.6	102.4 103.9	106.1 101.3	100.5 101.1
December	103.2	102.6	100.9	105.1	100.5	99.5	99.8	99.2	104.7	105.7	103.4	101.1	99.9
1924-January		104.9	104.5	104.8 104.0	102.2 104.4	98.9	99.9 97.6	97.9 98.3	101.4 99.0	101.0	103.1	98.0 98.1	100.0
February March	107.9	106.8 108.6	106.5 104.9	101.9	102.1	98.0 99.1	100.3	98.1	98.6	97.3 96.2	102.7 103.9	98.1 98.6	99.1 98.5
April May	107.1	107.9 98.8	104.7 104.0	100. 2 99. 2	101.3	99.9 98.8	102.4 100.4	97.6 97.2	97.9 94.4	95.8 92.8	103.3 99.1	97.2 94.4	92.7 86.1
June July		93.4	101.4	97.8	96.3	98.8 97.3	98.6	96.0	91.6	90.7	95.0	93.1	78.2
July	89.9	88.8	99.6	96.8	91.3	94.7	98.1	91.4	88.2	87.5	91.5	87.1	75.3

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]	ron and s	teel grou)				Mac	hinery g	roup	
Year and month	(Crude irou Steel	1 and stee			Hea	ting appar	atus		Found- ries	Elec- trical		Agricul-
	Total	works and rolling mills	Cast- iron pipe	Struc- tural iron- work	Hard- ware	Total	Steam fittings, etc.	Stoves	Total	and ma- chine shops	ma- chinery (unad- justed)	Machine tools	tural imple- ments
1924—August September October November December	87.1 88.6 92.0 92.6 97.7	$\begin{array}{c} 85.7\\ 87.5\\ 91.6\\ 92.4\\ 98.0 \end{array}$	100. 7 98. 6 101. 3 100. 4 97. 8	$\begin{array}{c} 95.\ 2\\ 95.\ 0\\ 91.\ 3\\ 91.\ 1\\ 94.\ 7\end{array}$	89. 4 92. 8 93. 7 94. 5 96. 2	94. 4 94. 7 95. 3 95. 6 95. 2	95. 5 95. 2 95. 6 96. 1 94. 4	93. 5 94. 2 95. 0 95. 0 95. 8	88. 0 88. 4 89. 8 91. 3 93. 9	86.7 86.4 87.5 90.0 92.9	92. 3 94. 0 96. 0 95. 3 96. 9	86. 1 85. 4 85. 0 86. 4 88. 8	77. 7 81. 3 85. 0 88. 6 92. 6
1925—January February March A pril June August September November December	101. 8 101. 0 100. 9 98. 8 97. 3 96. 3 96. 0 95. 1 94. 8 96. 7 98. 3 101. 1	$\begin{array}{c} 102.4\\ 101. \pm\\ 101.2\\ 99.0\\ 97.1\\ 95.9\\ 95.4\\ 94.6\\ 94.3\\ 96.2\\ 98.0\\ 101.2 \end{array}$	$\begin{array}{c} 100.\ 4\\ 103.\ 4\\ 102.\ 4\\ 100.\ 9\\ 101.\ 9\\ 100.\ 9\\ 100.\ 5\\ 102.\ 1\\ 102.\ 7\\ 103.\ 2\\ 102.\ 8\\ 103.\ 9\end{array}$	96.4 95.9 96.7 97.1 99.0 100.6 97.4 96.7 98.8 98.5 99.1	96.5 97.7 98.7 97.7 98.6 98.3 97.7 99.2 99.8 99.9 100.4 101.2	98. 2 97. 8 97. 7 95. 3 95. 9 96. 9 97. 8 98. 4 99. 6 101. 7 104. 4 106. 6	99.4 97.3 97.1 96.3 96.3 99.4 99.4 99.4 99.7 103.7 106.5 110.8	97. 2 98. 3 98. 2 94. 4 95. 6 97. 4 96. 4 98. 5 99. 4 99. 9 102. 4 102. 8	95. 0 95. 2 95. 4 96. 5 96. 8 96. 9 97. 8 99. 8 102. 4 105. 3 107. 1	94.0 94.1 95.0 95.5 96.2 96.2 97.2 99.2 99.2 101.4 103.0	97. 9 98. 6 98. 8 100. 0 98. 8 97. 7 98. 2 99. 8 103. 6 108. 2 112. 2 114. 2	91. 8 92. 0 91. 6 93. 1 94. 7 97. 6 100. 1 102. 4 107. 7 111. 9 115. 4	91. (93. 6 96. (97. § 98. 4 99. 4 105. 1 109. 5 109. 8 112. 7 113. (
1926—January February March April June July August September November December	$\begin{array}{c} 101.\ 4\\ 100.\ 7\\ 100.\ 1\\ 101.\ 1\\ 100.\ 7\\ 101.\ 0\\ 101.\ 5\\ 101.\ 7\\ 102.\ 9\\ 103.\ 4\\ 102.\ 9\\ 101.\ 3\\ \end{array}$	101. 3 100. 3 99. 6 100. 4 100. 0 100. 0 100. 6 101. 8 102. 4 102. 1 100. 3	$\begin{array}{c} 105.\ 6\\ 107.\ 4\\ 105.\ 9\\ 105.\ 9\\ 105.\ 8\\ 105.\ 0\\ 108.\ 4\\ 109.\ 3\\ 108.\ 2\\ 109.\ 7\\ 108.\ 4\\ 107.\ 3\\ 104.\ 2 \end{array}$	100. 7 102. 3 103. 2 106. 1 106. 4 107. 2 112. 7 110. 6 111. 4 110. 5 110. 0 109. 8	$\begin{array}{c} 100. \ 9\\ 101. \ 0\\ 99. \ 8\\ 99. \ 2\\ 98. \ 4\\ 95. \ 8\\ 96. \ 9\\ 96. \ 9\\ 96. \ 9\\ 96. \ 7\\ 96. \ 0\\ 93. \ 6\end{array}$	105. 5 103. 8 102. 9 103. 9 102. 3 102. 7 103. 9 102. 9 102. 9 102. 9 102. 0 101. 7 101. 2	103.1 102.1 102.9 102.8	$\begin{array}{c} 104.\ 1\\ 102.\ 9\\ 102.\ 4\\ 104.\ 6\\ 102.\ 5\\ 102.\ 4\\ 105.\ 0\\ 103.\ 8\\ 103.\ 3\\ 103.\ 1\\ 103.\ 1\\ 102.\ 2 \end{array}$	$\begin{array}{c} 108.\ 2\\ 108.\ 1\\ 107.\ 9\\ 107.\ 4\\ 107.\ 1\\ 108.\ 2\\ 107.\ 6\\ 108.\ 0\\ 108.\ 6\\ 109.\ 2\\ 107.\ 4\\ 107.\ 3 \end{array}$	104. 7 104. 9 105. 0 105. 0 105. 9 105. 7 105. 7 105. 7 105. 2 103. 3 104. 6	114, 0 113, 4 112, 8 110, 4 109, 7 109, 4 108, 8 109, 7 111, 7 115, 2 113, 3 110, 4	117. 6 116. 2 117. 9 118. 8 118. 4 119. 2 120. 0 120. 4 121. 4 121. 4 122. 1 122. 8 122. 3	113.9 113.3 111.0 112.8 115.2 115.2 114.7 118.1 120.0 118.4 118.4 118.4
1927—January February March. A pril. JuneJune. July. A ucust. September October November December	98.1	98. 4 97. 4 98. 2 98. 1 98. 0 97. 9 97. 2 95. 7 94. 6 94. 3 93. 4 92. 6	$\begin{array}{c} 104.8\\ 103.8\\ 103.7\\ 102.7\\ 102.9\\ 102.0\\ 99.8\\ 98.2\\ 99.8\\ 94.4\\ 94.6\\ 94.6\\ 96.1 \end{array}$	$\begin{array}{c} 107.\ 7\\ 107.\ 4\\ 107.\ 4\\ 108.\ 1\\ 107.\ 1\\ 107.\ 1\\ 106.\ 7\\ 106.\ 6\\ 105.\ 9\\ 104.\ 4\\ 105.\ 5\\ 105.\ 5\end{array}$	93. 4 93. 8 94. 4 93. 9 94. 0 93. 3 93. 5 90. 1 92. 0 92. 1 90. 9 90. 8	$\begin{array}{c} 100.\ 2\\ 99.\ 2\\ 98.\ 8\\ 98.\ 1\\ 98.\ 1\\ 98.\ 7\\ 97.\ 2\\ 97.\ 5\\ 98.\ 2\\ 96.\ 4\\ 94.\ 8\\ 94.\ 1\end{array}$	98. 8 99. 3 98. 3 99. 0 98. 6 99. 7 103. 4 100. 6 101. 6 101. 6 99. 8 97. 4 96. 9	$\begin{array}{c} 101.5\\99.2\\99.3\\97.4\\97.6\\97.9\\91.5\\94.7\\95.0\\93.3\\92.4\\91.5\end{array}$	$\begin{array}{c} 105.\ 4\\ 104.\ 7\\ 103.\ 3\\ 102.\ 0\\ 100.\ 6\\ 100.\ 4\\ 98.\ 9\\ 98.\ 8\\ 98.\ 0\\ 97.\ 4\\ 95.\ 7\\ 94.\ 6\end{array}$	$\begin{array}{c} 103.\ 3\\ 103.\ 1\\ 101.\ 8\\ 100.\ 1\\ 98.\ 4\\ 97.\ 2\\ 96.\ 3\\ 95.\ 9\\ 93.\ 9\\ 92.\ 4\\ 90.\ 4\\ 90.\ 0\end{array}$	106, 9 105, 3 103, 6 102, 9 101, 7 103, 8 100, 3 100, 4 102, 0 103, 1 102, 0 98, 9	121.7 118.8 117.4 116.7 114.8 114.8 112.7 112.5 112.8 111.7 111.7 110.1 110.0	113. 0 113. 0 113. 0 112. 8 114. 4 118. 1 120. 0 122. 0 123. 1 124. 1 123. 1 124. 1 123. 1
1928—January. February April. June. June. July. August. September October. November December	93.8 94.2 95.1 95.7 96.6 90.4 97.2 97.0 97.9 99.9 100.4	92. 6 93. 1 94. 3 94. 2 95. 6 95. 7 96. 3 96. 1 97. 0 99. 2 99. 4	$\begin{array}{c} 95.\ 1\\ 92.\ 0\\ 92.\ 5\\ 92.\ 2\\ 94.\ 2\\ 94.\ 0\\ 89.\ 1\\ 89.\ 5\\ 91.\ 2\\ 90.\ 5\\ 88.\ 0\\ 86.\ 7\end{array}$	$\begin{array}{c} 105. \ 9\\ 105. \ 2\\ 105. \ 2\\ 105. \ 4\\ 107. \ 5\\ 108. \ 9\\ 108. \ 2\\ 110. \ 4\\ 108. \ 9\\ 110. \ 5\\ 112. \ 6\\ 116. \ 9\end{array}$	89. 0 89. 2 89. 5 88. 7 88. 9 89. 9 91. 9 91. 5 92. 3 93. 2 94. 0	90. 1 90. 7 91. 3 91. 9 92. 8 93. 3 92. 6 94. 1 91. 8 92. 3 91. 8 90. 7	92. 2 91. 0 92. 0 92. 2 92. 7 92. 4 91. 1 94. 6 89. 6 89. 8 88. 2 84. 7	$\begin{array}{c} 88. \ 1\\ 90. \ 4\\ 90. \ 7\\ 91. \ 7\\ 92. \ 9\\ 94. \ 1\\ 94. \ 0\\ 93. \ 7\\ 93. \ 7\\ 93. \ 7\\ 94. \ 6\\ 95. \ 0\\ 96. \ 2\end{array}$	93. 8 93. 4 94. 1 94. 7 96. 7 97. 6 97. 9 99. 7 101. 9 103. 6 105. 2 106. 4	90. 0 89. 9 90. 3 91. 2 93. 5 93. 9 94. 3 95. 2 96. 6 97. 9 99. 97. 9 99. 7 100. 3	96. 0 94. 8 95. 4 95. 6 96. 9 96. 2 100. 2 104. 0 106. 8 108. 8	109. 9 110. 7 113. 0 117. 1 121. 2 124. 6 127. 2 130. 6 134. 3 137. 4 137. 4 142. 2 146. 7	127. 0 127. 9 130. 6 132. 1 136. 2 142. 2 145. 4 144. 6 146. 6 150. 3 151. 3 153. 7
1929—January February March June July August September November December	100. 4 98. 4 99. 7 101. 4 103. 3 103. 9 104. 3 102. 7 101. 0 99. 7 95. 1	99. 6 97. 8 98. 9 100. 8 102. 7 103. 2 103. 6 101. 6 99. 7 98. 4 93. 6	87. 3 81. 7 84. 1 84. 9 87. 4 88. 8 90. 7 91. 9 90. 1 85. 8 82. 3	115. 2 114. 4 115. 4 115. 6 115. 7 116. 3 118. 0 118. 4 119. 4 119. 8 118. 8 118. 8 116. 6	93. 4 94. 9 95. 6 94. 3 94. 0 95. 1 93. 4 93. 3 94. 2 90. 5 89, 1	95. 3 94. 6 93. 8 92. 0 91. 1 90. 4 91. 0 92. 1 90. 4 92. 1 90. 0 87. 7	84.1	97. 7 96. 7 97. 1 97. 6 97. 7 97. 4 97. 8 96. 8 98. 0 98. 0 98. 0 92. 6 89. 3	$\begin{array}{c} 107.\ 8\\ 109.\ 8\\ 112.\ 0\\ 115.\ 2\\ 118.\ 3\\ 112.\ 1\\ 121.\ 5\\ 119.\ 6\\ 120.\ 1\\ 119.\ 5\\ 116.\ 4\\ 113.\ 3 \end{array}$	109.9 110.4 107.4 108.4 108.0	109, 8 112, 6 116, 1 119, 9 125, 3 130, 6 134, 0 134, 7 135, 2 134, 3 129, 8 125, 0	168.7	$\begin{array}{c} 154.1\\ 156.6\\ 158.3\\ 166.0\\ 167.7\\ 168.0\\ 169.4\\ 161.2\\ 154.6\\ 154.8\\ 150.8\\ 150.8\\ 150.7\end{array}$
1930—January March April June July August September	$\begin{array}{c} 95.\ 7\\ 95.\ 1\\ 94.\ 0\\ 94.\ 6\\ 94.\ 9\\ 93.\ 6\\ 90.\ 7\\ 86.\ 8\\ 84.\ 5\\ \end{array}$	94. 5 94. 2 93. 0 93. 6 94. 1 92. 6 89. 6 85. 8 83. 3	79. 4 80. 0 80. 5 81. 4 80. 9 81. 0 77. 6 76. 1 75. 4	115. 0 111. 1 110. 3 111. 0 110. 0 109. 0 108. 2 101. 9 101. 0	$\begin{array}{c} 89.\ 0\\ 86.\ 8\\ 85.\ 6\\ 86.\ 3\\ 82.\ 9\\ 80.\ 8\\ 78.\ 6\\ 76.\ 8\\ 74.\ 6\end{array}$	84. 0 83. 8 81. 8 79. 8 78. 4 75. 7 74. 1 72. 6 70. 1	$\begin{array}{c} 79.\ 4\\ 78.\ 3\\ 76.\ 4\\ 75.\ 2\\ 74.\ 3\\ 68.\ 8\\ 68.\ 2\\ 67.\ 6\\ 67.\ 4\end{array}$	88. 2 88. 9 86. 7 83. 9 82. 1 82. 0 79. 5 77. 1 72. 6	111. 0 108. 6 106. 9 105. 6 102. 8 99. 5 95. 2 90. 8 90. 2	101. 6 99. 5 97. 5 97. 0 95. 2 92. 3 88. 8 84. 4 83. 3	122. 0 119. 0 118. 1 115. 9 111. 5 108. 6 103. 9 101. 0 101. 3	130. 5 120. 6 115. 9	150. 1 149. 8 149. 2 141. 8 136. 3 121. 1 110. 2 95. 9 98. 8

					Textiles a	and produc	ets group				
				Fabrics		•			Wearing	g apparel	
Year and month		Woolen	and worste factures	d manu-		0.11-	Dyeing		CD- 1		
	Cotton goods	Total	Woolen and worsted goods	Carpets and rugs	Hosiery and knit goods	Silk manu- factures	and fin- ishing textiles	Clothing, men's	Shirts and col- lars	Clothing, women's	Millinery
1919 1920 1921 1922 1923 1924 1925 1926 1927 1927 1928 1929	92. 5 92. 3 106. 0 93. 9 100. 1 99. 9 105. 0 95. 2 95. 5	89.9 84.2 87.7 96.7 108.7 97.2 94.1 86.7 88.9 86.1 87.8	109. 7 97. 3 93. 0 84. 6 87. 4 84. 6 85. 7	103. 9 96. 2 99. 9 97. 6 96. 6 93. 4 98. 9	92. 9 96. 8 87. 4 103. 8 104. 9 94. 3 100. 8 101. 1 102. 9 99. 6 103. 3	101. 9 104. 4 97. 8 95. 1 99. 6 94. 9 105. 5 102. 8 101. 2 99. 7 100. 6	84. 9 80. 5 77. 9 83. 3 97. 0 94. 9 108. 1 109. 9 113. 2 112. 5 115. 2	96. 5 101. 6 90. 6 100. 1 106. 9 97. 6 95. 5 89. 2 79. 8 71. 5 71. 3	92. 1 106. 8 97. 7 108. 4 107. 5 93. 7 98. 8 101. 2 105. 2 105. 4 106. 0	131. 2 123. 6 114. 1 104. 8 105. 7 93. 9 100. 4 104. 0 123. 0 123. 4 133. 2	95, 1 98, 0 100, 2 103, 3 100, 9 99, 0 100, 1 97, 8 102, 4 84, 5 83, 5
1919—January February March April June June August September October November December	94.1 88.6 89.7 91.4 97.7 98.3 99.0 100.4 99.3 99.3 99.4 103.4	72.0 48.2 60.9 77.8 88.4 101.8 108.7 170.3 106.6 102.4 102.3 101.7			87.3 79.5 80.4 85.6 92.0 100.9 101.5 98.6 101.2 101.2 101.7 106.4	95.3 90.8 92.0 100.7 104.3 103.1 107.2 108.0 100.9 102.0 107.7 111.0	84. 2 75. 9 73. 9 79. 5 82. 6 85. 9 86. 9 87. 8 87. 9 89. 2 92. 1 93. 2	$\begin{array}{c} 80.0\\ 82.0\\ 83.3\\ 89.6\\ 93.4\\ 93.3\\ 99.2\\ 96.9\\ 102.9\\ 108.2\\ 118.3\\ 111.3\end{array}$	87. 9 87. 2 84. 5 83. 0 85. 7 88. 1 87. 7 92. 4 96. 5 99. 1 104. 5 108. 8	$\begin{array}{c} 126.2\\ 114.6\\ 112.8\\ 120.5\\ 119.9\\ 127.9\\ 159.2\\ 145.9\\ 139.3\\ 135.1\\ 134.9\\ 137.8\\ \end{array}$	92.6 93.3 93.2 90.8 101.7 98.8 99.4 98.1 97.0 90.0 90.0 90.6 94.9
1920—January February March April June July August September October November December	$\begin{array}{c} 103.\ 6\\ 100.\ 1\\ 102.\ 6\\ 102.\ 7\\ 100.\ 3\\ 100.\ 5\\ 102.\ 2\\ 100.\ 2\\ 96.\ 8\\ 92.\ 8\\ 84.\ 8\\ 84.\ 8\\ 77.\ 7\end{array}$	$\begin{array}{c} 108.\ 2\\ 105.\ 4\\ 109.\ 8\\ 110.\ 3\\ 111.\ 0\\ 100.\ 2\\ 61.\ 9\\ 57.\ 8\\ 68.\ 2\\ 68.\ 4\\ 59.\ 1\\ 49.\ 7\end{array}$			$\begin{array}{c} 108.8\\ 105.6\\ 108.1\\ 109.2\\ 110.6\\ 107.2\\ 107.5\\ 103.3\\ 93.8\\ 80.9\\ 68.6\\ 57.9\end{array}$	113. 2 111. 2 108. 2 112. 1 113. 6 112. 2 107. 3 102. 8 98. 0 95. 4 93. 1 86. 1	$\begin{array}{c} 93.5\\92.4\\89.0\\86.3\\83.7\\83.8\\82.8\\81.5\\75.7\\68.4\\66.1\\63.3\end{array}$	$\begin{array}{c} 110, 9\\ 109, 1\\ 114, 7\\ 123, 0\\ 125, 3\\ 114, 4\\ 108, 7\\ 101, 4\\ 96, 2\\ 86, 4\\ 73, 3\\ 55, 4\end{array}$	109. 2 107. 7 108. 4 109. 0 109. 4 110. 2 111. 6 110. 0 109. 8 108. 6 98. 8 88. 7	135. 5 129. 4 126. 9 122. 0 123. 3 124. 2 123. 3 123. 4 120. 4 121. 5 118. 7 115. 1	99. 6 95. 2 94. 6 95. 2 96. 6 97. 4 96. 1 94. 8 99. 0 102. 8 103. 3 100. 9
1921—January February April May June July August September October Docember December	75.8 89.3 89.2 89.4 91.3 91.9 94.5 96.5 97.9 98.3 98.6 97.5	44. 0 61. 5 74. 3 89. 8 96. 7 99. 2 101. 9 100. 4 100. 8 96. 1 93. 9 93. 8			$\begin{array}{c} 54.6\\ 66.8\\ 75.6\\ 81.4\\ 86.8\\ 90.1\\ 91.3\\ 93.7\\ 97.6\\ 101.7\\ 104.2\\ 105.0\\ \end{array}$	82. 8 84. 9 90. 0 95. 2 98. 8 102. 2 104. 5 102. 4 104. 7 103. 4 101. 9 102. 2	61. 0 70. 7 73. 7 76. 0 79. 1 80. 9 80. 4 81. 6 82. 5 82. 7 84. 1 81. 3	61, 0 73, 2 78, 3 87, 3 90, 8 97, 7 101, 8 101, 9 102, 0 102, 6 103, 4	84, 1 93, 3 96, 6 97, 8 100, 4 97, 8 95, 6 73, 1 104, 9 107, 3 109, 0 112, 7	112. 2 111. 8 115. 5 116. 1 121. 4 120. 6 125. 1 123. 4 119. 0 114. 1 99. 2 90. 7	96. 6 104. 3 103. 7 102. 8 99. 2 102. 1 98. 6 98. 3 99. 1 98. 3 98. 7 100. 2
1922—January February April May June July August September October December December	97. 7 93. 9 81. 4 82. 0 84. 2 85. 5 88. 8 91. 4 94. 8 97. 6 103. 7 106. 7	89.9 91.0 91.7 89.1 92.0 94.2 97.6 97.6 102.2 102.8 105.1 107.0			$\begin{array}{c} 105,5\\ 106,9\\ 106,3\\ 105,4\\ 103,9\\ 103,9\\ 102,8\\ 104,3\\ 100,6\\ 100,9\\ 101,7\\ 103,7\end{array}$	103. 1 101. 0 99. 7 93. 8 91. 7 91. 0 91. 3 90. 3 91. 4 92. 7 96. 4 98. 7	82.5 77.8 79.4 71.2 77.2 77.2 80.7 82.9 90.0 92.1 95.6 97.4	$\begin{array}{c} 102, 2\\ 99, 1\\ 99, 9\\ 96, 2\\ 96, 2\\ 97, 7\\ 99, 6\\ 98, 3\\ 99, 5\\ 100, 3\\ 103, 4\\ 108, 3\end{array}$	$\begin{array}{c} 112,3\\111.7\\111.1\\100.6\\109.2\\107.2\\110.7\\106.8\\103.3\\103.3\\105.2 \end{array}$	88, 7 110, 3 109, 9 107, 3 108, 4 105, 6 109, 4 109, 3 105, 6 101, 9 102, 2 99, 0	$\begin{array}{c} 100.\ 6\\ 101.\ 0\\ 101.\ 2\\ 104.\ 0\\ 104.\ 7\\ 103.\ 1\\ 107.\ 2\\ 105.\ 4\\ 103.\ 2\\ 103.\ 4\\ 102.\ 7\\ 103.\ 7\end{array}$
1923—January February April June July September October December	$106. 2 \\ 106. 1 \\ 108. 1 \\ 109. 6 \\ 110. 9 \\ 110. 7 \\ 108. 3 \\ 105. 8 \\ 104. 6 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 100. 7 \\ 1$	106. 2 107. 1 109. 9 112. 3 113. 1 112. 3 114. 6 110. 4 107. 8 104. 4 103. 8 103. 2	107.0 108.4 111.8 114.5 115.2 113.5 115.4 110.9 107.9 104.3 103.9 103.3	$\begin{array}{c} 102.\ 0\\ 100.\ 4\\ 100.\ 1\\ 100.\ 6\\ 102.\ 4\\ 106.\ 1\\ 109.\ 9\\ 107.\ 9\\ 106.\ 9\\ 105.\ 2\\ 103.\ 2\\ 102.\ 2\end{array}$	105. 0 104. 2 105. 0 105. 6 107. 0 106. 6 107. 2 106. 0 103. 2 102. 9 103. 0 103. 2	$\begin{array}{c} 99.1\\ 99.1\\ 99.4\\ 100.9\\ 101.5\\ 101.6\\ 100.9\\ 100.7\\ 99.9\\ 97.9\\ 97.5\\ 96.8\end{array}$	99, 6 98, 9 97, 8 99, 7 99, 5 98, 6 98, 4 94, 6 93, 0 94, 7 94, 3 94, 9	109, 2 108, 8 111, 6 109, 8 111, 1 107, 8 107, 2 104, 6 104, 9 103, 2 102, 5 102, 4	108, 0 107, 3 107, 8 107, 0 107, 0 107, 0 107, 0 109, 0 108, 1 107, 9 107, 2 105, 7	$\begin{array}{c} 107.\ 8\\ 105.\ 4\\ 106.\ 4\\ 108.\ 6\\ 108.\ 9\\ 109.\ 0\\ 107.\ 8\\ 106.\ 4\\ 104.\ 3\\ 105.\ 6\\ 101.\ 4\\ 96.\ 2\end{array}$	105. 6 97. 3 102. 4 100. 6 100. 7 99. 2 98. 4 100. 9 100. 9 102. 2 101. 9 100. 9
1924—January February March April	98.8	103. 2 102. 4 102. 4 103. 6 99. 2	102. 6 102. 4 103. 6	102. 2 101. 1 102. 3 103. 5 98. 7	103. 4 102. 4 102. 7 100. 8	97. 3 97. 4 95. 8 94. 2	89.5 93.6 93.5 94.1	$106.\ 3\\106.\ 6\\103.\ 7$	104. 7 101. 4 100. 9 97. 9	100. 4 99. 4 97. 2	100. 6 98. 0 99. 9 97. 5

		1	•			Textiles	and produ		,			
					Fabrics	_				Wearin	g apparel	<u> </u>
	Year and month		Woolen	and worste factures	d manu-	Hosiery	Silk	Dyeing		Shirts		1
		Cotton goods	Total	Woolen and worsted goods	Carpets and rugs	and knit goods	manu- factures	and fin- ishing textiles	Clothing, men's	and col- lars	Clothing, women's	Millinery
	-May June July September October November December	90. 0 90. 5 90. 3 93. 4 92. 6 96. 2	96. 8 92. 4 90. 6 89. 8 94. 2 97. 1 97. 7 99. 7	97. 1 92. 9 91. 0 89. 6 94. 4 97. 5 98. 0 99. 7	95. 4 90. 1 88. 4 90. 8 92. 9 94. 7 96. 3 99. 2	97. 7 93. 4 83. 5 85. 0 87. 8 89. 3 91. 0 94. 0	92. 7 92. 4 90. 4 93. 4 95. 3 96. 4 96. 5 96. 2	93. 1 93. 9 93. 3 93. 5 96. 5 97. 2 98. 9 101. 6	95. 8 98. 5 97. 0 94. 1 92. 9 92. 8 92. 0 93. 4	95. 7 91. 7 86. 8 83. 4 89. 2 90. 0 90. 4 90. 5	93. 7 89. 7 75. 7 87. 5 97. 0 97. 7 95. 9 95. 7	98.0 96.3 96.8 101.0 105.4 99.0 98.4 97.0
	January February March April May June July August September October November December	100. 9 100. 3 97. 5 100. 4 101. 1 100. 0	98. 8 97. 9 97. 5 95. 4 94. 3 94. 9 92. 7 92. 1 89. 9 89. 6 89. 2	98. 7 97. 4 97. 0 96. 8 94. 1 92. 6 94. 0 91. 4 90. 7 88. 4 87. 8 87. 3	99, 7 100, 4 100, 0 101, 3 102, 0 102, 0 99, 4 99, 4 99, 4 97, 6 98, 9 98, 8	96, 4 98, 4 99, 3 99, 6 100, 3 100, 1 102, 9 101, 4 101, 4 102, 8 103, 0 103, 4	98. 1 98. 6 99. 4 101. 3 108. 3 106. 2 109. 8 110. 1 109. 6 110. 7 110. 8	104, 4 104, 9 106, 9 107, 7 108, 3 107, 2 109, 2 108, 9 108, 9 110, 1 110, 2 110, 1	94. 5 96. 3 95. 5 95. 4 93. 2 94. 8 95. 3 95. 5 95. 8 95. 6 97. 6 97. 6 96. 9	92. 0 93. 7 94. 9 96. 5 99. 4 99. 3 101. 4 101. 9 101. 9 100. 3 102. 4 102. 1	92.8 95.8 102.4 99.8 97.7 97.2 101.1 100.9 103.1 103.2 106.7 105.2	99. 1 102. 4 99. 8 99. 0 98. 5 101. 1 103. 1 103. 0 96. 2 96. 9 99. 7 102. 6
1926-	-January. February March April. May June July August. September October November. December.	99.9 100.2 100.9 101.1 100.8 99.3 97.8 97.0 100.4 100.4 100.3 100.2	89. 2 84. 4 85. 0 85. 0 84. 8 84. 9 87. 7 89. 9 87. 5 89. 9 89. 8	87.4 81.7 81.5 82.3 82.4 81.9 84.6 85.8 87.9 88.4 87.9 88.4 87.9 88.4 87.9 88.4 87.9 88.4 87.9 88.4 88.3	98. 9 98. 5 98. 8 99. 0 97. 0 95. 6 95. 3 97. 0 97. 0 97. 6 98. 1 97. 9 97. 4	103. 6 102. 6 102. 1 100. 7 100. 4 100. 0 98. 6 99. 8 99. 8 99. 8 91. 1 101. 3 101. 7 103. 0	111.5 108.4 104.0 101.9 99.8 99.2 99.2 100.4 101.4 102.4 103.1 102.3	111.4 110.3 110.6 109.4 108.9 109.6 107.5 110.2 110.4 109.5 110.7 110.7	95. 3 94. 3 93. 0 91. 4 90. 1 89. 2 85. 8 86. 7 85. 7 85. 7 85. 7 85. 7 85. 7 85. 7	102. 3 102. 3 102. 4 99. 8 100. 7 100. 8 101. 3 99. 9 101. 2 101. 8 101. 6 100. 4	103.7 105.6 104.7 103.7 111.1 111.2 87.0 89.7 101.9 104.1 106.2 119.0	99.3 97.6 97.2 102.3 105.8 95.1 92.7 90.6 94.5 98.3 100.3 99.3
1927-	-January February March April May June July July September October November December	101, 2 101, 8 103, 0 104, 3 105, 1 106, 4 109, 2 109, 1 108, 5 105, 7 104, 7 101, 4	90, 6 91, 1 90, 0 89, 1 88, 2 88, 8 88, 5 89, 2 89, 3 87, 2 87, 3	89.2 89.8 88.8 86.6 86.9 86.2 87.7 87.9 85.9 85.9 86.0 86.0	97. 8 97. 9 96. 4 96. 3 96. 2 98. 7 100. 3 97. 6 96. 6 93. 9 93. 0 94. 4	103.5 102.1 101.3 102.4 102.3 102.9 101.4 101.6 104.1 104.2 105.2 104.8	102. 1 100. 5 101. 3 102. 4 102. 6 101. 7 101. 4 102. 0 101. 6 99. 2 98. 8 100. 6	$\begin{array}{c} 110.2\\ 110.3\\ 111.1\\ 111.5\\ 112.6\\ 113.0\\ 113.9\\ 114.9\\ 115.4\\ 115.0\\ 115.4\\ 114.4\end{array}$	$\begin{array}{c} 84.8\\ 85.0\\ 83.2\\ 80.8\\ 80.3\\ 80.0\\ 79.1\\ 79.1\\ 78.0\\ 77.5\\ 75.8\\ 74.5\end{array}$	$\begin{array}{c} 101.\ 3\\ 101.\ 6\\ 101.\ 6\\ 101.\ 8\\ 102.\ 8\\ 104.\ 4\\ 106.\ 1\\ 107.\ 4\\ 108.\ 1\\ 109.\ 3\\ 109.\ 3\end{array}$	117.9 117.3 118.2 118.1 122.0 121.8 125.1 125.9 124.9 122.7 131.0 131.0	103.1 107.1 108.3 104.2 104.0 102.4 103.3 101.2 101.4 102.0 96.2 95.8
1928-	-January February March April May June July July August September October November December	100, 4 98, 8 97, 0 96, 6 92, 8 92, 6 93, 0 92, 7 92, 6 93, 6 93, 4 95, 4 96, 2	$\begin{array}{c} 86.\ 7\\ 86.\ 4\\ 85.\ 1\\ 84.\ 6\\ 86.\ 0\\ 87.\ 0\\ 86.\ 6\\ 86.\ 0\\ 83.\ 8\\ 85.\ 9\\ 87.\ 2\\ 87.\ 4\end{array}$	85. 6 85. 0 83. 7 83. 2 84. 8 86. 1 85. 3 84. 7 82. 1 83. 9 85. 6 85. 6	92. 6 93. 8 92. 2 92. 0 92. 2 92. 1 93. 3 92. 5 94. 3 95. 9 96. 2 95. 9 96. 6	103. 8 103. 0 101. 3 98. 9 98. 7 97. 7 97. 1 98. 3 98. 5 99. 2 99. 9	100, 4 101, 9 101, 8 98, 2 99, 3 100, 0 97, 4 97, 8 98, 6 100, 3 99, 9 100, 5	114.1 114.0 112.8 110.1 111.6 110.8 111.7 111.9 112.0 112.2 114.3 114.5	$\begin{array}{c} 74.4\\ 74.0\\ 73.3\\ 71.6\\ 71.2\\ 71.4\\ 69.6\\ 70.3\\ 70.6\\ 70.4\\ 70.8\\ 70.4\end{array}$	109.3 108.0 108.8 106.0 104.8 104.3 104.3 102.3 104.0 104.8 104.1	127.1 127.9 128.1 125.0 124.8 120.1 115.8 116.3 122.0 121.4 123.5 128.3	92. 6 90. 9 85. 6 85. 1 83. 0 86. 8 77. 6 82. 7 81. 8 82. 0 83. 3 82. 9
1929-	-January February March April	97. 1 96. 7 96. 7 96. 7 97. 2	87. 7 87. 4 88. 0 89. 4 90. 3 89. 9 90. 3 89. 6 88. 3 83. 3 83. 3 80. 0	85.9 85.3 86.1 87.8 87.8 87.3 87.9 88.2 87.9 88.2 87.8 85.7 80.3 77.2	97. 4 98. 1 97. 9 98. 4 98. 6 100. 6 100. 2 101. 0 99. 3 101. 9 99. 0 94. 6	98. 7 99. 3 100. 1 100. 7 102. 3 102. 6 106. 1 105. 1 106. 9 106. 4 103. 1	98. 5 99. 2 100. 1 102. 0 101. 6 102. 0 102. 9 102. 8 101. 8 100. 3 99. 7 98. 6	114. 6 115. 4 116. 0 114. 6 116. 9 116. 1 116. 6 115. 4 116. 9 115. 6 113. 2 110. 4	69. 4 69. 7 71. 3 71. 2 71. 8 72. 4 72. 0 72. 2 72. 3 71. 6 71. 8 70. 2	$\begin{array}{c} 103.\ 4\\ 103.\ 7\\ 105.\ 8\\ 106.\ 1\\ 107.\ 2\\ 107.\ 5\\ 106.\ 9\\ 108.\ 6\\ 108.\ 6\\ 106.\ 1\\ 104.\ 4\\ 104.\ 0\end{array}$	120. 9 123. 0 139. 8 135. 4 133. 3 136. 6 113. 5 129. 9 141. 9 141. 9 144. 0 137. 8	81. 2 83. 0 84. 8 85. 4 86. 7 88. 0 85. 2 87. 1 84. 3 83. 5 78. 7 74. 1
	January February March April May June July August September	89. 3 86. 6 86. 0 86. 9 84. 2 82. 1 78. 3 76. 3 75. 7	$\begin{array}{c} 79.\ 2\\ 76.\ 7\\ 72.\ 9\\ 69.\ 8\\ 72.\ 4\\ 72.\ 9\\ 71.\ 6\\ 71.\ 3\\ 70.\ 0 \end{array}$	76. 8 74. 1 70. 3 66. 7 71. 2 72. 5 72. 4 71. 4 70. 4	91. 9 89. 9 86. 3 85. 6 79. 4 74. 8	98. 2 97. 3 94. 0 93. 7 93. 8 93. 4 89. 0 86. 1 89. 4	$\begin{array}{c} 97.5\\ 98.3\\ 97.3\\ 96.7\\ 91.4\\ 89.8\\ 82.7\\ 81.4\\ 79.1 \end{array}$	111. 6 110. 8 110. 2 107. 7 107. 5 103. 3 98. 7 102. 1 99. 2	$\begin{array}{c} 68.\ 7\\ 67.\ 8\\ 66.\ 0\\ 65.\ 5\\ 64.\ 1\\ 63.\ 1\\ 61.\ 1\\ 60.\ 0\\ 61.\ 6\end{array}$	$102. \ 4 \\ 101. \ 8 \\ 100. \ 5 \\ 99. \ 3 \\ 94. \ 3 \\ 91. \ 3 \\ 88. \ 1 \\ 88. \ 9$	133. 4 128. 9 136. 6 133. 3 135. 1 129. 8 111. 8 124. 4 140. 2	82. 4 82. 9 83. 4 79. 4 79. 1 72. 8 72. 5 78. 2 79. 7

TABLE 4.—FACTORY EMPLOYMENT: INDEXES BY INDUSTRIES—Continued [Adjusted for seasonal variation. Monthly average 1923-1925=100]

			[Adjust	ed for se	asonal	variatio	on. Me	onthly a	verage	1923-192	5=100]					
			Food p	roducts	group			1	Paper an	nd printi	ng grou	p	Lumb	er and p	roducts	group
Year and month		Slaugh- tering		ctioner: ce crean			Sugar		Printing	g	Paper	l	 	Lumber		
	Bak- ing	and meat pack- ing	Total	Con- fec- tion- ery	Ice cream	Flour	refin- ing, cane	Total	Book and job	News- papers and period- icals	and pulp (unad- justed)	Paper boxes	Total	Saw mills	Mill work	Furni- ture
1919	87.0 95.3 92.0 91.9 99.7 101.0 99.3 101.8 105.6 106.2 107.4 87.0	127.0 111.8 94.3 92.2 104.7 100.3 95.0 93.2 93.9 94.3 95.7 142.3	111. 7 100. 1 93. 9 97. 3 160. 6 98. 3 101. 1 103. 1 99. 1 96. 0 95. 4 119. 1	101. 0 97. 4 101. 6 105. 1 100. 6 96. 4 95. 8	99. 6 100. 7 99. 7 98. 3 94. 9 91. 7 94. 3	135. 2 122. 2 105. 5 107. 1 105. 2 99. 7 95. 1 91. 5 89. 6 89. 7 91. 4 132. 0	124. 0 116. 5 106. 0 122. 5 103. 4 98. 2 98. 4 94. 8 95. 0 88. 6 91. 4 121. 0	98.1 102.5 91.8 95.1 98.8 100.9 100.3 103.1 104.5 104.5 107.9 95.0	98.3 100.7 101.0 104.9 107.1 106.7 101.3	99. 3 101. 1 99. 6 101. 0 101. 6 102. 1 105. 1	93. 7 108. 3 • 86. 9 90. 1 99. 8 97. 6 102. 6 105. 6 101. 9 98. 1 99. 2 93. 0	98. 2 104. 3 81. 8 87. 3 100. 3 99. 5 100. 2 101. 8 99. 4 96. 8 98. 9 102. 8	96. 4 87. 7 75. 1 98. 2 101. 7 98. 6 99. 7 97. 7 87. 6 82. 9 81. 8 89. 4	102. 9 98. 6 98. 5 96. 6 86. 7 81. 8 81. 1	96. 6 98. 6 104. 8 102. 6 91. 5 87. 7 85. 3	81.7 90.2 72.4 85.9 98.1 96.1 105.8 110.4 110.8 106.0 110.0 75.6
February February March April May June July August September October November December	87.0 86.6 85.4 86.7 86.8 85.6 85.6 85.5 86.0 86.6 89.1 91.8	142.3 134.5 131.2 126.1 123.1 125.4 124.6 125.0 124.0 121.9 120.6 124.9	120. 2 119. 6 122. 2 111. 2 105. 3 111. 3 106. 1 107. 1			132.0 132.4 123.9 133.4 138.7 138.4 137.3 136.4 138.3 139.7 136.4 135.6	121. 0 121. 0 118. 5 118. 8 124. 1 125. 4 127. 0 122. 1 132. 8 128. 9 127. 0 120. 9	95.8 96.3 97.4 97.7 98.6 99.8			93. 0 90. 4 91. 1 88. 2 82. 1 90. 1 92. 9 94. 4 98. 5 99. 4 101, 7 102, 7	102. 8 162. 0 99. 0 97. 9 99. 3 97. 4 97. 4 97. 4 97. 8 90. 0 95. 1 97. 2 102. 1	89. 0 90. 9 89. 4 89. 9 90. 1 93. 9 97. 3 102. 1 106. 3 107. 9			75. 6 75. 4 76. 4 77. 4 79. 9 78. 3 81. 3 83. 6 84. 9 87. 1 89. 0 90. 7
1920—January February March June June July August September October November December	95. 2 94. 8 94. 5 95. 3 96. 2 95. 6 96. 2 97. 4 95. 4 95. 4 94. 7 94. 4 93. 8	121. 1 119. 7 119. 4 119. 6 115. 3 114. 8 110. 7 109. 0 107. 4 103. 7 101. 4 99. 6	116, 4 104, 2 102, 3 107, 2 109, 4 105, 9 106, 4 96, 2 96, 8 89, 1 87, 4 79, 3			135. 0 126. 7 128. 0 122. 1 120. 6 129. 4 127. 7 121. 3 117. 3 117. 1 108. 9 112. 8	121.5 117.9 113.0 116.4 121.4 122.3 124.4 128.3 114.6 112.9 103.4 101.9	$\begin{array}{c} 103.5\\ 102.9\\ 103.0\\ 103.3\\ 102.4\\ 102.4\\ 103.4\\ 103.1\\ 102.0\\ 102.6\\ 102.1\\ 99.1 \end{array}$			103. 6 102. 4 107. 2 107. 2 108. 5 109. 2 111. 3 112. 0 111. 8 112. 0 109. 4 104. 9	104. 2 101. 3 103. 8 105. 8 106. 3 105. 6 111. 5 111. 6 110. 6 103. 0 96. 2 92. 1	109. 0 108. 9 108. 4 99. 4 90. 1 81. 4 73. 4 73. 4 73. 4 73. 4 77. 9 72. 3 68. 1			95. 0 93. 6 92. 2 92. 4 91. 3 92. 2 92. 5 91. 4 91. 3 88. 4 83. 3 78. 4
1921—January February March April June July August September October November December	91.5 89.9 88.9 91.3 92.9 93.1 93.6 93.5 94.4 93.7 91.8	94, 9 97, 1 96, 9 95, 7 98, 4 94, 1 94, 9 93, 1 91, 7 93, 4 94, 3 87, 1	82, 9 89, 8 91, 3 89, 2 89, 6 92, 0 89, 0 87, 3 102, 7 103, 5 105, 2 104, 1			108. 0 109. 4 110. 1 110. 0 103. 1 99. 7 109. 0 103. 1 103. 4 104. 6 104. 3 101. 2	99. 2 100. 2 111. 6 108. 1 97. 7 97. 0 97. 7 104. 9 99. 2 108. 0 118. 2 130. 0	95. 7 95. 0 94. 1 90. 4 87. 0 90. 4 90. 3 90. 7 91. 2 92. 9 92. 3 92. 0			99. 9 97. 6 95. 2 87. 6 78. 4 77. 4 79. 9 81. 4 82. 8 84. 3 85. 8 88. 7	87. 2 88. 6 88. 2 88. 1 73. 9 73. 7 78. 9 79. 1 77. 0 81. 4 83. 1	74. 1 72. 4 72. 1 73. 8 75. 7 78. 9			65.9 69.5 70.6 73.0 73.4 72.9 72.2 72.4 72.6 76.1 77.3
1922—January February March April May June July August September October November December	91.8 93.8 93.1	89.9 89.4 89.4 89.9 90.1 91.2 91.7 91.9 94.0 94.1 96.2 99.1	99.1			109.5	132. 4 125. 1 123. 9 123. 3 121. 4 124. 3 125. 7 127. 3 125. 0 110. 1 114. 2 117. 3	96.6			88.0 89.5 88.5 85.6 87.9 88.9 90.5 89.9 90.7 93.8 93.7 94.7	82. 4 83. 2 84. 3 83. 1 85. 4 85. 4 85. 4 88. 3 91. 1 90. 4 90. 0 90. 9 90. 9 93. 3	98. 1 96. 0 100. 1 102. 8 102. 0 101. 0 98. 6 99. 3 99. 7 97. 6			79.9 81.5 81.9 82.0 83.0 85.4 86.4 86.4 87.9 90.1 92.4 94.8
1923-January. February. March. April June. July. August. September. October. November. December.	93. 9 97. 1 98. 3 98. 1 98. 9 100. 5 102. 1 101. 9 101. 8 102. 9 99. 8 100. 8	99.9 100.1 101.7 103.3 104.5 105.1 106.1 108.0 108.7 107.4 106.3 104.9	96.3 97.1 100.2 100.4 99.1 102.0 99.1 100.8 101.4 103.0 107.1 100.1	98.7 99.4 102.4 101.7 98.6 100.1 97.6 101.1 101.7 103.0 108.1 98.0	89.9 90.5 94.0 97.1 100.6 107.0 103.0 99.8 100.8 102.8 104.5 105.6	103.8 105.0 106.9	113. 2 112. 0 112. 4 112. 8 110. 8 104. 3 99. 4 89. 8 95. 0 103. 4 103. 2 84. 7	97.1 97.7 97.9 98.4 98.0 98.7 99.1 99.0 99.3 100.1 100.1 99.9	96.1 97.6 97.7 99.0 97.0 98.4 99.3 98.5 98.6 99.5 99.2 99.0	98. 2 97. 7 98. 1 97. 7 99. 2 99. 1 98. 9 99. 6 100. 2 100. 7 101. 0 100. 9	94.6 96.5 102.1 103.8 102.7 103.4 100.9 101.5 98.5 97.7 97.4 98.4	94.7 96.1 99.8 100.4 102.4 102.7 102.8 101.3 101.2 100.4 100.4	99.1 101.1 101.2 101.0 102.8 103.8 102.4 101.9 102.1 102.1 102.0	100. 2 102. 5 102. 3 101. 9 102. 0 103. 8 105. 0 103. 6 103. 4 103. 4 103. 2 102. 9	94.4 94.4 95.9 96.7 97.1 98.5 98.4 97.2 95.3 96.0 97.4 97.9	97.5 97.9 97.7 98.0 99.1 99.9 101.2 100.2 98.1 97.4 96.3 94.0
1924—January February March April May June	101.3 103.3 102.3 101.3 101.7 101.7	104. 9 105. 1 104. 5 103. 4 100. 8 99. 2	99. 4 98. 7 100. 7 98. 9 96. 3 98. 0	97. 1 96. 4 99. 2 96. 7 93. 6 98. 3	105. 3 104. 8 104. 6 104. 7 103. 6 96. 9	102. 6 103. 2 102. 6 102. 4 101. 8 100. 2	84. 9 100. 3 96. 4 97. 1 102. 3 102. 7	101. 2 100. 9 100. 9 101. 1 101. 3 100. 9	100. 2 100. 2 100. 1 100. 1 101. 0 100. 8	102. 3 101. 7 101. 7 102. 2 101. 7 101. 1	97. 5 98. 8 98. 7 98. 9 98. 6 98. 0	101. 0 101. 6 102. 1 102. 3 99. 4 99. 1	101. 2 103. 1 102. 0 101. 3 100. 2 97. 1	101. 9 103. 8 102. 3 101. 3 100. 2 96. 8	97.8 100.0 100.4 101.4 100.1 98.2	94. 0 95. 8 96. 4 96. 1 96. 1 94. 4

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TABLE 4.—FACTORY EMPLOYMENT: INDEXES BY INDUSTRIES—Continued

			Food p	roducts	group]	Paper ar	ıd printi	ng grou	p	Lumbe	er and p	roducts	group
		Slaugh-		ctioner; ce crean					Printin	g	1			Lumber		
Year and month	Bak- ing	tering and meat pack- ing	Total	Con- fec- tion- ery	Ice cream	Flour	Sugar refin- , ng, cane	Total	Book and job	News- papers and period- icals	Paper and pulp (unad- justed)	Paper boxes	Total	Saw mills	Mill work	Furni- ture
1924—July August September October November December	99. 7 99. 6 100. 2 99. 6 100. 7 101. 0	99. 1 98. 3 98. 1 95. 6 95. 9 98. 4	98. 8 100. 9 99. 7 97. 9 94. 5 96. 3	93. 8 101. 4 99. 6 97. 8 93. 6 96. 5	98.4 99.7 99.7 98.2 97.0 95.4	100.8 97.0 97.1 96.7 96.9 95.9	103.7 102.4 105.7 99.2 91.4 92.2	100.5 100.2 101.7 100.9 100.3 100.7	100, 1 99, 5 101, 4 101, 8 100, 9 101, 8	101.0 101.0 102.0 99.9 99.7 99.6	94.7 95.1 96.3 97.8 98.2 98.1	96.0 97.9 99.2 99.4 98.3 98.6	96.0 95.3 95.4 97.2 97.0 98.2	96.0 95.3 95.2 97.0 96.6 97.6	95.7 95.4 96.6 98.4 98.8 100.7	94. 1 93. 8 95. 8 97. 8 98. 6 100. 6
1925—January February March Juine July August September October November December	101. 0 100. 5 98. 4 98. 4 99. 0 98. 0 97. 7 98. 0 100. 9 100. 1 100. 4	98. 2 97. 3 96. 3 94. 2 94. 2 94. 2 94. 2 94. 0 94. 7 94. 9 94. 6 94. 5 93. 4	97. 6 100. 0 100. 3 99. 7 100. 3 104. 0 101. 5 103. 4 101. 1 99. 7 102. 3 103. 3	98. 3 101. 0 101. 4 100. 6 101. 3 102. 0 101. 6 105. 2 100. 4 99. 4 103. 2 104. 6	95.3 97.0 97.1 97.4 97.8 109.2 101.2 98.4 102.8 100.3 99.5 99.8	98. 7 99. 4 97. 3 95. 4 94. 6 95. 0 91. 6 93. 4 93. 8 93. 7 93. 9	92. 2 96. 8 98. 6 97. 8 98. 0 97. 3 99. 0 99. 2 98. 0 99. 2 98. 8 105. 8	$\begin{array}{c} 101.\ 0\\ 100.\ 4\\ 100.\ 5\\ 100.\ 0\\ 99.\ 4\\ 100.\ 3\\ 100.\ 2\\ 100.\ 2\\ 100.\ 2\\ 100.\ 6\\ 100.\ 7\\ 100.\ 5\\ \end{array}$	102. 4 101. 8 101. 4 101. 2 100. 0 100. 4 100. 3 100. 4 101. 3 101. 4 100. 7	99. 6 98. 8 99. 4 98. 7 98. 8 100. 2 99. 9 100. 0 100. 0 99. 8 99. 8 99. 8 100. 3	98. 4 100. 6 103. 4 103. 5 102. 7 101. 3 102. 6 102. 4 101. 9 104. 5 104. 6 105 3	99. 4 101. 4 100. 0 101. 2 100. 6 99. 4 98. 7 98. 2 100. 1 100. 4 100. 9 101. 5	100.0 101.4 99.7 100.0 98.9 99.4 99.1 98.3 99.2 100.1 99.6 100.3	99.6 101.1 99.1 98.1 98.8 98.0 97.0 97.7 98.3 97.4 98.2	101. 7 102. 9 102. 4 103. 6 102. 4 102. 2 104. 0 104. 4 106. 3 108. 4 109. 3 109. 6	103.5 104.4 104.8 104.1 104.6 104.7 104.6 106.0 106.0 106.2 107.9 109.2 108.7
1926—January February March June July August September November December	100. 1 99. 0 100. 7 100. 9 101. 4 102. 6 102. 7 102. 6 102. 6 102. 8 102. 7 103. 0	93. 4 93. 2 92. 6 92. 1 92. 7 92. 7 92. 7 92. 7 94. 1 94. 4 94. 4 93. 4 92. 4	105.6 106.4 105.2 103.0 104.6 103.2 103.2 102.2 102.1 102.6 101.8 99.2		99.0 99.9 98.6 96.4 101.4 101.1 97.4 98.4 95.3 98.3 97.0 97.3	93. 4 90. 7 91. 3 90. 6 91. 0 91. 0 91. 0 91. 3 91. 0 91. 3 91. 3 91. 3 91. 3 91. 3 91. 2 92. 2 90. 2	102. 6 101. 4 97. 8 96. 9 93. 8 93. 6 90. 8 91. 9 91. 4 91. 3 93. 7 92. 1	$\begin{array}{c} 101.\ 6\\ 101.\ 2\\ 102.\ 0\\ 102.\ 1\\ 102.\ 4\\ 102.\ 8\\ 102.\ 8\\ 103.\ 3\\ 104.\ 2\\ 105.\ 0\\ 105.\ 4\\ 104.\ 7\\ \end{array}$	$\begin{array}{c} 102.\ 7\\ 101.\ 9\\ 103.\ 0\\ 103.\ 6\\ 103.\ 8\\ 104.\ 9\\ 105.\ 2\\ 106.\ 7\\ 107.\ 3\\ 108.\ 0\\ 107.\ 2\end{array}$	100. 3 100. 4 100. 8 100. 3 100. 7 100. 4 101. 1 101. 3 102. 3 102. 4 101. 9	105. 5 105. 7 105. 9 106 4 106. 6 106. 0 104. 8 105. 1 105. 7 106. 0 105. 4 103. 8	$\begin{array}{c} 102.\ 3\\ 101.\ 8\\ 101.\ 6\\ 101.\ 8\\ 102.\ 1\\ 102.\ 1\\ 102.\ 6\\ 102.\ 6\\ 101.\ 6\\ 101.\ 1\\ 101.\ 4\\ 100.\ 9 \end{array}$	99. 8 99. 3 98. 6 99. 3 98. 8 98. 5 98. 2 97. 9 95. 8 95. 8 95. 1 94. 7	98.0 97.6 96.8 98.3 97.9 97.9 97.5 97.3 94.9 94.6 93.8 94.0	107. 8 106. 9 106. 6 103. 5 102. 2 101. 7 101. 2 100. 7 100. 1 101. 3 101. 3 97. 9	109.5 110.1 111.1 10.7 109.4 109.7 109.4 109.9 111.0 111.9 110.9 110.4
1927–January February March April June July August September October November December	103. 7 104. 4 104. 4 105. 6 104. 3 106. 2 105. 1 106. 3 107. 1 106. 4 106. 7 107. 1	93. 0 93. 4 93. 3 94. 1 94. 3 96. 8 96. 9 94. 1 93. 6 93. 0 92. 7 91. 4	101. 4 99. 9 99. 4 99. 6 99. 4 101. 6 98. 5 98. 4 99. 6 96. 6 97. 1 97. 1	102. 9 100. 8 100. 1 101. 1 100. 9 104. 4 100. 6 100. 4 97. 7 97. 7 97. 9	97. 4 97. 4 97. 4 95. 4 95. 4 94. 0 93. 0 92. 8 92. 1 93. 5 95. 5 94. 7	89.7 88.8 89.4 91.4 91.4 90.7 88.9 89.0 88.5 89.0 88.5 88.6	92. 6 89. 6 90. 8 92. 6 96. 4 97. 9 98. 7 97. 5 96. 6 97. 6 97. 6 95. 2 95. 1	103. 6 104. 9 105. 0 104. 9 104. 8 104. 7 103. 9 104. 7 104. 7 104. 4 101. 4 104. 4 104. 7	104. 9 106. 8 107. 4 107. 1 107. 3 107. 2 105. 8 107. 6 107. 6 107. 7 107. 1 108. 2 108. 0	102.1 102.7 102.4 102.3 102.0 101.8 101.8 101.4 100.8 101.3 100.3 100.9	103. 7 103. 7 103. 4 103. 2 100. 9 100. 6 100. 7 101. 7 101. 7 101. 6 101. 3 100. 3	100. 7 99. 6 98. 5 99. 5 99. 6 99. 7 99. 4 99. 8 99. 8 99. 4 99. 0 98. 4	92. 2 90. 6 89. 2 87. 5 87. 9 87. 4 87. 2 87. 0 86. 8 86. 3 85. 2 83. 6	91.3 89.9 88.6 86.5 87.0 86.2 86.2 86.2 86.1 86.0 85.6 84.4 82.7	96. 2 93. 8 92. 1 92. 2 92. 0 92. 6 91. 3 91. 3 91. 3 91. 3 89. 8 89. 0 87. 7	109, 1 108, 8 109, 2 109, 1 109, 1 109, 7 109, 4 109, 0 108, 0 108, 1 108, 8 108, 8 106, 8
1928—January February March. Jane July August. September October November. December.	106. 4 105. 7 105. 2 105. 8 106. 6 105. 4 105. 7 105. 8 107. 3 105. 9 106. 6 107. 6	91, 9 94, 9 97, 5 95, 7 94, 2 94, 2 94, 2 94, 2 94, 2 93, 0 93, 0 92, 5 93, 2 94, 7 95, 6	$\begin{array}{c} 96.\ 7\\ 96.\ 9\\ 97.\ 2\\ 96.\ 8\\ 95.\ 4\\ 95.\ 3\\ 93.\ 4\\ 93.\ 7\\ 95.\ 6\\ 97.\ 0\\ 96.\ 9\end{array}$	97. 4 97. 9 97. 6 97. 9 97. 8 96. 4 95. 0 93. 3 96. 0 97. 8 97. 8	94. 7 93. 9 95. 1 95. 4 94. 2 92. 6 95. 9 96. 7 94. 6 94. 3 94. 9 94. 4	89. 8 89. 6 90. 4 90. 8 91. 0 88. 2 88. 0 89. 0 89. 0 89. 0 89. 8 91. 8	88.3 88.6 86.2 87.0 83.4 81.2 88.7 88.7 88.6 89.4 91.1 94.4 96.0	104. 4 105. 2 103. 4 103. 3 104. 5 104. 2 105. 2 105. 7 104. 2 104. 8 104. 8 104. 8	$\begin{array}{c} 107.\ 4\\ 108.\ 9\\ 105.\ 3\\ 104.\ 6\\ 106.\ 9\\ 106.\ 1\\ 107.\ 7\\ 108.\ 5\\ 105.\ 6\\ 106.\ 7\\ 106.\ 3\\ 105.\ 8\end{array}$	101. 1 101. 0 101. 2 101. 9 101. 8 102. 1 102. 4 102. 5 102. 5 102. 7 103. 0 103. 4	99. 2 98. 2 97. 6 97. 1 97. 7 97. 1 98. 0 98. 3 98. 3 99. 2 97. 8	98. 2 97. 5 97. 3 96. 6 96. 8 97. 2 95. 6 95. 0 95. 8 97. 2 97. 8 97. 8 97. 7	$\begin{array}{c} 82.7\\ 82.2\\ 83.0\\ 83.1\\ 82.5\\ 83.0\\ 82.1\\ 83.2\\ 83.0\\ 83.2\\ 83.8\\ 82.9\\ \end{array}$	81. 8 81. 3 82. 4 82. 2 81. 2 81. 7 80. 6 81. 9 81. 8 82. 4 82. 6 82. 2	87.1 86.5 85.7 87.2 88.6 89.1 89.0 89.4 88.2 86.9 89.1 86.2	$ \begin{vmatrix} 106. & 3\\ 107. & 3\\ 107. & 7\\ 106. & 3\\ 105. & 7\\ 105. & 1\\ 104. & 2\\ 104. & 2\\ 105. & 0\\ 104. & 6\\ 106. & 8\\ 108. & 4 \end{vmatrix} $
1929—January February March June July August September October November December	$\begin{array}{c} 106.\ 4\\ 107.\ 7\\ 107.\ 6\\ 107.\ 6\\ 108.\ 0\\ 107.\ 1\\ 108.\ 3\\ 108.\ 2\\ 108.\ 4\\ 107.\ 2\\ 106.\ 7\\ 106.\ 1 \end{array}$	97. 0 95. 1 95. 0 95. 3 96. 0 95. 3 95. 7 95. 7 95. 7 96. 3 96. 6 95. 5 94. 8	96. 1 95. 3 94. 7 95. 9 95. 7 95. 5 94. 8 94. 8 94. 8 95. 2 95. 1 95. 4	96. 3 95. 8 95. 4 95. 8 97. 1 96. 0 96. 1 95. 0 94. 1 95. 3 95. 7 96. 4	95. 5 93. 9 92. 7 96. 2 91. 9 95. 0 94. 0 94. 3 96. 4 94. 9 93. 6 93. 6 92. 7	91. 1 93. 3 91. 8 91. 8 90. 4 90. 4 92. 2 91. 8 91. 3 90. 2 90. 6	95. 5 93. 9 94. 4 92. 8 91. 4 93. 2 90. 2 91. 4 86. 1 90. 9 89. 2 87. 8	$\begin{array}{c} 107.\ 5\\ 108.\ 7\\ 109.\ 6\\ 110.\ 7\\ 109.\ 0\\ 109.\ 0\\ 109.\ 2\end{array}$	105. 9 109. 5 108. 9 108. 1 109. 7 109. 9 112. 0 112. 7 114. 1 110. 4 111. 1 111. 3	$\begin{array}{c} 103.5\\ 103.6\\ 103.2\\ 103.6\\ 104.0\\ 104.8\\ 105.1\\ 106.0\\ 106.9\\ 107.4\\ 106.5\\ 106.8\end{array}$	98. 1 98. 7 99. 0 98. 7 99. 0 98. 7 99. 4 99. 1 99. 8 100. 0 100. 6 99. 7 99. 2	95. 6 96. 8 95. 7 98. 5 99. 1 99. 7 99. 8 99. 6 100. 4 101. 4 100. 4 98. 8	82.4 82.0 82.4 83.2 83.4 83.4 83.7 84.1 82.1 80.4 78.4 76.2	81. 2 80. 9 81. 2 82. 1 82. 2 82. 4 82. 4 83. 4 81. 4 80. 0 78. 6 76. 8	87.7 87.0 88.4 88.6 89.0 88.7 88.2 87.4 85.2 82.1 77.7 73.4	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
1930—January February March April June July August September	105. 3 104. 7 102. 7 104. 1 103. 5 102. 2 102. 6 101. 6 100. 8	94. 9 94. 4 94. 6 94. 1 93. 9 93. 9 91. 8 90. 3 90. 3	95. 6 92. 8 92. 9 94. 2 93. 5 90. 7 89. 7 84. 8 86. 1	97. 0 93. 2 93. 0 95. 0 92. 7 91. 4 90. 5 83. 5 86. 0	91. 8 91. 6 92. 5 92. 0 95. 6 88. 7 87. 4 88. 4 86. 4	85.6	94. 6 91. 3 90. 4 90. 4 94. 2 89. 4 93. 3 85. 4 87. 7	108. 3 107. 7 107. 4 107. 2 107. 6 106. 7 107. 7 106. 4 104. 2	110. 2 109. 4 108. 9 108. 7 109. 6 108. 0 109. 2 107. 4 103. 1	106, 1 105, 7 105, 7 105, 4 105, 4 105, 3 106, 0 105, 4 105, 4	99.7 99.8 99.3 98.6 98.3 97.4 93.4 93.5 91.4	96. 2 95. 1 94. 7 94. 7 94. 1 94. 2 92. 7 93. 2 92. 0	$\begin{array}{c} 73. \ 6\\ 71. \ 8\\ 71. \ 6\\ 69. \ 8\\ 68. \ 6\\ 66. \ 2\\ 63. \ 2\\ 60. \ 4\\ 57. \ 6\end{array}$	73. 9 71. 4 71. 9 70. 0 68. 4 66. 0 62. 9 60. 0 57. 3	72.5 73.0 70.1 69.3 69.6 67.4 64.4 62.0 58.9	100, 0 96, 9 94, 8 93, 6 92, 1 90, 1 83, 5 81, 4 79, 2

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TABLE 4.—FACTORY EMPLOYMENT: INDEXES BY INDUSTRIES—Continued

	Т	ransporta	tion equip	ment gro	up	Leath		(Cement, cl	ay, and g	lass grouj	p
Year and month	Auto- mobiles	Car buil	ding and :	repairing	Ship- build-	Leather	Shoes	CI	ay produc	ets	Glass	Cement
	inopiles	Total	Steam	(unad justed)	ing			Total	Brick, tile, etc.	Pottery .		
1919 1920	85.3 88.3	104.5 116.0				132.4 118.5	101. 5 93. 5	74. 2 75. 6			112.8 119.8	68.5 83.2
1921	52.7	85.6				91. 9	86.8	69.9			82.4	69.4
1922	72.0	82.9 110.7	111.1	105.0	113.8	106.1 108.4	95.6 105.6	82.4 100.1	100.7	98.5	97.4 105.2	89.6 95.0
1924	93.4	96.0	95.9	97.2	93.1	95.3	96.6	100.3	98.9	104.1	95.4	100.9
1925	106.0	93.3	93.0	97.8	93.1	96.3	97.8	99. 6	100.4	97.4	99.4	104.1
1926	104.7 91.5	93.4 84.8	93.4 84.2	97.0 94.8	98.9 100.1	97.0 95.6	96.7 97.6	101.3 98.9	102.6 99.1	97.9 98.3	103.3 94.3	101.6 98.3
1928	169.1	78.5	77.9	87.8	77.6	92.6	93.7	93. 3	90.7	100.4	91.4	90.6
1929	113.8	79.7	79.4	85.0	98.9	89.5	94. 7	89.4	85.9	98.9	93. 0	83.8
1919-January	79.7	110.5	-			119.1	100.2	60.7			110.2	51.2
February March	77.2	107.3 104.2				117.8 120.7	99. 0 95. 4	58.4 59.2			115.5 115.0	53.6 59.8
April	76.3	102.3				125.7	95.5	69.7			116.3	60.1
May	76.4	102.1]	131.5	97.8	76.7			116.3	62.0
June July	80.1 82.9	100.5 104.1				136.2 133.4	97. 9 101. 6	79.4 82.0			117.3 87.1	73.4 75.3
August	86.1	103.2				135.4	101.8	83.3			118.0	76.2
September	90.4	105.2				140.8	103.4	78.9			115.5	77.0
October	95.9	102.8			- 	141.1	105.8	80. 2 70 5			121.8	78.0
November December	100.1 102.1	104.0 107.3				141.6 143.0	109. 1 110. 6	79.5 81.6			111.6 108.6	78.7
	109.7				1.1.1	1.00	109.7				109.4	84.4
1920—January February	109.7	111.9				136.4	105.4	86.1			114.7	80.0
March	103.1	113.2				135.8	105.5	81.0			116.1	78.1
April	97.0	113.1				134.6	106.4	75.1			115.9	83.2
May June	91.7 90.1	117 7				132.6 126.0	104, 9 100, 3	75.9 74.8			116. 2 123. 6	84.9 85.2
July		118.2				122.0	92.1	74.3			123. 9	81.8
August	85.1	121.9				114.0	88.6	72, 6			124.4	81.2
September October	80.3 73.2	121.0 117.7				104.6 99.3	79.9 78.3	71.9	- -		$125.0 \\ 125.7$	82.5 82.4
November	67.3					99.0	75.7	71.8			125.8	84.0
December	66.1	111.4				83. 9	74.1	70.3			116.5	91.0
1921—January	34.4	104.9			 	80.2	71.7	64.8			103.8	78.0
February	40.0	94.2				81.3	77.7	65.4			88.4	56.8
March April	46.7 55.9	84.4 76.6				85.5 81.0	79. 2 82. 2	64.3 68.2			87.7 77.8	· 65. 2 74. 0
May	56.4	78.2				87.9	86.3	68.7			81.0	73.4
June	55.7	76.0				95.4	90.3	71.4			77. 9	70.1
July	55.3 56.6	79.7 83.4				97.8 97.0	91.6 92.4	73. 8 73. 2			70.3 78.1	72.1
August September	57.4	85.9				96.4	93. 9	75.7			74.7	70.5
October	58.3	86.6	1			97.1	93.0	74.3			75.1	71.3
November December	58.2 57.0	88.7 88.0				99.3 103.7	91.6 92.2	70.4 68.4			84.1 90.1	70.0 72.0
	1	85.5				103.9	92.1	65.7			99.1	71.2
1922—January February		85.5	11			10: 0	91.9	64.9			98.5	82.0
March	60.0	85.8				102.3	88.9	73.9			95.2	84.2
April May	1 67 7	84.5 86.2				102.1 102.1	88.3 89.0	77. 1 82. 9			93.4 94.2	86.7 89.5
May. June July August September October	73.9	88.4				102.1	92.6	85.1			90.4	93.1
July	75.6	43.6				105.6	95.8	84.2			96.3	92.2
August	78.1 79.0	57.4 75.4				108.0 109.7	96.4 100.0	87.0 89.6			98.6 99.1	94.5 95.0
October	79.7	94.6				109.2	101.7	90.8			100.3	94.5
November	ðð. 2	101.4				110.4	104.0	92.4			101.8	96.3
December	87.7	106.7	11			111.4	106.4	94.6			101.4	95.8
1923-January	93.0	112.8	113.7			111.8	107.4	95.7	96.9			93.4
February	96.1 98.0	110.0 110.9	110.8 111.6	98.9 100.1	108.2 115.2	112.0 111.7	107.7 106.8	95.9 97.5	97.3 99.1	92.3 93.2	104.8 102.4	96.3 95.7
April	98.4	108.0	108.6	99.1	115.2	113.5	109.0	99.8	101.8	94.4	102.4	92.8
1923—January February April May June Juny.	99.0	108.9	109.5	100.4	115.5	111.0	108.2	99.9	101.0	97.1	108.3	92.6
June	101.2	111.8	112.4 111.8	102.0	117.6 117.7 115.7	110.9	108.5	100.6 101.0	101.2	99.1 99.0	112.8	93.4 94.4
August	99.9 100.4	111.5 113.8	111.8	107.4	117.7	109.0 106.1	103.8 103.5	101.0	101.8	99.0 103.2	107.7 107.5	94.4
September	101.4	112.2	112.2	112.1	113.8	104.4	103.8	102.6	102.4	102.9	105.4	94.9
October	103.8	112.6	112.7	111.2	115.0	104.3	102.8	102.7	102.7	102.7 101.7	103.3	94.1
July August September October November December	107.6	111.4 105.0	111.3 104.8	111.7 108.9	114.2 106.9	104.3 101.9	103.6 102.3	100.9 101.8	100.7 101.2	101.7	100.9 99.2	97.0 101.0
1924—January	1103.7	103.0	104.3	100.6	100. 3	101. 3	102.3	101.3	101. 2	1	99. 2 98. 2	101.0
1924—January February	110.2	97.9	97.9	98, 1	101.2	99.9	100.2 99.9	103.2	102.3	105.7 103.0	98.2 99.3	105.3
March	107.4	96.4	96.4	97.3	99.6	99.6	100.4	103.7	102.8	106.0	100.8	103.9
April	101.1	96.3	96.2	96.9	97.2	98.6	98,9	103.4	102.2 100.8	106.8	100.7	101.8
May	91.0	96.0	95.9	97.3	90.2	95.3	95.9	101.6	0 100.8	i 104.0	98.4	100.8

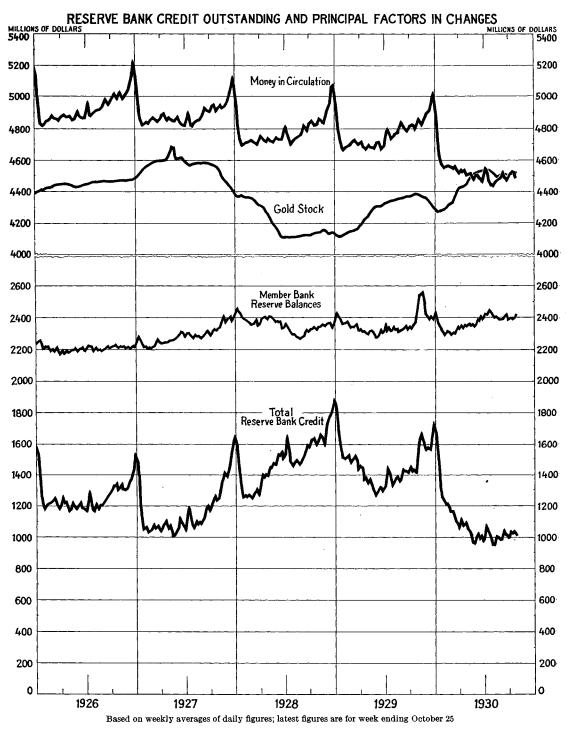
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TABLE 4.-FACTORY EMPLOYMENT: INDEXES BY INDUSTRIES-Continued

	Т	ransporta	tion equip	ment grou	ър		er and ts group	. (Cement, c	lay, and g	lass grou	p
Year and month	Auto	Car buil	ding and	repairing	Ship-			C	lay produ	ets		
	Auto- mobiles	Total	Steam	Electric (unad- justed)	build- ing	Leather	Shoes	Total	Brick, tile, etc.	Pottery	Glass	Cement
1924—June July	85. 1 83. 8	94.6 94.3	94. 4 94. 2	96. 9 96. 2	90.6 91.6	92. 8 89. 0	93. 4 91. 8	99. 9 97. 3	98. 5 95. 3	103.6 103.0	96.0 91.7	99. 0 98. 3
July	/ 85.7 87.4	94. 1 94. 4 95. 6 95. 7 96. 2	93. 9 94. 3 95. 5 95. 6 96. 2	96.0 95.7 97.6 97.4 96.3	87.3 87.7 89.7 88.7 88.6	88.8 92.9 94.2 94.7 96.7	92. 6 94. 5 96. 2 97. 7 97. 0	98. 8 97. 7 98. 0 98. 2 100. 4	95.7 94.9 96.7 97.2 100.0	107.1 105.6 101.5 100.9 101.4	92. 1 91. 3 92. 3 91. 2 92. 7	98.8 98.6 97.3 100.9 102.7
1925—January February April March June July August September October November December	91. 7 90. 1 93. 3 99. 0 104. 2 104. 7 107. 2 107. 9 112. 2 118. 8 124. 2	97. 3 97. 9 97. 2 95. 2 91. 6 91. 4 91. 4 91. 7 91. 0 90. 5 91. 0 93. 1	97. 4 98. 0 97. 1 95. 0 91. 1 90. 9 91. 0 91. 5 90. 5 90. 0 90. 0 92. 6	94. 6 95. 9 98. 4 98. 6 98. 4 99. 1 97. 1 95. 2 97. 7 98. 9 99. 7 100. 1	91. 9 92. 4 93. 5 95. 2 94. 9 92. 0 96. 1 95. 9 93. 7 90. 3 90. 1 91. 3	96. 4 96. 5 97. 0 97. 4 96. 4 96. 4 94. 1 94. 4 96. 1 96. 9 96. 8 96. 8 96. 7	98. 0 98. 3 98. 8 99. 0 95. 8 97. 0 97. 7 98. 8 97. 3 95. 3	99, 5 100, 7 102, 4 102, 0 101, 0 99, 7 98, 9 96, 8 97, 7 98, 1 98, 1 98, 4 100, 3	99. 7 100. 5 103. 3 102. 1 101. 5 100. 2 99. 4 97. 5 98. 7 99. 1 100. 2 103. 2	98. 9 101. 4 99. 9 101. 8 99. 6 98. 3 97. 4 95. 0 95. 2 95. 6 93. 8 92. 4	96. 3 95. 7 95. 4 96. 4 96. 1 98. 0 101. 4 101. 4 101. 7 103. 2 103. 6 104. 1	102.4 102.4 102.4 103.4 103.5 103.5 104.5 105.4 105.4 105.4 105.4 105.4 105.4 106.5
1926—January. February. March. April. May. June. July. August. September. October. November. December.	114.7 112.9 111.6 106.1 101.4 104.3 104.6 104.5 104.5 104.5 104.8 104.9 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 104.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 105.8 10	94. 2 95. 3 95. 9 95. 8 94. 1 93. 2 92. 6 92. 6 91. 4 91. 2 90. 4	93.8 95.1 95.7 95.6 95.2 93.9 93.0 93.4 92.4 91.2 90.9 90.1	99. 1 98. 4 98. 6 99. 3 98. 8 96. 3 96. 3 96. 3 95. 2 95. 2 95. 0 95. 0 95. 7	93. 8 94. 4 95. 2 91. 8 94. 6 95. 0 98. 1 99. 7 102. 7 102. 7 103. 0 107. 2 110. 7	96. 9 96. 4 97. 2 97. 8 97. 4 95. 1 95. 8 97. 1 98. 2 98. 2 97. 5 97. 0	94. 6 95. 0 94. 7 93. 7 94. 3 95. 9 97. 7 98. 0 98. 1 98. 1 98. 1 100. 0	101. 6 101. 9 99. 2 98. 7 100. 8 101. 7 102. 1 102. 8 102. 9 102. 0 101. 7 100. 9	104. 6 104. 6 100. 8 99. 2 102. 1 102. 8 103. 2 103. 8 103. 8 103. 8 103. 2 102. 1 102. 1	93. 4 94. 7 94. 8 97. 4 97. 2 98. 6 99. 0 99. 9 100. 2 98. 8 100. 7 99. 6	104. 8 102. 2 102. 8 102. 4 102. 5 104. 2 102. 7 103. 4 104. 5 103. 3 103. 3 103. 3 103. 2 102. 1	103.0 103.0 99.0 99.1 100.0 101. 102.1 102.1 101.1 101.1 101.1 101.0
1927—January. February. March. April. May. June. July. August. September. October. November. December.	95.1 96.2 95.1 94.1 92.8 89.9 90.3 88.7 87.7 87.4	88, 9 88, 3 86, 4 85, 7 86, 1 85, 6 84, 3 83, 4 82, 8 81, 2 79, 6	88. 5 87. 9 85. 8 85. 1 85. 2 85. 5 84. 9 83. 5 82. 7 82. 0 80. 4 78. 8	94. 7 95. 5 95. 6 95. 4 94. 1 95. 2 95. 5 95. 9 95. 6 94. 4 93. 0 92. 2	$\begin{array}{c} 108,2\\ 109,6\\ 109,2\\ 106,4\\ 105,4\\ 102,7\\ 99,0\\ 97,4\\ 95,1\\ 92,7\\ 88,9\\ 86,5\\ \end{array}$	97. 3 97. 8 56. 7 95. 3 95. 4 96. 0 95. 7 94. 8 94. 9 94. 6 94. 0 94. 2	98. 7 97. 4 98. 3 97. 7 98. 2 98. 7 99. 5 99. 2 98. 1 97. 0 94. 3 94. 6	$\begin{array}{c ccccc} 101. \ 2\\ 101. \ 1\\ 102. \ 2\\ 101. \ 6\\ 101. \ 0\\ 100. \ 1\\ 99. \ 4\\ 96. \ 2\\ 96. \ 2\\ 95. \ 4\\ 96. \ 3\\ 96. \ 3\\ 96. \ 3\end{array}$	101. 9 101. 0 102. 7 102. 7 102. 0 100. 8 99. 6 97. 3 96. 8 95. 3 95. 3 95. 3 94. 3	99.3 101.3 100.7 98.9 98.1 98.2 98.8 93.3 94.6 95.9 98.9 101.7	96.9 98.1 97.0 96.7 95.0 94.4 91.0 91.2 91.0 91.2	99. 98. 101. 100. 99. 98. 98. 98. 98. 97. 96. 93.
1928—January February April May June July August September October November December	96. 9 98. 1 99. 0 103. 0 108. 9 111. 7 115. 4 119. 2 119. 8 121. 2	79. 1 78. 8 79. 1 78. 8 79. 4 79. 4 78. 4 78. 4 78. 5 77. 9 77. 3 77. 8 77. 6	78.4 78.1 78.3 78.3 78.9 78.9 77.9 78.0 77.4 76.7 77.3 77.2	90, 6 90, 8 90, 9 90, 0 89, 0 88, 3 87, 0 86, 4 85, 8 85, 7 85, 2 83, 8	81. 2 75. 0 72. 2 73. 4 75. 5 75. 7 76. 9 77. 4 78. 8 79. 6 80. 5 84. 4	94. 6 94. 1 94. 0 93. 8 95. 3 94. 4 93. 9 93. 2 92. 4 91. 4 87. 6 86. 4	95. 7 95. 6 94. 3 93. 1 93. 9 94. 9 94. 9 93. 4 92. 8 91. 9 90. 7 90. 7	94. 9 95. 8 94. 4 91. 6 92. 4 92. 6 92. 6 92. 6 92. 7 93. 1 93. 2 93. 7	93.0 93.6 92.4 98.0 89.9 89.6 89.7 89.8 90.0 90.0 90.0 90.3 91.2	100. 2 101. 8 99. 7 98. 8 99. 5 100. 6 100. 5 100. 4 100. 1 101. 5 101. 1	90. 9 88. 7 90. 8 93. 0 92. 0 93. 2 93. 2 93. 2 93. 0 90. 9 89. 0 92. 1	93. 92. 92. 90. 90. 90. 90. 91. 91. 88. 88. 88.
1929—January February March April June July August September October November December	124. 6 127. 6 125. 3 123. 6 119. 8 119. 8 118. 0 118. 2 110. 8 110. 8 110. 93 109. 8 101. 3 93. 8	77. 7 78. 7 78. 8 79. 3 79. 9 79. 7 79. 8 80. 5 80. 5 80. 5 80. 8 80. 4 80. 4	77. 3 78. 4 78. 3 79. 0 79. 4 79. 4 79. 4 80. 2 80. 3 80. 4 80. 1 79. 8	83. 8 83. 8 86. 7 84. 4 85. 9 85. 9 85. 9 84. 6 85. 4 85. 7 83. 8	85. 4 83. 5 89. 1 95. 0 99. 2 99. 3 103. 0 104. 0 106. 2 105. 8 108. 0 108. 1	86. 6 86. 0 85. 3 87. 5 88. 7 90. 0 92. 1 92. 0 92. 4 93. 5 90. 9 89. 9	92. 6 93. 0 93. 0 95. 3 95. 1 95. 6 96. 3 96. 4 96. 1 96. 1 93. 4	91.7 89.6 88.4 90.2 90.0 90.3 90.1 90.6 90.1 88.3 84.5	88. 4 86. 3 84. 4 85. 3 86. 6 87. 1 87. 4 87. 4 87. 4 87. 4 87. 4 87. 2 84. 1 79. 0	100. 7 98. 8 99. 7 99. 6 100. 0 98. 1 98. 0 97. 4 97. 3	94. 0 95. 0 94. 0 93. 8 93. 1 92. 5 91. 0 92. 7 92. 5 93. 9 93. 9 93. 9 93. 4 89. 9	88. 88. 87. 85. 84. 84. 82. 80. 79. 77.
1930—January February March A pril May June July August September	90.7 	79.4 77.6	79. 2 77. 3 74. 4 72. 7 71. 9 69. 6 65. 9 64. 4 63. 3	83. 7 83. 4 82. 5 82. 7 81. 9 81. 0 80. 0 79. 6 79. 1	100.1 110.1 107.2 105.4 107.4 107.7 108.5 108.0 112.4 113.8	86. 4 86. 4 86. 4 86. 4 85. 1 83. 4 83. 4	92. 0 91. 6 91. 8 92. 7 91. 4 89. 9	78. 7 77. 5 77. 2 77. 1 75. 4 73. 8 71. 9 70. 4 70. 5	71. 6 70. 9 71. 3 71. 0 70. 1 69. 0 66. 4 65. 1	98. 1 95. 6 93. 4 93. 5 89. 7 86. 9 86. 8 84. 7 84. 4	89. 3 90. 0 90. 0 87. 7 85. 4 81. 1 76. 7 70. 6 71. 6	74. 75. 78. 81. 82. 82. 78. 77.

<u> </u>	Nonferi	rous metal	s group	Che	emicals gr	oup		products up	Tobac	co manufa group	ictures		l instru- group
Year and month	Total	Stamped and en- ameled ware	Brass, bronze, and copper	Chemi- cals and drugs	Petro- leum refining	Ferti- lizers	Auto- mobile tires	Boots and shoes	Total	Cigars and cig- arettes	Chew- ing and smoking tobacco; snuff	Total	Pianos and organs
1919	114.7			108.3					113.0			130. 4	
1920 1921	$121.3 \\ 74.5$			97.1					111.8			138, 4 86, 8	
1921	90.1	·		81.0					107.2			98.8	
1923	107.1	114.0	104.7	100.9	102.9	100.8	97.6	117.2	105.8	106.2	102.8	110.4	104.8
1924 1925	95. 0 97. 9	89.5 96.5	96.9 98.4	95.9 103.2	96.5 100.6	93.6 105.6	94.6 107.8	83.4 99.4	98. 8 95. 4	98.3 95.5	102.6 94.6	104. 3 85. 3	98.6 96.6
1926	99.5	97.4	100.2	107.6	110.2	112.4	105.4	102.4	90.8	90.6	93.0	94.6	93.4
1927	97.4 96.7	92.4 82.4	99.1 101.5	107.7 106.9	110. 2 102. 4	101.0 104.8	103.4 110.4	105.8 103.6	93.6 93.6	95.0 95.8	82.3 76.7	78.9 70.2	76.6 62.2
1929	101.1	79.0	108.6	111.2	116.4	104.3	111.9	100.0	91. 6	94.1	72.0	68. 4	53.7
1919-January	110.3			128.9					129.2			112, 5	
February	107.2			124.9					126.8			117.6	
March April	104.4								125. 2 126. 0				
May	109.2			107.4					192 1			131.9	
June July	111.8			106.2					112.3			137.4	
August	121.6	<i>-</i>		101.7					90.4	1		132.8	
September October	120.7 121.1			100.4		′- -			95. 1 99-6			141.3	
November	122.1			99.1		· • • • • • • • • • • • • • • • • • • •			114.2	1		134.1	
December	123.8			100.4								139.1	
1920-January	127.4 122.1			101.1					118.6 112.0			139.6	
February March	122.1			98. 1 98. 5					112 7		1	142.2	
April	126.8			97.9		i			116.4			146.4	
May June	123.5 128.5			0.00		:		1	111.4 110.9			144.9 145.9	
July August	128.4			101.2		'			110.4			151.6	
August September	$126.7 \\ 126.6$			100.8					110.0 109.8			148.1	
October	123.5			97.3					107.7			128.1	
November December	108. 0 86. 6			92.7 86.4		'			110. 4 110. 7			117.3	
1921—January	78.3			80.9		1		1	111.6	1			
February	69.4			74.4					106.9]		79.7	
March April	68.5 70.6			74.5 70.3	·				$102.0\\111.2$			86.2 82.7	
May	72.9			70.4					112.8			87.3	
June July	72.4 69.5			70.2		·			113.8			86.9 79.0	
August	75.3			66.3					113.1			82.6	
September October	76. 2 80. 4			65.1					112.0 112.0			87.3 02 4	
November	80.9			71.2					109.3			97.2	
December	79.8									11			
1922—January February	78.2			69.0 69.2					101.9 106.0			99.7 08.3	
March	78.8			72.5					106.3			96.2	
April May	80.1			73.8					103.0	1		97.7 96.7	
June	88.4			78.2					105.1			96. 0	
July August	93.1			83.4 85.7			1		$113.2 \\ 112.1$			97.2 100-2	
September	96.8			86.8					109.3			99.7	
October November	99.3			89.3 92.3		j			109.0			99.7 100.5	
December	102.8			94.2					107.4 107.3			103.7	·
1923-January	106.3	118.4	102.2	100.0	99.4	99.3	111.8	108.6	109.0	109.5	105.2	104.7	96.5
	105 0	111.6	104.0	100.7	100.1	110.1	114.3	111.9	107.7	108.5	100.9	106.3	98.4
A pril	107.3 109.6	113.9 114.7	105.1 107.8	102.5 98.6	101.8 105.4	· 102.9 94.4	114.3 112.8	116.0 119.9	107.8 109.4	109.3 110.9	95.6 98.0	109.9 110.6	103.0 103.4
May.	110.3	116.9	108.0	104.4	109.4	101.4	110.7	125.6	107.1	107.4	104.4	113.9	106.7
A gentary	110.8 110.4	117.1 121.6	108.7 106.7	104.0 102.8	107.4 105.5	103.8 105.5	104.2 93.4	127.1 128.7	106.9 104.7	106.8 104.4	107.5 106.4	115.4 119.1	108.1 115.1
August	109.0	116.9	106.3	101.5	104.6	106.8	80.1	126.4	103.1	103.1	102.8	112.1	109.0
September	105. 0 104. 0	111.8 111.4	102.7 101.4	99, 1 98, 4	$102.2 \\ 101.2$	98.4 96.9	76.4 78.6	114.6 114.0	103.8 104.1	104.0 104.1	102.4 104.0	110. 0 107. 7	107.2 103.6
November.	104.0 102.8	106.4	101.5	99.3	99.6	96.7	85.3	108.4	103.4	103.2	104.5	107.7	102.7
December	103.1	106.4	102.0	99.8	97.7	93.3	89.4	104.8	102.9	103.0	102.2	106.9	103.9
1924—January February	103.4 104.2	108.6 108.6	$101.7 \\ 102.7$	100.4 99.4	97.8	97.4	90.0 90.9	100.0	102.8 102.3	102.4 101.9	106.0 105.2	114.9 115.0	105.5 104.6
March	102.6	105.8	102.7	99.6	98.0 97.8	92.3 87.8	91.7	96.6 91.5	102.3	100.3	105.3	113.7	105.4
April	101.1	98.8	101.8	99.0	97.7	90.1	91.2	87.8	101.4	100.7	107.0	109.1 105.4	102.0
May June	96.7 91.8	85.7 77.1	100.4 96.8	97.8 91.3	98.2 97.2	96.9 88.0	90.3 87.9	87.3 85.1	98.6 98,0	98.0 97.8	103.7 99.6	105.4	96.4 92.8

	1	Nonfer	rous metal	s group	Che	micals gr	oup		products oup	Tobac	co manufa group	actures		l instru- group
Ye	ear and month	Total	Stamped and en- ameled ware	Brass, bronze, and copper	Chemi- cals and drugs	Petro- leum refining	Ferti- lizers	Auto- mobile tires	Boots and shoes	Total	Cigars and cig- arettes	Chew- ing and smoking tobacco; snuff	Total	Pianos and organs
1924-	-July August September October November December	86.6 88.6 90.0 92.1	h 81.2 h 82.2	90. 9 88. 4 90. 7 93. 6 95. 4 98. 7	92. 6 92. 4 92. 2 94. 1 94. 7 97. 2	. 94.6	85. 4 86. 1 93. 1 99. 2 102. 1 105. 2	85. 6 92. 5 101. 1 104. 4 105. 0 104. 4	79.9 58.2 66.6 66.8 90.6 90.7	99.3 99.9 98.3 90.0 97.3 97.0	99. 1 99. 9 97. 8 88. 7 96. 9 96. 5	100. 9 99. 4 102. 1 100. 2 100. 4 101. 0	101, 3 100, 4 98, 6 96, 7 96, 0 98, 0	92. 6 96. 6 95. 4 95. 7 96. 6 99. 6
1925-	-January February March. April May. June July. August. September Novomber December	96. 1 95. 1 94. 8 97. 3 98. 4 97. 9 98. 0 98. 5 98. 9 100. 8	92.9 89.6 91.6 95.4 97.1 93.8 96.4 99.1 99.3	98.7 97.2 97.0 95.9 97.9 98.8 99.3 98.4 98.4 98.4 98.8 99.5 100.4	98.6 98.7 100.9 101.8 102.0 102.7 104.8 103.9 105.4 106.1 106.3 106.8	96. 0 96. 4 96. 1 97. 4 99. 2 100. 8 102. 2 103. 8 105. 4 106. 4 107. 2	$\begin{array}{c} 96.3\\ 106.7\\ 115.4\\ 117.9\\ 98.5\\ 107.7\\ 109.3\\ 107.9\\ 107.4\\ 100.4\\ 100.4\\ 100.2\end{array}$	101. 4 101. 9 102. 5 104. 4 109. 4 109. 4 111. 1 112. 3 113. 4 110. 2 106. 3 109. 3 111. 3	94. 8 99. 9 99. 3 97. 5 98. 4 97. 5 98. 7 103. 7 99. 0 101. 2 99. 2 98. 5 102. 4	97.4 96.9 93.9 96.9 95.3 95.5 95.7 94.3 94.7 93.6		96. 0 96. 4 92. 1 91. 7 94. 2 94. 6 95. 9 96. 7 95. 0 95. 7 95. 7 93. 1 93. 7	86. 3 84. 4 83. 8 81. 8 81. 4 81. 9 80. 2 77. 6 89. 6 90. 7 90. 8 94. 9	99. 2 98. 9 99. 9 98. 9 98. 9 99. 0 96. 1 81. 7 95. 9 97. 4 95. 8 97. 4
1926-	-January February	100. 6100. 7100. 699. 498. 398. 398. 9100. 099. 0	$\begin{array}{c} 102.\ 2\\ 101.\ 4\\ 102.\ 9\\ 98.\ 0\\ 98.\ 0\\ 98.\ 8\\ 95.\ 9\\ 92.\ 6\\ 92.\ 4\end{array}$	$\begin{array}{c} 100, \ 6\\ 100, \ 1\\ 100, \ 4\\ 99, \ 8\\ 99, \ 9\\ 99, \ 7\\ 98, \ 4\\ 98, \ 9\\ 101, \ 4\\ 101, \ 1\\ 101, \ 5\\ 101, \ 2 \end{array}$	106. 9 105. 6 106. 4 107. 2 108. 0 109. 0 108. 7 108. 4 108. 4 108. 4 108. 4 108. 4 107. 3 107. 1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	115. 8 115. 4 107. 3 98. 6 108. 9 116. 2 113. 6 114. 7 117. 3 116. 9 117. 1 106. 7	$ \begin{bmatrix} 109, 4 \\ 108, 3 \\ 105, 6 \\ 105, 2 \\ 101, 4 \\ 100, 6 \\ 102, 3 \\ 103, 8 \\ 107, 4 \\ 110, 2 \\ 106, 6 \\ 103, 4 \end{bmatrix} $	104. 6 102. 9 107. 3 106. 8 106. 3 106. 3 105. 7 84. 1 104. 8 103. 9 103. 9 101. 7 100. 3 100. 0	$\begin{array}{c} 91.8\\ 92.7\\ 92.1\\ 91.9\\ 89.9\\ 92.3\\ 90.6\\ 89.2\\ 89.3\\ 89.6\\ 89.8\\ 90.5\end{array}$	91. 8 92. 7 91. 3 91. 2 89. 3 92. 0 90. 0 88. 4 89. 2 89. 6 90. 0 91. 0	91.8 92.9 97.7 96.8 95.1 95.0 95.4 94.8 90.7 89.8 88.3 87.2	98. 0 99. 0 98. 9 98. 4 99. 3 98. 7 94. 6 91. 7 89. 4 89. 9 88. 2 88. 7	97. 1 95. 8 96. 1 95. 4 96. 6 96. 7 94. 4 92. 5 90. 6 89. 9 87. 9 87. 9
1927-	January February March April May June Juny July August September October November December	95. 4 97. 0 97. 9 100. 3 98. 9 99. 4 99. 2 97. 4 96, 5	91.8 96.4 95.7 99.0 94.7	100. 8 97. 8 58. 8 99. 7 101. 6 100. 0 99. 5 100. 7 99. 5 98. 2 96. 4	107.8 106.6 108.1 108.3 107.0 108.4 108.6 108.2 107.8 107.7 107.7 107.7	117.3 117.6 118.3 114.7 112.4 110.3 108.9 107.3 105.4 104.5 103.0 102.4	104.7 101.9 95.9 98.8 106.3 100.8 98.8 98.5 101.0 99.4 101.3 104.6	100. 9 100. 2 100. 8 106. 3 109. 9 103. 9 100. 7 100. 8 101. 2 101. 9	101. 4 102. 8 103. 1 102. 8 105. 0 105. 0 105. 2 104. 8 109. 1 108. 3 108. 5 111. 2	90. 3 91. 6 91. 7 92. 7 93. 0 94. 6 96. 3 91. 1 95. 6 96. 0 95. 4 94. 4	91.1 92.3 92.4 94.0 94.4 96.4 98.4 92.4 98.4 92.4 97.7 97.7 97.2 96.2	84.7 86.0 85.9 82.4 82.1 81.3 79.8 80.6 80.0 82.6 81.8 80.4	90. 2 84. 7 83. 4 81. 3 80. 1 78. 4 76. 3 76. 8 75. 6 73. 5 71. 5	84.9 82.1 79.9 77.0 77.4 77.3 76.4 75.8 74.1 73.4 71.8 68.4
1928-	-January February	90. 9 91. 7 91. 4 93. 6 94. 7 96. 0	78. 6 81. 9 80. 4 81. 4 82. 4 81. 6 81. 4 81. 4 82. 8	95.1 95.1 97.7 98.9 100.7 101.6 102.8 104.6 107.0 109.6 110.2	104.4 104.4 106.1 106.3 106.4 105.8 107.3 107.2 106.1 107.9 108.5 108.5	103. 1 103. 1 102. 2 102. 1 99. 4 90. 4 100. 5 100. 4 102. 0 103. 9 104. 5 105. 1 106. 0	$\begin{array}{c} 100.\ 4\\ 107.\ 0\\ 108.\ 5\\ 103.\ 0\\ 101.\ 7\\ 105.\ 5\\ 105.\ 8\\ 101.\ 8\\ 104.\ 4\\ 105.\ 3\\ 104.\ 0\\ 109.\ 7\end{array}$	104. 4 106. 0 106. 0 104. 2 104. 4 107. 2 112. 0 113. 4 114. 1 117. 8 118. 4 116. 6	108.3 108.3 102.1 106.5 105.4 98.4 106.7 102.7 101.9 102.0 90.4	94. 6 93. 3 93. 7 93. 7 93. 7 93. 7 93. 6 89. 9 95. 7 93. 8 93. 8 93. 8 93. 8 93. 8	96. 4 95. 1 95. 8 95. 8 95. 8 95. 8 92. 0 98. 3 96. 2 96. 2 96. 2 96. 2 96. 2	80. 4 79. 4 77. 4 78. 6 77. 6 76. 7 76. 7 74. 0 75. 3 75. 4	$\begin{array}{c} 70.3\\71.4\\69.1\\70.6\\71.7\\71.3\\70.2\\72.9\\68.6\\68.3\\69.0\\67.4\end{array}$	
1929-	-January February March April June July July July September November December	105. 1 104. 0 102. 9 101. 9 101. 2 100. 1 99. 9 94. 8	85, 3 83, 6 84, 2 81, 2 79, 4 79, 6 79, 4 77, 1 76, 6 70, 9 67, 7	107.9 110.9 111.0 112.9 111.8 110.9 109.4 108.6 107.9 107.8 102.9 99.0	109.8 112.0 111.7 111.7 111.4 111.4 112.0 112.9 111.7 112.7 102.8 108.8	$\begin{array}{c} 106.\ 0\\ 108.\ 1\\ 110.\ 3\\ 111.\ 9\\ 114.\ 6\\ 115.\ 3\\ 117.\ 4\\ 119.\ 7\\ 121.\ 8\\ 124.\ 9\\ 124.\ 9\\ 124.\ 9\\ 122.\ 4\end{array}$	103. 2 98. 9 103. 0 114. 6 108. 9 102. 3 105. 3 101. 0 103. 9 103. 2 99. 6	118.0 116.4 117.3 118.6 120.0 119.3 117.1 111.2 106.2 103.2 103.2 89.1	98. 8 96. 6 98. 4 97. 7 98. 2 101. 0 104. 1 107. 5 103. 8 102. 0 96. 2 96. 0	90. 8 92. 9 92. 6 93. 3 91. 9 92. 6 92. 6 93. 6 90. 9 89. 9 90. 9 89. 9 80. 9	92.9 95.4 95.2 94.5 94.5 95.3 94.5 95.3 95.3 95.3 95.3 95.3 93.4 93.4 93.4	74.0 73.0 72.4 71.5 71.6 71.6 71.8 72.0 69.4 72.7 69.4 71.0 74.7	58. 0 56. 6 55. 9 59. 6 68. 8 68. 3 82. 0 81. 1 82. 7 81. 3 67. 4 58. 5	$\begin{array}{c} 59.\ 6\\ 58.\ 7\\ 57.\ 8\\ 57.\ 1\\ 55.\ 8\\ 54.\ 5\\ 54.\ 7\\ 48.\ 2\\ 52.\ 3\\ 51.\ 6\\ 50.\ 6\\ 43.\ 7\end{array}$
1930–	January February March April May June July August September	86. 8 82. 9 81. 6 81. 0 80. 2 80. 3 78. 7 76. 1	$\begin{array}{c} 64. \ 0\\ 59. \ 3\\ 59. \ 4\\ 58. \ 7\\ 57. \ 2\\ 57. \ 4\\ 58. \ 2\\ 55. \ 1\\ 51. \ 4\end{array}$	94. 6 90. 9 89. 1 88. 6 88. 1 88. 1 85. 7 83. 3 81. 1	105. 6 102. 4 101. 6 100. 8 102. 8 102. 3 102. 2 102. 0 101. 2	123. 1 122. 4 119. 7 116. 1 114. 3 114. 3 111. 1 110. 1 106. 6	104. 1 103. 7 102. 6 99. 3 102. 6 101. 2 105. 6 100. 1 94. 3	89. 0 85. 3 84. 5 87. 2 89. 3 90. 1 83. 9 80. 2 76. 2	94. 4 93. 4 93. 4 90. 4 84. 3 81. 6 77. 7 79. 2 72. 6	90. 8 90. 1 90. 2 90. 1 90. 9 89. 7 90. 4 84. 1 85. 1	92. 9 92. 5 92. 5 92. 4 93. 2 92. 0 92. 0 92. 2 85. 5 86. 8	74. 2 71. 3 71. 9 72. 3 73. 2 72. 4 75. 9 72. 6	$\begin{array}{c} 40.8\\ 42.3\\ 42.2\\ 42.4\\ 44.4\\ 45.4\\ 59.9\\ 71.1\\ 97.4\end{array}$	$\begin{array}{c} 37.1\\40.0\\40.1\\39.9\\39.9\\38.4\\38.0\\35.6\\37.7\end{array}$



FEDERAL RESERVE BANK CREDIT

RESERVE BANK CREDIT OUTSTANDING AND FACTORS IN CHANGES

[Average of daily figures. In millions of dollars]

	1	Reserve ba	nk credit o	utstanding	ł	Factors of	decrease 1		Factors of	increase ¹	
Month or week	Bills dis- counted	Bills bought	United States securities	Other reserve bank credit ?	Total	Monetary gold stock	Treasury currency (ad- justed)	Money in circu- lation	Member bank reserve balances	Non- member deposits, etc.	Unex- pended capital funds
929—May	956	145	153	49	1, 303	4, 292	1, 787	4, 684	2, 296	32	37
Tuna	079	99	179	61	1, 317	4, 311	1,779	4.687	2, 314	30	37
July	1,096	75	147	62	1, 380	4, 335	1,790	4, 764	2, 334	31	37
July August September October November	1,043	124	155	54	1,376	4,351	1, 781	4,777	2, 322	27	38
September	969	229	165	64	1,427	4,368	1.766	4, 811	2,335	28 28	38
October	885	337	154	74	1,450	4, 381	1, 785	4,810	2,386	28	39
November	953	296	315	67	1, 631	4, 374	1, 789	4,845	2, 521	33	39
November	803	320	446	74	1, 643	4, 324	1, 797	4, 943	2, 395	27	39
930January	501	314	485	57	1, 357	4, 283	1, 784	4,652	2, 349	29	39
February	378	285	480	38 35	1, 181	4, 319	1, 781	4, 556	2, 305	27	39
March	274	246	540	3 5	1, 095	4, 395	1, 797	4, 533	2, 330	27	39
April	231	266	530	45	1, 072	4,443	1, 781	4, 518	2, 350	28	4(
May	247	182	529	38	996	4, 505	1,779	4, 497	2, 356	29	39
		141	571	37	1,000	4, 528	1,775	4, 489	2, 392	27	39
July	226	154	583	40	1,003	4, 532	1,789	4,483	2, 417	35	35
August	214	153	599	32	998	4,496	1, 787	4, 476	2, 392	28	38
July August September	189	197	597	33	1,016	4, 503	1, 785		2, 397	26	38
		185	602	37	1,020	4, 520	1,787	4, 501	2,407	27	39
Week ending (Saturday)— Oct. 4											
Oct. 4	205	195	599	39	1,038	4, 508	1,782	4, 517	2,395	25	3
Oct. 11	189	200	601	35	1,025	4, 515	1,789	4, 521	2, 391	25	39
Oct. 18	197	193	602	46	1,038	4, 519	1,783	4, 520	2, 395	34	30
Oct. 25	195	178	602	32	1,007	4,522	1,783	4,482	2,414	25	31
Nov. 1	204	164	602	22	992	4,530	1, 793	4,467	2,430	27	39

 For explanation see BULLETIN for July, 1929, pp. 432-438.
 Includes "other securities," amounts due from foreign banks, and reserve bank float; for explanation see BULLETIN for July, 1929. Back figures.-See Annual Report for 1929 (Tables 1, 2, and 3).

ANALYSIS OF CHANGES IN MONETARY GOLD STOCK

[End of month basis In millions of dollars]

GOLD MOVEMENTS TO AND FROM UNITED STATES [In thousands of dollars]

[End of mor	nth basis.	. In mill	ions of do	llars]	·			
	Gold	Increase or decrease () during month						
Month			Through net gold import or export	Through ear- marking opera- tions	domestic			
1928Total (12 mos.)		-237.9	-392.0	119.6	34.5			
1929—January February March	$\begin{array}{c} 4, 127\\ 4, 153\\ 4, 188\\ 4, 260\\ 4, 301\\ 4, 324\\ 4, 341\\ 4, 341\\ 4, 360\\ 4, 372\\ 4, 386\\ 4, 367\\ 4, 284\\ \end{array}$	$\begin{array}{r} -14. \ 4\\ 26. \ 4\\ 34. \ 4\\ 72. \ 4\\ 40. \ 6\\ 23. \ 4\\ 16. \ 3\\ 18. \ 9\\ 12. \ 1\\ 14. \ 4\\ -19. \ 2\\ -82. \ 9\end{array}$	$\begin{array}{r} 47.2\\ 25.5\\ 24.8\\ 23.1\\ 23.6\\ 30.2\\ 34.7\\ 18.4\\ 17.6\\ 17.5\\ -23.2\\ -64.4\end{array}$	$\begin{array}{c} -65.0 \\ 7.5 \\ 48.6 \\ 16.1 \\ -7.5 \\ -22.0 \\ -1.0 \\ -6.6 \\ -4.5 \\ 1.0 \\ -22.0 \end{array}$	$\begin{array}{c} 3.4\\ .9\\ 2.1\\ 0.7\\ 0.9\\ 0.7\\ 3.6\\ 1.5\\ 1.1\\ 1.4\\ 2.3\\ 3.5\end{array}$			
Total (12 mos.) 1930—January March	4, 423 4, 491 4, 517 4, 535	8.8 61.9 68.2 68.5 25.9 17.6	175.1 4.0 60.0 55.5 65.7 23.5 13.9	$ \begin{array}{r} -55.4 \\ \hline 2.5 \\ 0.0 \\ 13.0 \\ 0.5 \\ 2.0 \\ 2.0 \\ \end{array} $	$ \begin{array}{r} 1.9 \\ -0.3 \\ 2.3 \\ 0.5 \\ 1.7 \end{array} $			
July August September October ?	4, 501	$ \begin{array}{r} -18.4 \\ -15.5 \\ 10.2 \\ 23.0 \\ \end{array} $	$ \begin{array}{c} -19.6 \\ -19.6 \\ 2.5 \\ 23.7 \end{array} $	$ \begin{array}{c} -3.0 \\ 0.0 \\ 4.0 \\ -6.1 \end{array} $	4.3 4.2 3.7 5.5			

	1930									
From or to—	Octo (prelin		Septe	mber	January– September					
	Im- ports	Ex- ports	Im- ports	Ex- ports	Im- ports	Ex- ports				
England. France. Germany. Italy	575 15,000 1,017 	9,000	$982 \\ 103 \\ 1, 147$	10 3,000 7,059 965 100	$\begin{array}{c} 13\\ 112\\ 27\\ 1,\\ 19,082\\ 301\\ 67,371\\ 213,551\\ 391\\ 67,371\\ 213,5124\\ 1,117\\ 6,318\\ 4,615\\ 8,301\\ 20,692\\ 1,235\\ 126,609\\ 2,634\\ 157\end{array}$	289 73, 808 171 3, 000 22, 706 415 965 965 161 50				
All other countries 1_		30 29, 230	200	11, 133	3, 566	91 101, 657				

¹ Includes all movements of unreported origin or destination.
² At New York—imports, \$17,023,000; exports \$30,000. Elsewhere—imports, \$15,875,000; exports, \$9,200,000.

¹ For explanation of this figure, which is derived from preceding col-umns, see BULLETIN for December, 1928, p. 831. **P** Preliminary.

MEMBER BANK BORROWINGS AT FEDERAL RESERVE BANKS

[Monthly averages of weekly figures. In millions of dollars]

Month	Tot	al ¹	bank —— New	porting ts in les York	bar out	side ling		
	1929	1930	1929	1930	1929	1930	1929	1930
January February April May June July August September October November	891 893 978 991 972 1, 100 1, 013 974 885 944 755	462 371 247 225 226 222 218 196 186 193	190 131 166 162 145 165 319 196 166 74 60 80	39 21 1 17 11 5 4 9 6 	$\begin{array}{c} 473\\528\\574\\563\\516\\505\\482\\521\\540\\561\\595\\410\end{array}$	$208 \\ 152 \\ 80 \\ 54 \\ 48 \\ 48 \\ 53 \\ 39 \\ 35 \\ 50 $	228 234 238 266 290 302 299 296 268 250 289 265	$215 \\ 193 \\ 166 \\ 154 \\ 167 \\ 169 \\ 165 \\ 153 \\ 142 \\ 137 \\$

¹ Includes (in small amounts) discounts by Federal reserve banks for nonmembers: (1) Bills discounted for intermediate credit banks and (2) notes secured by adjusted-service certificates discounted for nonmember banks.

FEDERAL RESERVE BANK RATES

DISCOUNT RATES

[Rates on all classes and maturities of eligible paper]

Federal reserve bank	Rate in effect on Nov. 1	Date estab- lished	Previous rate	
Boston	3	July 3	31/2	
New York	21/2	June 20	3	
Philadelphia	31/2	July 3	4	
Cleveland	31/2	June 7	4	
Richmond	31⁄2	July 18	4	
Atlanta	31/2	July 12	4	
Chicago	31/2	June 21	4	
St. Louis	31⁄2	Aug. 7	4	
Minneapolis	31/2	Sept. 12	4	
Kansas City	31/2	Aug. 15	4	
Dallas	312	Sept. 9	4	
San Francisco	31/2	Aug. 8	4	

BUYING RATES ON ACCEPTANCES

[Buying rates at the Federal Reserve Bank of New York]

Maturity	Rate in effect on Nov. 1	Date estab- lished	Previous rate
1-15 days	17/8	June 30	2
16-30 days	17⁄8	do	2
31-45 days	17⁄8	do	2
46-60 days		July 21	2
61-75 days	17⁄8	do	2
76-90 days		June 20	21⁄4
91-120 days		do	21/4
121-180 days	23/8	do	23⁄4

NOTE.—Rates on prime bankers' acceptances. Higher rates may be charged for other classes of bills.

OPEN-MARKET RATES RATES IN NEW YORK CITY

	Preva	iling rat	e on		nge rate n—	A verag on	
Month or week	Prime	Prime bank-		Call	loans 1	U.S. Treas- ury	
	com- mercial paper, 4 to 6 months	ers' accept- ances,	Time loans, 90 days ²	New	Re- newal	notes and certifi- cates, 3 to 6 months	Treas- ury bonds?
1929							
October	6¼	51/8	7 -9	6.10	6.43	4.37	3.67
November	51/4-61/4	33/4-45/8	43⁄4-6	5.40	5.44	3.47	3.45
December	5	3¾-4	43⁄4-5	4.88	4.83	4 3. 03	3.46
1930					ł		
January	43/4-5	37⁄8-4	43⁄4-5	4.31	4.64	3.39	3. 51
February	41/2-5	334-37⁄8	41⁄2-5	4.28	4.32	3.36	3.50
March	33/4-43/4	21/2-33/4	3¾-4¾	3.56	3.69	4 2.95	3.40
April	3¾-4	7⁄8-3	4 -41/4	3.79	4.00	3.00	3.46
May	31⁄2-4	23/8-25/8	3¼-3¾	3.05	3.12	2.41	3.41
June	31⁄4-33⁄4	17/8-23/8	21/2-31/4	2.60	2.62	4 1.89	3.37
July	3 -31/2	11/8	$2\frac{1}{2}-3$	2.18	2.20	1.83	3. 37
August	1	13/8	21/2-23/4	2. 22	2. 21	1, 53	3.38
September	3	11%	$2\frac{1}{2}-2\frac{3}{4}$	2.17	2.19	431.84	3.37
October	3	17⁄8	$2\frac{1}{4}-2\frac{3}{4}$	2,00	2.00	1.90	3.34
Week ending-							
Oct. 4	3	17⁄8	21/4-21/2		1.90	1, 99	3.34
Oct. 11	1	178	21/4-23/4	2.00	2.00	2.00	3. 34
Oct. 18		17/8	$2\frac{1}{2}-2\frac{3}{4}$	2.00	2.00	1.96	3. 34
Oct. 25	3	17⁄8	$2\frac{1}{2}-2\frac{3}{4}$	2.00	2.00	1.94	3. 34
	i I						

¹ Stock exchange call loans; new and renewal rates.

¹ Stock exchange 90-day time loans.

³ 3 issues—3%, 3%, 4 per cent; yields calculated on basis of last redemption dates—1947, 1956, and 1954.

⁴ Change of issues on which yield is computed.

Maturities of 6-9 months.

RATES CHARGED CUSTOMERS BY BANKS IN PRINCIPAL CITIES

[Weighted averages]

Month	New York City			Eight other north- ern and eastern cities			Twenty-seven southern and western cities		
	1928	1929	1930	1928	1929	1930	1928	1929	1930
January February March May June July July September October November December	4. 56 4. 44 4. 59 4. 72 4. 97 5. 09 5. 38 5. 56 5. 63 5. 63 5. 63 5. 63	$\begin{array}{c} 5.\ 74\\ 5.\ 73\\ 5.\ 81\\ 5.\ 85\\ 5.\ 88\\ 5.\ 93\\ 5.\ 88\\ 6.\ 05\\ 6.\ 06\\ 6.\ 08\\ 5.\ 86\\ 5.\ 74\end{array}$	$5.64 \\ 5.35 \\ 5.22 \\ 4.91 \\ 4.74 \\ 4.59 \\ 4.48 \\ 4.41 \\ 4.29 \\ 4.26 \\$	4.73 4.76 4.81 5.04 5.36 5.57 5.59 5.80 5.80 5.82 5.91	$\begin{array}{c} 5.87\\ 5.86\\ 5.91\\ 6.00\\ 6.09\\ 6.02\\ 6.08\\ 6.11\\ 6.24\\ 6.25\\ 6.12\\ 5.94 \end{array}$	5.88 5.66 5.47 5.22 5.13 5.06 4.81 r 4.79 r 4.74 4.75	$\begin{array}{c} 5.53\\ 5.53\\ 5.54\\ 5.54\\ 5.56\\ 5.67\\ 5.77\\ 5.80\\ 5.82\\ 5.87\\ 5.90\\ 5.91\end{array}$	$\begin{array}{c} 5.94\\ 5.96\\ 6.04\\ 6.07\\ 6.10\\ 6.16\\ 6.17\\ 6.22\\ 6.27\\ 6.29\\ 6.29\\ 6.20\\ \end{array}$	6. 12 6. 04 5. 98 5. 86 5. 75 5. 69 5. 62 5. 57 5. 54 5. 53

Nore.—Figures relate to rates charged by reporting banks to their own customers as distinguished from open-market rates (which are given in preceding table). All averages are based on rates reported for 3 types of customer loans—commercial loans, and demand and time loans on securities. The method of computing the averages takes into account (a) the relative importance of each of these 3 types of loans and (b) the relative importance of each reporting bank, as measured by total loans. In the two group averages the average rate for each city included is weighted according to the importance of that city in the group, as measured by the loans of all banks. revised.

MEMBER BANK CREDIT

REPORTING MEMBER BANKS

[in millions of dollars. Monthly data are averages of weekly figures]

Bor
Bor- row- ings at
F. R. banks
801 717 706 634 655 490
247 174 81 71 59
53 53 43 44 56
319
196 166 74 60 80 39
21 1 17 11 5
4 9
6
482 521 540
561 594 410 208 152
80 54 48 48 53
39 35 50
33 44 39 76 58 62
2 29
33
44 37 47 58 62

BROKERS' LOANS

REPORTED BY THE NEW YORK STOCK EXCHANGE

[Net borrowings on demand and on time. In millions of dollars]

End of month	т	otal	York banks banl and trust com- forei			n private s, brokers, n banking icles, etc.	
	1929	1930	1929	1930	1929	1930	
January	6, 735	3, 985	5,664	3, 368	1,071	616	
February	6, 679	4,168	5, 619	3, 529	1,060	639	
March	6,804	4,656	5, 713	4,026	1,091	631	
April	6,775	5,063	5, 580	4,409	1, 194	654	
May	6,665	4, 748	5, 482	4, 139	1, 183	609	
June	7,071	3, 728	5, 797	3, 201	1, 275	527	
July	7,474	3, 689	6, 154	3,227	1,320	462	
August	7,882	3, 599	6, 492	3,109	1,390	489	
September	8, 549	3,481	7,077	3,057	1,472	425	
October	6, 109	1 2, 556	5, 313	2, 299	796	257	
November	4,017		3, 432		585		
December	3,990		3, 370		620	}	

¹ Call loans, \$1,986,000,000; time loans, \$569,000,000.

MADE BY REPORTING MEMBER BANKS IN N. Y. CITY

[In millions of dollars. Monthly data are averages of weekly figures]

			For banks	6	I
Month or date	Total	Total	In New York City ¹		For others
1929—October November	6, 498 4, 023	2, 896 1, 869	1, 257 1, 090	1, 639 779	3, 602 2, 154
December		1,601	888	713	1, 790
1930—January	3,351	1,706	844	862	1, 644
February	3,459	1, 913	942	971	1, 546
March	3,741	2,310	1,210	1,100	1, 430
April	4,115	2,740	1, 557	1, 183	1,376
May		2,727	1,665	1,062	1, 302
June	3,825	2,748	1,831	917	1,078
July	3, 224	2,378	1,631	747	846
August	3, 150	2,351	1,659	692	798
September	3, 174	2,426	1,676	750	748
October	\$ 2, 769	2, 212	1, 675	537	557
Oct. 1	3,063	2,436	1,834	602	627
Oct. 8.	2,905	2,295	1,740	555	610
Oct. 15	2,752	2,216	1,702	514	536
Oct. 22	2,613	2, 101	1, 590	511	512
Oct. 29.	2, 512	2,012	1, 510	502	500

Weekly reporting member banks in New York City.
 Member and nonmember banks outside New York City (domestic banks only); includes unknown amount for customers of these banks.
 Call loans, \$2,165,000,000; time loans, \$604,000,000.

ACCEPTANCES AND COMMERCIAL PAPER

[In millions of dollars]

End of month	Bank	ers' acc stan	eptance ding	s out-	Com	mercia stan	l pape ding	r out-
	1927	1928	1929	1930	1927	1928	1929	1930
January	774	1,058	1, 279	1, 693	551	577	407	404
February	785	1,056	1,228	1,624	577	567	411	457
March	809	1,085	1,205	1,539	606	570	387	529
April	811	1,071	1,111	1,414	599	571	351	553
May	775	1,041	1,107	1,382	582	541	304	541
June	751	1,026	1, 113	1,305	579	503	274	527
July	741	978	1, 127	1,350	569	483	265	528
August	782	952	1,201	1,339	591	458	267	526
September	864	1,004	1,272	1,367	600	430	265	513
October	975	1,123	1,541		611	427	285	
November	1,029	1,200	1,658		603	421	316	
December	1,081	1, 284	1,732		555	383	334	

Figures for acceptances as compiled by American Acceptance Council for commercial paper as reported by about 25 dealers.

· Revised.

SECURITY PRICES, SECURITY ISSUES, AND BUILDING CONTRACTS

					SI	ECURI	ry Pr	ICES								
	[Inde:	x numb	ers of S	tandard	Statist	ics Co.	Mont	aly data	are av	erages o	f weekl	y figures	5]			
	ĺ							Com	non sto	eks (1926	3=100)					
		Pre-							Se	lected g	roups o	f indust	rial issu	es		
Month or date	Bonds	ferred stocks ²	Total	Indus- trial	Rail- road	Public utility	Auto- mobile	Build- ing equip- ment	Chain store	Chem- ical	Cop- per and brass	Elec- trical equip- ment	Ma- chin- ery	Oil	Steel	Tex- tile
Number of issues	60	20	404	337	33	34	13	13	17	9	9	4	10	16	10	30
1929—October November December	95.1 95.7 96.5	126.4 123.9 126.4	202 151 154	194 145 147	157 135 136	277 195 201	196 134 134	152 114 113	139 104 106	305 214 228	259 204 196	345 227 241	172 135 143	161 131 132	217 169 170	10 7 7
1930-January February April May June July August September October	96.5 96.4 97.8 97.9 97.9 98.2 98.2 98.7 99.6 100.0	126.5 126.9 127.8 128.2 127.6 126.8 125.9 126.5 127.9 126.8	156 166 172 181 171 153 149 148 149 128	149 156 163 171 160 143 140 139 139 139	137 143 143 142 136 125 124 121 123 111	209 231 242 264 250 224 215 213 216 187	135 145 155 162 152 134 132 134 133 108	117 125 125 127 116 100 98 97 100 84	102 100 100 101 97 90 89 90 96 88	240 254 266 282 257 223 217 219 230 191	193 193 193 174 151 135 129 121 114 93	265 307 323 359 237 290 277 278 283 225	146 154 161 173 170 152 155 152 152 154 134	129 128 141 156 148 133 133 130 125 106	$177 \\188 \\192 \\196 \\174 \\161 \\159 \\160 \\162 \\142$	77 88 88 76 66 66 5
Oct. 1 Oct. 8 Oct. 15 Oct. 22 Oct. 29	99.6	$\begin{array}{c} 128, 2 \\ 127, 6 \\ 126, 2 \\ 125, 9 \\ 125, 9 \\ 125, 9 \end{array}$	$137 \\ 130 \\ 128 \\ 120 \\ 124$	$127 \\ 120 \\ 118 \\ 110 \\ 114$	117 112 111 106 109	200 191 188 175 182	118 112 107 99 105	87 85 85 82 81	91 89 89 84 87	207 191 191 178 187	100 95 93 83 91	257 234 229 197 208	143 137 134 128 132	$113 \\ 110 \\ 108 \\ 99 \\ 102$	151 143 142 135 137	

¹ Average price of 60 high-grade bonds adjusted for differences in coupon rate and maturity.

DOMESTIC CAPITAL ISSUES

[In millions of dollars. Source: Commercial and Financial Chronicle]

January-September September, 1930 1930 1929 Class of issue Re-fund Re-fund-Re-fund-New New New ing ing ing 375.6 5, 102. 5 7, 769. 4 1, 251.8 58.6 438.8 Total..... Corporate issues_____ Bonds and notes— Long-term_____ Short-term_____ 283. 9 57.3 4,055.8 408.4 6, 865. 6 1, 242.9 $177. \ 6 \\ 44. \ 5 \\ 61. \ 8 \\ 15. \ 0 \\ 76. \ 7$ 2, 264. 5 399. 4 1, 391. 9 328.6 65.0 14.8 475. 3 43. 9 723. 7 49.9 7.4 1, 545. 1 143.3 5,177.2 Stocks_ Farm-loan issues..... Municipal issues..... Total new and re-funding..... 45, 5 1, 001, 2 1.3 30.4 903.8 8.9 434.2 5, 541. 1 9,021.2

20 high-grade industrials; average price.

FOREIGN CAPITAL ISSUES [In millions of dollars]

	1					
	Septer		Jan	uary-S	eptemt	ber
Class of issue	193	30	19	30	19	29
	Gov- ern- ment	Cor- po- rate	Gov- ern- ment	Cor- po- rate	Gov- ern- ment	Cor- po- rate
Total	57.8	0.2	693. 7	321. 2	237. 5	414. 1
New issues Europe Canada and Newfound-	7.6 1.0	. 2	555. 5 135. 3	321. 2 36. 6	220, 1 84. 1	398. 6 82. 5
land Latin America U. S. insular possessions	6.6	. 2	109.4 147.1 106.5	76.0 17.6	63.3 70.7 2.0	96.4 49.7 7.7
Miscellaneous Refunding issues Total Government and		<u></u>	57.3 138.2	190.9	17.5	162. 2 15. 5
corporate	58	. 0	1,0	14.8	651	. 6

BUILDING CONTRACTS AWARDED, BY TYPES OF BUILDING

[Value of contracts in millions of dollars]

	To	otal	Resid	ential	Indu	strial	Comp	nercial		orks and utilities	Educa	tional	Ali c	other
	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930
January February March April May June July August. September	410. 0 361. 3 484. 8 642. 1 587. 8 545. 9 652. 4 488. 9 445. 4	324. 0 317. 1 456. 1 482. 9 457. 4 600. 6 367. 5 347. 3 331. 9	138. 1 129. 5 197. 2 256. 8 192. 0 189. 8 199. 9 146. 1 118. 4	66. 6 74. 8 101. 5 123. 1 116. 6 96. 8 84. 3 82. 7 98. 5	$\begin{array}{c} 63. \ 1 \\ 56. \ 1 \\ 55. \ 8 \\ 68. \ 2 \\ 80. \ 8 \\ 70. \ 0 \\ 66. \ 6 \\ 75. \ 3 \\ 52. \ 6 \end{array}$	$\begin{array}{c} 38.\ 3\\ 33.\ 5\\ 74.\ 3\\ 38.\ 1\\ 54.\ 6\\ 93.\ 6\\ 35.\ 2\\ 20.\ 7\\ 31.\ 7\end{array}$	100. 4 68. 3 75. 6 78. 0 86. 5 80. 9 91. 3 72. 0 76. 9	54. 1 72. 9 77. 0 73. 2 73. 3 59. 1 46. 9 50. 9 31. 1	$\begin{array}{c} 66.5\\ 57.6\\ 71.5\\ 152.1\\ 139.4\\ 120.8\\ 194.5\\ 119.3\\ 117.2 \end{array}$	112. 1 85. 8 105. 3 149. 7 134. 9 251. 9 114. 9 124. 2 101. 4	17.7 22.6 37.5 29.9 38.2 43.4 48.0 32.3 29.8	19. 0 21. 2 35. 4 35. 2 36. 9 48. 9 42. 7 25. 9 28. 2	24. 1 27. 3 47. 2 57. 1 50. 9 40. 9 52. 0 43. 9 50. 4	34. 0 28. 8 62. 6 63. 5 41. 1 50. 2 43. 5 43. 0 40. 8
Year to date October November December	4, 618. 5 445. 6 391. 0 316. 4	3, 684. 7	$\begin{array}{r} 1,567.7\\ 137.7\\ 113.5\\ 114.0 \end{array}$	844.9	588.6 60.9 39.7 67.4	420.0	729. 8 67. 7 101. 8 33. 4	538.6	1, 039. 0 85. 1 72. 4 51. 8	1, 180. 2	299.536.925.719.8	293. 4	393. 9 57. 3 38. 0 29. 9	407.6

Figures for building contracts awarded are for 37 States east of the Rocky Mountains, as reported by the F. W. Dodge Corporation.

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PRODUCTION, EMPLOYMENT, CAR LOADINGS, AND PRICES

[Index numbers; 1923-1925 average=100. The terms "adjusted" and "unadjusted" refer to adjustment for seasonal variation]

		Inc	dustrial p	oroductio	•n *		Build-			Fac-	Fi	eight car	loading	s *		nodity xes †
Year and month	т	otal	Manuf	actures	Mir	nerals	tracts award- ed		ry em- ment	tory pay rolls	Т	otal		ndise in an-car- lots	All com-	Farm prod-
	Unad- justed	Ad- justed	Unad- justed	Ad- justed	Unad- justed	Ad- justed	Unad- justed	Unad- justed	Ad- justed	Unad- justed	Unad- justed	Ad- justed	Unad- justed		mod- ities	ucts
1919	83 87 67 85 101 95 104 108 106 111 118		84 87 67 87 101 94 105 108 106 111 119		77 89 70 74 105 96 99 108 107 106 115		64 63 57 81 84 95 122 130 128 135 117	107 108 82 90 104 96 100 101 99 97 * 101		103 96 101 104 102 102	84 91 79 \$6 100 98 103 107 103 103 106		72 87 93 96 99 104 107 105 104 104		139 154 98 97 101 98 104 100 95 98 97	158 151 88 94 99 100 110 100 99 106 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
1926 May June July August September October December	106 103 109 113 114	106 108 107 110 112 111 108 105	108 106 102 108 112 112 108 99	$106 \\ 108 \\ 107 \\ 111 \\ 112 \\ 111 \\ 106 \\ 103$	103 109 110 115 119 124 123 113	104 106 107 109 110 114 118 119	134 133 126 148 137 126 119 131	101 101 99 101 103 103 101 100	$101 \\ 101 \\ 101 \\ 101 \\ 102 \\ 102 \\ 101 \\ 101 \\ 101$	104 104 99 104 105 108 105 104	106 110 111 113 122 123 113 98	107 109 108 108 109 109 109 107	108 108 106 107 112 112 110 103	105 107 106 106 107 107 108 108	101 101 100 99 100 99 98 98 98	102 101 99 97 99 98 95 95
1927 January February March April May June June Juny September October November December	111 113 110 112 107 102 105 107 105 101	106 108 111 109 111 108 106 107 105 103 99 100	104 110 113 112 113 107 102 104 106 104 100 95	105 107 110 109 111 109 107 107 105 102 99 99	112 113 111 96 108 108 103 111 111 111 112 105 97	116 117 118 107 109 105 100 106 104 104 105 101	94 96 151 147 135 154 130 135 127 137 114 116	98 100 100 99 99 98 99 101 99 97 95	100 100 99 99 100 99 99 99 98 98 98 97 97	99 105 106 105 104 102 99 102 102 103 98 99	97 100 102 100 105 106 104 109 116 114 101 88	105 109 108 108 106 104 101 104 104 104 101 97 95	100 104 108 106 105 105 104 105 110 109 106 98	108 109 107 107 104 104 104 104 104 104 105 104 103	97 96 95 94 94 94 94 95 97 97 97 97	97 95 94 94 96 97 98 102 106 105 104
1928 January February March April June June July August September. October November. December.	112 110 108 105 110 116 118 115	106 109 109 109 109 109 110 112 114 115 113	106 114 115 113 111 109 106 110 110 117 115 109	106 110 111 110 109 111 111 113 116 115 113 114	100 99 98 94 104 103 111 115 123 117 106	103 103 103 105 105 101 101 105 107 114 113 112	104 113 144 157 163 158 142 126 143 145 115 105	94 96 97 96 96 96 98 100 100 99 98	96 96 96 96 96 97 97 97 97 97 97 98 98 98 99	96 101 103 100 101 101 98 103 104 107 104	92 94 97 96 104 103 105 109 119 119 108 95	$\begin{array}{c} 100\\ 102\\ 102\\ 104\\ 105\\ 102\\ 102\\ 102\\ 104\\ 106\\ 106\\ 106\\ 104\\ 103\\ \end{array}$	98 101 105 105 106 105 104 104 109 109 109	106 105 104 104 103 104 103 104 105	96 96 96 97 99 98 98 98 99 100 98 97 97 97	106 105 104 108 110 107 107 107 109 104 104
1929 January February March April June June July August September October November December	120 121 124 125 125 119 121 123 120	$\begin{array}{c} 117\\ 117\\ 118\\ 122\\ 124\\ 127\\ 124\\ 123\\ 122\\ 117\\ 106\\ 99\end{array}$	$\begin{array}{c} 116\\ 120\\ 125\\ 127\\ 127\\ 126\\ 119\\ 121\\ 122\\ 119\\ 107\\ 92\\ \end{array}$	117 116 120 123 125 129 126 125 122 117 105 96	114 116 101 104 116 118 121 127 127 127 414 110	118 120 107 115 116 113 114 115 118 118 118 110 116	100 88 118 156 143 133 159 119 108 109 95 77	97 100 101 102 102 * 102 * 102 * 102 * 102 * 104 * 105 * 103 * 99 95	100 100 101 102 103 103 103 103 103 102 101 99 97	101 108 111 111 111 111 111 111 111 111	95 99 98 102 110 109 111 114 121 118 102 90	$\begin{array}{c} 104\\ 107\\ 103\\ \cdot 111\\ 108\\ 108\\ 109\\ 108\\ 109\\ 99\\ 97\\ 97\\ \end{array}$	97 101 106 107 108 105 106 110 109 106 96	104 105	97 97 98 97 96 96 98 98 98 98 98 98 98 94 94	106 105 107 105 102 103 108 107 107 107 104 101 102
1930 January February March April May June July September	109 106 107 105 r 99 r 90 90	107 104 106 104 100 94 92	110 109 110 106 99 89 88	102 106 105 107 104 107 93 91 91 90	107 104 91 93 102 102 100 101 \$\$100	112 109 96 104 102 100 97 96 9 7	79 77 111 118 111 146 89 85 81	93 93 93 793 791 789 786 785 86	96 94 93 92 91 90 87 84 83	94 7 98 98 97 94 7 91 7 83 7 82 83	90 93 97 95 95 96	99 9 5 101 98 94 92 91	94 98 101 101 101 98 94 95 99	94	89 87 84 84	101 98 96 93 89 83 85 85

* A verage per working-day, except for annual indexes. † Wholesale price index of Bureau of Labor Statistics; 1926=100. Index numbers for all major groups of commodities are given on p. 745. * Preliminary.

19367-30-3

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INDUSTRIAL PRODUCTION, BY INDUSTRIES

[Index numbers of the Federal Reserve Board. Adjusted for seasonal variation. 1923-1925 average=100]

			19	29						1	930				
Industry	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.
MANUFACTURES															
IRON AND STEEL	152	143	140	124	100	90	99	119	113	114	111	110	93	93	86
Pig iron Steel ingots	131 154	128 144	122 142	118 125	107 100	95 90	94 100	101 120	102 114	102 115	104 112	101 111	91 93	86 94	80
TEXTILES	118	120	116	118	108	96	103	99	98	96	90	84	84	81	88
Cotton consumption	119 97	119	115	117	104	90 77	102	94	94	100	91	85	82	78	79
Wool	109	101 114	98 106	101 109	89 94	80	78 85	76 81	71	72 80	70 74	71 78	69 80	67 76	69 78
Consumption Machinery activity 1	85	86	89	91	82	74	72	81 73	65	62	69	73	65	62	78 67
Carpet, rugloomactivity	83 146	90 150	90 148	96 148	88 145	75 140	69 141	70 145	66 150	66 125	60 117	49 100	43 113	47 109	49
Silk Deliveries	156	161	158	158	153	140	145	149	155	123	121	99	120	117	158
Loom activity 1	127	130	128	130	128	124	133	138	140	128	111	102	98	91	101
FOOD PRODUCTS Slaughtering, meat packing	96 94	100 93	98 101	96 97	96 95	95 91	96 89	94 92	90 85	97 94	98 94	93 90	94 89	91 89	93
Hogs	96	94	106	104	101	96	89	93	80	93	94	88	85	85	91
CattleCalves	88	88	91	86	82	81	87	86	88	89	88	90	89	89	88
Sheep	90 124	85 126	99 126	88 125	88 125	91 113	97 116	92 132	92 141	100 147	89 142	86 137	93 139	95 143	97 146
Flour	101	107	99	91	92	94	92	97	101	105	104	104	101	103	98
Sugar meltings	94	113 125	84 130	99 126	106 123	111	127 122	94 122	90 121	96 122	105 119	84 117	106 111	84 108	86 109
PAPER AND PRINTING Wood pulp and paper	123	119	130	120	1123	118 113	1122	116	116	1122	113	108	105	108	108
Newsprint. Book paper	91	95	94	94	92	93	95	97	91	86	89	88	84	83	80
Book paper	138 122	134 118	143 119	145 119	139 120	139 116	140 118	125 118	128 121	133 116	120 111	115 105	111 108	105 100	104 99
Fine paper Wrapping paper	101	101	101	96	97	95	93	92	99	98	99	95	89	89	87
Paper board	136	131	128	130	131	107	127	131	125	132	132	122	123	114	115
Wood pulp, mechanical. Wood pulp, chemical	$ 103 \\ 117 $	101 120	100 120	91 118	85 113	91 116	96 115	111 119	106 117	89 114	90 115	98 110	88 103	92 107	87 106
Paper boxes	152	169	178	156	144	125	147	147	149	149	151	173	146	151	159
Newsprint consumption	131	135	148	139	133	134	131	137	130	132	132	132	124	123	126
TRANSPORTATION EQUIPMENT: Automobiles	142	143	133	113	81	49	103	110	109	109	104	98	75	67	68
Locomotives	59	55	49	57	45	32	39	40	48	51	43	42	40	38	
Shipbuilding LEATHER AND PRODUCTS	$156 \\ 114$	175	101 116	75 113	69 106	97 93	170 96	102 96	80 98	128 99	147 94	164 7 100	347 100	310 102	100
Tanning		103	105	108	103	99	93	93	98	99	99	103	107	102	100
Tanning. Sole leather 1	86	93	94	94	95	94	99	101	97	99	100	100	100	99	102
Upper leather— Cattle	75	80	87	98	88	83	76	66	80	79	72	77	73	67	68
Calf and kip	111	108	102	100	88	70	68	76	80	85	95	92	106	· 101	90
Goat and Kid	198	136	144	147	145	151	129	127	136	131	128	145	154 r 96	143	151
Boots and shoes CEMENT AND GLASS:	120	125	123	117	108	90	98	97	97	99	91	98	790	162	98
Cement	118	122	118	113	109	110	108	110	111	108	119	119	116	117	111
Glass, plate	164 127	168 122	174 125	172 122	149 119	117 113	124 105	122 101	117 104	131 105	143 P 100	114 195	105 ₽95	65 294	₽ 97
Copper (smelter)	. 133	126	127	125	126	122	110	103	103	103	101	94	95	92	94
Tin (deliveries) 1	123	120	131	125	112	106	99	92	117	132	107	99	103	101	111
FUELS, MANUFACTURED: Petroleum refining	171	176	173	178	171	166	163	168	168	174	173	170	166	164	165
Gasoline 1	205	209	208	215	209	201	199	204	204	214	213	210	206	205	207
Kerosene Fuel oil ¹	95 138	108 142	95 141	103 142	93 136	90 132	89 121	96 125	99 117	93 121	90 123	90 117	85 113	84 109	78
Lubricating oil 1	123	131	123	121	110	115	120	126	130	138	133	126	126	124	117
Coke (by-product)	151	152	147	146	139 94	131	132 106	136	135	138 123	137 121	132 119	123 93	119 96	114
RUBBER TIRES AND TUBES Tires, pneumatic	141 146	119 123	116 120	114 117	94	80 82	100	107 110	105 108	123	121	119	93 96	: 96 98	84
Inner tubes	105	87	90	87	74	70	85	85	84	97	96	93	71	79	64
TOBACCO PRODUCTS	131 97	133 99	136 100	135 99	130 96	133	131 84	133 92	128 87	136 92	134 94	141 91	137 88	130 89	125
Cigars Cigarettes		163	168	168	160	83 172	167	166	161	172	167	183	177	164	85 158
MINERALS COAL:	•			ĺ											
Bituminous	102	99	103	103	98	104	100	92	81	97	92	89	86	82	8
Anthracite	72	7 78	* 102	116	92	121	106	101	69	73	81	78	82	88	80
Fetroleum, crude	. 143 . 119	145 121	140 121	140 107	131 98	132	132	135	125	128	127 104	124 108	120 95	117 96	
Petroleum, crude Iron ore shipments Copper (mined)	122	119	125	123	118	115	101	95	88	90	90	86	83	* 84	8
Zinc	. 124	127	120	119	106	98	104	98	96	94	94	99	92	94	94
LeadSilver	. 114 88	107 91	119 89	115 94	114 114	105 87	92 88	106 98	107 89	104 88	₽ 97 80	₽ 92 75	₽ 96 69	° ⊅ 99 (7 70	72
NII VOI		1 81	80	94	1 114	01	00	98	1 09	00	00	10	09	1 10	1 4

¹ Without seasonal adjustment. ² I

² Includes also lead and zinc; see " Minerals."

Preliminary. Prevised.

Note.—The combined index of industrial production is computed from figures for 58 statistical series, 50 of manufactures, and 8 of minerals most of which are shown in this table. Adjustments have been made in the different industries for the varying number of working days in each month and for customary seasonal variations, and the individual products and industries have been weighted in accordance with their relative importance. The sources of data and methods of construction were described in the BULLETIN for February and March, 1927. -

FACTORY EMPLOYMENT AND PAY ROLLS

INDEXES OF FACTORY EMPLOYMENT AND PAY ROLLS

[Without seasonal adjustment. Monthly average 1923-1925=100]

	Fa	ctory er	nploym	ent	F	actory	pay roll	s ·
Month	1927	1928	1929	1930	1927	1928	1929	1930
January	98.1	94.2	797.5	r93. 2	98.6	95.7	r100.8	r94.4
February	99.7	95.7	r99.8	793.3	104.8	101.1	7108.1	r97. 1
March	100.4	96.6	7101.4	r93.1	106.3	102.5	110.8	r98. 1
April	99.8	96.0	7102.1	r92.6	105.0	100.3	111.4	r97.1
May	99.1	95.7	101.9	790.9	104.3	100.8	111.4	r94.
June	99.0	96.2	r102.0	188.8	102.5	100.9	*109.7	r90.
July	98.0		r102.1	*85.5	98.6	98.3	+105.7	782.0
August	99.2	98.3	104.0	785.1	102.2	102.5	7110.6	181.
September	100.6	100.3	7105.4	86.5	101.9	104.2	7111.9	83. (
October	99.3	100.2	*103.3		102.5	107.5	7110.9	
November	96. 9	98.8	/98.9		98.5	103.6	7102.5	
December	95.5	98.1	- 195. 2		99.4	104.2	799.1	
Annual in- dex	98.8	97.2	r 101, 1	 	102. 0	101.8	7 107.7	



* Revised.

FACTORY EMPLOYMENT: INDEXES BY GROUPS

	Iron	Ma-		Food	Paper	Lum- ber		ortation ment	Leather	Ce- ment,	Nonfer-	Cher	nicals	Rubber	To-
Month	and steel	chinery	Textiles	prod- ucts	and print- ing	and prod- ucts	Group	Auto- mobiles	and prod- ucts	clay, and glass	rous metals	Group	Petro- leum refining	prod- ucts	bacco prod- ucts
1020-June July August September October November December	100. 8 99. 8 101. 0 101. 0 99. 4 97. 0 92. 2	120. 8 121. 5 119. 4 119. 5 118. 7 115. 0 112. 1	96. 3 91. 5 94. 2 98. 4 99. 8 97. 1 94. 3		$103. 2 \\103. 6 \\104. 1 \\106. 0 \\106. 1 \\106. 7 \\106. 9$	90. 0 90. 5 92. 2 91. 8 90. 1 86. 7 81. 6	97. 6 96. 4 95. 5 94. 8 90. 2 82. 9 81. 3	120. 6 117. 8 115. 0 113. 1 101. 3 83. 7 79. 6	89. 4 94. 6 98. 1 99. 5 99. 3 94. 4 90. 0	93. 8 91. 6 93. 8 93. 6 91. 9 88. 9 82. 3	102. 9 100. 5 99. 8 98. 6 98. 5 93. 6 89. 9	107. 9 108. 9 111. 2 114. 5 116. 1 113. 8 111. 8	116. 4 120. 0 121. 9 124. 0 124. 6 123. 7 120. 9	115. 0 114. 2 111. 5 108. 3 102. 7 91. 2 89. 2	91. 4 90. 5 93. 0 93. 7 95. 0 96. 1 89. 2
1930—January February April June July August September.	91. 7 93. 5 92. 8 93. 0 92. 7 90. 0 86. 1 83. 6 82. 3	109.9 109.3 108.5 106.9 103.6 100.1 95.2 r 90.7 \$9.8	92. 8 92. 9 92. 9 90. 3 86. 8 83. 6 76. 6 77. 9 82. 2	97. 4 96. 7 95. 0 94. 0 94. 5 95. 6 95. 0 92. 9 95. 2	105. 1 104. 0 103. 7 102. 6 102. 4 101. 5 100. 5 99. 7 98. 6	76.8 75.0 75.0 74.2 73.4 71.7 68.2 66.5 64.5	83. 2 83. 9 83. 2 84. 0 84. 0 80. 2 74. 8 72. 1 70. 3	85. 7 89. 7 91. 0 93. 9 95. 3 88. 8 81. 0 76. 3 73. 2	91. 4 92. 4 91. 5 89. 8 86. 8 84. 5 86. 6 87. 4 86. 1	74. 7 75. 3 78. 4 81. 2 81. 7 80. 4 75. 8 74. 8 74. 5	85.9 84.6 84.3 82.9 81.2 80.2 77.7 75.1 72.5	110. 6 110. 2 112. 5 111. 7 104. 6 101. 8 101. 0 101. 5 102. 7	$\begin{array}{c} 120.8\\ 120.9\\ 118.5\\ 116.1\\ 114.1\\ 114.0\\ 113.6\\ 112.2\\ 108.5 \end{array}$	89.7 87.9 87.2 88.6 88.3 88.0 82.7 81.0 77.4	84. 2 88. 9 89. 6 88. 0 89. 4 89. 2 88. 2 84. 0 87. 7

FACTORY PAY ROLLS: INDEXES BY GROUPS

	Iron	Ma-		Food	Paper	Lum- ber		ortation oment	Leather	Ce- ment.	Nonfer-		nicals	Rubber	To-
Month	and steel	chinery	Textiles	prod- ucts	and print- ing	and prod- ucts	Group	Auto- mobiles	and prod- ucts	clay, and glass	rous metals	Group	Petro- leum refining	prod- ucts	bacco prod- ucts
1929—June August September October November December 1930—January February March April June July August September	109.9 103.5 109.3 108.9 107.9 100.0 93.5 90.5 98.1 97.1 97.1 97.5 90.8 78.6 77.5 75.4	131. 6 128. 2 127. 5 127. 9 129. 0 121. 6 119. 9 113. 8 115. 2 115. 1 113. 4 108. 3 102. 7 90. 9 * 85. 6 84. 2	97. 8 90. 4 97. 4 103. 0 104. 8 96. 2 93. 8 92. 2 94. 1 96. 6 89. 3 77. 8 69. 2 73. 2 81. 2	105. 6 105. 6 105. 0 108. 1 108. 8 105. 5 105. 5 101. 6 99. 7 99. 7 99. 7 100. 7 102. 3 100. 2 97. 6 100. 8	113.6 111.4 112.8 116.3 117.8 117.2 118.2 114.9 114.9 114.9 114.9 115.0 113.5 113.3 111.9 107.3 106.9 106.3	92. 2 93. 5 94. 7 96. 6 96. 8 89. 2 82. 7 72. 8 72. 6 74. 6 73. 2 70. 9 63. 0 61. 6 60. 9	$\begin{array}{c} 107.9\\ 97.1\\ 106.8\\ 103.3\\ 99.8\\ 89.4\\ 85.6\\ 80.9\\ 89.8\\ 90.6\\ 92.0\\ 91.1\\ 83.8\\ 71.7\\ 66.3\\ 66.0\\ \end{array}$	$\begin{array}{c} 130.9\\ 110.2\\ 128.0\\ 120.3\\ 108.0\\ 84.3\\ 72.9\\ 74.0\\ 92.7\\ 97.3\\ 100.8\\ 101.7\\ 89.2\\ 72.4\\ 58.1\\ 62.4\\ \end{array}$	89.8 97.8 97.8 105.0 104.3 100.0 83.9 84.1 85.2 85.2 81.6 75.6 73.8 78.6 80.0 76.2	92. 5 86. 1 91. 2 91. 3 90. 6 86. 4 80. 2 67. 3 70. 2 73. 4 77. 1 66. 4 66. 4 66. 4	$\begin{array}{c} 117.\ 0\\ 112.\ 6\\ 113.\ 2\\ 112.\ 1\\ 112.\ 5\\ 99.\ 6\\ 96.\ 1\\ 91.\ 5\\ 91.\ 7\\ 91.\ 0\\ 88.\ 4\\ 85.\ 0\\ 76.\ 0\\ 70.\ 7\\ 0\\ 70.\ 7\\ \end{array}$	111. 2 111. 2 113. 0 116. 0 118. 2 115. 6 114. 0 109. 3 110. 0 111. 6 110. 9 106. 6 105. 3 100. 8 100. 7 101. 3	120.0 123.3 125.1 129.3 124.8 124.8 124.8 121.1 125.0 123.1 122.5 121.7 118.1 117.2 113.8	120. 6 115. 1 110. 9 104. 9 100. 9 85. 9 85. 0 88. 9 92. 1 90. 0 94. 5 95. 4 88. 3 80. 8 77. 6 71. 8	88.5 87.9 90.6 93.4 94.2 94.3 88.8 80.0 80.0 81.0 77.1 82.1 82.4 81.9 77.2 80.0

* Revised.

Note.—These tables contain index numbers of factory employment and factory pay rolls for certain months, together with group indexes for important industrial components. The nature and sources of basic data and the method of construction were described and the indexes for the period January, 1919, to November, 1929, were published in the BULLETIN for November, 1929, pp. 706-716.

DEPARTMENT STORES-INDEX OF SALES

Without seasonal adjustment: 60 82 83 73 79 86 84 90 91 90 February	1930
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1000
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	88
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	89
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	93
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	110
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	105
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	98
September 76 88 75 85 94 96 97 104 103 113 117 October 89 102 95 102 111 105 122 120 117 118 122 . November 101 112 97 108 117 117 122 124 126 125 125 . December 137 146 135 152 164 166 176 184 182 192 191 . Year 78 94 87 88 98 99 103 106 107 108 111 With seasonal adjustment:	71
October 89 102 95 102 111 105 122 120 117 118 122 1 November 101 112 97 108 117 117 122 124 126 125 125 125 125 125 125 125 125 125 125 125 125 125 125 126 125 125 125 191 1 125 124 126 125 125 125 124 126 125 125 125 191 1 146 135 152 164 166 176 184 182 192 191 146 125 126 125 126 126 127 128 192 191 146 135 152 164 166 176 184 182 192 191 146 146 146 146 146 146 146 146 146 146	77
November 101 112 97 108 117 117 122 124 126 125 125 December 137 146 135 152 164 166 176 184 182 192 191 191 Year 78 94 87 88 98 99 103 106 107 108 111	103
December 137 146 135 152 164 166 176 184 182 192 191 Year 78 94 87 88 98 99 103 106 107 108 111 With seasonal adjustment: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Year 78 94 87 88 98 99 103 106 107 108 111 With seasonal adjustment:	
With seasonal adjustment:	
With seasonal adjustment:	
January 66 90 92 83 91 99 99 106 107 108 110	107
February71 89 92 83 93 101 103 105 108 106 111	108
March	110
April	105
May 69 96 87 87 98 97 102 109 105 107 109	105
June 76 96 87 86 101 100 102 105 106 107 113	103
July 80 98 87 86 98 96 101 106 105 110 109	100
August 80 97 84 88 101 96 101 108 111 107 111	102
September	99
October	
November	
December	

¹ The figures of daily average sales were computed on the basis of the number of week days and the number of Saturdays in each month—Saturday being considered equivalent to one and one-third days—and allowance has been made for the number of Sundays in each month and for six national holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas.

SEASONAL ADJUSTMENT FACTORS USED IN INDEX OF DEPARTMENT-STORE SALES

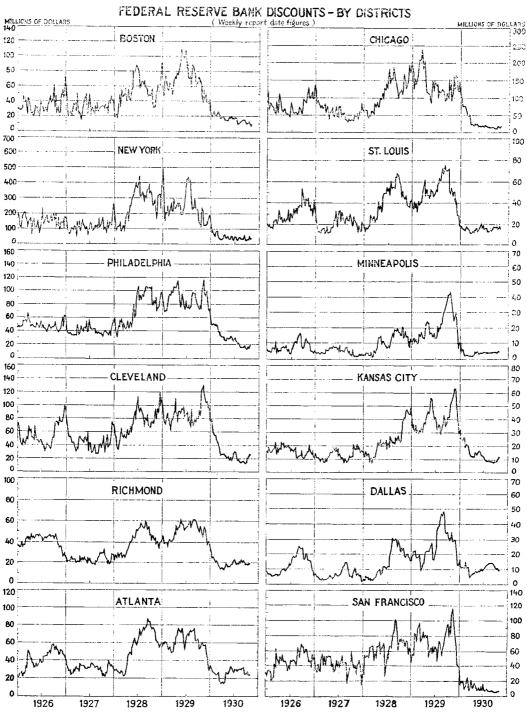
			[Average	e for year	=100]							
Month	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
January February March 1 April 1 May June June Juny August September October November December	$91\\83\\89\\106\\105\\99\\74\\75\\92\\110\\117\\159$	91 83 97 98 105 99 74 75 92 110 117 159	90 83 98 97 104 99 74 75 92 110 117 161	88 83 91 104 103 99 74 75 93 110 117 163	87 83 98 97 102 98 74 75 94 110 117 165	87 83 89 105 101 97 74 75 95 110 117 167	85 83 91 103 101 96 74 75 96 110 117 169	85 83 96 97 100 95 73 76 98 110 117 170	85 83 90 103 100 95 73 76 99 109 109 116 171	84 83 91 99 100 95 73 76 101 109 116 173	82 82 96 94 100 95 72 76 103 109 115 176	82 82 85 105 100 95 71 76 104 109 115 176

¹ Adjustment has been made for the effects of changes in the date of Easter.

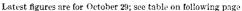
DEPARTMENT STORES—INDEX OF STOCKS

[Stocks at end of month; 1923-1925 average=100]

End of month	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Without seasonal adjustment:												
January	65	86	78	80	83	89	90	93	93	92	89	88
February	68	96	82	84	90	96	96	- 98	98	98	95	93
March	72	107	88	91	98	105	105	107	107	105	102	100
April	73	110	90	91	101	107	106	107	107	106	103	101
May	72	107	89	88	99	103	103	104	104	102	101	98
June	70	104	86	85	93	97	98	98	98	96	95	93 87
July	73	103	84	82	91	93	94	93	95	93	92	87
August	82	108	89	86	96	96	98	97	98	97	96	87
September	92	117	97	93	105	105	107	107	108	103	104	91
October	98	119	100	96	110	111	112	114	114	112	112	
November	100	114	101	100	113	112	115	117	117	115	115	
December	87	90	83	85	94	94	97	96	96	94	94	
Year	79	105	89	89	98	101	102	103	103	101	100	
With seasonal adjustment:									[
January	73	97	88	90	93	100	102	105	104	103	100	i 99
February.	71	101	86	89	94	101	101	104	103	103	100	98 97
March	70	104	85	89	95	102	102	104	103	101	99	97
April.	70	106 (87	87	97	103	102	103	103	101	99	97
May	71	105	87	86	97	101	101	102	102	100	99	1 96
June	72	107	88	88	96	100	101	101	101	99	98	96
July	78	110	90	88	97	100	101	100	102	100	99	94
August	85	113	93	90	100	100	102	101	102	101	100	91
September	88	113	93	90	101	101	103	102	104	99	100	91
October	89	108	91	88	100	101	101	104	104	102	101	
November	88	101	89	89	100	99	102	103	104	102	102	
December	93	96	89	90	99	100	103	102	103	100	100	



BANKING AND BUSINESS CONDITIONS IN FEDERAL RESERVE DISTRICTS



FEDERAL RESERVE BANKS-RESERVES, DEPOSITS, NOTE CIRCULATION, AND RESERVE PERCENTAGES

[Averages o	f daily figures,	amounts in	thousands of	dollars]
-------------	------------------	------------	--------------	----------

	Tot	al cash reso	erves	ves Total deposits			Total deposits Federal reserve notes in circulation 1							Reser	ve percei	ntages
Federal reserve banks	19	030	1929	1929 19		1929	1930		1929	1930		1929				
	October	Septem- ber	October	October	Septem- ber	October	October	Septem- ber	October	Octo- ber	Sep- tember	Octo- ber				
Boston	224, 670 314, 241 97, 825 143, 440 418, 852 99, 876	$\begin{array}{c} 225,566\\ 1,023,300\\ 231,514\\ 334,141\\ 92,518\\ 131,391\\ 436,337\\ 100,395\\ 711,750\\ 112,629\\ 53,441\\ 293,729 \end{array}$	284, 096 1, 088, 030 196, 120 235, 101 89, 847 141, 543 511, 615 111, 738 68, 447 112, 727 71, 806 246, 815	$\begin{array}{c} 152, 110\\ 1, 025, 170\\ 143, 966\\ 201, 073\\ 67, 715\\ 62, 300\\ 346, 907\\ 76, 882\\ 53, 358\\ 90, 095\\ 61, 163\\ 183, 667 \end{array}$	$\begin{matrix} 149, 618\\ 1,007, 221\\ 143, 948\\ 205, 210\\ 67, 049\\ 62, 180\\ 352, 577\\ 77, 512\\ 52, 486\\ 90, 321\\ 60, 744\\ 182, 996 \end{matrix}$	$\begin{array}{c} 153,337\\ 982,447\\ 137,010\\ 188,188\\ 69,367\\ 65,596\\ 361,646\\ 80,539\\ 55,004\\ 92,329\\ 67,443\\ 185,081 \end{array}$	$\begin{array}{c} 133, 214\\ 230, 458\\ 119, 814\\ 184, 906\\ 67, 318\\ 122, 262\\ 152, 245\\ 62, 855\\ 50, 633\\ 66, 898\\ 34, 604\\ 155, 574 \end{array}$	$\begin{array}{c} 133, 538\\ 196, 209\\ 124, 912\\ 190, 290\\ 64, 484\\ 114, 523\\ 163, 358\\ 64, 937\\ 51, 339\\ 68, 478\\ 35, 085\\ 158, 921 \end{array}$	$\begin{array}{c} 204,451\\ 341,006\\ 140,639\\ 178,388\\ 84,811\\ 154,908\\ 306,142\\ 82,321\\ 67,685\\ 82,700\\ 52,521\\ 177,022\end{array}$	81. 0 85. 6 85. 2 81. 4 72. 4 77. 7 83. 9 71. 5 70. 1 71. 2 71. 2 85. 0	79. 7 85. 0 86. 1 84. 5 70. 3 74. 4 84. 6 70. 5 69. 1 70. 9 55. 8 85. 9	$\begin{array}{c} 79.4\\ 82.2\\ 70.6\\ 64.1\\ 58.3\\ 64.2\\ 76.6\\ 68.6\\ 55.8\\ 64.4\\ 59.9\\ 68.2\\ 68.2\end{array}$				
	· · · · · · · · · · · · · · · · · · ·		·				·		1, 872, 594		81.4	73.3				

¹ Includes "Federal reserve notes of other Federal reserve banks" as follows: Latest month, \$18,092,000; month ago, \$20,774,000; year ago, \$26,067,000.

ALL MEMBER BANKS-DEPOSITS SUBJECT TO RESERVE, RESERVES HELD, AND INDEBTEDNESS AT FEDERAL RESERVE BANKS

[Averages of daily figures. In millions of dollars]

	Net demar	nd deposits	Time d	eposits		Reserv	res held		_ Indebtedness at F		
Federal reserve district					Total		Exe	Excess		ve banks	
	September	August	September August		September	August	September	August	September	August	
Boston	$ \begin{array}{c} 1, 176 \\ 1, 612 \\ 530 \\ 511 \\ 2, 543 \\ 649 \\ 423 \\ \end{array} $	$1, 335 \\ 7, 262 \\ 1, 177 \\ 1, 617 \\ 528 \\ 504 \\ 2, 574 \\ 653 \\ 413 \\ 823 \\ 579 \\ 1, 281$	1,025 3,446 1,167 1,720 566 441 2,221 537 449 394 238 1,733	1,014 3,434 1,161 1,701 562 439 2,200 538 448 376 241 1,722	$\begin{array}{c} 146.8\\ 989.6\\ 141.2\\ 200.8\\ 63.4\\ 59.9\\ 348.5\\ 75.7\\ 51.3\\ 88.2\\ 58.5\\ 173.4 \end{array}$	$\begin{array}{c} 146.\ 4\\ 983.\ 3\\ 140.\ 9\\ 200.\ 7\\ 63.\ 4\\ 59.\ 2\\ 350.\ 8\\ 76.\ 2\\ 49.\ 1\\ 88.\ 4\\ 57.\ 6\\ 175.\ 7\end{array}$	2. 2 21. 1 3. 2 3. 8 1. 4 2. 3 9. 8 2. 1 2. 8 4. 6 2. 1 3. 9	$\begin{array}{c} 2.1\\ 12.4\\ 2.9\\ 4.0\\ 1.7\\ 2.2\\ 9.6\\ 2.1\\ 2.0\\ 4.9\\ 2.1\\ 6.4.\end{array}$	11. 632. 116. 514. 620. 028. 214. 417. 74. 18. 713. 27. 5	$\begin{array}{c} 12.6\\ 47.6\\ 18.2\\ 15.7\\ 21.3\\ 30.0\\ 16.5\\ 14.9\\ 4.4\\ 9.2\\ 13.9\\ 9.4\end{array}$	
Total	18, 707	18, 746	13, 936	13, 835	2, 397. 1	2, 392. 2	59.2	52.3	188.5	213. 8	

DISCOUNTS OF FEDERAL RESERVE BANKS, BY WEEKS

Federal reserve bank	Oct. 1	Oet. 8	Oct. 15	Oct. 22	Oct. 29
Boston	12, 512	9, 519	9,067	6, 117	9, 14
New York	26, 392	25,649	57,749	31, 838	38, 54
Philadelphia	16,914	15, 281	17,414	18,838	19,78
Cleveland	20, 412	21,086	24,071	27,049	25, 88
Richmond	18, 374	17,747	18,002	18,997	18,83
Atlanta	26, 497	24, 203	24, 208	24, 433	23, 61
Chicago	16,631	15,096	13, 580	13,945	17, 29
St. Louis	19,064	15.834	16,013	18, 161	16, 37
Minneapolis	4,012	3,941	4, 299	4,813	4,14
Kansas City	8,803	9,214	10, 130	10, 835	12,05
Dallas	10,633	10, 316	10, 579	9,984	9,44
San Francisco	5,672	5, 280	5, 327	6, 974	6, 47
Total	185,916	173, 166	210, 439	191, 984	201, 60

[In thousands of dollars]

DISCOUNTS OF FEDERAL RESERVE BANKS BY MONTHS

[Averages of daily figures. In millions of dollars]

	19	30	1929
Federal reserve bank	October	Septem- ber	October
Boston	$17.5 \\ 25.0 \\ 18.9 \\ 24.7 \\ 15.8 \\ 17.3 \\ 4.3 \\ 10.3 \\ 10.2 \\ 6.7 \\ 10.7 \\ 10.2 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10.7 \\ 10$	11.632.216.414.620.028.214.417.74.18.813.27.6	78.795.253.157.6120.254.741.244.631.686.9
Total	196.4	188.7	S84. 5

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[Rates on all classes and maturities of eligible paper. For back figures see Annual Report for 1929 (Table 32).] Federal reserve bank Date effective San Philadel-Kansas City New York Cleve-Rich-Minneap-Boston St. Louis Dallas Fran-cisco Atlanta Chicago phia land mond olis 5 In effect Jan. 1, 1930... 416 5 5 $\frac{11}{2}$ 4^{1}_{22} 116 5 5 5 41/2 41/2 Jan. 16..... 41/2 ----...... 4 $4^{1/2}_{2}$ Feb. 7. Feb. 8. Feb. 11 41/2 4 4^{1}_{22} $4^{1}2$ - - -. - - - ------. 41/2 4 Feb. 13. Feb. 15.... 4 ---- $3\frac{1}{2}$ Mar. 14. Mar. 15. Mar. 20. 4 4 -----------Mar. 21.... 4 Apr. 8..... 4 ------- - -Apr. 11 Apr. 12 4 4 4 Apr. 15..... May 2..... 4 -----3 $3\frac{1}{2}$ May 8..... -----31/2 June $2\frac{1}{2}$ June 20..... June 21..... -----312 3 ----July 3 July 12 $3\frac{1}{2}$ 3^{1}_{2} -----31/2 July 18 Aug. 7 Aug. 8 $3\frac{1}{2}$ - [----- 3^{1}_{2} Aug. 15..... Sept. 9..... Sept. 12..... $3\frac{1}{2}$ 312 ____ ------------------ 3^{1}_{22} In effect Oct. 31, 1933. 3 $2\frac{1}{2}$ $3\frac{1}{2}$ $3\frac{1}{2}$ $3\frac{1}{2}$ 31/2 $3\frac{1}{2}$ $3\frac{1}{2}$ $3\frac{1}{2}$ 312 : 3^{1}_{2} $3\frac{1}{2}$

FEDERAL RESERVE BANK DISCOUNT RATES

RATES CHARGED CUSTOMERS BY BANKS IN PRINCIPAL CITIES

Federal reserve	Prime	commercia	l paper		ecured by xchange co	y prime llateral	Loans see	cured by w receipts	arehouse	Int	erbank loa	ns
bank or branch city	August	Septem- ber	October	August	Septem- ber	October	August	Septem- ber	October	August	Septem- ber	October
Boston	33/4-41/4	33/4-4	4 -41/4	43/4-5	434-5	41/2-5	5 -6	51/2	5 -51/2	4	4	4 -41/2
New York	4 -41/4	4	334-4	41/2-5	4 -5	4 -5	4^{1}_{2}		4 -5	4 -41/2		4 -41/2
Buffalo	5 -6	$5\frac{1}{2}-6$	5 -6	51/2-6	$5\frac{1}{2}-6$	$5\frac{1}{2}-6$	$6 - 6\frac{1}{2}$		6	5 -6	5	5
Philadelphia		$3\frac{1}{2}-4\frac{1}{2}$	$4 - 4\frac{1}{2}$	4 ¹ /2-6	$4\frac{1}{2}-6$	$4\frac{1}{2}-6$	5-6	5-6	5 -6	4 ~5	4 -5	4 -41/2
Cleveland	$4 -5\frac{1}{2}$ 5 -6	4 -6 5 -6	4 -5 5 -6	$5\frac{1}{2}-6$ 5 -6	5 -6 5 -6	5 -6 5 -6	$5\frac{5}{2}-6$ 6 -7	5 - 6 6	4 -6 $5\frac{1}{2}-6\frac{1}{2}$	5 -6 5 -51/2	5 -6	$\frac{41}{2}-6$
Pittsburgh	$5 - 5^{1/3}$		5-6	51/2-6	5-6	$5^{1}/2^{-6}$	6	6	6	$5^{1}/2-6^{2}$	5 -6	5 -6
Richmond	4 -5	412-5	41/2-5	$5 -5\frac{1}{2}$		$5\frac{1}{2}-6$				41/2+5	41_{2} -5	41/2-5
Baltimore Charlotte	$ \begin{array}{r} 4^{1}2 - 5^{1}2 \\ 5 - 6 \end{array} $	$4^{1}2-6$ $5^{1}4-6$	$4^{1}2-6$ 5 -6	$4\frac{1}{2}-5\frac{1}{2}$ 6	4 ¹ ⁄ ₂ -6 6	$41\overline{2}-6$ $58\overline{4}-6$	6 6	$5\frac{5}{2}-6$ 6	$\begin{pmatrix} 6 \\ 6 \end{pmatrix}$	5 -6 6	5 - 6 $5^1 2 - 6$	5 ⁷ -6 6
Atlanta	$5 -5^{1}/2$		4 -6	5 -6	5 -6	$5 -5\frac{1}{2}$			4 ¹ /2-5	$5 - 5\frac{1}{2}$	$5 - 5^{1}2$	$5 - 5\frac{1}{2}$
Birmingham Jacksonville	51/2-7 41/2-5	$5\frac{1}{2}-7$ $4\frac{1}{2}-5$	$5\frac{1}{2}-7$ $4\frac{1}{2}-5$	$5\frac{1}{2}$ -7 $6\frac{1}{2}$ -7	$5\frac{1}{2}-7$ $6\frac{1}{2}-7$	$5\frac{1}{2}-7$ 6 -7	$\begin{array}{c} 6 & -8 \\ 5^{1} & -7 \end{array}$	6 -8 51/ -7	$\begin{array}{c} 6 & -8 \\ 5^{1} - 7 \end{array}$	6 6	5-6.	5 - 6
Nashville	6	6	6	6	6	6	$5^{1}2-6$	$5\frac{1}{2}-6$	$5^{12}_{2}-6$	512-6	$5^{1}2-6$	51/2-6
New Orleans		$5 -5^{3}_{4}$	$5 - 5\frac{1}{2}$	$6 -6\frac{1}{2}$				$5\frac{1}{2}-6$	$5^{1}_{2}-6$	5 -6	5-6	5 -6
Chicago Detroit		4-5 r 41⁄2-6	4-41/2 41/2-6	$4\frac{1}{2}-5\frac{1}{2}$ 5-6	5-6	$4\frac{1}{2}-5$ 5-6	$4\frac{3}{4}-5$ 6	4 ³ 4-5 6	$4^{3}_{4}^{-5}_{-6}$	43/4-51/2 53/4-6	534-6	$4\frac{1}{2}-5\frac{1}{2}$ 5-6
St. Louis			4-41/2	5-6	$5-5\frac{1}{2}$		5-6	5-6	5-6	43/4-51/2		$5-5\frac{1}{2}$
Little Rock	6 6	6 6	$6 \\ 6$	6-7 6	6-7	6-7 $5\frac{1}{2}-6$	6-7	6-8	6-7 6		$\frac{6}{51_2}$	6 5-512
Minneapolis	4-5	4-41/2	4-41/2	5-6	5-6	5-6	4-41/2	ů.	-	51/2-6	$5^{1}2^{-6}$	51/2-6
Helena	8	8 1	8	8	8	8	6-8	6-8	6-8	6-8	6-8	6-8
Kansas City	41/2-5	41/2-5	$4\frac{1}{2}-5$	$5\frac{1}{2}-6$	$5\frac{1}{2}-6$	$5\frac{1}{2}-6$	5-6	5-6	5-6	$5\frac{1}{2}-6$	$5_{2}^{1}-6$	$5\frac{1}{2}-6$
Denver Oklahoma City	5-6 51/2-6	5-6 51⁄2-6	5-6 5-51/2	$5\frac{1}{2}-6$ 8	6	$\frac{5\frac{1}{2}-6}{8}$	6-8 6-8	6-8 6-8	6-8 6-8	6 6	6 6	6 6
Omaha	5	$4^{1}/_{2}-5$	$4^{1/2}_{2-5}$	6-7	6-61/2			6	6	6	6	$5\frac{1}{2}-6$
Dallas	41/2-51/2	$5-5\frac{1}{2}$	4-6	6-7	6-7	6-7	5-6	5-51/2	51/2-6	$5-5\frac{1}{2}$	5-312	5-51/2
El Paso	6-8	6-8	6-8	6-8	6-8	6-8	8	8	8	5-6	6	5-6
Houston San Antonio	6 6	$5\frac{1}{2}-6$	5½-6 6-6½	6 6-8	6-7	6 - 7	6 6-8	5-6 6-8	5-6 6-8	5-6 6	5-6 6	5-6 6
San Francisco	56	5-51/2	5-51/2	5-5 ¹ /2		5-6	5 ¹ /2-6	51%-6	$5^{1}2^{-6}$	5	5	5
Los Angeles	6	$6^{-0.72}$	6	$5\frac{1}{2}-6\frac{1}{2}$	6-61/2	6-61/2	6-7	6-7	6-7	6	. 0. 6	51/2-6
Portland	$5\frac{1}{2}-6$	6	6	51/2-61/2				6-7	6-7	6	0	6
Salt Lake City Seattle	6 6	6 6	6 6	6 6-6½	6-7 6-61/3	6 6-6½	1 7	1 7	. 6-7	6 6	6	$5\frac{1}{2}-6$
Spokane	6	6	6	$6^{1}/2^{-7}$	6-61/2		7	1 7		6	6-612	

7 Revised.

NOTE.—Rates shown are those at which the bulk of the loans of each class were made by representative banks during week ending 15th of month. Rates from about 200 banks with loans exceeding \$8,000,000,000; reporting banks are usually the larger banks in their respective cities.

WEEKLY REPORTING MEMBER BANKS IN LEADING CITIES

Principal Resources and Liabilities, by weeks

[In millions of dollars]

						Fe	ederal R	eserve	District					Cit	y
	Total	Bos- ton	New York	Phila- del- phia	Cleve- land	Rich- mond	At- lanta	Chi- cago	St. Louis	Min- neap- olis	Kan- sas City	Dal- las	San Fran- cisco	Vork	Chi- cago
Loans and investments: Oct. 1. Oct. 8. Oct. 22. Oct. 22. Oct. 20. Loans:	23, 297 23, 404 23, 383 23, 495	1, 546 1, 521 1, 513 1, 516 1, 516	9, 557 9, 473 9, 552 9, 518 9, 656	1, 301 1, 298 1, 289 1, 293 1, 297	2, 304 2, 280 2, 282 2, 284 2, 263	$\begin{array}{c} 659 \\ 654 \\ 660 \\ 660 \\ 657 \end{array}$	603 600 601 599 595	3, 382 3, 353 3, 387 3, 380 3, 377	657 654 652 657 656	371 371 372 374 374	658 659 660 659 658	$456 \\ 455 \\ 458 \\ 459 \\ 460$	1, 972 1, 979 1, 978 1, 984 1, 987	8, 325 8, 236 8, 318 8, 273 8, 414	2, 025 1, 995 2, 032 2, 026 2, 028
Oct. 1	$\begin{array}{c} 17,013\\ 16,813\\ 16,864\\ 16,716\\ 16,716\\ 16,764 \end{array}$	1, 171 1, 145 1, 133 1, 133 1, 133 1, 133	7, 090 6, 970 7, 018 6, 893 6, 959	908 895 882 882 888	1, 498 1, 487 1, 492 1, 495 1, 486	$\begin{array}{r} 468 \\ 468 \\ 468 \\ 467 \\ 467 \\ 467 \end{array}$	$453 \\ 450 \\ 451 \\ 450 \\ 446$	2, 588 2, 565 2, 591 2, 570 2, 564	498 494 492 492 492 490	242 242 242 242 244 244	419 417 414 410 408	$340 \\ 338 \\ 340 \\ 341 \\ 342 \\ 342$	1, 339 1, 341 1, 342 1, 339 1, 336	$\begin{array}{c} 6,244\\ 6,127\\ 6,175\\ 6,046\\ 6,116\end{array}$	$1,556 \\ 1,532 \\ 1,560 \\ 1,540 \\ 1,537$
Oct. 1 Oct. 1 Oct. 8 Oct. 15 Oct. 15 Oct. 15 Oct. 22 Oct. 29 Oct. 29 Oct. 29	8, 483 8, 268 8, 258 8, 142 8, 057	509 494 486 474 476	4, 197 4, 060 4, 037 3, 954 3, 901	460 456 451 447 447	736 725 723 727 718	175 175 174 174 174 173	$145 \\ 143 \\ 146 \\ 143 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 \\ 142 $	$\begin{array}{c} 1,276\\ 1,250\\ 1,281\\ 1,273\\ 1,273\\ 1,271 \end{array}$	223 219 218 219 209	79 79 78 78 79	$ \begin{array}{c} 124\\ 122\\ 117\\ 111\\ 104 \end{array} $	95 95 95 93 93	463 451 452 418 444	3, 796 3, 660 3, 640 3, 550 3, 500	930 901 932 923 922
All other Oct. 1. Oct. 8. Oct. 15. Oct. 22. Oct. 29. Investments:	8, 545	662 651 647 659 657	2, 893 2, 911 2, 931 2, 939 3, 058	4 18 439 430 434 441	762 762 770 769 768	293 293 294 293 293	308 307 305 397 305	$\begin{array}{c}1,312\\1,316\\1,310\\1,297\\1,294\end{array}$	$\begin{array}{c} 275 \\ 275 \\ 273 \\ 273 \\ 273 \\ 281 \end{array}$	163 163 164 166 165	295 295 297 209 304	245 244 245 247 249	876 890 890 891 893	2, 448 2, 466 2, 535 2, 496 2, 616	$\begin{array}{c} 626 \\ 631 \\ 628 \\ 616 \\ 615 \end{array}$
Oct. 1 Oct. 8 Oct. 15 Oct. 22 Oct. 29 U. S. Government sceuri-	6, 454 6, 485 6, 541 6, 667 6, 731	375 375 380 383 384	2, 468 2, 502 2, 534 2, 625 2, 697	393 403 408 411 408	806 794 790 788 777	191 187 191 193 190	$150 \\ 150 \\ 150 \\ 149 \\ 149 \\ 149$	794 787 797 810 812	160 160 161 165 165	$ \begin{array}{r} 130 \\ 130 \\ 130 \\ 129 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 130 \\ 100 \\ 100 \\ 1$		116 117 118 118 118	$\begin{array}{c} 633 \\ 638 \\ 636 \\ 644 \\ 651 \end{array}$	2, 081 2, 110 2, 143 2, 227 2, 299	469 464 472 486 491
Oct. 1 Oct. 8 Oct. 15 Oct. 22 Oct. 29	2 016	150 148 152 153 153	1, 165 1, 183 1, 206 1, 257 1, 253	117 127 128 130 127	394		75 74 74 71 71	339 340 341 356 360	33 34 35 37 38	$72 \\ 72 \\ 72 \\ 71 \\ 71 \\ 71$	$ \begin{array}{r} 101 \\ 104 \\ 105 \\ 106 \\ 106 \end{array} $	68 69 70 72 71	341 341 339 338 341	1,0381,0491,0801,1301,126	$ \begin{array}{c c} 174 \\ 178 \\ 179 \\ 194 \\ 260 \\ \end{array} $
All other Oct. 1 Oct. 8 Oct. 15 Oct. 22 Oct. 29 Reserve with Federal reserve	3, 515 3, 544 3, 607 3, 681		1, 303 1, 319 1, 328 1, 368 1, 444	$ \begin{array}{c} 277 \\ 279 \end{array} $	402	103 108 110	76 77	$455 \\ 447 \\ 456 \\ 454 \\ 453$	126 126 128	57 58 58 58 58 59	139 141 144	48 48 48 47 47	292 286 297 306 310	1, 043 1, 061 1, 063 1, 097 1, 172	295 286 293 291 292
bank: Oct. 1 Oct. 8 Oct. 15 Oct. 22 Oct. 29	1,787 1,802 1,827	99 100 102 101 98	863 859 860 886 942	. 83 1 85	141 147 144	40 41 40	40 38 39	$255 \\ 269 \\ 279 \\ 267 \\ 266 \\ 266$	41 45 42	27 27	56 59 57	33 33 37 33 34	108 111 110 106 105	802 754 794 826 874	
Cash in vaults: Oct. 1Oct. 8 Oct. 15 Oct. 22 Oct. 29 Net demand deposits:	$\begin{array}{c c} & 212 \\ & 209 \\ & 212 \\ & 212 \\ & 216 \end{array}$	14 15 16 15 14	56 59 57 59 60	12 13 13	27 27 28	12 11 12 12 1	999	32 32 33 32 35	6 6 6	· 5 5	10 10 10	1 7	17 18 18 17 18	44 46 45 46 48	14
Oct. 1. Oct. 8. Oct. 15. Oct. 22. Oct. 29. Time deposito:	$\begin{array}{c} 13,812\\ 13,557\\ 13,767\\ 13,710\\ 13,830 \end{array}$	917 882 909 894 886	6, 197 6, 251 6, 315	757 744 745		348 352 349	313 317 310	$\begin{array}{c} 1,873\\ 1,852\\ 1,920\\ 1,889\\ 1,880\end{array}$	355 361 355	231 232 232	493 510 490	279	738 757	5, 778 5, 662 5, 665 5, 750 5, 937	1,244 1,302
Oct. 1 Oct. 8 Oct. 15 Oct. 22 Oct. 29 Government deposits:	7,534 7,541 7,535 7,560 7,577	526 534 534 532 538	2, 052 2, 095	349	1,023 1,022 1,021	257 256 257	241	1, 341 1, 325	235 236 236	140 141 141	197 195 195	148 149 153 153 152	1,016	1,489 1,530	661 652 634
Oct. 1	147	16 13 13 11 10	40 1 35	10 10 9	18	14 13 11	16 16 13		1	1	22	14 14 12	87	31	5 5 4

WEEKLY REPORTING MEMBER BANKS IN LEADING CITIES—Continued

Principal Resources and Liabilities, by weeks-Continued

[In millions of dollars]

						F	ederal F	Reserve	District	:				Ci	ty
	Total	Bos- ton	New York	Phila- del- phia	Cleve- land	Rich- mond	At- lanta	Chi- cago	St. Louis	Min- neap- olis	Kan- sas City	Dal- las	San Fran- cisco	New York	Chi- cago
Due from banks:											: I				
Oct. 1	1.657	74	207	103	137	94	87	284	70	76	194	112	220	122	194
Oct. 8		79			137	100	87	268	87	78	204	îiī	219	108	175
Oct. 15	1,696	95	181		126	93	87	289	89	83	213	115	228	106	188
Oct. 22	1,509	87	156	82	118	84	79	244	78	71	188	104	218	90	158
Oct. 29	1,568	93	153	90	154	83	80	270	79	78	174	100	213	90	175
Due to banks:			1					1							1
Oct. 1	3,664	147	1, 313	250	370	119	108	508	124	87	224	120	294	1, 224	346
Oct. 8	3,604		1.228	249	368	125	112	515	131		229	121	298	1, 147	1 356
Oct. 15.	3, 639	', 151	1,246	245	365	123	109	529	129		231	125	300	1,160	369
Oct. 22.			1,175	215	338	113	106	473	120			117	291	1,099	333
Oct 29	= 3,427	126	1,211	210	342	114	104	485	123	84	211	114	303	1,138	343
Borrowings from Federal re-	í	·.	!		1								·	1	1
serve banks:	l			ι.					_						
Oct. 1.		2	3	1	: X	4	10	1 7	7	1		1	1		1
Oct. 8	39	2	36		8 11	4 5	8	4	, S			2		2	
Oct. 15 Oct. 22		4 4	11	1 2		0 6	9	$\begin{vmatrix} 3\\ 2 \end{vmatrix}$	2		i.	3	·	29	
Oct. 29			16		· 10	6	1 5		1 É	1	2	2	: 2		1
1/CD- 4/7	. 02	÷ -	j 10	1 0	11	0	•	4	5		2	: ð	: 1		1

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	193	30	1929
Federal reserve district	Septem- ber	August	Septem- ber
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago	$\begin{array}{c} 20,027\\ 34,268\\ 16,163\\ 13,491\\ 60,119\\ 18,167\\ 12,496\\ 10,412 \end{array}$	26, 886 94, 418 19, 859 33, 784 23, 677 15, 062 58, 599 23, 320 8, 822 31, 455 11, 438	$\begin{array}{r} 32, 411\\ 83, 109\\ 35, 047\\ 64, 140\\ 22, 712\\ 17, 768\\ 102, 562\\ 39, 465\\ 10, 346\\ 20, 883\\ 16, 960\end{array}$
Total (11 districts)	331, 864	347, 318	445, 402

Figures for building contracts awarded are for 37 States east of the Rocky Mountains, as reported by the F. W. Dodge Corporation.

COMMERCIAL FAILURES 1

[Amounts in thousands of dollars]

]	Number		I	Liabilities				
Federal reserve district	19	30	1929	19	30	1929			
	Sept.	Aug.	Sept.	Sept.	Aug.	Sept.			
Boston	188	198	137	4,956	3,472	2,628			
New York	329	405	270	8,615	18, 191	7,612			
Philadelphia	96	103	60	1,939	2,343	1,234			
Cleveland	148	145	150	2,738	3, 176	3, 471			
Richmond	114	119	· 70	1,832	1,187	1, 111			
Atlanta	107	84	66	2, 164	2,224	1, 520			
Chicago	335	297	272	7,606	8,050	6, 159			
St. Louis	153	112	- 98	4, 428	1,909	1,762			
Minneapolis	59	47	41	921	883	271			
Kansas City	139	99	113	2,004	2,944	4,657			
Dallas	60	48	38	1, 321	890	316			
San Francisco	235	256	253	8, 424	3, 910	3, 383			
Total	1, 963	1, 913	1, 568	46, 947	49, 181	34, 125			

¹ Figures reported by R. G. Dun Co.

BANK SUSPENSIONS

[1930; figures for the latest month are preliminary]

[Banks closed to the public either permanently or temporarily on account of financial difficulties by order of supervisory authorities or directors of the banks. Deposit figures are given in thousands of dollars, for the latest available date prior to suspension, and are subject to revision]

			All b	anks				Member	banks ¹		N	Nonmember banks ²			
Federal reserve district Number			Deposits			Number		Deposits		Number		Deposits			
	Oct.	Sept.	Jan.~ Oct.	Oct.	Sept.	Jan Oct.	Oct.	Sept.	Oct.	Sept.	Oct.	Sept.	Oct.	Sept.	
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	-1 1 2 1 15 8	$ \begin{array}{c} 1 \\ 1 \\ 2 \\ 23 \\ 8 \\ 6 \\ 15 \\ 5 \\ 2 \end{array} $	$ \begin{array}{r} 6 \\ 5 \\ 4 \\ 33 \\ 58 \\ 85 \\ 196 \\ 106 \\ 96 \\ 108 \\ 29 \\ 14 \\ \end{array} $	5, 051 771 553 450 551 8, 329 3, 525 2, 698 2, 877 533 1, 267	184 1, 735 2, 571 401 12, 601 1, 740 533 3, 203 854 271	22, 086 2, 157 2, 881 39, 493 23, 767 51, 766 78, 824 26, 959 14, 806 26, 633 13, 276 9, 771	1 1 2 1 3 1 1		450 551 815 409 556 198 947		1 1 1 1 1 1 1 7 17 17 11 3 1	1 3 2 20 8 5 13 3 1	5, 051 771 553 7, 514 3, 116 2, 698 2, 321 335 320	18 1, 73 2, 57 40 11, 99 1, 74 41 2, 68 23 18	
Total	66	66	740	26, 605	24, 093	312, 419	10	9	3, 926	1, 940	56	57	22, 679	22, 15	

¹ October figures represent national banks only; September figures include 7 national banks with deposits of \$1,769,000 and 2 State bank mem-bers with deposits of \$171,000; January to October figures include 86 national banks with deposits of \$66,365,000 and 12 State bank members with deposits of \$7,415,000. ² Includes private banks for which deposit figures are not available, as follows: October, 2 banks, January to October, 5 banks.

BUILDING CONTRACTS AWARDED

[Value of contracts in thousands of dollars]

BUILDING PERMITS ISSUED

[Value of permits in thousands of dollars]

	Num-	19	30	1929
Federal reserve district	ber of cities	Septem- ber	August	Septem- ber
Boston	12 15 15 19 5 9 14 9	$\begin{array}{r} 3,731\\ 46,330\\ 8,221\\ 10,412\\ 5,293\\ 2,687\\ 24,206\\ 3,342\\ 3,128\\ 4,785\\ 5,945\end{array}$	9, 511 35, 876 5, 297 14, 473 6, 740 2, 994 17, 705 2, 720 2, 391 4, 486 6, 446	$\begin{array}{c} 4,203\\ 53,694\\ 6,261\\ 14,209\\ 8,804\\ 5,456\\ 32,687\\ 5,329\\ 3,686\\ 9,701\\ 5,693\end{array}$
San Francisco	20 168	18, 265 136, 344	15, 575 124, 213	19, 755 169, 47

BANK DEBITS

[Debits to individual accounts. In millions of dollars]

	Number of centers		August, 1930	Septem- ber, 1929
New York City Outside New York City	1 140	27, 383 21, 277	25, 052 20, 966	50, 34 27, 31
Federal reserve district: Boston Philadelphia. Cleveland. Richmond Atlanta. Chicago St. Louis Minneapolis. Kansas City Dallas. San Francisco Total.	$7 \\ 10 \\ 13 \\ 7 \\ 15 \\ 21 \\ 5 \\ 9 \\ 15 \\ 10 \\ 18 \\ 18 \\ 10 \\ 18 \\ 10 \\ 18 \\ 10 \\ 18 \\ 10 \\ 18 \\ 10 \\ 18 \\ 10 \\ 10$	$\begin{array}{r} 2,066\\ 28,161\\ 1,941\\ 2,424\\ 708\\ 928\\ 5,621\\ 1,039\\ 772\\ 1,281\\ 643\\ 3,076\\ \hline 48,660\end{array}$	2,079 25,864 1,908 2,278 665 848 5,597 997 730 1,290 582 3,179 46,018	$\begin{array}{c} 3,08\\ 51,500\\ 2,500\\ 2,860\\ 722\\ 1,09\\ 7,63\\ 1,290\\ 977\\ 1,433\\ 788\\ 3,76\\ 77,65\end{array}$

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OCTOBER CROP REPORT, BY FEDERAL RESERVE DISTRICTS

(Based on estimates, by States, for Oct. 1 as made by the Department of Agriculture]

[In thousands of units]

	Co	orn	Total	wheat	Spring	wheat	0	ats
Federal reserve district	Produc- tion, 1929	Estimate, Oct. 1, 1930	Produc- tion, 1929	Estimate, Oct. 1, 1930	Produc- tion, 1929	Estimate, Oct. 1, 1930	Produc- tion, 1929	Estimate, Oct. 1, 1930
Roston New York Philadelphia Cleveland Richmond	42, 371 170, 082 148, 109	Bushels 9, 706 24, 657 28, 462 105, 341 103, 292	Bushels 110 5, 373 18, 620 38, 539 26, 147	Bushels 98 6, 545 22, 954 35, 866 29, 278	Bushels 110 136 99 97	Bushels 98 176 119 104	Bushels 8, 722 25, 937 18, 771 64, 498 26, 875	Bushels 9, 788 47, 542 25, 046 83, 464 26, 060
Atlanta Cbicago St. Louis Minneapolis Kansas City Dallas San Francisco	$\begin{array}{c} 174, 605\\ 880, 741\\ 312, 957\\ 294, 781\\ 445, 415\\ 101, 149\\ 10, 654\end{array}$	126, 296 709, 548 185, 278 247, 242 397, 447 98, 526 10, 921	$\begin{array}{r} 4,144\\ 62,550\\ 44,676\\ 184,665\\ 267,493\\ 39,923\\ 113,550\end{array}$	$\begin{array}{r} 3,717\\ 69,054\\ 48,943\\ 189,929\\ 290,807\\ 28,622\\ 113,799\end{array}$	4, 410 417 172, 350 12, 187 343 37, 857	$\begin{array}{r} 6,040\\ 610\\ 178,876\\ 11,530\\ 257\\ 44,410\end{array}$	$\begin{array}{c} 15,814\\ 501,169\\ 51,166\\ 283,837\\ 152,447\\ 49,434\\ 34,904 \end{array}$	$\begin{array}{c} 15,313\\ 568,452\\ 63,130\\ 310,654\\ 168,185\\ 55,352\\ 37,775\end{array}$
Total	2, 614, 307	2, 046, 716	805, 790	839, 612	228,006	242, 220	1, 233, 574	1, 410, 761
	Tame hay		Tobacco		White potatoes		Cotton	
Federal reserve district	Produc- tion, 1929	Estimate, Oct. 1, 1930	Produc- tion, 1929	Estimate, Oct. 1, 1930	Produc- tion, 1929	Estimate, Oct. 1, 1930	Produc- tion, 1929	Estimate, Oct. 1, 1930
Boston New York Philadelphia	Tons 4, 981 6, 958 3, 061	<i>Tons</i> 4, 912 6, 370 2, 632	1,078 47,601	Pounds 40, 853 1, 104 40, 898	Bushels 58, 593 28, 010 23, 623	21, 134		Bales
Cleveland Richmond Atlanta Chicago	4, 190 2, 890 23, 333	$\begin{array}{r} 4,137\\ 2,552\\ 2,425\\ 16,722\end{array}$	$\begin{array}{r} 149,879\\726,638\\185,390\\46,360\end{array}$	$\begin{array}{r} 137,107\\ 750,463\\ 205,259\\ 46,376\end{array}$	19, 695 37, 845 11, 964 44, 914	$\begin{array}{r} 14,539\\33,689\\11,898\\38,661\end{array}$	1, 625 3, 468	1, 914 3, 667
St. Louis	9, 105 12, 190	5, 763 10, 360	316,507 4,508	267,261 4,410	13,313 47,707	14, 940 40, 817	1 3, 306	² 2, 554
Kansas City Dallas San Francisco	12, 348 1, 284 14, 278	$11,770 \\ 1,257 \\ 15,171$	2, 714	3, 049	31, 933 3, 122 39, 077	36, 304 4, 391 47, 671	$1,169 \\ 4,862 \\ 398$	918 5, 060 373
Total	101, 786	84,071	1, 519, 081	1, 496, 780	359, 796	352, 206	14, 828	14, 486

⁴ Includes 9,000 bales grown in miscellaneous territory.

? Includes 4,000 bales grown in miscellaneous territory.

FOREIGN BANKING AND BUSINESS CONDITIONS

REPORT OF THE AGENT GENERAL FOR REPARATION PAYMENTS¹

The final report of the Agent General for Reparation Payments, submitted to the Reparations Commission under date of May 21, 1930, and covering the execution of the Dawes plan through the fifth annuity year and the transition period under The Hague agreements up to May 17, 1930, when the new plan entered into force, includes figures for reparation payments and transfers for these periods, and reviews the development of the experts' plan as It also contains discussion of the a whole. budget, the public debt, German credit and business conditions, foreign trade, and the German balance of payments-which are given (with some omissions) herewith, together with the introduction and conclusion of the report:

INTRODUCTION

The report of the Young committee was made on June 7, 1929, and the plan which the experts recommended was intended to take effect, according to its terms, as of September 1, 1929. But owing to the time expended by the conferences between the interested governments, by the work of the organization committees, and by the process of ratification in the principal countries concerned, it was not until May 17, 1930, that the Reparation Commission and the Kriegslastenkommission were able to make the joint report for which provision was made in the final clause of The Hague agreement of January 20, 1930. With this declaration the new plan came into force, and with the final transfers to the Bank for International Settlements the functions of the Agent General for Reparation Payments and of the several organizations established under the Dawes plan came to an end.

Owing to the length of time required for putting the new plan into effect, the entire first annuity under the Young plan, covering the seven months' period from September 1, 1929, to March 31, 1930, was paid and transferred under the system of administration provided by the Dawes plan. The same is true of that part

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of the second annuity under the Young plan falling within the period from April 1 to May 17, 1930. In addition to the accounts of the fifth annuity year under the Dawes plan and the closing accounts of the Dawes plan itself, the present report, therefore, presents the rec-ord of receipts and payments for the first year of the Young plan and likewise for the first part of the second annuity year under the Young plan up to the date of the final transfer of the Agent General's balances to the Bank for International Settlements. This transfer was completed on May 17, 1930, and the accounts of the Agent General for Reparation Payments for both the Dawes plan and the Young plan, up to the close of business on that date, have been examined and approved by the audi-The functions of the Agent General in tors. respect of the Dawes plan and the transition period are thus completely discharged, and the present report presents the final statements of account.

During the whole period of the Dawes plan reparations have been fully paid and transferred, as provided in the plan, up to a total of nearly 8,000,000,000 of gold marks for the five annuity years and to as much as 2,500,000,000 for the fifth annuity year alone. The specific securities provided by the plan also developed satisfactorily, fully meeting or exceeding the original expectations of the experts of the Dawes committee and providing a substantial margin of safety for the payments required of Germany under the plan. The assigned revenues and the German Railway Co. continue to provide collateral guaranties for the payment of the annuities which Germany has agreed to pay under the new plan.

pay under the new plan. The Dawes plan has also realized its broader objects. The experts of the Dawes committee, it will be recalled, were originally appointed to "consider the means of balancing the budget and the measures to be taken to stabilize the currency" of Germany. The German currency, at all times since the beginning of the plan, has satisfied both internally and externally the practical requirements of the gold standard, and with the coming into force of the new plan it has been placed on a full gold basis. The German budget was brought into balance at the outset of the plan, and the means for keeping it in balance have been constantly at hand, with public revenues which have developed

during the period of the plan to an extent far exceeding the expectations of the experts and which are undoutedly ample to meet all legitimate demands for public expenditure, including, of course, the discharge of Germany's obligations under the new plan. But though the means exist, and the public revenues provide the essential material for a well-balanced budget, the determination to control expenditures and to keep them safely within the limits of available income has been lacking, and the result has been a long series of budgetary deficits which within the past year have produced a state of great tension in the public finances and which are now adding very seriously to the burdens of the German economy at the very time when it most needs to be free to adjust itself to the new conditions created by the fall in world prices and the general recession in trade and business. As the new plan comes into operation, the reform of the public finances is the first problem of the German Government and the German people, and on its solution will depend in large measure the future progress of the German economy under the new conditions created by the Young plan.

This report brings to an end the record of the administration of the Dawes plan and presents the final figures for reparation payments and transfers under the plan up to the close of business on May 17, 1930. It also reviews the development of the German public finances and of German credit and business conditions during the whole period since the interim report of July 1, 1929, and in these fields it takes account of all official information becoming available up to and including the first 10 days of May, 1930.

V. THE GERMAN BUDGET

During the financial year ended March 31, 1930, the German budget saw the culmination of the tendencies toward overspending and overborrowing which have been described in previous reports and in the memorandum of October 20, 1927, to the German Government. The year as a whole was under the shadow of the financial difficulties of the public authorities, and at times, particularly toward the end of December, 1929, there were periods of acute tension in the finances of the Reich and of some of the communes. Under pressure of these difficulties the first steps have been taken to put the financial position in order, but the whole problem of financial reform still calls most urgently for effective consideration and action.

Fundamentally, the situation hasnot changed, but the stage has been reached when energetic measures of reform can no longer be delayed without endangering the public credit and the development of the national economy as a whole. The public revenues throughout the whole period of the Dawes plan have shown beyond a doubt that the necessary material for budgetary equilibrium exists, and that under prudent administration the resources available to the budget would be ample to meet all legitimate requirements. What has been lacking, however, is any determined effort to control public expenditures, and the result has been a constantly mounting level of expenditure, exceeding even the greatly increased revenues and culminating in the serious financial troubles of the past year. The immediate necessity, without doubt, is to put the public finances in order, and for this purpose increased taxes will undoubtedly have to be levied, at least for the time being. But attention needs to be directed primarily to the problem of controlling public expenditure, and until this problem is squarely faced and solved there can be no question of reductions in taxation. The problem, moreover, of controlling public expenditures is not confined to the immediate situation, or to the coming year alone. It is the fundamental budgetary problem, and it can only be solved by firm adherence to sound principles of public finance. What is needed, most of all, is the determination to keep the budget effectively in balance at all times and at all events, plus a recognition of the fact that public expenditures can not be permitted to rise year after year at their recent pace without running the danger of drying up the sources of taxation and prejudicing the future development of the German economy.

Now, as Germany enters upon the execution of the Young plan, which itself brings substantial relief through reductions in reparation payments, the problem presents itself with renewed force and in a form which calls more than ever for firm leadership on the part of the Reich and for sincere and comprehending support from the States and communes. The means are at hand, and the opportunity exists, to meet the problem on a basis that would enable the public finances to be brought into order, and that would also open the way to a resumption of the program of tax reductions, in accordance with the views expressed by the experts of the Young committee in their report of June 7, 1929. Tax reductions, however, can only be made on the basis of assured reductions in expenditure, and up to the present

time the level of expenditures appears to be rising rather than falling, and at a rate that gives no assurance even of effective budgetary balance, notwithstanding substantial increases in taxation. Under the new plan the answer to the problem rests entirely with the German Government and the German people, and their decision will go far to determine the future course of German economic life and the position of German credit, at home and abroad.

The present report deals first with the finances of the Reich and then with the finances of the States and communes, and traces their development through the past year against the background of the experience which has become available since the German budget was brought into balance in the first year of the Dawes plan.

The budget of the Reich.—The events of the past year have fully confirmed the conclusions about the budget of the Reich which have appeared in previous reports, not merely as to the existence of the essential basis for the sound development of the budget and the adequacy of the revenue resources of the Reich, but even more as to the urgent necessity of effective measures of reform in order to bring the budget into balance and restore order to the public finances as a whole. The budget of the Reich, it is clear, has not suffered from lack of revenues, though it has been shown in the past year that the great increases of previous years can not be counted on to recur indefinitely and that there are practical limits beyond which taxation can not well be pushed. But the actual returns for 1929-30 still show the same high revenues from taxation as in 1928-29, and with the sources of revenue which are released under the Young plan and the increased taxes recently imposed the Reich is budgeting in the current year for total revenues from all sources of about 11 milliards of reichs-It remains to be seen to what extent marks. these estimates may be affected by the worldwide fall in commodity prices and the recession in business and trade, but even with full allowance for these factors of uncertainty it is abundantly clear, from the experience of the past six years, that the essential material exists on the revenue side for the sound development of the budget of the Reich, and that under prudent administration the revenues would be ample to meet all legitimate requirements. The Young plan, which brings substantial reductions in Germany's payments to the creditor powers, has greatly improved the position in this regard, not merely by giving direct relief to the budget but also by emphasiz- 000,000 reichsmarks. Of this deficit 1,237,000,-

ing Germany's sole responsibility to make the needed financial reforms.

The difficulties from which the budget of the Reich has been suffering are on the side of expenditure, and the trouble, in the main, has come from making public expenditures year after year beyond the limits of the available resources. During the past year, in particular, expenditures at times have exceeded not merely the regular resources from taxation and other current revenues, but also what could be secured from loans and even from short-term The result has been, twice during borrowings. the year, in April and May, 1929, and again toward the end of December, to produce a state of acute tension in the cash position of the Reich and a situation of greater strain in the public finances than has existed at any other time since stabilization.

The causes which led to this situation have been described at length in previous reports, and particularly in the Agent General's memorandum of October 20, 1927, to the German Government. The difficulties have not been of sudden development, or of the past year alone. They have been gathering for three years or more, and their roots are to be found very largely in the series of new expenditure measures which were adopted in 1926 and 1927, and in the general lack of control over publics pending and public borrowing to which the memorandum drew attention. These dangerous tendencies have been developing from year to year, with cumulative effect, and in the financial year just closed they came to a head, under pressure of the weight of accumulating deficits and of the high interest rates and difficult credit conditions which prevailed during most of the year.

The general course of the budget of the Reich during the five years from 1924–25, when stabilization first became effective, up to the end of 1928–29, is illustrated by the following diagram [omitted], which shows the actual revenues and expenditures of these years and the results of each year as expressed in current surplus or deficit.

In the first two years, it will be observed, total expenditures remained below 7,500,000,-000 reichsmarks a year, and the small current deficit in 1925–26 was more than covered by the surplus of the previous year. But in the three succeeding years expenditures increased by leaps and bounds, and in 1926–27, 1927–28, and 1928-29, taken together, the aggregate current expenditures exceeded even the greatly increased current revenues by a total of 2,445,-

000 reichsmarks fell in the year 1928-29, notwithstanding the fact that current revenues in that year reached a total of 9,651,000,000 reichsmarks, or 1,961,000,000 reichsmarks more than the total current revenues in 1926–27, two years before. This series of deficits completely exhausted the surplus remaining over from the years 1924–25 and 1925–26, as well as the special working fund of 252,000,000 reichsmarks which had been established by the treasury outside the budget in 1924-25 out of seigniorage on the coinage. The remaining deficit was covered to some extent by recourse to long-term loans, from which a total of 553,000,000 reichsmarks was realized during the three years, but the final accounts for the vear 1928-29 still showed an uncovered net deficit outstanding at the end of the year to the amount of 859,000,000 reichsmarks. The difficulty of carrying this accumulated deficit put a heavy burden from the outset on the financial year 1929-30, and the position became further aggravated during the year as expenditures again outran the revenues from all sources and led to a new current deficit. The final accounts for 1929-30 are not yet available, and the figures for this year are therefore not included in the diagram. But it appears from the results thus far announced that the current deficit is again a substantial one, and that it will amount to between 600,000,000 and 650,000,000 reichsmarks even after taking into account about 600,000,000 reichsmarks of savings realized by this budget from the adoption of the Young plan. Of this indicated deficit about 340,000,-000 reichsmarks have been covered by loans issued during the course of the year, so that the net deficit carried forward will amount to between 260,000,000 and 310,000,000 reichsmarks, in addition to the accumulated deficit of 859,000,000 reichsmarks from previous years, or between 1,120,000,000 and 1,170,000,000 reichsmarks in all.

The development of the budget of the Reich during the financial year 1929-30 is presented in further detail in the following pages, with comparative figures for the previous five years and the latest official indications as to the prospects for the new financial year which opened April 1, 1930. [This section, including a detailed analysis of revenues and expenses, omitted.] It is unnecessary to anticipate the figures, which largely speak for themselves, but it is worth pointing out, for its bearing on the future, that the budgetary troubles of the Reich may be traced very clearly to the following causes:

First, and foremost, there has been no effective recognition of the principle that the Government must live within its income. Revenues have been ample, and, notwithstanding the important reductions in taxation that were made in the earlier years, have risen to an estimated total of 10,061,000,000 reichsmarks in 1929-30, as compared with 7,757,000,000 reichsmarks in 1924–25 and 8,961,000,000 reichsmarks in 1927–28. These revenues would have been adequate to meet all legitimate requirements of the Reich, and even to provide a reasonable margin of safety, if only a firm financial policy had been pursued. For the past four years, however, the Government has always spent more than it received and at times, especially during 1929-30, it has made commitments to spend even more than it could borrow. The Reich itself has been one of the worst offenders against the principle which was announced, in the strongest possible terms, in the survey prepared by the Finance Minis-. try which accompanied the draft budget for 1929-30, as follows:

Once the principle of covering all expenditures by revenues is abandoned, the dam against the rising tide of expenditure collapses. Neither the Government nor Parliament will then be able to stem the flood. The disorder once admitted will not be restricted to the year of the deficit but will extend to an increasing degree to future years. Nor will the deficit be confined to the public finances; it is like a running sore which infects all the members of the national economy.

The first condition of return to a sound position is an absolute determination to hold public expenditures within the limits of the available revenues, and, in addition, to leave a sufficient margin of safety to give the Government protection against emergency demands that may arise and the possibility of applying some surplus, year by year, to debt reduction. What is most needed is a firm resolve on the part of the Government to live within its income. This is a simple program which can be readily and effectively applied, but it requires a real exercise of will on the part of the Government itself and an abandonment of the easy theory of the "inevitability" of public expenditures.

Second, the Government has failed year after year to make the reforms which have been so frequently promised and which the Government itself recognizes as fundamental to the sound construction of the budget. The financial settlement between the Reich and the States and communes, the reform of which was expected in connection with the adoption of the Dawes plan, is still governed by pro-

visional financial arrangements which put an arbitrary drain on the finances of the Reich. Up to this time, notwithstanding repeated statements that the problem was to be taken in hand, nothing whatever has been accomplished in the direction of giving the necessary protection to the budget of the Reich. The general reform of administration, which was definitely promised as long ago as 1927, has not yet been undertaken, and the whole problem of reducing the costs of government by rationalizing the public administrations remains to be examined. The reform of the system of unemployment insurance, which had become a pressing problem as early as the winter of 1928-29, was completely neglected until the end of December, 1929, when measures were finally taken, under pressure of the prevailing cash necessities, to raise the contributions from employers and employed. But it was too late to put the system on a self-supporting basis over the winter of 1929-30, and the advances which have had to be made from the budget have put a heavy drain on the finances of the Reich, which threatens to be continued well into the future unless effective measures can be taken without further delay. The difficulties which confront the German Government in dealing with these various problems may well be recognized, and the problem of unemployment insurance, in particular, has been aggravated by the persistent high level of unemployment during the past year. But until now there has been no apparent disposition to face the issue squarely, and matters have already drifted to such a point that the Government seems to be finding itself in more difficulties from continued failure to meet these problems than it would be likely to find in resolutely endeavoring to solve them.

Third, there is the practice, much followed in the past five years, of adopting new measures by legislation or decree without adequate consideration or even knowledge of their financial consequences. Once adopted, moreover, these measures soon give rise to interests which the Government becomes reluctant or unwilling to attack, no matter how burdensome the consequences for the budget. One of the worst cases of this kind was the general increase in the salaries and pensions of officials, announced by the Finance Minister of the Reich on September 14, 1927, and applied as from October 1, 1927, not merely to the administration of the Reich but also to the States and communes, the post office and the German Under the prevailing system, which is dis-Railway Co. These increases, as pointed cussed in greater detail in later sections, the

out in the memorandum of October 20, 1927. were "made on the most sweeping basis, and in the way most likely to bring serious consequences for the general economy of the country." It would seem, the memorandum further remarked, that "the German Government could have served its own interests better by using such substantial increases as an instrument for securing the reform in administration of which so many announcements have been made in the past two or three years. It may not even be too late now to make the salary increases serve this purpose. But as matters stand at present, they seem likely to hinder rather than to help the cause of administrative reform, and to saddle new and lasting burdens on the already heavily burdened budgets of the Reich and the other public authorities." These views have been more than confirmed by events. The reform of administration has not yet been accomplished, and the costs of the general increases in salaries and pensions, which in practice far exceeded the original estimates, have proved to be one of the most stubborn factors behind the constantly rising level of public expenditure. Numerous other examples of the adoption of new measures of expenditure without regard to the financial consequences are to be found throughout the record of the past few years. These measures have contributed very greatly to the budgetary difficulties of the Reich, but, even when their financial effects have become apparent, the theory of the inevitability of expenditure is so strongly held that no steps have been taken to correct them.

Fourth, the budget as a whole is still wrapped in such obscurity, particularly at the time when it comes before the Reichstag, that it lacks the salutary checks which it would otherwise get from public opinion and from the Parliament itself. There is, for example, a growing tendency to provide for expenditures outside the budget by assigning special receipts to special purposes, and in the draft budget for 1930-31 this practice has been carried so far as to separate almost the whole body of transfers to the States and communes from the general budget of the Reich. The budget is further confused by the division between the ordinary and extraordinary budgets and the transfers between them, and perhaps more than anything else by the system of carrying forward revenue and expenditure estimates from previous years without making allowance for the expected results in the budget estimates for the current year. budget is never presented to the Reichstag on a real cash basis, and frequently it is not until the expenditures have already been made and the deficit already incurred that the Parliament gets a clear picture of the situation. The inevitable result has been to encourage the growth of unsound financial practices and to deprive the budget of the natural checks that would be provided by clear and straightforward budgetary practice and accounts.

These various sources of difficulty are, of course, more or less related to each other, and they have conspired together in the past few years to produce the constantly rising volume of public expenditure which is at the root of the budgetary troubles of the Reich. The problem of checking public expenditure has become more than ever the vital budgetary problem of the German Government, and the time has come when a solution has to be found for it, not merely from the standpoint of budgetary stability but in the general interests of the country's economic life and of its credit at home and abroad. The problem is one which can be solved if the will to solve it exists, and it remains true, as stated in previous reports, that there is nothing in the situation which will not yield to the application of sound principles of public finance. Most important of all, the essential material exists, in sources of revenue which have proved their vitality even in times of great stress, but which themselves must be treated with respect if their productivity is to be maintained and a flight from taxation avoided.

With the coming into force of the Young plan the German Government has not only the full responsibility but also the normal incentive to do the things and carry out the reforms which are clearly needed in the country's own interest. Germany now knows, for the first time, the full extent of her international obligations, and the German public authorities are now able to make their calculations with reference to known liabilities. In this regard the coming into force of the Young plan marks a fundamental change in the situation. It is itself an act of confidence in Germany's good faith and financial integrity, and it calls for a corresponding effort on the German side, now that her international obligations are finally fixed and all foreign controls removed, to put the public finances in order and to do the things which are necessary to maintain the capacity of Germany to discharge the obligations which she has assumed.

The budgets of the States and communes.-The finances of the States and communes, like those of the Reich, have been in difficulties during most of the past year, and for much the same reasons. Their revenues have greatly increased during the period of the Dawes plan, both in the form of transfers from the Reich and in their own tax collections; but, generally speaking, the States and communes have been following the practice of making expenditures, year after year, in excess of their available resources, and in some cases the pressure of accumulated deficits has recently become severe enough to bring measures of financial reform into active consideration.

The budgetary difficulties of the States and communes have been gathering for the past three years and more, and it has long been recognized that they have their origin in the failure to keep State and municipal expenditures within proper limits. The Government of the Reich, as long ago as October 7, 1927, pointed out, in its announcement with regard to the foreign borrowings of the States and communes, that "in view of the entire present situation in Germany any expenditure that is not urgent or economic, whether made out of foreign loans or from other sources, must be avoided." The Agent General's memorandum of October 20, 1927, to the German Government called special attention to the same problem, and urged that the Reich should exert its full leadership in the direction of keeping expenditures of the States and communes within the limits of their available resources. The memorandum emphasized, in the following terms, that this was the only solution which would go to the root of the problem:

The question underlying State and communal bor-rowing is not whether individual loans should be placed in the domestic market or in the foreign market, or at short or long term, but whether they should be placed at all. To divert the borrowing of the States and communes from one market to the other, or to refuse it in one form and permit it in another, does not go to the root of the difficulty. Overborrowing at home or abroad proceeds from the same source, namely, rising public expenditures, and it is by reducing expenditures to the minimum that relief is to be found. On the other hand, balanced budgets and economical administration will give the best assurance that when credit is needed for essential public purposes it will be forthcoming.

It is recognized, of course, that the Reich does not control the States and communes in these matters. But, when the States and communes go into foreign markets to finance their budgetary expenditures and internal improvements, they raise fundamental ques-tions of foreign policy which have the most direct interest for the Reich. And under the constitution itself the Reich has a unique opportunity and even

responsibility for leadership, not merely because of its large transfers of revenue to the States and communes, but also because of its powers to prescribe the funda-mental principles and main outlines of their laws in many matters of taxation and public finance. The force of these considerations has been recognized to some extent in the efforts that have been made for the past two years and more to supervise the foreign borrowings of the States and communes through an advisory organization established for this special pur-These efforts, for whatever reason, have not been pose. successful, and the results appear in the swollen figures for State and communal borrowings that have already been given. A new and truly effective supervision, based primarily on the principle of controlling public expenditures, is urgently needed at this time, both in the interests of German credit and to safeguard Germany's economic recovery against the dangers of overstimulation and subsequent reaction as a result of overspending and overborrowing by the public authorities.

The Government of the Reich stated, in its answering memorandum, that it was "devoting its greatest attention to the development of the financial affairs of the States and communes." In practice, however, little has been done during the intervening period but to restrict, through the Beratungsstelle, the issue of long-term public loans abroad, and, instead of showing leadership, the Reich itself has set an unfortunate example to the States and communes by constantly permitting its own expenditures to run beyond the limits of the available resources. The States and communes themselves, instead of putting some check on their expenditures, have allowed them to rise far beyond the high levels already prevailing in 1927, and in many cases far beyond the resources available to them from taxation and long-term borrowing. Altogether, the result has been the growth of a great volume of short-term indebtedness which put an increasing strain on the capacity of the domestic credit market, culminating in the acute difficulties which developed in December, 1929, in connection with meeting the yearend requirements of the Reich and some of the communes.

The importance of the budgets of the States and communes in the public finances of Germany as a whole is indicated by the fact that these two groups of public authorities together dispose of considerably more than one-half of the total tax revenues of Germany. Moreover, as their finances are closely interwoven with those of the Reich, an analysis of the budgetary position of the Reich necessarily involves an examination of the budgets of the States and The development of their budgets communes. during the successive years of the Dawes plan has accordingly been traced in previous reports to the extent that the official information

general proposition that, notwithstanding the large year-to-year increase in transfers from the Reich and in other available resources, the States in recent years have been steadily budgeting for deficits and that for some years past both the States and the communes have been spending more than their current resources permitted. In the financial year 1929-30 the budgets of most of the States again showed appreciable deficits, while the finances of some of the communes, including Berlin, reached such a state of tension that it became necessary to resort to emergency measures. The finances of the State of Prussia, on the other hand, present a relatively better picture, since on the whole Prussia appears to have succeeded in keeping its budgetary deficits within manageable limits and in avoiding too great a burden of short-term indebtedness.

The submission of the 1930-31 budgets of many of the States has been delayed, awaiting the terms of the financial settlement for 1930-31 between the Reich and the States and com-The draft budgets of Prussia, Saxony, munes. Wurtemberg, and some of the smaller States were first presented, moreover, on the basis of a continuance of the arrangements hitherto in force, and these drafts now have to be modified to take account of the changes in the financial settlement which have been introduced since their submission. In the case of Bavaria the Finance Minister stated in the Diet on February 19, 1930, that the budget estimates for 1930-31 could not be submitted without further information regarding the financial relations of the States with the Reich, and it was not until May 6, 1930, that the draft budget for the year was actually presented. Only in the case of Baden and three of the smaller States does the 1930–31 budget appear as yet to have been definitely voted.

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VI. THE GERMAN PUBLIC DEBT

The steady increase of the total public debt of Germany, which has been noted in previous reports, continued during the financial year 1929-30. The extent of the increase is shown not only in the public-debt statements of the Reich, but also in the latest statistics for the public debts of the States and communes, which now give the figures for the States and Hanseatic cities and for the larger communes down to the end of the third quarter of 1929-30. The principal factor, of course, in this continued permitted, and it has been observed, as a growth of public indebtedness has been the constant borrowing resulting from the budgetary deficits which have been reviewed in the preceding chapter on the German budget.

The reported public debt of the Reich rose during the year to a total of 10,353,000,000 reichsmarks, a net increase of about 1,403,-000,000 reichsmarks. Of this increase, about 440,000,000 reichsmarks resulted from the further inscription of war damage liquidation debt certificates, but much the largest part was in treasury certificates, which alone showed an increase of 1,016,000,000 reichsmarks. Some of these appear to have been issued to fund various short credits which had not previously been reported in the public-debt statements, while 361,000,000 reichsmarks were held by the Agent General, representing the anticipation of budgetary savings under the Young plan rather than a further addition to the debt. For the most part, however, the tremendous increase in the volume of treasury certificates reflected the growing budgetary deficits of the Reich.

The public debts of the States and communes at the end of 1929-30 have not yet been reported, but the figures as of December 31, 1929, which are now available for the States and Hanseatic cities and the communes with 100,000 or more inhabitants, indicate that in the first nine months of the financial year the States increased their indebtedness by 116,-000,000 reichsmarks, the Hanseatic cities by 98,000,000 reichsmarks, and the communes with 100,000 or more inhabitants by about 729,000,000 reichsmarks, part of which is reported to have been due to the absorption of smaller communes. The most recently published figures also show that the public debts of the communes with over 10,000 inhabitants (including those with 100,000 or more inhabitants) increased during the period of 18 months between March 31, 1928, and September 30, 1929, by as much as 2,371,000,-000 reichsmarks, or about 50 per cent.

The published statistics show further that a large part of the total increase in indebtedness has taken the form of floating debt. In the case of the Reich the floating debt accounted for 64 per cent of the total increase for the year 1929–30, and in the case of the States for more than the entire net increase in their indebtedness during the first nine months of the year, since there was a decrease of 7,000,000 reichsmarks in the funded debt. In the case of the Hanseatic cities and the communes with 100,000 or more inhabitants, the floating debt accounted for 97 and 60 per cent, respectively, of their total debt increases in the first nine months of

the year. In the case of the communes with over 10,000 inhabitants, about 45 per cent of their increased indebtedness in the 18 months' period between March 31, 1928, and September 30, 1929, took the form of floating debt. Not only did the floating indebtedness of the public authorities rise materially during 1929-30, but the difficulty of carrying it increased and at times, particularly in April and May, and again in December, 1929, the tension became acute. Conditions in the domestic credit market during most of the last year were not favorable to the issuance of long-term loans, and the problem has now become so pressing that for some months past urgent attention has had to be given to the necessity of consolidating the floating indebtedness and the possibilities of making reductions in indebtedness out of taxes or budgetary savings. The measures which have thus far been taken to deal with the floating debts of the public authorities have been described in the preceding chapter.

The official figures of the indebtedness of the States and Hanseatic cities and of the communes which have been published since the last report make it possible for the first time since stabilization to give a comprehensive view of the German public debt as a whole. The assembled figures for March 31, 1928, the latest which are complete for all the public authorities, show that on that date the reported indebtedness was divided as follows: The Reich about 7,891,000,000 reichsmarks, the States about 1,298,000,000 reichsmarks, the Hanseatic cities about 398,000,000 reichsmarks, and the communes about 5,792,000,000 reichsmarks. The growth of the public debts of the various public authorities since March 31, 1928, to the extent to which official figures are now available, is also summarized in the following sections, and it is possible in this way to get a fairly comprehensive picture of the German public debt up to September 30, 1929. But no complete view can be obtained for any date later than March 31, 1928, owing to the fact that later information has not been published regarding the debts of the communes with 10,000 or less inhabitants. The official figures, in all cases, include short-term indebtedness but exclude post-stabilization guaranties, debts between the public authorities, and debts of under-takings belonging wholly to the public author-ities but existing in the form of private companies. The public debt statements of the Reich, moreover, do not yet include the rep-aration indebtedness of Germany as finally

a. Public debt of the Reich.-The reported public debt of the Reich increased by 1,403,-000,000 reichsmarks in 1929-30 and aggregated 10,353,000,000 reichsmarks on March 31, 1930, according to the official statements furnished by the Finance Ministry of the Reich. These figures, however, include 361,000,000 reichsmarks of treasury certificates held by the Agent General which represent the anticipation of savings under the Young plan rather than a further addition to debt. The details of the public debt on March 31, 1930, are shown in the following table, with comparative figures for the end of the six preceding financial years.

PUBLIC DEBT OF THE REICH

[In millions of reichsmarks]

Mar. 31, 1924	Mar. 31, 1925	Mar. 31, 1926	Mar. 31, 1927	Mar. 31, 1928	Mar. 31, 1929	Mar. 31, 1930				
l	•	21,754	{ ³ 4,743 {700	³4,548 700	³ 4,340 700	³ 4,194 743				
			364	500 	500	500 183				
					562	1,001				
	-			5, 748	6, 102	6, 620				
195						•••••				
210	22	19	19	19	18	18				
42 3		1	1	1 1	1 1	1 				
149	251 30	87		49	383	400				
					103	103				
	 	····-				176				
					[
					45	30				
					200	1, 216				
599	305	108	21	61	750	1, 945				
1, 097 235	1, 185 227	1, 054 218	922 208	783 199	656 190	522 181				
1, 332	1, 412	1, 272	1, 130	982	846	703				
	$\begin{array}{r} 454 \\ 433 \\ 29 \\ 17 \\ 12 \end{array}$	$434 \\ 435 \\ 28 \\ 16 \\ 12$	$ \begin{array}{r} 3 445 \\ 429 \\ 27 \\ 19 \\ 12 \\ \end{array} $	³ 423 420 27 21 11	$ \begin{array}{r} 3 & 407 \\ 412 \\ 26 \\ 20 \\ 11 \end{array} $	$ \begin{array}{r} 3 384 \\ 401 \\ 26 \\ 20 \\ 11 \end{array} $				
	946	925	932	902						
	Mar. 31, 1924 1925 210 42 3 149 149 149 149 149 149 149	Mar. Mar. 31, 31, 1924 1925 195 210 22 42 1 3 21 149 30 599 305 1.097 1, 185 225 227 1, 332 1, 412 454 12	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				

PUBLIC DEBT OF THE REICH-Continued [In millions of reichsmarks]

	Mar. 31, 1924	Mar. 31, 1925	Mar. 31, 1926	Mar. 31, 1927	Mar. 31, 1928	Mar. 31, 1929	Mar. 31, 1930
Other Reich debts: Guaranties (pre- stabilization)	448	105	52	51	42		
Credit for re- claiming farm land		9	12	12	12	12	
Loan from the Reichspost Short-term loans		 		110	60 75	133 220	$23 \\ 210$
Other obligations to pay §	27	19	19	10	9	9	9
Total ⁵	473	133	83	183	198	375	242
Grand total 5.	2, 406	2, 796	4, 142	8, 073	7, 891	8, 950	10, 353

¹ Provisional estimates.

² Nominal value.

² Nominal value.
³ Capital value including premium on redemption.
⁴ The inscription of this debt is not yet complete; it is expected eventually to amount to about 1,100,000,000 reischsmarks.
⁶ Differences due to rounding off.
⁶ Excluding administrative credit at the reichsbank limited by the bank law to 000,000,000 reichsmarks and amounting on March 31, 1930, to 50,000,000 reichsmarks, and the advance of 135,000,000 reichsmarks, made toward the end of March, 1930, by the Bank for Industrial Debentures

The public-debt statements up to this time have not taken account of the indebtedness of Germany under the Young plan, as finally determined by The Hague agreement of January This indebtedness is now represented 20, 1930.by the debt certificate of the German Government which has been given to the Bank for International Settlements in accordance with Annex III to The Hague agreement, and it is stated in terms of annuities rather than in terms of capital debt. But on a $5\frac{1}{2}$ per cent basis, the rate at which the calculations of the Young plan were made and at which the debt certificate gives Germany the "right to redeem all or any part of the not yet mobilized annuities," the total capital value of the annuities payable under the Young plan from April 1, 1930, to March 31, 1988, amounted as of April 1, 1930, to about 36,000,000,000 reichsmarks. This figure includes the annuities payable to the United States of America under the separate agreement concluded simultaneously with the adoption of the new plan. It does not include the amounts representing the first annuity under the Young plan, since these had already been paid during the transition period between September 1, 1929, and March 31, 1930; and it also excludes the amounts required for the service of the German external loan, 1924, since the outstanding principal amount of this loan already appears in the regular statements of the public debt. On the other hand, no allowance has been made in these calculations for the fact that the Reich receives

660,000,000 reichsmarks a year from the German Railway Co., from October 1, 1929, to April 1, 1966, as a contribution toward the annuities payable under the new plan. The total capital value of this railway contribution, also calculated on a 5½ per cent basis, amounted, as of April 1, 1930, to about 10,900,000,000 reichsmarks, which counts, of course, as an asset for the Reich against its total capital debt of about 36,000,000,000 reichsmarks under the new plan.

The reported increases and decreases in the various categories of the public debt of the Reich during 1929–30 were as follows, expressed in millions of reichsmarks:

New items:	
Reich loan, 1929	183
Bonds issued to old age and disability insur-	
ance institute	176
Increases in existing items:	
Loan liquidation debt without drawing	
rights	43
War damage liquidation debt certificates_	438
Treasury bills	18
Other treasury certificates	1 010
Other treasury certificates.	1,010
	1 0 7 4
Gross increase	1, 874
The second state of the se	
Decreases in existing items:	- 10
Loan liquidation debt with drawing rights_	146
Treasury certificates issued in connection	
with financial agreement with Rumania	15
Bank debts to Rentenbank and Reichsbank	143
	140
German external loan, 1924	$\frac{143}{35}$
German external loan, 1924	35
German external loan, 1924 Credit for reclaiming farm land	$35 \\ 12$
German external loan, 1924 Credit for reclaiming farm land Loan from Reichspost	$\begin{array}{r} 35\\12\\110\end{array}$
German external loan, 1924 Credit for reclaiming farm land	$35 \\ 12$
German external loan, 1924 Credit for reclaiming farm land Loan from Reichspost	$\begin{array}{r} 35\\12\\110\\10\end{array}$

The new items appearing in the debt statement consist, first, of the 7 per cent tax-exempt internal loan issued in May and June, 1929, in the nominal amount of 183,000,000 reichsmarks, from which a total of 179,000,000 reichsmarks was realized; and, second, of the 7 per cent $5\frac{1}{2}$ year bonds, issued at 93 per cent to the old age and disability insurance institute in the last half of the financial year, in the nominal amount of 176,000,000 reichsmarks, from which 163,000,000 reichsmarks were realized. Both of these issues were described in the last report.

The increases in existing items of the public debt during the year were as follows:

(a) The loan liquidation debt without drawing rights, the figures of which are not yet final, increased by 43,000,000 reichsmarks in consequence of the settlement of certain outstanding claims.

(b) The war damage liquidation debt in- tion Payments, pursuant to the provisions of creased by 438,000,000 reichsmarks, following The Hague protocol of August 31, 1929, as

the further inscription of debt certificates. It is estimated that about 100,000,000 reichsmarks of certificates will still have to be issued before the inscription of this debt is complete.

(c) The treasury bills discountable at the Reichsbank again reached the maximum legal limit of 400,000,000 reichsmarks on March 31, 1930. About 82 per cent were reported as issued on the open market as against 91 per cent on March 31, 1929.

(d) Other treasury certificates increased by 1,016,000,000 reichsmarks and aggregated 1,216,000,000 reichsmarks on March 31, 1930. Full details of this amount have not been published but it appears to be made up of the following items:

Two hundred million reichsmarks taken by the German banks at a discount of 7½ per cent. About three-quarters of this issue were originally repayable on September 30, 1929, but were prolonged on the same terms until the maturity of the remainder, on January 31, 1930. Subsequently, on January 17, 1930, the whole of this issue was again prolonged at the same discount rate, under an arrangement according to which 100,000,000 reichsmarks will be repayable on July 31, 1930, a further sum of 50,000,000 reichsmarks on November 30, 1930, and 50,000,000 reichsmarks on December 31, 1930.

Three hundred and fifty million reichsmarks taken by the Reich loan syndicate under the direction of the Reichsbank in December, 1929. This loan bears interest at one-half of 1 per cent above the Reichsbank discount rate, which stood at 7 per cent at the date when the loan was first issued, and is repayable in seven monthly instalments of 50,000,000 reichsmarks from April 15 to October 15, 1930, inclusive, out of the amortization fund created in virtue of the law of December 24, 1929, as explained in the previous chapter in the section discussing the cash position.

One hundred and twenty-five million reichsmarks of 1-year treasury bonds issued in three tranches in January, February, and March, 1930, and maturing on January 15, February 15, and March 15, 1931, respectively.

One hundred and eighty million reichsmarks taken by the German Railway Co. originally in the form of short-term certificates, but recently renewed and extended to a longer term by arrangement between the German Government and the Railway Co.

Three hundred and sixty-one million reichsmarks taken by the Agent General for Reparation Payments, pursuant to the provisions of The Hague protocol of August 31, 1929, as

November, 1930

supplemented and extended by The Hague agreement of January 20, 1930. These treasury certificates represent, in effect, an anticipation of the savings which accrue to the German Government under the Young plan rather than a further addition to the public debt.

The decreases in existing items of the public debt during the year were as follows:

(a) The loan liquidation debt with drawing rights decreased by 146,000,000 reichsmarks, due to the annual drawing of bonds made in October, 1929, and paid in December, 1929.

(b) The treasury certificates issued in connection with the financial agreement with Rumania decreased by the retirement of 15,000,000 reichsmarks in April, 1929: another 15,000,000 reichsmarks have since matured on April 1, 1930, and the balance comes due April 1, 1931.

(c) The debt of the Rentenbank decreased by 134,000,000 reichsmarks, of which 60,000,000 reichsmarks came from the four quarterly payments by the Reich, due under paragraph 7b of the law on the liquidation of Rentenbank notes, and the balance from interest payments by the owners of the mortgaged land under paragraph 7a of the law. The debt to the Reichsbank decreased by 9,000,000 reichsmarks, the amount of the annual payment by the Reich provided for in the budget.

(d) The German external loan, 1924, decreased by 35,000,000 reichsmarks, primarily through the operation of the sinking fund.

(e) The credit for reclaiming farm land, which amounted to 12,000,000 reichsmarks on March 31, 1929, appears to have been liquidated. At any rate, it has not been reported in the published statements since June, 1929.

(f) The special loan from the Reichspost which amounted to 133,000,000 reichsmarks on March 31, 1929, decreased to 23,000,000 reichsmarks on March 31, 1930, thus reflecting the lessened volume of Reichspost funds available for this purpose, as indicated in the preceding chapter.

(g) Short-term loans decreased by 10,000,000 reichsmarks, leaving a balance of 210,000,000 reichsmarks outstanding on March 31, 1930.

The floating debt of the Reich, as shown in the public debt statement, amounted to 1,888,-000,000 reichsmarks on March 31, 1930. This total, however, does not include the administrative credit granted to the Reich at the Reichsbank, amounting on that date to 50,000,000 reichsmarks, or the advance of 135,000,000 reichsmarks made toward the end of March by the Bank for Industrial Debentures,

in anticipation of the 150,000,000 reichsmarks payable to the Reich upon the coming into force of the new plan, representing the April 1 installment of the service of the industrial debentures.

The following table, expressed in millions of reichsmarks, shows the various categories of the floating debt as reported for March 31, 1930, with comparative figures for the end of the three previous financial years:

	Mar. 31, 1927	Mar. 31, 1928	Mar. 31, 1929	Mar. 31, 1930
Treasury bills Treasury certificates under agree-		40	383	400
ment with Rumania Other treasury certificates Guaranties (prestabilization)	51	42	45 200	30 1, 216
Loan from Reichspost Short-term loans	110	60 75	133 220	23 210
Other obligations to pay Total	10 171	9	9	9 1.888

The growth of the floating debt during 1929– 30 has been discussed at length in the previous chapter in connection with the cash position of the Reich. With the coming into force of the Young plan, important reductions may be expected to take place, partly through the redemption of the 361,000,000 reichsmarks of treasury certificates held by the Agent General, which were in fact retired on May 17, 1930, and also through the various special funds which revert to the Reich as the Dawes plan comes to an end, as outlined in the previous chapter.

In addition, it has been officially announced, in the Finance Minister's declaration of January 27, 1930, to the Reichstag, that the floating debt will be reduced by the proceeds of the loan which the Reich is to receive from Kreuger & Toll and the Swedish Match Co., to which reference has also been made in the preceding chapter. According to the terms of the Swedish match contract the proceeds of the first tranche of the loan, in the nominal amount of \$50,000,000, would not have become payable to the Reich until August 29, 1930, while the proceeds of the second tranche, in the nominal amount of \$75,000,000, were not payable until May 29, 1931. Under the leadership of the Reichsbank, however, a syndicate of German and foreign banks and bankers was formed in March, 1930, for the purpose of discounting both tranches of the loan so as to make the proceeds of the first tranche available to the Reich in April, 1930, and the second tranche in June, 1930. In the communiqué announcing the conclusion of these arrangements, the Finance Ministry emphasized that the proceeds of the Swedish match loan were intended to serve the reduction of the floating debt and added that "through the discounting of the proceeds of this loan the Finance Minister will bring about the reduction of this floating debt at once. The debt amortization which is contemplated in the law of December 24, 1929, and which, in the course of the budget year 1930–31, is to be effected in the amount of 450,000,000 reichsmarks, from new taxes and economies, is to be carried out in addition." The Finance Minister has thus undertaken that the funds derived by the Reich from the discounting of the proceeds of the match loan will be applied at once to the reduction of the floating debt, instead of finding their way into additional expenditure. The public debt statement for April 30, 1930, however, has not yet been published, and it is not known, therefore, to what extent the floating debt may have been reduced up this time through the funds that were received in April, 1930, from the discounting of the first tranche.

The official statements of the public debt do not include the contingent liabilities outstanding under the various guaranties undertaken by the Reich since stabilization, principally in aid of industry, housing, foreign trade and agriculture. According to a statement of the Finance Ministry which appeared in the survey accompanying the draft budget of 1930-31, these guaranties aggregated 522,000,-000 reichsmarks on January 1, 1930, as compared with 783,000,000 reichsmarks on October 1, 1928. The details are indicated in the following table:

Post-Stabilization Guaranties Assumed by the Reich

[In millions of reichsmarks]

	Oct. 1, 1928	Jan. 1, 1930
Agriculture:		
Agricultural machines	21	21
Fertilizers		1
Vinegrowers	30	
Live-stock marketing companies	22	17
Debt consolidation credits		60
Loans to peasants in East Prussia, etc		5
Miscellaneous	1	1
Total 1.	108	104
Trade and commerce:		
Flax growing and spinning	8	6
Russian credits	139	36
Other support of German exports	132	134
Industrial undertakings (Mechernicher Werke,		
 Niederschlesische Bergbau AG., Komnick A 		
G., Ostpreussenwerk)	30	10
4m 1.4		
Total 1.	308	185

POST-STABILIZATION GUARANTIES ASSUMED BY THE REICH-Continued

[In millions of reichsmarks]	[In	millions	of	reichsmarks]	
------------------------------	-----	----------	----	--------------	--

	Oct. 1, 1928	Jan. 1, 1930
Shipping:		
Loan to— Rhine-Main-Danube Canal A. G Neekar Canal A. G. Tank steamers	8	35 7 16
Total ¹	61	57
Housing and settlements: Small dwelling houses Refugee settlements	200 70	146 17
Small dwellings for Reich employees and war victims	25	2
Total	295	= 165
Occupied territories: Communes with curative spas Agriculture and commerce	3 6	3 5
Total 1.	8	8
Miscellaneous: Deutsches Museum in Munich	4	4
Grand total 1	783	522

¹ Differences due to rounding off.

The foregoing table, it appears from the text of the survey, has been drawn on a different basis from the table of guaranties assumed by the Reich as of October 1, 1928, which was published with the survey accompanying the draft budget of 1929-30 and summarized in the last report. This table showed guaranties to a total of 1,189,000,000 reichsmarks as of October 1, 1928, including the guaranty of the dividend on 400,000,000 gold marks, nominal amount, of preference shares issued by the German Railway The table now published, however, does Co. not take this guaranty of railway preference shares into account, either on October 1, 1928, or on January 1, 1930. The survey indicates, furthermore, that even the figures now published for these two dates have not been prepared on the same basis, and that the figures. for October 1, 1928, include certain guaranties authorized but not taken up, whereas the figures for January 1, 1930, comprise only guaranties actually assumed and do not include guaranties authorized but not yet taken up, amounting at that date to 550,000,000 reichsmarks, or guaranties which have expired in the meantime with or without being taken up. No conclusions therefore, can be drawn from the apparent decrease of 261,000,000 reichsmarks in outstanding guaranties between October 1, 1928, and January 1, 1930.

The total losses incurred under these guaranties up to January 1, 1930, are reported as amounting to 48,000,000 reichsmarks, of which FEDERAL RESERVE BULLETIN

40,000,000 reichsmarks were met out of the reserve fund created in the years 1927–28 to 1929–30, while the balance of 8,000,000 reichsmarks remains to be covered in 1930–31 out of an appropriation of 13,000,000 reichsmarks included in the draft budget to replenish the reserve fund. On the general question of the risk of loss under outstanding guaranties, and the dangers of these guaranties from the standpoint of the budget of the Reich, the survey accompanying the 1929–30 budget contained a significant statement from the Finance Ministry of the Reich, in the following terms:

Since, as stated above, most of the guaranteed claims have not yet matured, these particulars do not give an exact picture of the degree of risk entailed by the individual guaranty categories. But it is already possible to say that the greatest risk is entailed by guaranties for credits accorded to individual industrial undertakings (the credits known as subsidy credits), and that in addition considerable losses are to be feared in all cases where assistance to branches of enterprise, instead of taking the form of nonrepayable grants or of Reich credits shown as expenditure in the budget, takes the form of a guaranty of the Reich. There is grave danger that the decision to take up a guaranty, which is no charge on the budget under discussion, will be all too lightly adopted, and that a subsequent budget year will be burdened with charges which the current year is possibly unable to bear.

A further statement in much the same sense appears in the survey accompanying the 1930– 31 budget, as follows:

The inherent risk can be kept within tolerable limits if the guranties are not misused in the sense of providing necessitous undertakings with a backing which enables them to take up short-term credits which then have to be made good by the Reich as they fall due, and if relief is not given to particular branches of industry or particular districts in this form in the place of grants in aid or direct credits by the Reich. Such attempts tend to conceal the real budgetary position inasmuch as expenditure which is bound to be incurred is not shown clearly at the moment of its being voted in the budget. It also tends readily to lead to a certain cheerful readiness to make grants, which revenges itself on later budgets not responsible for the grants.

Notwithstanding the views thus expressed by the Finance Ministry of the Reich, it appears from recent announcements that a further series of guaranties is now under consideration, primarily for agricultural credits and for relief in the agricultural districts toward the east.

A guaranty of the Reich operates, of course, as a pledge of the public credit, and apart from the risk of loss to the budget it puts an indirect burden on the credit of the Reich, which reacts adversely on all direct issues of Reich obligations. There are strong presumptions, therefore, against the assumption of additional guaranties, and it would greatly strengthen the Government's credit and facilitate the manage-

ment of the public debt as a whole if it were clearly understood for the future that no new drafts were to be made on the public credit in this form.

b. Public debts of the States and communes.—Considerable progress has been made by the Reich Statistical Office since the last report in bringing up to date the assembled statistics of the public debts of the States and communes, as reported to the Reich pursuant to the decree of June 23, 1928. Under this decree monthly statements must be furnished by the States and by communes with over 100,000 population, while communes with a population between 10,000 and 100,000 are required to furnish their debt statements quarterly. The figures for the public debts of the States and all the communes are now complete as of March 31, 1928, and are summarized in the table on page 707, to which, in order to give a comprehensive view, the figures for the public debt of the Reich on that date have been added. A similar table was published in the last report, without including the figures for the Reich, but the official information regarding the indebtedness of the communes as of March 31, 1928, had not then been fully published, particularly in respect of poststabilization indebtedness contracted within Germany. In view of the importance of the missing information, an estimate was made of this indebtedness by the Economic Service of the Transfer Committee and was included in the table published in the last report. The official figures, which are now available, indicate that this estimate was too low by as much as 2,145,000,000 reichsmarks. The estimate, it will be recalled, was based on the reports of loans issued by the public authorities on the capital market, as published monthly in Wirtschaft und Statistik, but it now appears, from the survey accompanying the official figures as of March 31, 1928, that nearly 40 per cent of the total poststabilization domestic debts of the communes had taken the form of floating debt, consisting mainly of current advances from the savings banks and of other short credits taken up on the money market, which are not included in the figures published in Wirtschaft und Statistik and concerning which no official figures were available at the time the estimate which appeared in the last The underestimate on report was made. this account amounted to 1,525,000,000 reichsmarks, and in addition there was a further underestimate of about 620,000,000 reichsmarks in

the loan figures published in Wirtschaft und Statistik failed to show the whole of the longterm debt contracted.

PUBLIC DEBTS OF REICH, STATES AND HANSEATIC CITIES, AND COMMUNES, MARCH 31, 1928

[In millions of reichsmarks]

1	Reich	States	Hanse- atic cities	Com- munes
Prestabilization: Revalorized paper mark debt— Bonds with redemption rights.	4, 548	28	95	1, 049
Bonds without redemption rights Fixed-value debt	700 1, 054	$\frac{1}{32}$	11 40	17 90
Total 1	6, 302	62	146	1,156
Poststabilization: Contracted abroad— Funded debt Floating debt	902	379 133	143 76	
Total.	902	512	219	542
Contracted within Germany— Funded debt Floating debt	$\frac{512}{175}$		1 33	2, 570 1, 525
	687	725	• 34	4,095
Total	1, 589	1, 237	253	4,637
Grand total 1	7, 891	1, 298	398	5, 792

¹ Differences due to rounding off.

The official figures indicate that the total indebtedness of the communes as of March 31, 1928, amounted to 5,792,000,000 reichsmarks, or nearly two-fifths of the total indebtedness of all the German public authorities. Of the indebtedness of the communes on this date, 4,637,000,000 reichsmarks, or about four-fifths of the total, consisted of poststabilization debt, of which 4,095,000,000 reichsmarks were reported as having been contracted within Germany and 542,000,000 reichsmarks abroad. About one-third of this poststabilization debt was reported to be in the form of floating debt, consisting principally of interim credits obtained in Germany pending the issue of long-term loans.

In addition to the assembled statistics as of March 31, 1928, the published figures of the public debts of the States and Hanseatic cities and of the larger communes are now complete to December 31, 1929, while figures for the communes of more than 10,000 inhabitants are available as of September 30, 1929. These later statistics are summarized in the next two sections.

1. Public debts of the States and Hanseatic cities.-The public debts of the States and Hanseatic cities as of December 31, 1929, are summarized in the following table, with comparative figures for March 31, 1928, and March Reich, mainly in the form of reimbursable

31, 1929, as published by the statistical office of the Reich:

PUBLIC DEBTS OF THE STATES AND HANSEATIC CITIES [In millions of reichsmarks]

	States			Hanseatic cities			
	Mar. 31, 1928	Mar. 31, 1929		Mar. 31, 1928	Mar. 31, 1929	Dec. 31, 1929	
Prestabilization: Revalorized paper mark debt 1 Fixed-value debt	28 32	$\frac{32}{32}$	28 32	95 40	89 37	87 37	
Total 2	61	64	60	135	126	124	
Poststabilization: Contracted abroad— Funded deht Floating debt	379 133 512	378 115 493	174	143 76 219	151 23 173	150 100 250	
Contracted within Germany— Funded debt Floating debt	$287 \\ 438$		438 799	1 33	$\begin{array}{c} 26\\ 155\end{array}$	30 173	
	725	1, 171	1, 236	34	180	203	
Total 2	1, 237	1,684	1, 783	253	353	453	
Grand total 2	1, 298	1,727	1, 843	388	479	577	

¹ Excluding bonds without drawing rights and unsettled claims.
² Difference due to rounding off.

The indebtedness of the States on December 31,1929, stood at a total of 1,843,000,000 reichsmarks, an increase of 116,000,000 reichsmarks in the first 9 months of the financial year 1929-30 as compared with an increase of 429,000,000 reichsmarks in the preceding 12 months. The increase in the floating debt alone was 123,000,000 reichsmarks, contracted about one-half abroad and one-half within Germany, while funded debt decreased by about 7,000,000 reichsmarks.

The debts of the Hanseatic cities have continued to grow at a somewhat faster rate, and are reported as amounting on December 31, 1929, to a total of 577,000,000 reichsmarks, an increase of about 98,000,000 reichsmarks in the first 9 months of 1929-30 as compared with an increase of 91,000,000 reichsmarks in the preceding 12 months. As in the case of the States, the increase was almost entirely confined to the floating debt, other debt having remained practically stationary. About 81 per cent of the increase in the floating debt is reported to have been contracted abroad through the sale of treasury certificates.

The States and Hanseatic cities, in addition to their direct indebtedness summarized in the foregoing table, have also incurred debts to the credits for housing, and have assumed guaranties for various purposes, principally in respect of bonds issued by their public credit institutions. The credits from the Reich to the States amounted to 139,000,000 reichsmarks on December 31, 1929, showing a decrease of 62,000,000 reichsmarks in the first nine months of 1929-30 in consequence of the reimbursement of credits for mortgages on small dwellings granted in 1926–27. Reich credits to the Hanseatic cities, on the other hand, remained practically unchanged at 19,000,000 reichsmarks on December 31, 1929. Information concerning the guaranties assumed by the States and Hanseatic cities is not available for any date later than March 31, 1928, when they are reported to have amounted to a total of 618,000,000 reichsmarks.

2. Public debts of the communes.-The official statistics of the indebtedness of the communes, though not so current or complete as those for the other public authorities, are still adequate for an appreciation of their present position. The latest figures covering all communes are for March 31, 1928, already summarized in the table on page 707; but for the communes with over 10,000 inhabitants and for the associations of communes, statistics of public debts are available as of September 30, 1929, while for the communes with 100,000 or more inhabitants the debt figures are available as of December 31, 1929.

The table opposite shows, as of March 31, 1928, and September 30, 1929, the public debts of the communes with more than 10,000 inhabitants and of the associations of communes. No figures are available for the public debts of the communes with 10,000 inhabitants or less on any date later than March 31, 1928; but even without these figures the table gives a comprehensive picture of communal indebtedness and of its growth during recent years. In the figures of March 31, 1928, the debts of the smaller communes amounted to only 18.5 per cent of the total, while the official commentary accompanying the figures of September 30, 1929, states that "the share of these smaller communes in the total communal debt has probably decreased since March 31, 1928.⁴

The table shows that in the 18 months ended September 30, 1929, the public debts of the communes with more than 10,000 inhabitants and of the associations of communes increased by a total of 2,371,000,000 reichsmarks, or about 50 per cent. Of this increase about 10,000,000 reichsmarks are reported as having resulted from the absorption of smaller communes by the larger ones. During the same 000,000 reichsmarks on March 31, 1928.

period the debts of the States increased by 464,000,000 reichsmarks, or 36 per cent, and those of the Hanseatic cities 149,000,000 reichsmarks, or 39 per cent. The communes whose debts are included in the table have thus increased their indebtedness at an appreciably greater rate than the States and Hanseatic cities.

PUBLIC DEBTS OF THE COMMUNES WITH MORE THAN 10,000 INHABITANTS AND OF THE ASSOCIATIONS OF COMMUNES

(Tn	millions	~	reichsmarks	
111	minions	Q1	reichsmarks	l

· · · · · · · · · · · · · · · · · · ·	Mar. 31, 1928	Sept. 30, 1929	Increase ²
Prestabilization: Revalorized paper mark debt ¹ Fixed-value debt	924 89	945 114	21 26
Total	1, 013	1, 059	47
Poststabilization: Contracted abroad— Funded debt Floating debt		706 12	209 ⁸ 15
•	524	718	195
Contracted within Germany— Funded debt Floating debt	1, 921 1, 267	<u>2,</u> 979 2, 338	1, 058 1, 071
	3, 188	5, 317	2, 129
Total ²	3, 712	6, 036	2, 324
Grand total ²	4, 724	7,095	2, 371

¹ Excluding bonds without drawing rights and unsettled claims. ² Differences due to rounding off.

³ Decrease.

The growth of the communal indebtedness during the 18 months' period occurred principally in the domestic poststabilization debt, which increased by 2,129,000,000 reichsmarks, of which 1,058,000,000 reichsmarks represented funded debt and 1,071,000,000 reichsmarks floating debt. The prestabilization debt showed an increase of 47,000,000 reichsmarks, due to the further settlement of disputed claims in the case of the revalorized debt and to a more complete assembling of the figures of the fixed-value debt.

The debt figures in the foregoing table do not include the credits granted to these communes by the Reich or the States for housing, productive unemployment relief, etc., or those obtained from rent tax funds. On September 30, 1929, the credits from the Reich and the States aggregated 435,000,000 reichsmarks, as compared with 404,000,000 reichsmarks on March 31, 1928, while credits from rent tax funds aggregated 353,000,000 reichsmarks on September 30, 1929, as compared with 204,-

The total floating debt of the communes included in the table amounted to about 2,350,-000,000 reichsmarks on September 30, 1929, practically all of which is reported to have been contracted within Germany, though substantial amounts indicated as contracted within Germany are probably held abroad. This tremendous volume of floating debt, in conjunction with the greatly increased floating indebtedness of the Reich, has kept the domestic credit market under heavy pressure throughout the past year. The tendency of the floating debt to increase more largely than the funded debt is characteristic of the recent development of the indebtedness of all the German public authorities, including the Reich. In this connection the official survey accompanying the debt figures of the communes for March 31, 1928, states that before the war intermediate and short-term debt was created by the communes almost entirely for the purpose of meeting temporary cash requirements, while the postwar growth of communal floating debt has been due largely to the unwillingness of the communes to borrow at long term at the high rates prevailing in the domestic capital market. The true explanation, however, is to be found in the fact that for some years past the communes have lived largely beyond their incomes and have fallen back more on shortterm and intermediate credits to finance capital expenditures and public works which should never have been undertaken unless first assured of proper financing at long term. The result has been to put a severe strain on the domestic market and on the cash position of the public authorities, and under pressure of this necessity emergency measures have had to be taken, as outlined in the previous chapter, to deal with the problem of debt consolidation.

The table below shows the public debts of the communes with 100,000 or more inhabitants on four different dates beginning March 31, 1928, and ending December 31, 1929. These are the latest figures of communal indebtedness, and they make it possible to follow the development of the public debts of the larger communes up to the end of 1929. The indebtedness of these communes on March 31, 1928, amounted to about two-fifths of the aggregate public debts of the communes on that date, and the subsequent figures up to September 30, 1929, are already reflected, of course, in the statistics given in the previous table for communes with more than 10,000 inhabitants.

Public Debts of the Communes with 100,000 or More Inhabitants

	[In	\mathbf{m} il	lio	ns	of	rei	chs	ma	rk	:s]	
_					_				-	_	

	Mar. 31, 1928	Mar. 31, 1929	Sept. 30, 1929	Dec. 31, 1929
Prestabilization: Revalorized paper mark debt Fixed-value debt	559 59	541 74		567 73
Total ²	618	615	629	640
Poststabilization: Contracted abroad— Funded debt Floating debt	} 413 413	{ 593 5 598	592 1 593	602 1 603
Contracted within Ger- many— Funded debt Floating debt	1, 330	{ 1, 148 { 1, 010	1,367 1,286	
	1, 330	2, 158	2, 653	2, 858
Total 2	1, 743	2, 757	3, 246	3, 461
Grand total 2	2, 361	3, 372	3, 875	4, 100

¹ Excluding bonds without drawing rights and unsettled claims. ² Differences due to rounding off.

The indebtedness of the large communes, it will be observed, increased by 729,000,000 reichsmarks in the first nine months of 1929-30, as compared with an increase of 1,011,000,000 reichsmarks during the whole year 1928-29. An appreciable part of this increase appears to have resulted from the absorption of small communes, and during the first half of the year alone about 176,000,000 reichsmarks out of a total increase of 503,000,000 reichsmarks are reported to have been due to this cause. The floating debt of the large communes increased from 1,015,000,000 reichsmarks on March 31, 1929, to a total of 1,444,000,000 reichsmarks on December 31, 1929, practically all of which is reported to have been contracted within Germany.

In addition to the public debts included in the table, the communes with 100,000 or more inhabitants are reported to have taken up credits out of public funds to a total of 346,-000,000 reichsmarks on December 31, 1929, as compared with 310,000,000 reichsmarks on March 31,1929. About one-half of these credits was granted by the Reich and the States, and about one-half was obtained from rent tax funds.

VII. GERMAN CREDIT CONDITIONS AND THE CURRENCY

ber 30, 1929, are already reflected, of course, in the statistics given in the previous table for has had to contend with many disturbing communes with more than 10,000 inhabitants. forces, some of them purely internal, as, for

taking the year 1929 as a whole, the figures show that the physical volume of production and trade was slightly larger than in 1927 and 1928, both years of large business activity.

The outstanding commercial development of the year 1929 was the further growth of the export trade, with the result that the value of goods exported finally overtook and slightly exceeded the value of imports, and this without any reduction from the previous year in the volume of raw materials imported for the use of German industry. The value of exports has been increasing since 1925 at an average rate of about 1,000,000,000 reichsmarks a year, but heretofore, except in 1926 when imports were seriously curtailed, exports had still remained below imports. This deficiency in the merchandise trade balance has been one of the major causes for Germany's dependence in previous years on foreign credit, and its disappearance in 1929 was of primary importance because it diminished the degree of that depen-In the first quarter of 1930 the vitality dence. of the export trade has been well maintained.

The continued growth of exports, which itself had much to do with maintaining the volume of production during 1929 at a high level, reflects among other things the results of the laborious process of rationalization and consolidation which has been under way ever since 1925. The efficiency now attained has reduced costs of operation, and reorganization generally has greatly increased the capacity of German industry to compete in foreign markets. In recent months consolidations or intimate working agreements have been effected in banking and shipping, which correspond in their practical consequences to the earlier combinations in the steel, potash, and chemical industries.

A factor only less important than the growth of exports in bringing German foreign trade into balance in 1929 was the greater productivity of agriculture, the effect of which, coupled with the lower prices paid for foreign grains, was to reduce the value of imported foodstuffs. But the same conditions added seriously to the difficulties of agriculture, which were already pressing, particularly in some sections, because of the heavy burden of interest on debts incurred in previous years. The situation in the district east of the Elbe has been acute for some time, but the further decline in the prices of agricultural products that occurred over the turn of the year 1929-30 intensified the difficulties of agriculture as a whole. The special measures for the relief of further in the early months of 1930. But agriculture, including the increased duties

example, the state of the public finances; others mainly due to the suspense and uncertainty attending the long discussions over the complete and final settlement of the reparation problem; and still others, world-wide in their effects, including first the strong movement of funds away from Europe during most of 1929, and then the sharp decline of commodity prices and the general recessions in production and trade during recent months. In the face of these difficulties, the German economy as a whole has succeeded in maintaining its essential stability, and in some very important directions it has shown new strength and self-reliance. Some of the disturbing elements have now run their course, and with the coming into force of the Young plan there enters a new factor of stability and confidence. But other adverse factors, such as the state of the public finances and the general depression of trade, still remain, and their effects are to be seen in a somewhat diminished volume of business in Germany

and in the high level of unemployment which

prevails. Before dealing in detail with the results of the period, it is interesting to review in broad outline the changes in business and credit conditions which have taken place since the end of 1928. At that time, it will be recalled, the available figures showed that normal forces had again asserted themselves in many departments of the German economy, giving evidence of underlying stability and of a There broader and sounder basis of credit. had already occurred, however, an event of considerable importance, namely, the November, 1928, lockout in the Rhenish-Westphalian steel and iron industry, which accelerated the seasonal rise in unemployment and affected indirectly the activity of other industries. In the early months of 1929 the effects of the lockout were aggravated by weather of unprecedented severity, which brought seasonal unemployment to the highest level reached up to that time and restricted both the output and distribution of goods. But with the coming of spring there was a prompt rebound, and by midsummer the shortages of the winter months had been largely made up. In some particulars, notably in heavy industry, the volume of production reached a higher level than at any previous time, and from April to November, 1929, the general index of production stood well above the average of the two previous years. During the late autumn a recession developed in many branches of industry and trade, which was carried somewhat recently imposed on agricultural products and the other measures which the Government has under consideration, have been followed by an improvement in domestic grain prices, but they have raised at the same time questions of farreaching importance for the business and commercial policy of Germany. On the other hand, it seems clear that the possibilities of rationalization are by no means exhausted, and that much can still be accomplished notmerely in the development of intensified forms of agriculture but also through technical improvements in the methods of distribution and the organization of agricultural credits.

In the field of credit, the German money market in 1929 was confronted with unusual difficulties on both sides, the side of supply and the side of demand. In each previous year since stabilization, foreign credits at long or short term had flowed into Germany in great volume. But in 1929, owing to conditions at home and in the international money markets, the amount of fresh credit from abroad was much reduced. The total of long-term loans for the year fell to about one-fifth of the former amount, and the net growth of shortterm credit of all sorts appears also to have been much reduced.

The special factors operating to restrain the flow of credit into Germany during 1929 centered on three principal developments-the great speculative activity prevailing on the New York Stock Exchange, which until the autumn drew funds from all over the world and restricted the market for fixed-term investments of all sorts; the restraints exercised by the Reichsbank on the use of foreign credit at both long and short term; and the negotiations for the complete and final settlement of the reparation problem, which extended over the entire year. The most acute phase of the reparation negotiations passed in May, 1929, when it became clear that the committee of experts was about to reach an agreement, but in the earlier period of suspense, as appeared from the last report, an immense amount of liquid funds had been withdrawn from the German market. Later in the year the return flow of funds somewhat more than made up for this loss, but the recurrent waves of uncertainty with respect to the final settlement and the controversies incidental to it discouraged both the long-term borrower and the long-term lender.

The demands made on the money market during 1929 were also exceptional. Until September, for example, the reparation charge was running at the rate of 2,500,000,000 gold marks

a year, the full amount fixed under the Dawes plan for the standard annuity, and reparation payments were thus being made at a level 750,000,000 reichsmarks higher than in any previous year of the Dawes plan, and higher, indeed, than will be required in any year under the Young plan. Beginning with the month of September, under The Hague protocol of August 31, 1929, reparation transfers were in effect placed on the reduced basis provided in the Young plan. Another demand, effective during the whole year 1929, was for interest and sinking fund payments on debts incurred abroad, which stood at the largest figure up to that time, reflecting, of course, the rise in German foreign indebtedness during previous years. At the same time the money market had to support a volume of housing construction somewhat larger than in previous years and to provide funds to carry a high average volume of production and trade. Finally, the public authorities, by reason of their urgent demands for credit, exerted greater pressure than ever before on the money markets. This pressure was most acute in the final months of the year, when for a time the uncertainty as to the position of the public finances overshadowed the entire business situation, and the Government of the Reich was obliged to take emergency measures for the purpose of meeting its yearend requirements.

The pressure thus exerted on the money markets from all sides had its natural consequence in high money rates, and except for the first quarter of the year interest rates ranged higher in 1929 than in any of the preceding three years. In April and May, during the period of suspense over the outcome of the Paris conference, money rates reflected a temporary crisis of confidence, and this was followed by a brief period in which the Reichsbank was obliged to return to the policy of credit rationing. But even after these special influences had passed, representative rates ranged from midsummer onwards to the end of the year from half a point to as much as two points above the rates prevailing in corresponding seasons of 1927 and 1928.

During the first few months of 1930, consistently with the ease of money which has developed in other important markets, rates for short-term loans have rapidly declined. At the end of April the Reichsbank rate stood at 5 per cent, a level touched only once before since stabilization and 2½ points below the rate of last summer. Long-term rates, as expressed in the yield of standard bonds at current market prices, have also declined though

benefit Germany obtain

NOVEMBER, 1930

much more moderately. These lower rates for money are of unquestioned benefit to the German economy at large, but it should not be overlooked that the decline thus far has been mainly a reflection of lower rates in other markets. The margin by which representative rates in Germany exceed rates in other important centers is still about the same as during the whole second half of 1929, and it was only during April that any narrowing of the spread began to appear.

Largely by reason of the improvement in the balance of trade and the higher money rates prevailing in Germany as compared with those in other principal markets, the reichsmark has stood ever since June, 1929, as one of the strongest currencies in the world. Indeed, its strength in the foreign exchanges has been such that before the end of March, 1930, the gold and reported devisen reserves of the Reichsbank had somewhat more than recovered the losses incurred in the period which culminated in the crisis of May, 1929, while at the end of April the total reserves, reported and unreported, are understood to have been somcwhat higher than at any previous time.

From the broad outlines drawn in the foregoing paragraphs it appears that the German economy during the larger part of the year 1929 had to deal with exceptionally difficult credit conditions. Nevertheless, the physical volume of production and trade, taking the year 1929 as a whole, was slightly larger than in the best preceding year, and the volume of goods exported considerably exceeded the exports of former years. The tendency of domestic business toward the end of 1929, however, was downward, and this period of slackness has in the main continued through the months covered by the latest available figures, coinciding with the depression in business elsewhere in the world. In short, German industry and trade have shown remarkable resistance during all this period to adverse and sometimes critical influences, and only late in the period have definite signs of recession appeared, in harmony with similar conditions in other countries.

Many of the difficulties which proved most disturbing in 1929 are already passed or have been much mitigated. The high cost of credit the world over, for example, has given way, at least for the time being, to an unusually low international interest rate. This development is of special importance to Germany, which must still have recourse, though doubtless to a diminishing degree, to foreign markets for marginal amounts of capital. The advantage thus derived from low interest rates goes hand

in hand with the benefit Germany obtains from the decline that has taken place in the prices of the raw materials which she has to import for the use of her industries. As an importer of credit and of raw materials, a decline in prices works directly to reduce the cost of manufacture and of doing business generally.

The final agreement reached at The Hague on January 20, 1930, which took the form of German law on March 13, 1930, removed the uncertainty as to the amount of the reparation obligations and brought to an end the suspense that had attended the course of the reparation negotiations. This feeling of suspense, and particularly the agitation that continued up to the very end over various phases of the settlement, dampened business enterprise and introduced an element of hesitation and doubt into German credit and business conditions. The removal of the reparation question from the field of political controversy was one of the principal contibutions of the Dawes plan to the reconstruction of Germany, and the final settlement of the whole problem under the Young plan, with the lifting of foreign controls and the substitution of a certain for an uncertain obligation, coupled with the large reduction in the annual financial burden, should prove a most constructive factor in the development of German economic life.

Other factors remain, which have a restraining influence. The recent decline in business activity in other important countries of the world and the general fall in commodity prices provide elements of uncertainty which serve to restrain business recovery in Germany, as well as abroad. In addition, within Germany itself, basic unemployment remains a stubborn problem, and agriculture in large sections of the country finds itself in a difficult position. At the same time, the disorder in the public finances continues to be one of the most serious factors of disturbance in the entire situation, and it remains the chief problem still to be settled. Its effects have been manifested in many directions, not the least of which is the influence it exerts on the cost of credit. A considerable part of the margin by which interest rates in the German market exceed those in the international markets is attributable to the public authorities, whose requirements in the shape of taxes and loans limit the accumulation of investment funds and raise the cost of money to private borrowers, and at the same time seriously interfere with the efforts of German business and industry to

of world prices and world trade. This handicap can only be removed by internal measures of financial reform, and until these have been taken the position of the public finances will remain one of the principal obstacles to the economic progress of Germany.

a. Demand for credit and the supply.— Before proceeding with the detailed study of the numerous factors of supply and demand which have entered into the German credit situation during 1929 and the first few months of 1930, it is useful to point to two developments which distinguish the period from any preceding it. One is the growth of exports to the point of equilibrium in the trade balance, with imports at a high level, and the other is the decrease in the volume of foreign borrowing.

It is possible, of course, to establish a relationship between these two developments only indirectly, through the German money market as a whole. Converging on the German money market, regarded as a unit, are all the demands from whatever source, such as the innumerable and varied demands for funds at both long and short term for purely domestic purposes, as well as the demands for funds ultimately finding their way abroad. The latter include funds utilized to make reparation transfers, to pay for imported goods, to pay interest on foreign debt and so on. All of these several demands taken together exert pressure on the market for the funds available in it. On the other side, that is, the side of supply, funds accumulate from the export of goods abroad and from domestic sources, through savings or otherwise, and if these are not sufficient to balance the sum total of the demands, the latter are restricted, or funds are attracted from abroad, or both.

During 1929, as has already been indicated, the German money market was subjected to demands which in several directions were exceptionally large. Yet for reasons which will presently appear in detail, the supply of foreign funds available to the market in the shape of loans and credits was much reduced as compared with previous years. The market was thus faced with a shortage of funds, and in consequence encountered certain difficulties, which would have been much accentuated had not access to foreign sources of funds been found through larger shipments of goods. The increase in exports offset somewhat more than 1,000,000,000 reichsmarks of the decline

oans and credits, and relieved the market to that noteworthy extent. In its broader aspects this result represented a long step forward in hardly more than one-fifth the amount offered

the direction of independence of foreign funds as a source of credit.

1. Funds from abroad.—The limitations on the inflow of foreign funds during the year 1929 were due in part to German banking policy and still more to conditions in the international money markets. The Reichsbank for some years past has exerted its influence against foreign borrowing, and whenever internal conditions permitted has reinforced its influence with its discount rate. For about four months in the spring of 1929, as appears in the next section of this chapter, the Reichsbank's rate stood lower than at any time in the preceding year or more, and other money rates in the German market were at levels consistent with Abroad, on the other hand, largely by it. reason of the great speculative activity on the New York Stock Exchange, which drew funds from all over the world, money conditions were more or less strained and the demand for foreign bonds in the principal markets was very narrow. The market for issues of bonds remained limited well up to the end of the year.

FOREIGN LOANS

[In millions of reichsmarks]

	1925	1926	1927	1928	1929	1930, Janu- ary- April	Total
Loans of the States	138.6	270.6	267.3				676.5
Provincial or com- munal loans	256. 0	249.5	112.5	237.4	34. 5	5.0	894. 9
Loans of public and semipublic under- takings:							
 (a) Of the Reich (b) Of the States, Provinces, and 	161.7	25, 2	336. 0	152.3			675.2
communes	202.8	351.5	205.7	588.3	124, 4	179.0	1, 651. 7
Loans of private en- terprises Loans of various	472.0	742.0	597. 3	529. 1	156. 1	155, 5	2, 652. 0
church organiza- tions	25. 1	57.6	4.1	32. 1	22.4	8.8	150.1
Total	1, 256. 2	1, 696. 4	1, 522.9	1, 539. 2	337.4	348. 3	6, 700. 4

The figures shown in the foregoing table for the year 1929 differ but slightly from those for the first six months of the year, as given in the interim report. Indeed, in the six months from June 30 to December 31, 1929, the new longterm issues placed abroad amounted to less than 50,000,000 reichsmarks, of which 15,000,-000 reichsmarks were for a municipality, 21,-000,000 reichsmarks to a steamship concern, and about 12,000,000 reichsmarks to church organizations. All told, the long-term loans issued abroad for German account in 1929 were hardly more than one-fifth the amount offered in any one of the previous three years. The net increase in the gross foreign indebtedness on that account was probably negligible, after taking into account sinking-fund installments paid on the debt already outstanding. During the first four months of 1930 long-term issues abroad aggregated 348,000,000 reichsmarks, or more than during the whole of 1929. The main issues consisted of one for a private enterprise in February and two for semipublic electrical concerns in March and April. These transactions, however, can not be regarded as having constituted in any important sense a revival of the foreign market for long-term German loans.

The changes during 1929 in the short-dated debt owing abroad were far more pronounced than in the case of the long-term debt. In the first five months there was a rapid outflow of funds, due in the first instance to the differential in money rates prevailing during the early part of the year, and later to the uncertainty over the outcome of the Paris conference. During the summer and autumn the current turned the other way, and funds again flowed toward Germany. It is impossible, in the absence of published figures, to state in accurate terms the extent of the decline in shortdated debt during the spring or the extent of the rise during the remainder of 1929. From the evidences available it may be estimated that there was a net increase which may be very roughly placed at somewhere between 800,000,000 and 1,200,000,000 reichsmarks. In the early months of 1930 international money rates still favored a flow of funds into Germany, but the extent of the movement is a matter of conjecture. On the other hand, during the past year and more, there appears to have been a considerable flow of funds abroad for the purpose of evading taxation, and, what is tantamount to the same thing, a retention abroad of interest and profits accruing in foreign markets for German account. The amounts involved are, of course, impossible to appraise.

In order to remove some of the existing restrictions placed on capital invested in Germany, whether foreign or domestic, a bill was approved by the Reichsrat on May 2, 1930, and has since been presented to the Reichstag, the intent of which is to permit the Government of the Reich, with the assent of the Reichsrat and a committee of the Reichstag, to reduce or suppress taxes on income derived from capital and on capital transactions of various sorts. The purpose of any changes in taxes made under this law, according to the

official memorandum presented with it, will be to facilitate the investment of foreign funds in German enterprises and to encourage the retention of German capital in the country, as well as the return of domestic capital now invested abroad, and thereby to enlarge and cheapen the supply of credit available for the German economy.

The most recent estimate of the total shortdated debt which has been published with official authority remains that of the Institut für Konjunkturforschung, which was given in the last report. According to this estimate, the volume of foreign funds in Germany, other than long-term credits, amounted at the end of 1928 to about 8,500,000,000 reichsmarks. This figure was not presumed to be more than an estimate; it represented the accumulated balance of funds, other than the proceeds of longterm loans, moving into and out of Germany, as shown in the balance of payments estimates of the Reich Statistical Office. Out of the total it was estimated that 7,000,000,000 reichsmarks were in the form of short-term credits. The Institut, it should be added, estimated a decline of 500,000,000 reichsmarks from the total figure of 8,500,000,000 reichsmarks during the first four months of 1929, but did not indicate the nature of the reduction.

There has been another source of funds from abroad of considerable importance during the past year, though the amount necessarily remains a matter of conjecture. From time to time substantial purchases of shares for foreign account have been made in the German market, offset in part at least by purchases for German account in foreign markets. During 1929 there appear to have been relatively unimportant purchases of shares by foreigners in the open market, but there has been a considerable number of cases where foreign corporations have acquired direct participations in kindred German industries. In some cases these participations have been acquired by an exchange of shares; in others purchases have been made for cash. Sometimes these participations amounted merely to the reestablishment of relations broken by the war; sometimes also they were prompted by the desire of the foreigner to get a foothold in the German market or to utilize a German plant for producing goods for export to neighboring markets; and sometimes the initiative came from the German side as a means of enlarging working capital. A list of the principal new participations in German enterprises during 1929 has recently been published by the Institut für KonjunkturInstitut came to the conclusion that the total amount involved in such participations during 1929 must have equaled or exceeded the amount of German loans publicly issued abroad, that is, about 350,000,000 reichsmarks. In this estimate, it should be observed, no allowance has been made for German participations in foreign enterprises.

The consideration of the economic effects of foreign borrowing belongs to preceding years rather than to the present, and the discussions given in previous reports are not repeated here, except by way of referring to the general function which foreign funds have performed. Without reference to the specific purpose which any particular loan was intended to serve, it is clear that foreign credits as a whole have greatly accelerated the process of German reconstruction, by providing essential funds at a time when the German economy was not yet strong enough to provide them for itself. The proceeds of foreign loans, upon entering into the German economy, supplied the material out of which German labor and enterprise could create new and larger domestic values. and in the four years of active borrowing, considering conditions at the start and the funds then available, there took place a growth of trade and an extension and renovation of plant such as had not been equaled in any previous period of equal length. The sound character of that growth depended, of course, primarily on the magnitude of the supplemental values created, and, secondly, upon the capacity of those values to earn a return in excess of the cost of the borrowed funds. Taken as a whole, and without reference to any individual loan, there is no reason to doubt that the new values created in Germany during the period of the Dawes plan have aggregated several times the amount of the foreign debt incurred. This was manifest a year ago, and the experience of the past year, when the inflow of funds has been reduced to small proportions, amply confirms this conclusion.

2. Foreign exchanges and interest rates.—The first five months of 1929 formed a period when the reichsmark showed pronounced weakness in the foreign exchanges, but the remainder of the year, together with the early part of 1930, has been a period of pronounced strength. The two periods compare, of course, with those mentioned in the previous section, the first covering the months when short-time funds were flowing away from Germany and the second when the reverse current had set in.

Up to the close of the first quarter of 1929,

19367-30----5

bank rate and market rates corresponding with it, the foreign exchanges responded to ordinary economic forces and there was a substantial outflow of funds, reflecting the more profitable use to which money could be put in other markets. In April, 1929, however, forces of another nature intervened to depress the reichsmark still further and to cause very large withdrawals of gold and devisen from the Reichsbank. These forces had their origin in the suspense incident to the work of the experts' committee in Paris, and in the doubts which arose in the second half of April as to whether the conference would succeed in reaching a positive result. Foreign bankers showed more and more disinclination to buy German bills, and late in April there developed some disposition to withdraw deposits then subject to call and to give notice with respect to time deposits. Within Germany a tendency was manifested to convert domestic balances into foreign funds and to postpone the bringing home of balances accruing abroad. There was anxiety to cover open commitments in foreign currencies; and for the first time since stabilization became effective in 1924, some nervousness showed itself with respect to the stability of the currency, and a demand developed among people of small means for notes in foreign currencies. These were quoted for a time at a premium over the rates for telegraphic transfer.

The Reichsbank freely met the demands for foreign exchange as they were made, but it was not until April 25, 1929, that it raised its rate from $6\frac{1}{2}$ per cent (where it had stood since January 12) to 7½ per cent. Subsequently, the Reichsbank took other measures to protect the exchange, which are described in the next section. By the middle of May the turning point had come at the Paris conference, and this gave strong support to the Reichsbank's protective measures. The exchange strengthened rapidly and on May 25, 1929, for the first time since the end of December, 1928, the dollar was quoted below par with the reichsmark, and sterling declined to the computed gold import point.

From the last week in May, 1929, up to the present, with very rare exceptions, the reichsmark, as measured by its position in the foreign exchanges, has been one of the two or three strongest currencies in the world. The preponderant reason, of course, has been the high level of interest rates in Germany as compared with those prevailing in other markets, but the improved balance of trade has also been under the influence of the relatively low Reichs- | a factor of great importance. The foregoing diagram [omitted], showing interest and foreign exchange rates Berlin-New York, illustrates only one interest rate in each of the two countries, a rate which is nearly though not absolutely comparable between the two markets, and is perhaps the least subject to fluctuation of all openmarket rates currently quoted. It will be seen that as a rule, whenever the margin has widened between the Berlin rate and the rate in New York, the value of the dollar in terms of reichsmarks has tended to fall; and, on the other hand, whenever the margin has narrowed, the value of the dollar has tended to rise. It should be understood, however, that during most of 1929, up to the time in October when the intense speculative activity on the New York Stock Exchange came to an end, the rate in New York which exerted the most potent influence was that for stock-exchange call loans. The fluctuations in this rate ranged in the spring between 6 and 20 per cent, and in the summer between 6 and 15 per cent; it was not until October that it fell below 6 per cent.

The high level of money rates abroad, for which the rates current in New York were the principal moving cause, made it necessary for the Reichsbank, if it was to recover the gold and devisen reserves lost in the spring, to maintain its discount rate at 7½ per cent until November 2, 1929, and other money rates in Germany also remained high.

The action which the Reichsbank took to reduce its rate on November 2, 1929, was a recognition of the change in the international level of interest rates, and also of the fact that the position of the Reichsbank in respect of both the amount of its reserves and the demand for its credits had become much easier. The reduction, which was by half a point, left the discount rate at 7 per cent. The Federal Reserve Bank of New York had reduced its rate at the end of October from 6 to 5 per cent, and in November made a further reduction to 4½ per cent. The Bank of England lowered its rate in successive half-point stages from 6½ to 5 per cent, and a number of other European central banks made one or two reductions from the high rates previously in effect. In consequence, the spread between rates for money in Germany and those prevailing in important foreign markets was broader in the final weeks of 1929 than at any time in nearly two years, contrasting with the narrowness of the spread at the close of 1928 and during the early months of 1929.

The very moderate reduction at the beginning of November brought the Reichsbank | already described have produced important

rate to the same level as a year before, but rates in the open market averaged from half a point to one point higher than in the previous year. The special factor exerting pressure on the market was the immense volume of demands from the Reich, the States, and the communes, which reached something of a climax as the turn of the year approached.

In the first few weeks of 1930, consistently with the usual easing of money at that season, there came a decline in money rates which has been carried well beyond the period when a countermovement usually takes place. The Reichsbank, in recognition of this tendency and of the strong foreign exchange position of the reichsmark, has made four further reductions of one-half point each in its discount rate-on January 14, 1930, to $6\frac{1}{2}$ per cent, on February 5 to 6 per cent, on March 7 to 5½ per cent, and on March 25 to 5 per cent, thereby establishing the rate at the lowest level since 1927. Other money rates have declined correspondingly and in February and March averaged less than in the corresponding months of both 1928 and 1929; in April they declined practically to the low level prevailing in 1926 and the early months of 1927. Central bank discount rates and money rates in other countries have also declined since the turn of the year, with the result that the spread between rates in Germany and those abroad is still almost as wide as during the summer and autumn of 1929.

In general, and in summary of the foregoing, it appears that interest rates in Germany from the first quarter of 1929 until the end of the year were higher on the whole than in corresponding seasons since the end of 1925, and that the decline since the beginning of 1930 has been largely a reflection of money-rate movements in other countries. The high level of interest rates in Germany has been due to a complex set of conditions, partly international and partly internal. The forces originating abroad appear now to have spent themselves, but the most disturbing of the internal forces, that arising from the demands of the public authorities, largely remains. It is manifest that high interest rates increase the cost of every business transaction involving the use of credit and thus operate as a direct burden on the development of the economy. There can be no doubt that in this way the disorder in the public finances has had a restraining effect on business, and that it would give great relief to the whole structure of credit and business if effective measures of reform were to be taken.

3. Reichsbank reserves and credit.—The forces

changes in the volume of the Reichsbank's reserves and in the amount of Reichsbank credit employed. The period when these forces had their most acute effect centered on the month of May, 1929, when the reserves fell to the lowest point since the middle of 1926, and the volume of Reichsbank credit in use rose to the highest point since stabilization.

In the first weeks of 1929 the Reichsbank's stock of gold and devisen eligible for reserve against notes showed a slight rise, thereby continuing the movement which had proceeded with great vigor during most of 1928. On January 23, 1929, the reserves stood at 2,893,-000,000 reichsmarks, the largest total up to that time on any reporting date since stabilization and a figure not to be attained again for more than a year. From the end of January, 1929, onward to May 7, 1929, there was a progressive decline, which was greatly accelerated toward the end of the movement. Without counting supplementary amounts of devisen taken from its unreported stock (which includes among other items foreign bills of maturities longer than are legal for currency reserves), the decline in the Reichsbank's gold and devisen holdings amounted to 1,074,000,000 Thereafter, in response to the reichsmarks. measures which the Reichsbank took to protect its position, and reflecting also the prospect of agreement in the experts' committee at Paris, a contrary movement began which has continued fairly consistently up to the present, favored by the differential in interest rates which has prevailed between German and foreign markets. By the end of December, 1929, the reserves stood at 2,687,000,000 reichsmarks, a rise for the period of \$68,000,000 reichsmarks, and by the middle of March, 1930, the loss incurred during the preceding vear had been fully recovered. Since that time, gold reserves have continued to increase while reserves of reported devisen have been reduced, and as a consequence total reported reserves have shown little change. This leaves out of account any changes which may have occurred in the devisen not reported in the periodical condition statements of the Reichsbank. But according to its annual report, the Reichbank's stock of such devisen on December 31, 1929, stood at 409,000,000 reichsmarks, somewhat higher than the year before, and there are indications that the unreported holdings have since been increased, in order to obtain the benefit of the higher yield that can be secured from bills of longer maturities.

During the period of decline in the spring of 1929 the Reichsbank sold devisen to the market freely upon demand. Its sales of gold, made for the purpose of replenishing its holdings of devisen, the Reichsbank carried out on its own account in the main European and overseas financial markets. These sales had the practical result of preventing the purchase and shipment of gold from Germany on private account. During the subsequent period of rise, the Reichsbank both bought devisen when offered at favorable rates and purchased gold when the latter was delivered to it at its main office in Berlin or at any of its branches. As a matter of financial practice, the Reichsbank reserved to itself full discretion as to the amount of devisen it was prepared to buy and the price it was prepared to pay. The gold received during the summer and early autumn was derived chiefly from the British market, representing in part gold newly shipped from South Africa. Later in the year, gold was received from Argentina, mostly in the shape of pre-war German gold coins, and at the very end of the year from the United States. During the first five months of 1930, further gold was purchased in London for German account, partly new gold from South Africa and partly gold offered in that market by Spain. Substantial shipments of gold have also been received from France, the first since the war.

The volume of Reichsbank short credit outstanding at the end of May, 1929, was larger than at any time since stabilization, as appears in the foregoing diagram and table [omitted]. The figures given are the sum of three items currently shown in the Reichsbank statement, namely, bills and checks, Reich treasury bills, and collateral loans. For the period up to the middle of 1926 the figures have been adjusted as explained in previous reports, on such a basis as to afford a fair comparison with the figures of later dates.

In addition to the pressure which its 7½ per cent discount rate exerted on the volume of credit, the Reichsbank for a brief period in May and early June, 1929, resorted to the emergency measure of rationing credit, a means which it had employed in the period of recovery from the inflation and had found to be effective. By the middle of June, when conditions had reassumed a more normal aspect, the Reichsbank was able to abandon this measure. From then on, with the inflow of gold and devisen from abroad, the volume of short credit declined month by month, until by the end of November

the total was some 700,000,000 reichsmarks less than in May, though still somewhat higher than at the end of November, 1928.

During the last weeks of 1929 there appeared to be some probability that the year-end settlements, complicated by the additional requirements of the Reich for funds in the amount of about 400,000,000 reichsmarks, would lead to a new expansion of credit. But the actual increase in the use of Reichsbank credit at the end of the year was about the same as in previous years, indicating that the rise was largely of a seasonal nature. The total in fact was less than at the end of 1927, and was smaller also than during the period of strain in the spring of 1929. In the first weeks of the new year there was a prompt liquidation of Reichsbank credit, at first corresponding in volume to that of a year before and later exceeding it, and this has been recognized in the successive reductions of the Reichsbank's discount rate. At the end of April, 1930, the volume of Reichsbank outstanding short credit was about 70,000,000 reichsmarks lower than at the end of January, which is usually the seasonal low point for the year.

The Reichsbank, as the Young plan comes into force, is in a remarkably strong position, and its discount rate, at 5 per cent, has been reduced to a point touched only once before since stabilization. Its reserves of gold and devisen stand at the highest levels ever reached, and the amount of its credit in use ranges well below the levels of recent years.

4. Public credit.-The change in the position of the public authorities from large lenders to large borrowers has been a fundamental element in German credit conditions. As will be recalled from the reports during the first three years of the Dawes plan, there existed up to the middle of 1927 a more or less acute problem centering on the administration of the large funds at the disposal of the public and quasi-public authorities. These funds were frequently so invested and managed as to counteract Reichsbank policy, and they were a fertile source of encouragement for programs of public spend-This phase passed as spending exhausted ing. the free balances and the Reichsbank was able to extend its authority. In place of it came a new phase, that of severe pressure on the credit market by reason of the immense demands of the public authorities for loans.

As has been seen from the extended discussion in the chapters on the German budget and the public debt, the Reich, the States, and the communes with over 10,000 inhabitants have incurred since stabilization (up to September | be in prospect for dealing with the short-dated

30, 1929) nearly 7,100,000,000 reichsmarks of funded debt and about 4,800,000,000 reichsmarks of floating debt. Of these amounts, the figures show that about 2,400,000,000 reichsmarks of funded debt and about 2,700,000,000 reichsmarks of floating debt were incurred in the 18 months from March, 1928, to September, Figures for December 31, 1929, which 1929.are available only for the Reich, the States, and the communes of 100,000 or more inhabitants, show a further increase in the debts of these groups of authorities, in the three months since the end of September, of about 150,000,000 reichsmarks in the funded debt and about 850,000,000 reichsmarks in the floating debt. Taken by themselves and without further comment, the mere size of these figures goes far to explain the strain on the credit markets and the spread of interest rates in Germany above those prevailing in foreign financial centers.

It is, of course, the floating debt which has produced the greatest difficulties. Efforts to convert it into long-term debt have crowded the investment markets, and again and again have stifled them before they were able to acquire any reserve strength. Moreover, the rapidity of its growth, particularly during 1929, has put severe pressure on the entire credit system. Nominally this unfunded debt is short-dated, but much of it is short only in the sense that it is awaiting some future opportunity for conversion. In default of conversion, which its very size and growth have tended to prevent, it backs up as a burden on the banks and the other sources of short credit.

High interest rates operate to restrict commercial borrowing by making it more expensive and thus less profitable. But the same rule does not work with anything like the same efficiency in the case of public borrowing. Only in the long run, when high fixed charges become a burden on the tax budget, does the rate exert a direct pressure on the use of credit by the public authorities. Some communes during the autumn of 1929 appear to have paid from 11 to 14 per cent interest on loans of nominally short duration. Long-term bonds offered by representative German cities in the course of 1929 frequently carried an effective yield of 9½ to 9¾ per cent. The effect of such rates, of course, was to establish a competition for funds which private borrowers, dependent upon profits for the means of paying the service of loans, could not meet.

There is no occasion, in view of what has been said in preceding chapters, to outline the measures which have been taken or which may

debt of the public authorities. This overhanging volume of debt remains one of the most pressing problems not merely of public finance but of the credit markets; and just as the rapid growth in the floating debt has been the factor which strained credit most in the past year, so would an effective programme for its reduction relieve the German credit situation as a whole.

5. Banking and other short-term credit.— The pressure which the weight and immobility of the short-dated debts of the Reich, the States and the communes have exerted on the short-term credit market has been assuming cumulative importance since 1927. In addition, there have been periods of acute tension from other causes, as for instance in April and May, 1929, when funds were flowing away from Germany during the uncertainty as to the outcome of the meeting of the experts for the final settlement of the reparation problem.

In preceding years, the increase in the volume of credit reported by the leading German banks has been more or less directly associated with an inflow of funds from abroad. In 1929, as has already been observed, foreign funds were scarce; during the first five months of the year the flow of short-term funds was away from Germany, and taking the year as a whole, the net inflow of such funds was apparently much smaller than in previous years. Accordingly, more than at any time in the past three years, the German banks during 1929 had to rely upon domestic resources for their capacity to increase the volume of credit.

The following table gives the latest available data, with comparable figures for previous dates, as reported by certain large private banks which as a group represent about threequarters of the total private banking strength of Germany. The number of banks whose figures are included in the table was reduced from six to five early in 1929 by the amalgamation of the Commerz-und Privatbank and the Mitteldeutsche Creditbank, and again to four in the autumn of 1929 by the amalgamation of the Deutsche Bank with the Disconto-Gesellschaft, with which were incorporated at the same time four smaller institutions formerly related to one or the other of them. The figures of the four smaller banks for earlier dates have been introduced into the above table and thus it is not precisely comparable with similar tables printed in previous reports. Figures are now currently reported by certain other large banks, but are not available for earlier years and therefore are not included in this compilation.

LARGE	Private	BANKS
[In mil	lions of reich	ema r ks]

	Jan. 1, 1924		Dec. 31, 1928		Mar. 31, 1929	
ASSETS						
Cash, amounts due from						
clearing banks and banks of issue	118	358	410	382	231	219
amounts due from banks		000		002	-01	
and bankers	527	1, 108	1,278	1, 171	1,240	1,024
Bills and treasury notes	. 51	2,001	2,732	2,809	2,661	3, 018
Advances on merchandise	76	853	1, 527	1, 728	1, 567	1, 664
Advances on stocks and	21		700	105	655	FOF
bonds Sundry loans, total		577 4.059	$709 \\ 4,629$	495 5, 207		505 5, 724
(a) On stock exchange	000	4,009	4,029	0,201	5, 067	0,729
securities	Ì		1,234	1,291	1,209	1, 367
(b) Other			3, 395	3, 916	3, 858	4, 357
(b) Other Bank buildings	181	181	183	183	176	183
LIABILITIES						
Capital stock	452	527	527	520	505	520
Reserves	189	267	278	295	288	295
Deposits	1, 187	7,462	9,091	9,349	9, 175	9, 630
Customers' credits with				· · ·		,
other banks		692	1,328	1,625	1, 317	1, 596
Acceptance liabilities	2	433	458	473	475	470
Long-term liabilities		189	189	189	189	189

In the year 1929 deposits of the reporting banks covered by the table showed an increase of about 260,000,000 reichsmarks, as compared with increases in the years 1928 and 1927 of about 1,630,000,000 and 1,320,000,000 reichsmarks, respectively. The increase during 1929 was not spread evenly through the year. During April and May there was a rapid decline in deposits, reflecting the suspense over the outcome of the Paris conference. The subsequent upward movement did not fully compensate for this decline until nearly the end of the year.

Another item on the liability side of the account gives some measure of the reliance on foreign credit for the purpose of carrying goods in process of distribution. This item, listed as customers' credits with other banks, represents acceptance credits granted by foreign banks to German firms through the medium of German banks. It increased during 1929 by about 300,000,000 reichsmarks, as compared with an increase of about 630,000,000 reichsmarks in 1928.

Up to the end of 1928 the volume of treasury notes of the Reich and the States held by the banks had not been in large amounts. On December 31, 1928, the combined item representing bills and treasury notes amounted to about 2,730,000,000 reichsmarks, of which less than 150,000,000 reichsmarks consisted of treasury notes. On December 31, 1929, the combined item stood at about 2,810,000,000 reichsmarks, of which 380,000,000 reichsmarks consisted of treasury notes. It follows from these figures that the banks' holdings of commerical bills declined slightly during the year, whereas their holdings of treasury notes, in consequence of the pressure for credit from the public authorities, increased by about 150 per cent.

The other changes among the assets of the banks are self-evident except in one or two particulars. The decline in the item representing amounts due from banks and bankers is largely due to the consolidation of the Deutsche Bank and the Disconto-Gesellschaft, which had the effect of eliminating interbank deposits between the several banks. The only other item which showed any marked decline during the year was the item representing advances on stocks and bonds, chiefly loans to brokers. This decline reflected the prevailing inactivity of the share markets.

In the first three months of 1930, the statements of the banks included in the table have reflected the easier conditions prevailing on the money market. Deposits showed an increase of 280,000,000 reichsmarks, or more than in the entire year 1929, and on March 31, 1930, reached a record figure of 9,630,000,000 reichsmarks. Customers' credits with other banks, together with its corresponding asset item, advances on merchandise, declined slightly, reflecting in part seasonal influences and in part the general recession in trade. Corresponding to the growth in deposits, the banks' loans and advances, including those on stock exchange securities, also increased. Their holdings of treasury notes continued to increase and at the end of March, 1930, amounted to over 610,000,000 reichsmarks, while holdings of commercial bills showed a further slight decline.

The following tables show combined statements for 21 State and provincial banks, the chief one of which is the Prussian State Bank or Seehandlung, and 17 Girozentralen, the central institutions through which the various savings offices and communal banks are interrelated. End-of-year statements for these banks are not published. The compilation for March 31, 1930, differs slightly from those for earlier dates, as one relatively small provincial bank has recently been amalgamated with one of the Girozentralen.

TWENTY-ONE STATE AND PROVINCIAL BANKS INCLUD-ING SEEHANDLUNG

[In millions of reichsmarks]

	Mar. 31, 1928	Mar. 31, 1929	June 29, 1929	Oct. 31, 1929	Nov. 30, 1929	Mar. 31, 1930
Cash and amounts due from banks and bankers. Bills and treasury notes	374 467	647 408	428 450	383 399	421 389	447 568
Loans and advances, total. (a) on stock exchange	1, 631	1, 844	1, 922	1, 884	1, 876	1, 741
securities (b) other	256 1.375	274 1.570	246 1,676	243	240	245
Long-term loans	903	1, 447	1, 514	1, 596	1,636 1,608	1,496 1,683
Deposits	2, 538	3,067	3,004	2, 885	2, 907	2, 982 1, 542

SEVENTEEN GIROZENTRALEN

[In millions of reichsmarks]

	Mar. 31, 1928	Mar. 31, 1929	June 29, 1929	Oct. 31, 1929	Nov. 30, 1929	Mar. 31, 1930
Cash and amounts due from banks and bankers. Bills and treasury notes Loans and advances, total. (a) on stock exchange	469 168 832	630 244 1, 104	313 154 1, 157	339 129 1, 142	383 129 1, 101	449 221 1, 170
(b) other Long-term loans Deposits Long-term liabilities	70 762 1, 169 1, 630 1, 047	70 1, 034 1. 902 2, 157 1, 788	102 1, 055 1, 932 1, 832 1, 788	92 1, 050 1, 951 1, 805 1, 806	87 1, 014 1, 953 1, 820 1, 802	68 1, 102 2, 072 2, 038 1, 915

The principal change in the statements of the public banking institutions during the year ending March 31, 1930, relates to their longterm loans, which rose somewhat more than their long-term liabilities. Deposits of both groups of banks declined during the year, as did also their cash and amounts due from banks and bankers, while their short-term loans and investments taken as a whole showed little change.

It should be noted in connection with the foregoing table, as well as with that for the State and provincial banks, that the reporting system was changed in March, 1928, and that comparative figures before that date are not available.

The volume of bills drawn and circulating in Germany has latterly declined. In part this reduction represents a decline in the prices of commodities, but it may also reflect some falling off in the number of bills drawn. The following table [omitted] reproduces figures published by the Institut für Konjunkturforschung.

During the spring months of 1929, in connection with the withdrawal of deposits from the banks, there was a large movement of bills away from the commercial banks and into the hands of the Reichsbank and the minor banks of issue. Subsequently, as conditions righted themselves, this movement was corrected and the portfolios of the banks increased; but the volume of bills circulating in the open market continued to decline. In the foregoing table [omitted], the figures showing bills held by the banks include bills held by numerous institutions in addition to those whose condensed statements have already been given. Figures are not yet available for the period after September, 1929.

The volume of rediscountable treasury bills of the Reich outstanding during 1929 and the first quarter of 1930 has remained at or near the legal maximum of 400,000,000 reichsmarks. Up to the spring of 1929, these bills were fairly consistently in the hands of the banks, other institutions and the public except over short periods at the month-end settlements, but during April and May, 1929, a substantial volume came into the hands of the Reichsbank under rediscount. From midsummer until December the volume of treasury bills under rediscount rarely exceeded 100,000,000 reichsmarks, but at the end of December the volume so held by the Reichsbank rose temporarily to 241,000,000 reichsmarks, the largest amount reported up After the turn of the year the to that date. Reichsbank's holdings of such bills promptly declined and during the first quarter of 1930 were practically negligible.

The large volume of Reich treasury bills in the market has had an important influence on the private discount market. The volume of prime bankers' acceptances dealt in at the private discount rate has been estimated at between 800,000,000 and 900,000,000 reichsmarks, about twice the amount of rediscountable Reich treasury bills outstanding. During 1929 the private discount rate, which applies to Reich treasury bills as well as to prime bankers' acceptances, remained generally close to the Reichsbank discount rate, and during the spring was identical with it. Later in the summer the private discount rate was reduced and at one time was as much as three-eighths of a point below the Reichsbank rate; but in the autumn, after the Reichsbank rate was lowered to 7 per cent, the margin between these rates was never over one-eighth and often the two rates were identical. In the first months of 1925, is that covering wages and salaries, which

1930, with the easing of money which then took place, the private discount rate declined until at times it was more than half a point below the Reichsbank rate, and early in May there was a spread of a full point.

6. National income and the formation of capital.-The German national income, according to figures recently published by the Institut für Konjunkturforschung, stood in 1929 at a level of about 70,000,000,000 reichsmarks, that is to say, about 16,000,000,000 reichsmarks, or 30 per cent, higher than in 1925. If allowances are made for the growth of the population in intervening years, and for changes in the general price level, the national income on a per capita basis has risen by about 15 per cent. This increase illustrates the progress made up to the present, notwithstanding the almost continual shortage of loanable funds and other difficulties, in rebuilding the German economy after the inflation. Considerable as this progress has been, the level of the per capita income of 1913 has not yet been reached. The Institut has calculated the index figure for that year, which takes account of changes in prices and population, at 120 as compared with 100 in 1925 and 115 in 1929.

GERMAN NATIONAL INCOME

[In billions of reichsmarks]

	1925	1923	1927	1928	1929
A griculture Trade and industry. Rents Income from capital Pensions Wages and salaries	.5 1.4 1.6	3.3 11.7 .6 1.5 1.9 3.5	3.5 12.9 .7 2.2 2.2 38.8-39.4	3. 4- 3. 6 13. 0-13. 2 . 8 2. 8 2. 6 43. 6-44. 1	3. 4- 3. 6 13. 1-13. 3 .8 3. 3- 3. 4 2. 6- 2. 7 44. 5-45. 5
Total of pri- vate income Income earned by public under- takings	53. 3 1. 0	54. 5 1. 7	60. 3-60. 9 1. 7- 1. 9	66. 2–67. 1 1. 8– 2. 5	67. 7–69. 3 1. 8– 2. 5
Total Per capital income (in reichsmarks)	54. 3 870	56, 2 895	62. 0-63. 0 980-1, 000	68. 0–70. 0 1, 070–1. 100	69. 0-72. 0 1, 080-1, 125

The foregoing table, which reproduces the estimates prepared by the Institut für Konjunkturforschung, is the first detailed estimate of the national income which has issued from any official source since the Dawes plan went into effect.

The increase from the level of 54,300,000,000 reichsmarks in 1925 to a level around 70,000-000,000 reichsmarks in 1929 has been spread through each one of the seven categories given in the table. The preponderant item, both in total now reached and in the increase since

NOVEMBER, 1930

show a rise of about 11,000,000,000 reichsmarks in the five years. Income from these sources in 1929 comprised 64 per cent of the national income as compared with less than 50 per cent in 1913.

The second most important category, that of trade and industry, represents the income derived by proprietors, both individual and corporate, from their respective undertakings, but does not include dividends on shares of stock. Except for a moderate increase in 1927, a year of rising prices and large business activity, there have been comparatively slight changes in the annual figures, which in 1929 stood about 13 per cent higher than in 1925. A partial explanation is to be found in the expansion of an associated category, that covering income derived from the ownership of capital. This category includes income derived as dividends and interest on securities (except for amounts going abroad or payable to companies) and interest on mortgages, bank deposits and savings. This item has increased about 2,000,000,000 reichsmarks, and stood in 1929 at an amount somewhat more than double that of 1925. This growth is due in part to revalorization of prestabilization securities, but mainly it reflects the progress made in restoring the internal credit system destroyed by the inflation, and it provides some measure of the increase in the internal fund of investment money. In 1925 income derived from such sources amounted to only 2.6 per cent of the total national income, whereas now the proportion is about 5 per cent. In 1913, however, income from investments represented a little more than 11 per cent of the national income, a difference from the present which illustrates the effects of the inflation, and of the change in the direction taken since the war in the distribution of income.

The income of agriculturalists, like that of proprietors of industrial and trading enterprises, has increased only in small proportions since 1925. The Institut's estimates for 1928 and 1929 are still provisional, but it concludes that the changes since 1927 have not been considerable. The increase in income from rents derived by private persons, a relatively unimportant item in the total national income, has been retarded by the rent restrictions still in force, and since 1927 has been almost stationary. The gradual increase in income derived from pensions is due to the growth of social insurance payments. This item includes old age, accident, invalidity and employees' pensions, and a part of the unemployment insurance benefits. It does not include | tives, which are published occasionally.

the part of the unemployment insurance benefits representing the contributions of the employees themselves, which are included in the income of labor, nor does it include the Reich contributions to unemployment insurance, or annuities to indigent persons or war pensions, because the great bulk of these come out of public funds and are consequently shown in the income of taxpayers elsewhere.

The final item in the table, that for income earned by public undertakings, covers the income derived by the Reich, the States and communes from profit-earning enterprises owned by them, and from real estate or other capital assets. The total has about doubled since 1925, and indicates among other things the growth in the size and output of publicly owned electric light and power plants.

The foregoing estimates of the national income have a bearing, of course, on the annual formation of capital, but without supplementary information it is impossible to interpret one in terms of the other. It is true, as has already been indicated, that the growth in the income derived from capital implies an increase in the national fund available for investment. But this concerns only one side of the question, and leaves out of account other items of great importance. An estimate of current capital formation, if it had been made, would have been useful and timely in the present state of the German economy, and fully equal in importance to the estimates of income now published. It will be recalled in this connection that the estimates of capital formation prepared by the Reichs-Kredit-Gesellschaft, which were based upon a calculation of the excess of production over consumption, have been discontinued. They ceased with the estimates for the years through 1927, which were described in the interim and annual reports of the Agent General for 1928.

In default of any comprehensive official estimate of capital formation in Germany, it is possible to deal only with such individual evidences of it as are currently published in terms of figures. Heretofore only two such series have been regularly reported, the savings deposited with the savings offices or Sparkassen, and the amounts paid to life insurance companies in the shape of premiums on policies. Since the last report a third series of figures has become available, namely, the savings deposits of agricultural cooperatives, and in this report figures are also given for the first time showing deposits with tradesmen's coopera-

It appears from the figures reported by the Sparkassen that savings deposits with them increased during 1929 by an average of about 169,000,000 reichsmarks a month, a rate somewhat smaller than during 1928, when the Sparkassen reported the largest growth since stabilization. In May, 1929, the month-tomonth increase fell to 40,000,000 reichsmarks, reflecting a temporary but widespread hesitation on the part of the public to put savings funds in bank during the uncertainty as to the outcome of the reparation negotiations in Paris and the pressure on the reichsmark in the foreign exchanges. But taking the year 1929 as a whole, the increase in savings deposits amounted to 2,026,000,000 reichsmarks, as against 2,292,000,000 reichsmarks in 1928, and 1,607,000,000 reichsmarks in 1927. It is noteworthy that whereas 561,000,000 reichsmarks of the increase reported for 1929 was derived from interest and the revalorization of prestabilization savings deposits, the total so derived in 1928 was about 300,000,000 reichsmarks. Thus the actual amount of new funds placed with the Sparkassen in 1929 was smaller than in the year before, a decline attributable in part to competition from other savings depositaries, which has been made all the stronger by the financial difficulties of some of the communal governments and of some of the enterprises owned and operated by them. The Sparkassen have reported for the first quarter of 1930 further increases in savings deposits, amounting to a total of 621,000,000 reichsmarks, including interest credited and revalorized deposits.

At the end of 1929 the total savings deposits in the Sparkassen amounted to about 9,000,000,000 reichsmarks, as compared with 19,700,000,000 reichsmarks of such deposits at the end of 1913. In this connection it is interesting to observe that the rate of increase in 1913 was about 84,000,000 reichsmarks a month, and that 61 per cent of that increase was derived from interest credited, leaving about 33,000,000 reichsmarks a month to represent fresh savings, as compared with 122,000,000 reichsmarks a month in 1929. After making all due allowance for the higher price level now prevailing, it appears that the saving capacity of the Sparkassen depositors has much increased as compared with the period before the war.

In addition to the Sparkassen, the large commercial banks now receive savings deposits from small depositors. Since November, 1927, the members of the Stempelvereinigung (the Berlin Bankers' Association) have been ac-

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cepting savings deposits, on which the rate of interest was 6 per cent from April, 1929, to February, 1930, when it was reduced to 5 per cent. This rate is the same as the usual rate on savings deposited with the Berlin Sparkassen. Savings deposits are not separately shown in the published statements of the commercial banks, and their total accordingly can not be estimated.

A third class of savings deposits, those of the leading German agricultural cooperative associations, has recently been reported for the period up to June 30, 1929.

DEPOSITS WITH AGRICULTURAL COOPERATIVES [In millions of marks or reichsmarks]

	Savings deposits	Current- account deposits	Total
1913-Dec. 31. 1924-Dec. 31. 1925-Dec. 31. 1926-Dec. 31. 1927-Dec. 31. 1928-Dec. 31. 1928-Dec. 31. 1929-June 30.	227, 3 450, 4 690, 8	231. 9 75. 0 180. 0 276. 4 276. 0 316. 0 318. 1	2, 251. 6 156. 5 407. 3 726. 8 966. 8 1, 371. 8 1, 488. 1

The figures shown in the foregoing table, published by the Institut für Konjunkturforschung, represent returns from some 18,000 individual cooperative groups belonging to the two most important associations, the National Association of German Agricultural Cooperatives and the General Association of Raiffeisen Cooperatives. About 60 per cent of the members are engaged in strictly agricultural occupations and the remainder are made up chiefly of other residents of rural districts. The latest published figures of deposits cover the first half of 1929 only, and so do not take account of deposits made during the marketing of the 1929 The increase in savings deposits for the crop. six months' period was 114,000,000 reichsmarks, as against 365,000,000 reichsmarks for the whole of 1928 and 240,000,000 reichsmarks for The total volume of savings deposits 1927.in the agricultural cooperatives on June 30, 1929, was about 58 per cent of the total at the end of 1913.

DEPOSITS WITH TRADESMEN'S COOPERATIVES [In millions of reichsmarks]

	Savings deposits	Checking and current account deposits	Total
1926—Dec. 31. 1927—Dec. 31. 1927—Dec. 31. 1928—June 30. Dec. 31. 1929—Feb, 28. Apr. 30. June 30.	429. 3	305. 6	734.9
	622. 5	339. 2	961.7
	780. 4	330. 6	1,111.0
	909. 2	372. 7	1,281.9
	987. 5	361. 1	1,348.6
	1, 017. 2	358. 1	1,375.3
	1, 038. 5	365. 8	1,404.3

The figures given above, showing the deposits in the tradesmen's cooperative banks, were compiled by the Reich Statistical Office from statements of about 1,300 individual institutions. In the first half of 1929, savings deposits with these banks increased by a somewhat smaller amount than in the same period of 1928— 129,000,000 reichsmarks, as compared with 158,000,000 reichsmarks in the previous year. The total increase in 1928 amounted to 287,-000,000 reichsmarks, as compared with less than 200,000,000 reichsmarks in 1927 and 1926 for closely similar groups of reporting cooperatives.

Some further indication of the volume of saving is to be found in the amounts paid to lifeinsurance companies in the shape of premiums on policies. While the premiums paid reflect the course of saving through life insurance, they are not in themselves a measure of capital formed; this can be ascertained only by the growth of insurance reserves, figures for which are not available.

LIFE INSURANCE IN PUBLIC AND PRIVATE INSTITUTIONS

[In millions of reichsmarks]

	Amount of insurance in force	Premiums paid during 2-month periods	
1925 average	12,076 14,683 10,318 13,147 13,598 14,060 14,556 14,928 15,323	54 69 101 120 83 103 115 122 114 124 124 127 118	
1930—Feb. 28	15, 946	131	

The amount of premiums paid, as reported by the larger public and private institutions, averaged 60,000,000 reichsmarks a month in 1929 as compared with a monthly average of 50,000,000 reichsmarks in the year 1928 and of about 35,000,000 reichsmarks in 1926. The amount of insurance in force increased by 2,488,000,000 reichsmarks in 1929 as compared with 2,829,000,000 reichsmarks in the preced-The increase in insurance is due ing year. principally to a growth in the number of smaller policies, as the average amount of each policy decreased from about 1,760 reichsmarks at the end of 1927 to about 1,370 reichsmarks on December 31, 1929. In the first two months of 1930 there was a further increase of insurance in force and of premium payments.

The various public social insurance institutions report periodically their receipts, disbursements, and net capital assets, and the increase in their assets may be taken to represent an increment in the supply of new capital. Details of these figures for the years 1924 to 1929 are given on pages [omitted]. Excluding the unemployment insurance institute, which is in debt to the Reich, the increase in net capital assets in 1929 amounted to about 690,000,000 reichsmarks as compared with an increase of about 780,000,000 reichsmarks in 1928 and about 650,000,000 reichsmarks in 1927.

7. New capital issues and the security markets.-Like the market for short credit, the German market for capital issues has been overloaded with a mass of loan applications far too large to be satisfied out of existing resources. This overloading of the market is not a new development. On the contrary, the volume of actual and potential offerings has exceeded the absorptive capacity of the market ever since stabilization. This was inherent in the situation which Germany faced after the wastage of the war and the inflation, for it was necessary when those periods closed to begin over again with the accumulation of investment funds. At the outset the accumulation was slow and additions to the supply were limited; but the demand, which was already active when accumulation began, has consistently kept ahead of the supply. And, whenever for seasonal reasons or otherwise the capital issues market has shown signs of vitality, it has been stifled under a mass of loan applications. One major factor in the demand, which of itself goes far to explain the pressure on the market, has been the extremely heavy and persistent solicitation of credit on the part of the public authorities. During 1929 this was particularly intense and inopportune.

The following table is made up from the most recent figures published by the Reich Statistical Office, and carries corrections in earlier statistics; accordingly it differs in minor particulars from tables printed in previous reports. It appears that during the three years after 1925, the domestic market was able to absorb about 4,300,000,000 reichsmarks of capital issues a year. While the annual totals were approximately identical, the market in each year was subject to periodic interruptions, frequently lasting for several months. In 1929, the interruption began with the month of February, and during the remainder of the year the market was narrow, with the result that in the year as a whole the volume of domestic capital issues amounted to about 2,500,000,000 reichsmarks, or about 41 per cent below the total for 1928.

DOMESTIC CAPITAL ISSUES

[In millions of marks or reichsmarks]

	1907– 1913 yearly aver- age	1925	1926	1927	1928	1929	1930, Jan Feb.
German bonds: Reich, States, com-							
munes, etc Associations under	1, 172	15	654	698	456	398	45
public law Real estate credit in- stitutions, (Firover- bände and related institutions.	4	22	364	16	207		2
(a) Communal bonds (b) Mortgage	116	38	4 65	349	489	248	52
bonds Private concerns	788 400		1, 628 322	1, 597 181	1, 459 294		$281 \\ 19$
Total bonds German shares	2, 480 740	994 656		2, 841 1, 438		1, 543 964	399 197
Total German se- curities Foreign securities	3, 220 472	1, 650	4, 421	4, 279 58	4, 244 14	2, 507 19	596
Grand total	3, 692	1, 650	4, 421	4, 337	4, 258	2, 526	596

Several items in the table call for specific comment. The only category of capital issues which in 1929 approximated the volume of the previous year was that representing bonds issued by the Reich, the States, and the communes, to the total amount of about 400,000,-000 reichsmarks. The principal issue included in the list was that of the Reich, offered in May, 1929, in the amount of 300,000,000 reichsmarks, of which, however, only about 180,000,000 reichsmarks were subscribed. The terms of this issue, which was described in the interim report, included numerous tax exemptions, a coupon rate of 7 per cent and an offering price of 99. The offering was made at a time of uncertainty as to the outcome of the Paris conference, and its failure is to be explained partly on that account. But its unusually attractive terms, and the high yields on other issues of the public authorities, particularly on communal bonds, set a standard which made private borrowing still more difficult and expensive.

In addition to long-term obligations publicly offered for sale on the market, the Reich issued during the past year to claimants under the war damage liquidation law of March 30, 1928, a large volume of war damage liquidation debt certificates. Most of these certificates have in turn been offered for sale on the open market by the recipients, and thus have absorbed some

of the funds available for investment. By March 31, 1930, a total of about 1,000,000,000 reichsmarks of these certificates had been issued by the Reich, and they have been selling on the market at an appreciable discount below their nominal value. Up to late in 1929 they were bringing a return to the purchaser of about 10 per cent or even higher, depending upon the date of maturity; but more recently, with the general easing of money, the rate of return at prevailing prices has diminished to between 8 and 9 per cent.

The pressure exerted on the market by the demands of the public authorities had the effect during 1929 of excluding practically all offerings of bonds by private concerns, and during the whole year private issues amounted to only 7,000,000 reichsmarks. Under the conditions prevailing in the bond market, private enterprises adopted the alternative of issuing shares, a certain portion of which passed into foreign hands, some in connection with financial and trade agreements made with foreign corporations, and others through the medium of German banks. Altogether, the new offerings of shares were relatively large, but still considerably below the offerings during 1928.

There was a marked falling off during 1929 in the volume of mortgage bonds issued by the real estate credit institutions. These obligations, known as Pfandbriefe, are secured by mortgages on real estate, including agricultural land, and are issued from time to time and at varying rates according to the market. Pfandbriefe, ordinarily popular with the German investor, provide a fair index of the condition of the market as a whole. During 1929 issues of Pfandbriefe were about 40 per cent smaller than in the preceding year.

The narrowing of the market for mortgage bonds obliged the real estate credit instutions to curtail materially their long-term loans to borrowers. According to figures assembled by the Institut für Konjunkturforschung, the net increase during 1929 in outstanding long-term loans made by these institutions amounted to about 810,000,000 reichsmarks on city and agricultural mortgages and 357,000,000 reichsmarks to the communes, as compared with 1,624,000,000 reichsmarks and 613,000,000 reichsmarks, respectively, in 1928. It is interesting to note that most of these long-term loans granted to the communes were made by credit institutions "of public-law standing" that is to say, by institutions operated by or in close relation with the public authorities. The mortgages during the year in the amount of 952,000,000 reichsmarks as against 1,055,000,-000 reichsmarks in 1928, and also lent 480,000,-000 reichsmarks to the communes as compared with 346,000,000 reichsmarks a year ago.

Since the beginning of 1930 the general easing of money rates has brought some degree of relief to the long-term market as a whole, though not in the same proportion as for short-term Issuing banks which at the end of 1929 funds. had considerable amounts of unsold securities on their shelves have been able to effect a better distribution, and the output of new issues has also increased. In the first two months of 1930 new offerings of mortgage bonds were larger than for any two months since the beginning of 1928; and there were several offerings of communal obligations, mostly of three to five years' maturity. There were also a few small to moderate-sized industrial issues of both bonds and shares.

Consistently with the conditions prevailing during 1929 on the market for new capital issues, the prices of outstanding issues declined. Of the three principal classes of bonds, Pfandbriefe were the least affected, and at prices prevailing in December, 1929, standard issues yielded 8.17 per cent as against 7.88 per cent a year before. After the turn of the year there was a moderate rise in the market prices of fixed-term obligations, and at the beginning of May, 1930, standard issues of Pfandbriefe were selling on about a 7.8 per cent basis. The prices of other classes of bonds were also somewhat higher, including various State, city, and industrial issues. The Reich 6 per cent loan of 1927, the price of which had been officially supported at 87.50 for many months, declined slightly in February when the support was relaxed, but rose later and at the beginning of May was quoted at 87.80, while the Reich 7 per cent loan of 1929 was selling at the beginning of May about 2 points over par.

Though the stock markets were weak and inactive during 1929, there was no sharp drop of the nature observed in other markets. The decline, on the contrary, was gradual and speculation on the whole was absent. The average return on shares quoted on the Berlin Bourse at prices prevailing on December 31, 1929, was 6.58 per cent as compared with 4.99 per cent at the end of December, 1928. The difference was due practically in full to the fall in prices, inasmuch as dividends remained substantially unchanged. In the first half of January there was a marked rise in share prices on the Berlin Bourse, but since then there has been little change. At the end of March, the latest date

for which official figures are available, the average return of shares quoted on the Berlin Bourse was 6.29 per cent, reflecting principally a rise in share prices, as dividends remained practically unchanged.

8. Agricultural credit.—The size and urgency of the demand for agricultural credit in previous years has furnished one of the major causes, along with the credit demands of the public authorities, for the general credit pressure in Germany. During the second half of 1929, for the first time since stabilization, a decline took place in the volume of credit employed by agriculture. From the standpoint of the credit situation as a whole this was a favorable development, representing some progress in the consolidation and liquidation of debt. But for agriculture itself, the year 1929 and the first months of 1930 formed a period of singular difficulty. This arose in part from conditions confronting agriculture the world over, including the weak and falling prices at which the 1929 crop was It was due in part also to conditions sold. special to Germany.

It will be recalled that German agriculture was placed in a peculiarly difficult position with stabilization. While the inflation had relieved agricultural proprietors of a large part of their debts, it had also cost them many of their assets, other than the land itself and the existing buildings. In numerous cases, especially among the large landowners, the conditions introduced with stabilization-such as relatively low prices for agricultural products, extremely high costs for credit, high wages and taxes and high prices for materials and machinery—resulted in actual losses in operation from one year to the next. These losses were all the greater because of several poor to indifferent crops, followed by two good years the benefits of which were in a measure lost to them through low prices. As has been explained at length in previous reports, these and other causes, among them faulty marketing procedure and the inability of many proprietors to adjust themselves promptly to the changed conditions of agricultural production in the world at large, resulted in the rapid accumula-tion of debt. By the end of 1927 the volume of debt, though substantially smaller than the pre-war figures, was costing rather more in the aggregate amount of interest paid than it had before the war.

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condition at the close of 1928, the amount of debt in proportion to the capital value of the undertakings, which in turn is based upon their taxable value, varied from about 9 per cent to about 57 per cent. The proportions ranging over 50 per cent related to districts in East Prussia, Pomerania, and Mecklenburg-Schwerin, where the large undertaking is typical, while the smaller percentages were mostly in other parts of Germany, where small farms predominate. The average for the Reich was given as 30 per cent.

AGRICULTURAL CREDITS OUTSTANDING

[In millions of reichsmarks]

	Mort- gage credits	Inter- mediate credits	Short- term credits	Total
1925—Dec. 31. 1926—Dec. 31. 1927—Dec. 31. 1928—June 30. Sept. 30. Dec. 31. 1929—Mar. 31. June 30. Sept. 30. Dec. 31. Dec. 31.	1, 011 2, 048 2, 814 3, 258 3, 441 3, 623 3, 811 3, 891 3, 997 4, 103	$\begin{array}{c} 26 \\ 102 \\ 304 \\ 313 \\ 322 \\ 318 \\ 301 \\ 320 \\ 323 \\ 315 \end{array}$	2, 186 2, 127 2, 566 2, 857 2, 944 2, 890 2, 960 3, 143 2, 957 2, 844	3, 223 4, 277 5, 684 6, 428 6, 707 6, 831 7, 072 7, 354 7, 267 7, 262

It should be noted that the foregoing table, giving figures compiled by the Institut für Konjunkturforschung, represents not the amount of new credit granted each year but the ascertainable amounts outstanding on the respective dates. In each of the three years prior to 1929 the amount outstanding rose by 1,000,000,000 reichsmarks or more. In the 12 months of 1929 the increase was less than half as much, and during the second half of the year there was a small decline.

Quite as important as the changes which took place in the total figures for the year were the changes in the individual classifications of indebtedness. The entire increase for the year was accounted for in the item representing mortgage debt. The amount of intermediate debt outstanding, on the other hand, was almost precisely the same at the end of 1929 as a year earlier, and the amount of short-term debt actually declined. Heretofore, except for seasonal fluctuations, the volume of short-term debt has shown a disturbing tendency to increase notwithstanding a general effort to convert as much as possible of it into mortgage form. Indeed, the two forms of debt tended up to the middle of 1929 to rise almost simultaneously. The change which has since taken place, however temporary it may prove to be,

Other evidence on the amount of short-term credit utilized by agriculture is to be found in figures published by the Preussische Zentral-genossenschaftskasse (known as the Preussenkasse), which is the central bank for cooperative credit. Whereas at the end of 1927 rural credit cooperatives had exceeded by 132,000,000 reichsmarks their assigned credit contingents with the Preussenkasse, the credits used at the end of 1928 were about 80,000,000 reichsmarks less than the credit contingents. At that time, however, credits used by the cooperatives situated east of the Elbe (where agricultural credit distress has been particularly acute) continued somewhat in excess of the assigned contingents. By the end of November, 1929, this excess not only had disappeared but the cooperatives both east and west of the Elbe were well within their contingents, and were in a position to call for some 114,000,000 reichsmarks more credit from the Preussenkasse than they were using. The amount of short-time credit furnished to agriculture by the Preussenkasse continued to decline up to the end of January, 1930; but since then there has been some seasonal increase.

These changes in tendency were beneficial to the credit market as a whole, but the figures necessarily leave out of account the conditions which were at least partly responsible for the results indicated. It seems safe to assume, for example, that certain agricultural borrowers had reached the limit of their power to incur debt and that other landowners had refrained from doing so because of the cost. Moreover, the decline in the market values of agricultural products reduced the amounts which farmers were able to borrow on the security of their crops, and intensified the difficulties, particularly of those burdened with debts carrying high rates of interest.

Various measures of relief have been undertaken and others have recently been proposed. Of those already put into effect one of the most constructive is the reorganization of the whole agricultural cooperative credit system. Without attempting to analyze an extremely complicated sequence of financial transactions, it may be said briefly that the Raiffeisenbank, the institution serving one of the principal groups of cooperatives, became seriously involved in the first years after stabilization through financing operations which had little or nothing to do with agriculture. Its difficulties were in a measure passed on to the Preussenkasse, and presently the capacity of both institutions to is in the direction of bringing the volume of provide agricultural credit was much impaired. agricultural credit into more manageable form. The Preussenkasse was reorganized in 1928, and

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was provided with fresh resources by the State of Prussia; more recently arrangements have also been made to bring the Reich into participation as a stockholder to the extent of 50,000,-000 reichsmarks. As for the Raiffeisenbank, the Raiffeisen group of cooperatives agreed to its liquidation, and the group itself has consented to a merger with five other important agricultural cooperative associations. This merger was effected on February 13, 1930, and consolidated 37,300 individual cooperatives out of a total in Germany of about 40,800. In addition, a broad program for rationalization and centralization of the various regional and functional agricultural cooperatives is in process. This program provides in general that in each State or province all cooperatives of the same functional category-for example, for buying or selling or for providing credit-shall be consolidated into a single regional association, and these regional associations in turn shall form an association for the Reich as a whole. It is contemplated that these associations shall assist in the rationalization of German agriculture in all of its varied aspects. The growth of savings deposits in the agricultural cooperatives, already mentioned in a previous section of this chapter, is an indication of the vitality of these organizations, and has an important bearing on agricultural credit as a whole, since these funds provide a natural and ready source of credit to the farming population.

Another measure designed for the relief of agriculture was forecast by the Chancellor of the Reich on December 12, 1929, in outlining to the Reichstag the financial proposals of the Government. According to this proposal, which has since been embodied in a draft law presented to the Reichsrat on April 7, 1930, agricultural landowners are exempted from the payment due April 1, 1930, and from subsequent interest payments on the Rentenbank general mortgage, subject to the proviso that the Government of the Reich may call for subsequent payments if ever required in order to enable the Rentenbank to fulfill its liabilities in respect of the liquidation of Rentenbank notes in circulation. Up to this time, as noted in previous reports, the bulk of the interest received on the Rentenbank mortgage has been used for the redemption of Rentenbank notes. The total of interest payments each year has usually exceeded 80,000,000 reichsmarks, of which 60,000,000 reichsmarks or more have been used for the redemption of notes and the remainder, up to 25,000,000 reichsmarks, has been placed at the disposal of the Rentenbank Credit Institution. The term indebtedness into mortgage debts, for the

suppression of the charge will postpone the date when the Rentenbank note retirement, now far advanced, is completed, but at the same time it carries manifest benefits for agriculture. The draft law also provides for changes in the relations between the Rentenbank and the Rentenbank Credit Institution, which already appear to be embodied to some extent in a new contract between them and the Reich and the Reichsbank.

A third group of measures, aimed at raising the prices in the domestic market for agricultural products, centers on a long series of changes in the customs tariff. Since the summer of 1929 the Government has been engaged in amending commercial treaties with other countries and in altering customs duties, all with a view to reducing or eliminating competition in the home market from foreign-grown agricultural products. These changes are discussed at length in the chapter on foreign trade, in the section dealing with tariffs and commercial treaties. Notwithstanding the changes first effected there was a continued fall in prices, and further increases in customs duties have since been made, with the result that internal prices for grains have risen somewhat since the end of March. The Government is also considering special measures for stimulating the consumption of rye, the present stock of which in the country is redundant.

The principal measures which thus far have been published with official authority are briefly described in the section on tariffs and commercial treaties, and in the chapter on German business conditions in the section on agriculture. The general course of agricultural prices is also discussed in the section on prices.

In connection with his signature of the liquidation agreement between Germany and Poland, the President of the Reich, in a letter addressed to the Chancellor on March 18, 1930, called special attention to the distress of agriculture in East Prussia, and asked that a new program of financial assistance for the eastern districts should be considered at the earliest possible moment. After extended negotiations between the various ministries concerned, it was announced on May 7 that an agreement in principle had been reached regarding such a program, but the details are not yet available. Generally speaking, however, it appears from the Finance Minister's budget speech to the Reichstag, on May 2, 1930, that the program contemplates measures for facilitating the transformation of shortstrengthening of existing agricultural enterprises, for encouraging settlement on the land, and for improving the means of transportation in the eastern districts. Apparently, it provides also for the reduction of certain tax charges.

1 It remains to state in summary form the cost of agricultural credit. In common with other money rates, interest on agricultural loans ranged during 1929 somewhat higher than in the previous year. The net cost to the borrower on long-term first-mortgage credits, including taxes and discount from the nominal value of the loan, rose from about 10.2 per cent in the autumn of 1928 to 10.5 per cent in the autumn The rate charged on personal credits of 1929. advanced by the Rentenbank Credit Institution from April 25 to November 2, 1929, stood at 9% per cent; but thereafter, in connection with the successive reductions in the Reichsbank rate, it declined five times by half a point, and stood at the end of April at 7¼ per cent. Personal credits from other sources, however, have frequently cost the agricultural borrower as high as 12 per cent.

A reduction in the cost of credit would bring considerable relief to agriculture, but it is still true, as stated in the report of December, 1928, that "the difficulties which German agrarians face are by no means limited to ques-tions of credit. To some extent they are the reflections of a change in agricultural conditions throughout the world, to which German agriculture has only begun to adapt itself. It is noteworthy that more and more attention is being paid to the means of effecting these readjustments. In particular, preliminary investigations have been made looking toward the improvement of marketing systems, livestock raising, dairying, and so on. If these result in greater farm efficiency and in cheaper and better production and distribution, they will bring measurable relief on the score of agricultural credit and will be advantageous also in diminishing imports of necessary foodstuffs.'

9. Business difficulties.-The number of business failures in Germany during 1929 ran somewhat higher than in 1928, and in the early weeks of 1930 there was a considerable further increase. In some cases, distress has overtaken old-established concerns which have been unable to adjust their affairs to the new conditions prevailing since the war; in other cases, and this applies particularly to a number of small banking failures that occurred during the autumn, the trouble appears to have been largely due to situations which were | strict itself more and more closely to such addi-

left over from the inflation and which came to a head during the year under the pressure of high interest rates. A few large business concerns also have been in difficulties, but these appear to have been individual cases of bad management, and not indicative of general weakness in the business situation. It should be understood that the figures given in the following table [omitted] are not fully comparable from one period to another, because of changes which have taken place in the official procedure for dealing with concerns in difficulties. These changes were described in the report of December 22, 1928.

The movement toward concentration in business which has been in progress in Germany since stabilization continued during 1929, but on average at a somewhat diminished rate. Since the beginning of 1925 the number of enterprises of all sorts dissolved, including partnerships and individual firms as well as joint-stock corporations, has exceeded the number of new enterprises formed by more than 70,000.

The nominal amount of protested bills was somewhat higher during 1929 than in 1928, when in turn the amount was somewhat higher than in 1927. The figures which are given in the following diagram and table [omitted] have been compiled and published by the Institut für Konjunkturforschung on the basis of private reports received from various parts of Germany. The amounts given have no absolute significance because they take into account only a minor part of the total protested bills in Germany; but the tendency illustrated may be assumed to represent a fair sampling.

The German currency.--From the time of stabilization up to the end of 1929 the volume of currency in circulation continuously increased, season for season, from one year to the next. But in recent years the year-to-year growth has slowed down, and in the first months of 1930 the volume of the circulation has been on the whole slightly smaller than in the corresponding months of 1929.

In the period immediately after stabilization, as a characteristic result of the inflation. the currency was barely sufficient to meet the minimum requirements of the country's business, and the year-to-year rise in volume was a reflection of the pressure which this shortage exerted, and only secondarily of the complex factors which ordinarily determine the growth or contraction of a gold standard currency. During 1929, when this phase was approaching its end, the year-to-year increase tended to re-

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tional amounts as were required to satisfy current changes in the demand—the latter the result of the complicated working of such factors as the volume of production and trade, the price level of commodities in world markets, Reichsbank credit policy and the availability of credit abroad.

The German currency has continued to satisfy all the practical requirements of the gold standard, as it has during the entire period since the Dawes plan went into effect. The position of the reichsmark in the foreign exchanges, as has been seen in a previous section of this chapter, has kept within the limits determined by the gold points both upward and downward, and on many occasions in recent months it has stood with respect to other leading currencies at or near the gold import point. Its internal value has risen to some extent, in accordance with the decline in the general index of commodity prices.

The reichsmark remained up to the end of the Dawes plan a gold currency in a de facto sense only, but with the coming into force of the new plan it has been placed on a full gold basis. Even before this final step was taken, the Reichsbank, as a matter of announced policy, held itself ready to redeem its notes in gold but it was not legally bound to do so. The Reichsbank's obligation to pay its notes in gold or devisen was provided for in section 31 of the bank law of August 30, 1924, but the coming into force of this section of the law depended, according to the provisions of section 52, upon "concurrent resolutions of the Reichsbank managing board and of the general coun-cil." As stated in the previous report, the president of the Reichsbank in a letter dated June 6, 1929, addressed to the chairman of the committee of experts then meeting in Paris, had said that he "was prepared to introduce the necessary resolution * * * at the latthe necessary resolution est in connection with the putting into force of the present plan by the Governments." On April 19, 1930, the Minister for Economic Affairs and the Finance Minister of the Reich issued a proclamation, dated April 17, 1930, conveying a communication from the Reichsbank managing board under date of April 15, 1930, to the effect that "in accordance with section 52 of the bank law of August 30, 1924, the Reichsbank managing board and the general council of the Reichsbank have unanimously resolved to put section 31 of the bank law in force. This resolution will come into force at the same time as the new plan."

The diagram and table [omitted] show on the first years of the operation of the Dawes the basis of month-end figures the growth of plan. In the period of about three years

the total amount of currency in circulation since the Reichsbank law went into effect on October 11, 1924. During 1929, while the circulation continued to rise, the rate of increase was slower than in any previous year. In 1926, for example, the average increase of the circulation over 1925 was about 450,000,000 reichsmarks; in 1927 the increase over the preceding year was about 550,000,000 reichsmarks, and in 1928 about 400,000,000 reichsmarks. In the first half of 1929 the year-toyear margin narrowed to 170,000,000 reichsmarks, and in the second half of the year to below 60,000,000 reichsmarks; while in the early part of 1930 the year-to-year increase practically disappeared and at the end of April there was even a small decline.

The notes of the Reichsbank have continued to furnish the principal element of increase in the currency. The increase in the Reichsbank circulation, indeed, has been somewhat larger than the increase in the circulation as a whole. Whereas in 1925 Reichsbank notes comprised on the average 52 per cent of the circulation, in 1929 they comprised about 75 per cent of it. The progressive retirement of Rentenbank notes has left a vacuum in the circulation which had to be filled. New coinage of the Reich has partly served this purpose, but the Reichsbank has been called upon to supply the difference as well as the year-to-year increase in the circulation as a whole.

Up to April 30, 1930, in carrying out the provisions of the Rentenbank liquidation law of August 30, 1924, Rentenbank notes have been retired in the following amounts (rentenmarks being equivalent to reichsmarks) and from the following sources:

ofrent	enmarks
Interest on the general mortgage on agricultural	
land	347
Payments by the Reich	315
Share of the Reich in Reichsbank earnings	88
Repayments of agricultural bills	880
· · · · · ·	
Total	1,630

In addition, as noted in previous reports, about 70,000,000 rentenmarks have been withdrawn from circulation and are held under earmark at the Reichsbank. At the end of April, 1930, the amount of Rentenbank notes in the hands of the public was 363,000,000, or only about 6 per cent of the total German circulation.

As foreseen in the law, the retirements of Rentenbank notes were particularly heavy in the first years of the operation of the Dawes plan. In the period of about three years ended December 31, 1927, about 1,340,000,000 of Rentenbank notes were retired. The principal source of funds during that period was the complete repayment of the so-called economic credits which had been granted in the early days of stabilization through the medium of the Reichsbank and the minor banks of issue, in rentenmarks and mainly for the benefit of agriculture. Since the beginning of 1928 the income of the redemption fund has been derived from the three remaining sources, namely, the interest on the rentenmark general mortgage to which agricultural land is subject (about 139,000,000 reichsmarks for the period), payments out of the budget of the Reich (135,000,000 reichsmarks), and the share of the Reich in the profits of the Reichsbank (16,000,000 reichsmarks). The suppression of the first of these items, in the interest of agricultural relief, forms part of the Government's plan for financial relief to agriculture, as already noted in a previous section. Under the draft law of April 7, 1930, which has been presented to the Reichsrat but not yet enacted into law, the annual contribution by the Reich to the redemption fund also disappears, so that in future the fund will normally receive only the annual share of the Reich in the profits of the The time limit for the complete Reichsbank. retirement of Rentenbank notes is accordingly to be extended from 1934 to December 31, 1942.

For reasons described at length in the last report and given in outline in preceding pages, the Reichsbank reserves of gold and devisen were heavily drawn upon in the spring of 1929, with corresponding effects on the ratio of gold and eligible devisen held against outstanding notes. On May 7, 1929, the reserve ratio stood at 41.0 per cent, the lowest since stabilization and only one point above the legal minimum. Since then, with the replenishment of reserves, the ratio has gradually risen and at the end of April, 1930, stood at 62 per cent, an end-of-month ratio rarely exceeded in recent years.

GERMANY'S FOREIGN TRADE

The equilibrium between exports and imports of goods, which had been tentatively reached in September and October, 1928, was maintained during the calendar year 1929, at an average level of about 1,120,000,000 reichsmarks a month. In the final months of the year the reported surpluses of exports, including deliveries in kind, more than overcame the deficits of the early part of the year, and thus brought German foreign trade for the full year

into balance. This result was not due to any sudden or sporadic reversal of former tendencies but to the gradual and cumulative effect of forces which have been in process since stabilization, reflected primarily in the growing vitality of the German export trade. In this sense, the maintenance of the foreign trade balance during 1929 may be regarded as the most promising commercial development of the year.

The main element in this result, as illustrated in the foregoing diagram [omitted], has been the growth of the German export trade. On the whole the value of exports has risen steadily ever since the reestablishment of orderly conditions after the inflation: In 1925 exports amounted, according to the published figures of the Reich Statistical Office, to an average of 774,000,000 reichsmarks a month, including deliveries in kind; in 1926 to an average of 868,000,000 reichsmarks; in 1927 to 900,000,000 reichsmarks; in 1928 to 1,023,-000,000 reichsmarks; and in 1929 to 1,124,-000,000 reichsmarks. Total exports for the year 1929 reached a level of 13,482,000,000 reichsmarks, or more than 4,000,000,000 reichsmarks higher than in 1925, making an average year-to-year increase of about 1,000,000,000 reichsmarks.

The development of the export trade has been one of the primary objects of German industry ever since stabilization, not only in the adaptation of plant and production at home but in the reestablishment of old trade relations abroad and the discovery of new trade outlets. In some parts also, the growth of exports has been due to the gradual removal of postwar discriminations against German goods in foreign markets. Much progress has been made in effecting commercial treaties and trade arrangements with foreign countries, which have had the result in most cases of reestablishing Germany on the same footing as other exporting nations. Deliveries in kind on reparation account, in addition to providing a useful method for transferring an important part of the sums paid as reparations, have also served the practical purpose of getting over customs barriers and prejudices against imports from Germany, and so of enlarging the German export market in general. Furthermore, the domestic demand for capital has exerted pressure more or less strongly throughout these years in the direction of larger sales of goods in foreign markets. During the year 1929 this pressure was all the more pronounced

credit, of obtaining foreign loans; and business conditions abroad were at the same time favorable to the development of German exports.

On the import side of the trade balance the results of the year 1929 are also of great significance, but for different reasons. Since raw and other materials for industrial use make up the principal fluctuating element in German imports, the changes from time to time in the volume of imports furnish a fair indicator of changes in the activity of German industry as a whole. Regarded from this aspect, the import returns since the reform of the currency are of singular interest. In 1925, a year of stocking up after the inflation, the value of imports, according to the figures published by the Reich Statistical Office, amounted to an average of 1,030,000,000 reichsmarks a month; in 1926, the year of the rationalization crisis in industry, imports averaged 833,000,000 reichsmarks a month; in 1927, a year of broad business activity, the average was 1,186,000,000 reichsmarks; in 1928 it was 1,167,000,000 reichsmarks; and in 1929 it was 1,120,000,000 reichsmarks. Thus in the last three years the monthly average value of imports has been running fairly consistently at or about the level established in 1927, with only a slight tendency to decline in 1929, reflecting in part the fall in commodity prices. Practically all of the decline, moreover, was due not to smaller imports of industrial raw materials but to smaller imports of foodstuffs, made possible by the better harvests of the last two years.

GERMAN FOREIGN TRADE, BY MONTHS

[In	millions	of	reichsmarks]	
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· · · · · · · · · · · · · · · · · · ·		Exp	orts		of imports of exports
	Imports	Without deliveries in kind	With deliveries in kind	Without deliveries in kind	With deliveries in kind
1925 average 1926 average 1927 average	1, 030 833 1, 186	733 815 852	774 868 900	$-297 \\ -18 \\ -334$	-256 +35 -286
1928 average 1929 average	1, 167 1, 120	968 1, 055	1, 023 1, 124	199 65	-144 +4
1929—January February March	1,317 1,015 1,023	$1,029 \\ 916 \\ 928$	1, 101 971 982	$-288 \\ -99 \\ -95$	$-216 \\ -44 \\ -41$
April May June	1, 254 1, 131 1, 077	1, 159 1, 094 1, 011	1,227 1,172 1,077	-95 -37 -66	-27 +41 0
July August September	1, 226 1, 073 1, 038	1, 028 1, 119 1, 130	1, 099 1, 189 1, 200	-198 +46 +92	-127 +116 +162
October November December	1, 107 1, 161 1, 020	1, 154 1, 091 1, 003	1, 247 1, 154 1, 063	+47 -70 -17	$^{+140}_{-7}$ +43
1930—January February March	1, 305 982 884	1, 034 962 1, 043	1, 092 1, 026 1, 104	$-271 \\ -20 \\ +159$	-213 +44 +220

The satisfactory nature of the trade returns for 1929 is thus apparent. It is especially noteworthy that the equilibrium between exports and imports was reached, not by depressing the imports of materials essential to industrial activity, but by raising the value and volume of exports, with some collateral help from larger agricultural production. In this sense the reestablishment of balance in German foreign trade is less important in itself than the level at which equilibrium is restored. This level for the year 1929 stood on the average at about 1,120,000,000 reichsmarks a month, or some 300,000,000 reichsmarks a month higher than in 1926, the most recent previous date when exports balanced imports for any comparable period.

It will have been observed from the table [omitted] that the figures for the first quarter of 1930 show a continuation of exports at about the average level of 1929. Imports for the quarter as a whole were somewhat smaller than in the same period of the two previous years, owing in part to the decline in prices of many important raw materials and semifinished products. According to the figures as reported there was an export balance in the quarter of over 50,000,000 reichsmarks, as compared with an import balance of 300,000,000 reichsmarks in the first quarter of 1929. The reported import figures for the first quarter of the year, however, are always somewhat larger than actual imports in that period, as they include the values for certain goods physically imported in the previous months but not brought into the trade figures until the semiannual settlement in January for customs duties on those goods. It has been estimated by the Reich Statistical Office that this overstatement of imports in the first quarter of 1930, after making due allowance for the goods actually imported during the period but which will not be included in the statistics until the next semiannual settlement, amounted to about 180,000,000 reichsmarks. Thus the export balance for the first quarter of 1930 would amount to about 230,000,000 reichsmarks instead of only 50,000,000, reichsmarks, as shown by the reported figures. These adjustments, however, do not affect the conclusions reached with respect to the trade balance for the year 1929, because the statistical office has included in the imports for that year a similar excess applicable on the same grounds to the year 1928.

The most important developments of the first quarter of 1930, from the standpoint of German foreign trade, have been, first, the world-wide fall in prices, particularly for raw materials and foodstuffs, and, second, the greatly increased customs duties which the German Government has recently imposed on many foreign products, particularly the agricultural products of neighboring countries. These countries are numbered among Germany's principal customers for finished products, and the question arises as to how far the new protective tariffs will, in turn, react upon German exports. Germany gains, of course, by the decline which has taken place in the prices of the raw materials needed for the use of its industries, and as indicated below, the fall in commodity prices during the past year has tended to reduce the value of imports without a corresponding reduction in the actual volume of goods received. The effects of the sharp price decline since the turn of the year are likely to be reflected even more in the import figures for coming months than in those so far reported, and the higher customs duties will also tend to curtail the import of agricultural commodities during the next few months. On the export side, it still remains to be seen how sales of German goods abroad may be affected by the decline in world prices and the general recession in production and trade.

The balance of payments.—It follows from the better position of Germany's foreign trade that the balance of payments should have improved also. The balance of payments, of which the balance of trade forms a part, takes account not only of the import and export of goods, but of all the other services and things of value exchanged between Germany and the rest of the world. In many respects these other services and things of value can be expressed only conjecturally in terms of figures. Nevertheless it is interesting to bring together such elements as can be stated in fairly exact terms, so as to give some picture of the balance of payments as a whole. During the fifth annuity year the rising volume of the export trade, bringing with it a much smaller deficiency in the merchandise trade balance, was associated on the other side of the account with a much reduced volume of borrowing, and this notwithstanding the increase in reparation payments to the level of the standard year.

Analyses by annuity years.—In preceding annual reports analyses of the balance of payments for the respective annuity years, beginning September 1 and ending August 31, have been made within such limits as the available figures permitted, and a similar statement for the fifth annuity year is given below, together with a brief statement of the main characteristics of the earlier years. Inasmuch as many of the so-called invisible items entering into a errors in the figures up to the time when the

balance of payments are necessarily matters of estimate and deduction, no effort has been made to make the statements fully comprehensive. The items selected for presentation are based upon the broader but still partly conjectural statements published by the Reich Statistical Office. Wherever the merchandise balance enters into the statement, imports and exports have been adjusted according to the coefficients of the Reich Statistical Office, in order to correct the overstatement of imports and the understatement of exports which were inherent in the official figures up to the time when the new foreign trade reporting procedure became effective. It should also be explained that wherever reparation payments enter into the calculations the figures used are those for transfers made in foreign currencies only. Deliveries in kind have been omitted for the sake of simplicity from both sides of the balance; their value has been given neither among the exports from Germany nor among the payments made by Germany.

In the first annuity year, a year of restocking and reconstruction, the large imports of goods, which far exceeded the relatively small amount of exports, placed a heavy burden upon foreign credit at both long and short term. In the second annuity year, a year which included practically the whole of the rationalization crisis in business, the much reduced imports of goods, which the moderately increased exports somewhat exceeded, placed no burden at all upon foreign credit, and the long-term loans then issued served in effect to refund a large part of the short debt incurred in the previous year. In the third annuity year, a year of large and rising business activity, stimulated in part by the borrowing and spending programs of the public authorities, very large imports, which far exceeded the rising values of exports, again placed a heavy burden upon foreign credit. In the fourth annuity year, a year when the business activity of the preceding period reached a maximum and then somewhat receded, imports of goods were again very large and together with imports of gold still far exceeded the increased values of merchandise exports, with the result that there was again a heavy dependence on foreign credit.

In the fifth annuity year, a year of large industrial production but of difficult credit conditions, imports of goods remained very large but a further rise in the value of exports much reduced the requirements for credit from The deficiency in the merchandise abroad. trade balance, after making allowances for new reporting system became effective, amounted to about 1,080,000,000 reichsmarks. To this deficiency must be added the transfers in foreign currencies on reparation account, which amounted to 1,419,000,000 gold marks, and a further slight addition made to cover the year's increase in the Reichsbank's reserves of gold and devisen, amounting to 48,000,000 reichsmarks. In total, and disregarding items such as interest on foreign debt, travelers' expenditures, wages of foreign workmen, and so on, the deficiency may be estimated at about 2,550,000,000 reichsmarks.

Against this deficiency are to be placed only three items which can be stated even approximately. The first is the effective amount of capital issues placed abroad during the period, estimated at about 600,000,000 reichsmarks. The second item covers the net amount estimated to have been paid to Germans on shipping and transportation account, about 400,-000,000 reichsmarks. The third is an item of about 300,000,000 reichsmarks, roughly stated, representing the return to German possession of property sequestrated in the United States during the war. These items reduce the deficiency to about 1,250,000,000 reichsmarks, or considerably less than in either of the two preceding years. Conjecturally, this deficiency together with such supplements to it as may be represented in various undetermined items, was covered by short loans, acceptance credits granted by foreign banks to German firms through the medium of German banks, participation by foreigners in German business enterprises, and so on.

Estimate by calendar years.—The latest date covered by the preceding analyses is August 31, 1929, with the result that the important final months of 1929 are left out of account. There has recently become available, however, a condensed estimate of the balance of payments for the calendar year 1929, which is given below as a matter of information.

This estimate was published under date of December 31, 1929, by the Reichs-Kredit-Gesellschaft, a banking institution indirectly owned by the Reich, in its report on the German economic situation at the turn of the year 1929-30. The estimate for the calendar year 1929 is necessarily provisional because detailed figures for the final months of the year were not yet in hand; but it offers a useful basis for comparison with preceding years pending the publication of the estimate of the Reich Statistical Office which ordinarily appears sometime in May. The following table reproduces the items for the years 1927, 1928, and | finances. In the face of the disordered condi-

1929 as they appear in the Reichs-Kredit-Gesellschaft's report. It should be added that the estimates for the years 1927 and 1928 resemble closely the statistical office's published estimates for those years, but are stated. in simplified form.

REICHS-KREDIT-GESELLSCHAFT'S ESTIMATE OF GERMAN BALANCE OF PAYMENTS

[In billions of reichsmarks, round amounts]

	1927	1928	1929
ASSETS			
I. Recurrent items:			
Exports (not including gold and silver)	10. 51	11.80	12.80
Reparation payments— (a) Deliveries in kind	F77 (70	
(a) Deliveries in kind	. 57	. 70	.90
(b) In Germany Surplus from services rendered	.08	.07	. 07
Surplus from services rendered	. 30	. 29	. 36
II. Nonrecurrent items:			45
Gold surrendered by the Reichsbank			. 47
Falling off in the foreign exchange holdings	40	07	
of the Reichsbank	.49	. 07	. 27
Influx of funds released by America		.04	• Z
Imports of capital-	1.61	1.35	
(a) Loans.(b) Short-term credits to the Reich	1.01	1.30	. 3
(b) Short-term creats to the Reich	1.90	1.58	. 2
(c) Other short-term credits		1. 33	} 1.72
(d) Other imports of capital (balance).	. / 3	1. 00)
Total	16. 19	17.23	17.15
LIABILITIES			
I. Recurrent items:			
Imports (not including gold and silver)	14.00	13.60	13.60
Reparation payments (as from September,			
1929, on the basis of the Young plan)	1.58	2.00	2.37
Balance of interest	. 45	. 70	. 86
Adverse balance of emigrants' and immi-			
grants' capital transactions	.07	. 07	. 07
II. Nonrecurrent items:			
Increase in the visible foreign exchange	1	Í	
holdings of the Reichsbank			. 25
Influx of gold into the Reichsbank	. 09	.86	
Total	16.19	17.23	17.15

GERMAN BUSINESS CONDITIONS

During the final months of 1929 and the first few months of 1930 the general volume of German production and trade, after a period in which previous figures had been surpassed in many lines of activity, has been distinctly below the average levels of the past two or three years. In some part, of course, this recession has been characteristic of the season, but it appears in the main to have been the result of a combination of forces, both internal and international, the nature of which has already been discussed in the chapter on credit. Recession in business activity in other countries and the world-wide decline in prices have been elements of uncertainty which have tended to restrain business progress in Germany, as well as abroad. Of the internal forces, the one which retains the greatest importance is the depressing influence exercised by the tension in the public tions prevailing during most of the past year, producers and consumers have found it difficult to go ahead with their plans, and this hesitation has contributed materially to the decline of production and to the falling off in trade; while the capital which would otherwise have been available for productive business and industry has been largely absorbed by the ever-pressing demands of the public authorities. Indeed, the duration of the present recession is likely to depend in considerable measure upon the steps which are taken to reestablish order in the public finances, and the speed with which they are put into effect.

The slowing down in business over the turn of the year came at the close of a period which furnished a striking example of the vigor of the German economy under adverse conditions. During the calendar year 1929 the physical volume of production and distribution taken as a whole was even slightly larger than in 1928 and 1927, years which comprised a period commonly recognized as one of large business activity. In particular fields, notably in the heavy industry, the volume of production exceeded that of any previous year since stabilization. In other fields, particularly in the textile industry and in the industries making luxury articles and goods for home consumption, conditions were less favorable, and the year as a whole was characterized by moderate to small production. In general, it appears that the industries with the largest volume of production were those participating in the expansion of the export trade, or those benefiting indirectly from it. In response to the growing vitality of the export trade, and under pressure of difficult credit conditions, there were highly significant changes during the year in the direction of business. More goods than ever before passed into foreign trade, and exports and imports were brought into balance at an average level of about 1,120,000,000 reichsmarks per month. In domestic business there was a tendency for trade in articles of subsistence and in the less expensive articles of enjoyment to increase, and for trade in luxuries and fine goods to diminish. This latter development is consistent with a moderate further increase in the purchasing power of wage earners and a decline in the purchasing power of various other sections of the population, particularly those who before the inflation derived a substantial part of their income from fixed investments.

On the side of industrial organization, there have been further important developments. The movement toward concentration has resulted in a further reduction in the number of

enterprises and in the extension of the influence of cartels and trade associations. A noteworthy step in this direction was taken toward the close of 1929 when the Rohstahlgemeinschaft (the Raw Steel Association) was enlarged to include practically all German producers, with provision for the prolongation of its activities up to 10 years. Another development of primary importance is the community of interest established early in 1930 between the two leading German merchant-shipping concerns. In April, 1930, an agreement, which is still awaiting ratification, was also concluded for the prolongation of the German Coal Syndicate for a period of 10 years, to March 31, 1940. Other phases of rationalization have shown themselves in the shape of further improvements in business methods and factory organization.

The present position of German business as a whole is best to be understood in the light of what has occurred heretofore, in the period since the stabilization of the currency. In the autumn of 1925, German industry and trade started on a course of drastic readjustment and rationalization which involved radical reductions in staff, acute unemployment, a limited volume of production, and general depression in business. By the autumn of 1926 recovery was well under way, and the next 15 months covered a period of high and rising business activity. This expansion had a special stimulation from the very free use of credit, both domestic and foreign, particularly on the part of the public authorities, and toward the close of 1927 business was running on an exceptionally high level of activity. During the early part of 1928 there came the natural reaction from these conditions, and with it a considerable decline from the peak of production and a small decline in the volume of consumption; but for the year as a whole, in spite of the dislocation resulting from the November lockout in the Rhenish-Westphalian iron and steel industries, the average level of production stood on a high plane and showed only a slight reduction as compared with the previous year. During 1929, in spite of considerable fluctuations in business, and notwithstanding weather of unprecedented severity in the first quarter, the uncertainties of the reparation conferences, the constant financial difficulties of the public authorities, and the general reduction in the flow of fresh funds from abroad, the physical volume of production and trade reached equal or even slightly larger totals on the whole than in any previous year since stabilization.

The movement toward concentration has re- From the standpoint of the German economy sulted in a further reduction in the number of it is not sufficient, of course, that the general

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volume of business should merely hold its own with previous years. It is necessary for it to increase, if for no other reason because of the year-to-year growth of the population. Recently the German population, according to the official figures, has been rising at the rate of about seven-tenths of 1 per cent a year, but by reason of the larger birth rate immediately before the war the population eligible for gainful employment has been rising at a rate about twice as fast, equivalent to about 1½ per cent a year. Simultaneously with this increase in the number of potential workers, German industry has been perfecting its processes and adding to its efficiency, with the result that it has enabled itself to produce more goods with less labor. Accordingly, the volume of business has to increase at a rate considerably faster than the growth of the working population if the problem of unemployment is to be kept on an even keel.

Since the early part of 1926, the physical volume of production and distribution has followed in the long term a generally upward curve, which is not to be obscured by the special expansion which came at the close of 1927, with its inevitable reaction, or by the temporary recession which occurred in the winter of 1928–29, or by the recession which is now in process. But the increase in business does not appear to have been sufficient as yet to take care of more than about half of the annual increase in the number of eligible work-There is no doubt that on the whole actual ers. employment has materially increased during the past few years, and stood in 1929 at a level much higher than in the years before the war. At the same time, owing to the increase in the eligible working population, basic unemployment has also risen to a considerable extent, and it still presents a serious problem not merely for the public finances but for the German economy as a whole.

Relief from this problem of a rising volume of basic unemployment, which is described more fully in a later section of this chapter [omitted], is to be looked for from three principal sources. The first centers on the fact that after 1932 the low birth rate during the war is due to be reflected in an actual decline in the number of eligible workers, and, other things being equal, should produce a reduction in the volume of basic unemployment. The second is a question of markets, both abroad and at home. Ever since stabilization the foreign market for German goods has responded to the energetic efforts of German exporters, and the volume exports has consistently and rapidly rise

The domestic market has shown greater variation, and has reflected more or less faithfully the prevailing credit conditions. Credit, the third source from which relief may be expected, passed in 1929 through an extremely difficult stage, as has been seen in the chapter on credit; and the relative ease of money in the early months of 1930 does not yet appear to have stimulated trade in the face of the uncertainties engendered by falling prices and the state of the public finances.

On the whole the 1929 harvest, according to the official estimates, produced a yield larger than in any recent year other than 1928, and the good harvests of 1928 and 1929 taken together have been of great assistance to the German economy as a whole by making it possible to do with smaller imports of foodstuffs. The prices, however, at which the new crop could be sold were even lower in most cases than a year ago, and this decline, though of benefit to consumers, seriously complicated the already difficult position of agriculture.

The question of the profits derived by industrial and trading concerns remains obscure. The Reich Statistical Office has attempted to arrive at general conclusions by analyzing the annual reports of numerous enterprises, but the results are suggestive rather than definite. For example, the net profits reported by about 1,200 concerns with business years ending in the last quarter of the calendar year amounted in 1927 to 637,000,000 reichsmarks and in 1928 to 621,000,000 reichsmarks, and the ratio of dividends to capital changed from 7.17 per cent to 7.12 per cent. For about 400 concerns with business years ending in the first half of 1929, the results were also practically identical from one period to the next. Reports from a few important concerns which have already issued statements for business years ending at later dates in 1929 also show almost no change from the preceding year. In a broad sense, the figures for profits support the conclusion drawn from the figures for production and distribution, namely, that taking each year as a whole there has not been any marked change from the level established on average in the year 1927; but, in a stricter sense, the figures often appear to reflect dividend and accounting policy rather than the absolute results of the years in question. *

CONCLUSIONS

The present report brings to an end the administration of the Dawes plan, which has extended from September 1, 1924, to May 17, 1930, through the five full annuity years of the Dawes plan and through the transition period under The Hague agreements. During all this time reparations have been fully paid and transferred in accordance with the provisions of the plan.

To understand the place of the Dawes plan in the history of the reparation problem, it is necessary to look back to the preceding period and also to the future. When the experts of the Dawes committee were called together at the beginning of 1924, Germany was on the point of collapse, after an unprecedented period of inflation. Reparations were not being paid, and the prospects for future payments were With the stabilization of the uncertain. currency and the adoption of the Dawes plan there came the turning point in German reconstruction, and in the succeeding years the German economy has made remarkable progress. Germany's credit has been reestablished both at home and abroad, her industries have been reorganized and her productive capacity restored, and the general standard of living has greatly improved. This result has been achieved primarily through the industry and construction of the German economy.

energy of the German people, but the people of other countries have also assisted in large measure by making their savings available for the rebuilding of the German economy.

The Dawes plan, as was its object, also cleared the way for the complete and final settlement of the reparation problem which is embodied in the Young plan and The Hague agreements of January 20, 1930. The new plan is an act of confidence in the good faith and financial integrity of Germany, and Germany now has a definite task to perform on her own responsibility, without foreign supervision and without the transfer protection provided by the Dawes plan. Under the new conditions Germany has both the whole responsibility and the normal incentive to put her public finances in order and there is no doubt that this problem, which is now the most urgent one confronting the German people, can also be solved and solved on a sound basis if anything like the same efforts are now applied to the reform of the public finances as have been devoted during the period of the Dawes plan to the general re-

FINANCIAL STATISTICS FOR FOREIGN COUNTRIES

GOLD HOLDINGS OF CENTRAL BANKS AND GOVERNMENTS

[In millions of dollars. Figures for end of month or latest available preceding date; see BULLETIN for June, 1929, p. 396, and for June, 1930, p. 372]

Month	Total (45 coun- tries) 7	United States	Ar- gen- tina	Aus- tra- lia	Bel- gium	Bra- zil	Can- ada	Eng- land	France	Ger- many	In- dia	Italy	Ja- pan	Neth- er- lands	Rus- sia	Spain		29 other coun- tries '
	10, 265 10, 296 10, 301 10, 294 10, 360 10, 432 10, 503 10, 566 10, 612 10, 671 10, 708 \$\$10, 790 \$\$10, 826	4,008 4,023 4,003 3,900 3,921 3,988 4,061 4,131 4,159 4,178 4,160 4,148 4,159 \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	496 476 451 434 445 448 445 442 441 440 436 434 P 434	114 109 97 89 88 124 126 109 91 97 97 97 97 98	142 143 151 163 164 164 164 164 167 167 167 167 167 168 173	151 151 151 150 139 127 127 90 90 89 80 69 65	77 77 78 78 78 79 79 80 81 94 100 110	648 643 659 711 732 740 759 765 765 765 768 746 759 766 759	1, 545 1, 570 1, 600 1, 633 1, 683 1, 683 1, 668 1, 668 1, 679 1, 717 1, 727 1, 775 1, 852 1, 859 P 1, 192	527 531 534 544 547 582 595 611 617 624 624 624 624 590 \$519	128 128 128 128 128 128 128 128 128 128	272 272 273 273 273 273 274 274 274 274 274 274 274 275 278	541 542 542 520 477 453 434 434 434 434 434 433 431	178 178 180 180 177 176 174 174 174 174 174 157 157 157 171	132 142 142 147 147 150 156 167 177 203 233 249 249 249	495 495 495 495 476 476 477 477 477 477 477 477 477	103 103 105 115 108 108 108 112 112 112 112 112 118 123 123	707 712 711 714 714 714 714 714 714 711 709 609 700 \$697 706

P Preliminary, based on latest available figures. r Revised to include figures for Bolivia.

NOTE.—Table covers all countries for which satisfactory figures are available; see BULLETIN for April (p. 170), where separate figures for the 44 countries are given by years back to 1913. For the 16 countries here shown separately—all of which have held gold in recent years to the amount of \$90,000,000 or more—the figures are for central banks only except as follows: United States—Treasury and Federal reserve banks; Argentina— Government conversion fund and Bank of the Nation; Brazil and Government stabilization fund; Canada—Government reserve against Dominion notes and savings-bank deposits, and gold deposits of chattered banks in the central reserve; India—currency and gold standard reserves of Government; Japan—domestic holdings of Bank of Japan and Government.

GOLD MOVEMENTS

[In thousands of dollars]

	United States			(Germany		G	eat Brit	ain	N	e therland	South Africa	India	
Month	Im- ports	Ex- ports	Net	Im- ports	Ex- ports	Net	Im- ports	Ex- ports	Net	Im- ports	Ex- ports	Net	Net	Net
1929—September October November December	18, 781 21, 321 7, 123 8, 121	1, 205 3, 805 30, 289 72, 547	-64, 426	9, 939 4, 624 5, 093 11, 096	851 1,002 919 806	9, 088 3, 622 4, 174 10, 290	18, 301 28, 591 36, 249 65, 343		-22, 982 1, 796 8, 405 48, 903	116 177 107 297	17 12 15 17	280	-15,375 -15,812 -20,922 -18,220	
1930—January February March April	12, 908 60, 198 55, 768 65, 835	8, 948 207 290 110	3, 960 59, 991 55, 478 65, 725	5, 052 38, 252 15, 119 18, 670	629 687 769 703	4, 423 37, 565 14, 350 17, 967	41, 702 38, 961 38, 258 42, 741	34, 074 12, 826 14, 828	4, 886 25, 432 27, 913	248 80 89 81 75	3, 224 1, 026 10 21 19	946 79 60	-17,808 -20,786 -13,777 -18,134	3, 44 5, 95
May June July August September	23, 552 13, 938 21, 889 19, 714 13, 680	82 26 41, 529 39, 331 11, 133		7,318 7,561 1,481 1,614 2,030	722 1,815 628 656 25,859	6, 596 5, 746 853 958 23, 829	45, 388 13, 747 24, 646 24, 201 22, 339	20, 659 40, 335 21, 390	-6,912 -15,709 2,811	75 34 48 281 81	11	-16, 539 273	-22,798 -18,190 -22,415 -18,708 -17,149	6, 45 9, 20 3, 40 13, 46

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MOVEMENTS TO AND FROM GREAT BRITAIN

[In thousands	of dollars]
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		19	30		19	29
From or to—	Septe	mber		y-Sep- iber	Calend	ar year
N	Im- ports	Ex- ports	Im- ports	Ex- ports	Im- ports	Ex- ports
France	12	15, 921 1, 470	1, 4 70 7	138, 042 65, 257	2,066 3,203	162, 527 92, 991
Netherlands Spain and Canaries. Switzerland	3	133 2 1, 985	19 19 , 4 96	738 150 17, 640	14, 382 4	2,006 359 10,781
United States			283 26, 191	49	23, 090 39, 129	61, 293
British India Australia New Zealand	1, 815 12	317	1 90, 615 127	7,437 2	24,603	10, 320
Egypt Rhodesia	405		3,960	94	4, 641	3, 786
Transvaal West Africa All other countries	14, 439 356 113	417	145, 093 3, 667 1, 056	11 12, 195	184, 954 4, 216 1, 003	8 33, 434
Total	22, 339	20, 245	291, 985	241, 615	303, 725	377, 505

MOVEMENTS TO AND FROM BRITISH INDIA

[In thousands of dollars]

1929

From or to-	J	uly	Januar	y-July	Calend	ar year
	Im- ports	Ex- ports	Im- ports	Ex- ports	Im- ports	Ex- ports
England United States	407		6, 356		10, 461 22	
A den and dependen- cies Arabia	34		$406 \\ 479$		1, 045 1, 287	
British Oceania Bahrein Islands Ceylon	20		5, 551 100 2, 038		7,701 119 4,151	i
China Mesopotamia Straits Settlements	$652 \\ 150$		1, 432 1, 478 1, 160	14	188 2, 613 19	
Egypt Natal All other countries	88 829		1, 176 17, 470		6, 867 29, 595 206	19
Total	3, 404		37, 688	15	64, 275	48
	1	I				1

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FOREIGN EXCHANGE RATES

[Monthly averages of daily quotations.1 In cents per unit of foreign currency]

		Par		1930				Par		1930	
Country	Monetary unit	of ex- change	August	Septem- ber	October	Country	Monetary unit	of ex- change	August	Septem- ber	October
EUROPE						SOUTH AMERICA					
Austria Belgium Bulgaria Czechoslovakia Denmark England Finland France Greece Hungary	Krone Pound Markka Franc Reichsmark Drachma	$14.07 \\ 13.90 \\ .72 \\ 2.96 \\ 26.80 \\ 486.65 \\ 2.52 \\ 3.92 \\ 23.82 \\ 1.30 \\ 17.49 \\$	13. 9838 . 7219 2. 9661 26. 8150 487. 0709 2. 5175 3. 9337 23. 8893	26. 7670 486. 1101 2. 5173 3. 9273 23. 8229 1. 2958	14. 1046 13. 9441 . 7209 2. 9664 26. 7557 485. 8969 2. 5170 3. 9235 23. 8050 1. 2949 17. 5050	Argentina Bolivia ² Chile Colombia Ecuador ² Peru ³ Uruguay Venezuela ³ ASIA	Peso. Boliviano. Milreis. Peso. Sucre. Sol. Peso. Bolivar.	96. 48 36. 50 11. 96 12. 17 97. 33 20. 00 40. 00 103. 42 19. 30	36. 3750 9. 9571 12. 1133 96. 5246 20. 0000 35. 9808 82. 9367	36.7500 10.0850 12.1365 96.5300 20.0009 34.4100	78. 0538 36. 7500 12. 0834 96. 5300 20. 0000- 31. 2596 79. 2496 18. 5000
Italy. Netherlands Norway Poland Portugal Rumania Russia ³ Spain Sweizerland Yugoslavia	Chervonetz Peseta Krona Franc	$\begin{array}{c} 5, 26\\ 40, 20\\ 26, 80\\ 11, 22\\ 108, 05\\ .60\\ 514, 60\\ 19, 30\\ 26, 80\\ 19, 30\\ 19, 30\\ 19, 30\\ \end{array}$	26. 8101 11. 2065 4. 5046 . 5958 3 515.0000 10. 8762 26. 8914 19. 4449	40. 2880 26. 7604 11. 2063 4. 4925 5959 515. 0000 10. 7255 26. 8680 19. 4060	26. 7544 11. 2119 4. 4872 5949 3 515. 0000 10. 3448 26. 8523 19. 4193	Japan Java ² Straits Settle- ments. Turkey	Mexican dollar Shanghai tael Yuan dollar Dollar Rupee Yen Florin Singapore dol- lar. Turkish pound	28. 41 39. 17 27. 79 28. 20 36. 50 49. 85 40. 20 56. 78 439. 65	38. 5445 27. 7580 32. 2054 36. 0417 49. 3853 40. 3023	39. 6795 28. 5500 32. 2015 35. 9899 49. 4077 40. 3068 56. 0320	28,0003 31,9163 36,0222 49,5896 40,3188 56,1687
NORTH AMERICA Canada Cuba Mexico	Dollar Peso	100. 00 100. 00 49. 85	99.9449	99.9704	99, 9359		Egyptian pound	494. 31	^{\$} 498.2290	¢ 498. 9320	7 <u>7</u> 499. 4600 [.]

¹ Based on noon buying rates for cable transfers in New York.
² Averages based on daily quotations of closing rates as published by New York Journal of Commerce.
³ Chervonetz quotations nominal.
⁴ Silver currency. The figure given for parity represents gold value of unit in October, 1930, computed by multiplying silver content of unit by New York average price of silver for October, 1930, which was \$0.36168 per fine ounce. On the same basis, parity in October, 1929, for the Chinese-Mexican dollar was 39.46 cents; for the Shanghai tael, 54.41 cents; for the Yuan dollar, 38.60 cents; and for the Hong Kong dollar, 39.18 cents.
⁴ June, 1930.
⁶ July, 1930.

Back figures .-- See BULLETIN for January, 1930, 1929, and 1928.

CONDITION OF BANK FOR INTERNATIONAL SETTLEMENTS

[In thousands of dollars 1]

		1930	ļ		1	1930	
	Sep- tember	August	July		Sep- tember	August	July
RESOURCES	i			LIABILITIES			
Cash on hand and on current account with banks Demand funds at interest	1, 073 13, 290	641 20, 765	1, 315 15, 532	Short-term deposits: Central banks for own account— Demand Time: Not exceeding 3 months	14, 002 51, 889	14, 381 50, 646	18, 349 30, 955
Rediscountable bills and acceptances (at	1		ļ	Time: Between 3 and 6 months	37, 289	24, 930	10, 963
cost): Commercial bills and bankers' accept-		29, 429	35, 539	Total	103, 179	89, 957	60, 267
ances Treasury bills	19,463	16, 308	34, 827	Central banks for account of others- Demand	24, 697	28, 257	42,055
Total	58, 779	45, 737	70, 366	Time: Not exceeding 3 months Time: Between 3 and 6 months	112, 441	27, 436 76, 018	15, 045 52, 572
Time funds at interest: Not exceeding 3 months Between 3 and 6 months Between 6 and 9 months	29,714	104, 541 85, 110 14, 595	57, 506 68, 278 14, 594	Total Other depositors: Demand. Time: Not exceeding 3 months	144, 700 23	131, 711	109, 672
Total	217, 312	204, 246	140, 378	Long-term deposits:			
Sundry investments (at cost): Maturing within 2 years Over 2 years	35, 853 202	29, 032 282	20, 830 2, 635	Annuity frust account German Government deposit French Government guarantee fund	29, 786 15, 424 13, 262	29, 824 14, 748 13, 190	29, 839 16, 920 13, 187
Total Other resources		29, 314 1, 080	23, 465 549	Total Capital paid in Other liabilities	58, 472 19, 783 2, 024	57, 762 19, 783 1, 351	59, 946 19, 783 719
Total resources	328, 181	301, 782	251, 605	Total liabilities	328, 181	301, 782	251, 605

¹ Converted into dollars from Swiss francs at par: 1 Swiss franc=\$0.1930.

CONDITION OF CENTRAL BANKS

[Figures are for the last report date of month]

		1930		1929			1930		1929
	Sep- tember	August	July	Sep- tember		Sep- tember	August	July	Sep- tember
Bank of England (millions of pounds sterling): Issue department— Gold coin and bullion Banking department— Gold and ilver c oin Bank notes Government securities Other securities Discounts and advances Public deposits	157. 4 416. 3 1. 1 60. 5 41. 1 21. 6 5. 7 13. 3 64. 2	154. 8 414. 8 1. 0 54. 0 49. 1 22. 2 6. 5 18. 2 62. 6	152. 3 412. 3 1. 0 43. 9 51. 7 22. 3 6. 7 9. 1 61. 0	131.9 391.9 1.3 30.9 68.9 22.2 3.2 14.7 57.0	Central Bank of Bolivia (thousands of bolivianos): Gold. Foreign exchange. Loans and discounts. Notes in circulation. Deposits. Bank of Brazil (millions of milreis): Gold. Currency. Correspondents abroad. Loans and discounts. Securities.	35, 080 14, 424	2, 734 43, 119 20, 822 36, 088 13 365 407 418 299 1, 682 126	4, 731 42, 930 21, 761 36 885 15, 123 407 469 268 1, 547 125	9, 260 46, 830 22, 918 44, 750 15, 394 407 709 264 1, 282 133
Bankers' deposits Other deposits Reserve ratio 1 (per cent) Bank notes in circulation 3	34. 2 55. 2 355. 8	33.8 48.0 360.9	37.4 41.8 368.4	$36.4 \\ 29.7 \\ 361.1$	Notional Bank of Bulgaria (millions		592 1, 549	123 592 1,486	592 1, 514
Bank of France (millions of francs): Gold. Sight balances abroad Foreign bills. Loans and discounts. Negotiable bonds. Note circulation. Public deposits. Other deposits.	8, 984 5, 304 73, 053	47, 242 6, 838 18, 764 9, 200 5, 304 73, 677 10, 109 7, 734	45, 283 7, 104 18, 979 8, 911 5, 395 72, 110 9, 132 8, 363	39, 411 7, 210 18, 623 11, 576 5, 612 66, 639 13, 629 5, 958	of leva): Cloid Net foreign exchange Total foreign exchange Loans and discounts Covernment obligations Note circulation. Other sight liabilities Central Bank of Chile (millions of	1, 434 234 1, 164 782 3, 279 3, 660 1, 375	1, 428 223 1, 155 788 3, 279 3, 683 1, 372	1, 422 187 910 845 3, 279 3, 435 1, 446	$1, 385 \\1, 200 \\1, 640 \\1, 614 \\3, 546 \\4, 222 \\2, 204$
German Reichsbank (millions of reichsmarks): Gold reserve	2, 329 150 171 2, 387 472 4, 744 448	2, 469 150 369 1, 942 416 4, 707 448	2, 469 150 261 1, 930 398 4, 638	2, 062 150 335 2, 828 501 4, 914	Gold at home	62 362 32 316 70	63 7317 77 321 65	63 * 299 97 322 57	63 471 77 339 126
Rentenmarks in circulation Bank of Italy (millions of lire): Gold at home Credits and balances abroad Loans and discounts Total note circulation Public deposits Other deposits	5, 291 4, 969 4, 137 16, 172	5,232 5,103 3,929 16,074 300 1,674	448 5, 210 5, 080 3, 854 16, 182 300 1, 849	439 5, 176 5, 064 5, 433 16, 916 300 1, 544	(thousands of pesos): Gold at home. Gold abroad. Loans and discounts. Note circulation. Deposits. Czechoslovak National Bank (mil-	20, 549 8, 751 11, 090 26, 363 5, 136	20, 130 11, 460 11, 820 27, 075 6, 647	20, 827 8, 233 12, 188 28, 398 6, 568	24, 957 22, 722 15, 360 41, 862 9, 941
Bank of Japan (millions of yen): Gold. Advances and discounts Government bonds Notes issued Total deposits.	868 710 118 1,072 741	868 776 79 1, 165 635	880 735 80 1, 104 677	1, 062 770 194 1, 286 837	lions of Czechoslovak crowns): Gold Foreign balances and currency Assets of banking office in liqui- dation Note circulation Deposits.	1, 413 2, 423 284 7, 198 575	1, 414 2, 309 337 334 7, 077 555	1, 414 2, 063 393 342 6, 897 482	1, 157 1, 838 1, 147 392 7, 697 475
Commonwealth Bank of Australia (thousands of pounds sterling): Issue department Gold coin and bullion Securities Banking department Coin, bullion, and cash	20, 177 4, 691 1, 549	19, 976 4, 941 1, 555	20, 006 4, 941 1, 528	23, 441 18, 272 2, 504	Danish National Bank (millions of kroner): Gold Foreign bills, etc Loans and discounts Note circulation Deposits.	172 81 78 345 29	172 71 88 350 27	172 66 86 347 28	173 94 70 353 30
Money at short call in Lon- don. Loans and discounts. Securities. Deposits. Bank notes in circulation	22, 708 41, 133	5, 106 11, 015 22, 458 40, 887 37, 857	5,802 10,947 21,458 40,972 38,005	6, 653 13, 691 14, 922 36, 558 37, 908	Bank of Danzig (thousands of Dan- zig gulden): Balances with Bank of England Foreign bills, etc Loans and discounts Note circulation Deposits	13, 027 9, 041 24, 117 37, 616 1, 720	14, 295 10, 633 21, 780 37, 583 1, 904	14, 771 11, 320 19, 508 36, 639 1, 893	17, 070 12, 360 22, 926 39, 494 2, 007
Austrian National Bank (millions of schillings): Gold Foreign exchange of the reserve Other foreign exchange Domestic bills Government debt Note circulation Deposits	215 218 479 96 101 1,008 103	169 274 478 110 101 1,018 117	169 273 470 115 101 1,021 115	169 216 357 289 110 1,079 65	Central Bank of Ecuador (thousands of sucres): Gold	5, 606 23, 992 14, 142	5, 603 25, 220 14, 359 24, 414 14, 860	5, 607 25, 856 14, 349 26, 538 15, 116	5, 579 27, 609 15, 488 31, 262 14, 725
National Bank of Belgium (millions of belgas): Gold Foreign bills and balances in gold Domestic and foreign bills Loans to State Note circulation Deposits	311 3, 051	1, 210 872 776 311 3, 056 165	1, 204 844 776 311 3, 083 112	1, 023 551 748 343 2, 628 90	krones): Gold Net foreign exchange Loans and discounts Note circulation Deposits- Government Bankers	6, 546 16, 958 24, 943 33, 638 7, 033 4, 789 1, 793	6, 533 16, 424 24, 687 33, 241 7, 586 4, 442 1, 393	6, 526 16, 803 24, 860 31, 897 9, 401 4, 959 1, 808	6, 350 21, 025 26, 356 35, 791 9, 121 4, 420 1, 958

Ratio of gold and notes in banking department to deposit liabilities.
Notes issued, less amounts held in banking department and in currency note account.
Revised.

CONDITION OF CENTRAL BANKS-Continued

[Figures are for the last report date of month]

		1930		1929			1930		1929
	Sep- tember	August	July	Sep- tember		Sep- tember	August	July	Sep- tember
Bank of Finland (millions of Fin- nish marks): Gold Balances abroad and foreign credits Foreign bills Domestic bills Note circulation Demand liabilities	301 869 197 578 1,350 94	302 907 191 583 1,352 149	301 249 185 630 1, 355 206	302 547 19 1, 290 1, 440 146	Bank of Poland (millions of zlotys): Gold at home	484 77 322 115 784 1, 373 67 125	484 219 226 119 696 1,355 98 144	484 219 222 111 685 1, 321 89 153	$43 \\ 23 \\ 42 \\ 9 \\ 80 \\ 1,35 \\ 28 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 1$
Bank of Greece (millions of drach- mas): Gold Net foreign exchange in reserve Total foreign exchange Loans and discounts Government obligations Note circulation Other sight liabilities	522 2, 957 3, 747 324 3, 389 5, 077 1, 680	516 2, 853 3, 770 306 3, 489 4, 761 1, 876	566 2,712 3,853 282 3,489 4,816 1,576	623 2,822 4,996 174 3,597 5,414 1,496	Bank of Portugal (millions of escu- dos): Gold Balances abroad Note circulation Deposits National Bank of Roumania (millions			9 169 317 1,951 81	38 32 1,93 4
National Bank of Hungary (mil- lions of pengös): Gold Foreign bills, etc Loans and discounts Advances to treasury Other assets Note circulation Deposits Miscellaneous liabilities	163 25 189 69 89 430 28 51	163 42 198 70 101 440 58 51	163 43 203 72 91 466 33 47	$ \begin{array}{r} 163 \\ 43 \\ 315 \\ 89 \\ 62 \\ 478 \\ 112 \\ 54 \end{array} $	of lei): Gold at home Gold abroad Foreign exchange of the reserve Other foreign exchange Loans and discounts State debt Note circulation Deposits State Bank of Russia (thousands of chervontsi):	5, 356 3, 919 1, 613 159 8, 378 5, 349 19, 355 6, 806	5, 356 3, 919 1, 595 8, 696 5, 599 19, 134 7, 006	5,3563,9191,527408,7485,69918,5346,979	5, 17 3, 59 6, 03 7 10, 00 7, 47 21, 39 10, 75
Bank of Java (millions of florins): Gold Foreign bills Loans and discounts Note circulation Deposits	139 29 53 257 43	139 29 50 261 38	139 34 53 267 53	$ \begin{array}{r} 147 \\ 37 \\ 140 \\ 306 \\ 66 \end{array} $	Loans and discounts Deposits Issue department— Gold Other precious metals Foreign exchange Note circulation			45, 424 2, 549 5, 959	419, 89 214, 75 25, 59 3, 84 7, 76 146, 62
Bank of Latvia (millions of lats): Gold Foreign exchange reserve Bills Loans Note circulation Government deposits Other deposits	24 47 87 57 48 91 75	24 46 88 54 47 92 77	24 44 88 56 45 93 77	24 49 92 57 46 91 76	South African Reserve Bank (thou- sands of pounds sterling): Gold	6, 694 7, 250 40 7, 743 2, 065 4, 444	6, 843 7, 511 360 8, 676 1, 881 4, 764	6, 488 7, 736 206 7, 459 2, 312 4, 730	7, 94 7, 18 1, 99 9, 13 2, 16 4, 62
Bank"of Lithuania (millions of litas): Gold Foreign currency Loans and discounts Note circulation Deposits Netherlands Bank (millions of	35 94 94 109 106	35 76 93 103 95	35 78 90 100 96	34 53 90 94 78	Others	131 2,475 712 38 2,103	$ \begin{array}{r} $	122 2,472 721 32 1,923 4,396	29 2, 56 71 8 2, 24 4, 35 92
florins): Oold Foreign bills. Loans and discounts. Note circulation Deposits.	391 243 140 831 21	391 234 132 800 25	391 241 136 809 16	443 186 187 852 20	Deposits. Bank of Sweden (millions of kronor): Gold. Foreign bills, etc. Loans and discounts. Note circulation. Deposits.	242 398 158 613 109	826 242 349 160 570 106	818 243 360 131 551 110	24 22 37 58 16
Bank of Norway (millions of kroner): Gold Foreign balances and bills Domestic credits Note circulation Foreign deposits Total deposits	217 309 1	$147 \\ 24 \\ 220 \\ 315 \\ 1 \\ 62$	$147 \\ 22 \\ 222 \\ 315 \\ 1 \\ 60$	$147 \\ 55 \\ 251 \\ 316 \\ 1 \\ 91$	Swiss National Bank (millions of francs): Gold	640 335 70 987 157	639 342 65 943 176	610 333 79 928 171	533 210 220 94
Reserve Bank of Peru (thousands of soles): 1 Gold Gold against demand deposits Foreign exchange reserve Bills Note circulation Deposits	17,041 56,443	39, 584 3, 572 10, 473 16, 966 56, 524 7, 145	40, 811 2, 251 12, 746 14, 863 57, 081 4, 501	45, 976 7, 750 21, 157 18, 343 64, 342 12, 734	National Bank of the Kingdom of Yugoslavia (millions of dinars): Gold. Foreign notes and credits. Loans and discounts. A dvances to State. Note circulation. Deposits.	98 189 1, 503 2, 997 5, 536 998	98 202 1, 441 2, 997 5, 521 1, 072	98 226 1, 394 2, 997 5, 317	94 285 1, 59 3, 000 5, 699 1, 029

¹ Figures for September, 1929, have been converted from libras (par \$4.8665) into soles (par \$0.4000). See Federal Reserve Bulletin for May, 1930.

CONDITION OF COMMERCIAL BANKS

		ons of na currency					Milli	ions of de	ollars			
Country		1930			1929				19	30		
	July	August	Septem- ber	July	August	Septem- ber	April	Мау	June	July	August	Septem ber
Canada:		ions of d	ollars									
Gold and subsidiary coin 1	63 422	62 445	62 413		61 584	61 594	60 415	60 417	60 435	63 422	62 445	61 41
Money at call and short notice Current loans and discounts	1,502	1,483	1,481	1, 572	1, 585	1,639	1,601	1, 573	1,550	1,502	1,483	1,48
Public and railway securities	447	458	480	470	462	487	428	431	444	447	458	48
Note circulation	152	166	164	170	190	197	155	165	166	152	166	16
Individual deposits	2, 391	2, 387	2,460	2, 578	2, 551	2,654	2, 472	2,401	2, 449	2, 391	2,387	2,46
Gold reserve against Dominion notes	77	83	83 170	59	60 199	60 201	64 174	65 170	66 174	77 166	83 163	8
Dominion note circulation	166	163	170	196	199	201	1/4	110	1/4	100	103	11
Bank of the Nation-	Mil	lions of 1	00808			Í	í		1			1
Gold	7	7		65	62	57	6	6	6	6	6	
Other cash	126	121		125	122	122	108	110	104	104	100	
Loans and discounts	593 731	603 730		542	552	554 723	533 646	492 629	495 613	486 599	497 602	
Deposits Other banks in Buenos Aires—	731	/30		734	104	120	040	029	019 .	099	002	·
Gold	10	10		12	12	12	10	10	10	10	10	!
Other cash	199	214		156	161	160	166	165	166	163	177	
Loans and discounts	867	865		852	853	861	780	759	735	712	713	
Deposits	1,007	1, 026 ions of p		972	975	979	890	875	857	826	847	
England:	11/110	ster/ing	ounus	1	1							
Cash in vault and at banks		188	186	924	915	929	911	897	921	931	915	90
Money at call and short notice	143	135	134	696	701	725	650	666	699	697	657 5,912	65
Advances and discounts	1, 236 241	1, 215 250	1, 211 255	5, 932 1, 178	5,864 1,176	5,803 1,175	5,729 1,095	5,857 1,127	5,993 1,132	6, 015 1, 171	1.217	5, 89 1, 24
Investments	1,794	1,767	1,764	8,654	8, 558	8, 534	8,331	8,478	8,701	8,730	8,600	8,48
France:	Mil Mil	lions of f	rancs	0,001	0,000	0,001	0,001	0, 100	0,001		.,	0, 10
Bills and national-defense bonds	20, 198			782	757	770	773	762	793	792		
Loans and advances	11, 415			415	418	422	440	420	425	448		
Demand deposits Time deposits	30,232			1,272	1,237 42	1,248 40	1, 325 57	1,338 61	1,378 57	1,185 56		
Germany:	Millio	ns of reic	hsmarks	03	1 14	-10		01		00		
Bills and treasury notes	2,964	2,918	1 2.654		644	669	755	755	776	706	695	63
Due from other banks	1,218	1,054	1,096		328	336	271	275	265	290	251 2.047	26
Miscellaneous loans	8, 579 12, 067	8,592 r 11,804	8, 627 11, 672	ļ	1,902	1, 935 2, 760	2, 076 2, 921	2, 059 2, 916	2, 046 2, 929	2, 044 2, 874	2,047	2, 05 2, 78
Deposits. Acceptances.	12,007	522	546		121	121	117	116	2, 929	121	12, 812	13
Denmark:	1 Mill	ions of k	roner	1		1] –					
Loans and discounts Due from foreign banks	1,818	1,823	1	476	476	476	491	486	489	487	489	
Due from foreign banks.	123	128		37	39	43	30 22	29 22	33 18	33 18	34 18	
Due to foreign banks Deposits and current accounts	66 2.010	68 2,015		18 523	528	533	532	532	537	539	540	
Norway:		lions of l	roner	. 020	0.00							
Loans and discounts	1,224	1,211	1, 210	339	340	337	333	331	328	328	325	32
Due from foreign banks	120	124	105	33	35	36	30	30	28	32	33	2
Due to foreign banks	65	65 76		22 26	23 27	22 27	21 24	$20 \\ 22$	18 21	18 21	17 20	2
Rediscounts Deposits			1. 477	417	418	417	402	399	397	399	398	39
Sweden:	Mil	lions of k	ronor	!!	1						1.	-
Loans and discounts. Foreign bills and credits abroad. Due to foreign banks.	4, 437	4,487		1, 120	1,125	1,128	1, 167	1, 173	1, 181	1,189	1, 193	
Foreign bills and credits abroad	304 237	283 220		74	82 31	93 34	70	68 42	72 69	81 64	76	
Rediscounts	23	220		51	54	57	24	15	19	4	10	
Deposits.	3,722			946	946	955	989	981	978	997	994	
Japan:	M	illions o	fyen	6								
Cash on hand	. 197	181	281	118	141	140	140	128	115	98	90	14
Total loans	2,176	2,148	2,446 2,068	951 952	974	971 982	1,061 1,017	1,077 1,021	1,093 1,033	1, 085 1, 623	1,071 1,022	1, 21
Total deposits	2,052	2,051	Z.008	n 952	1 983	982	1 1,01/	1,021	1,033	1,023	1.022	1,00

¹ Not including amounts held abroad.

· Revised.

Nore.—Banks included are as follows: Canada—Chartered banks; England—nine London clearing banks; France—four commercial banks Germany—six Berlin banks; Denmark, Norway, and Sweden—joint-stock banks; Japan—Tokyo banks.

DISCOUNT RATES OF CENTRAL BANKS

[Rate prevailing November 1, 1930, with date of latest change]

Country	Rate	In effect since	Country	Rate	In effect since	Country	Rate	In effect since—	Country	Rate	In effect sinc e —
Austria Belgium Bulgaria Chile Colombia Czechoslovakia_ Danzig Denmark	5 2 ¹ / ₂ 7 10 7 4 5 4	Sept. 10, 1930 Aug. 1, 1930 Aug. 26, 1930 July 2, 1929 Aug. 4, 1930 Sept. 18, 1930 June 25, 1930 Oct. 10, 1930 May 3, 1930	Ecuador_ England_ Estonia Finland France Germany_ Greece Hungary India	3 7 6 2½ 5 9	Oct. 9, 1930 Nov. 30, 1928	Italy Japan Latvia Lithuania Netherlands, Norway Peru Poland		May 19, 1930 Oct. 7, 1930 Mar. 1, 1930 Oct. 1, 1930 Apr. 1, 1930 Mar. 25, 1930 Mar. 21, 1930 Sept. 1, 1930 Oct. 3, 1930	Portugal Rumania Russia SouthAfrica. Spain Sweden Switzerland. Yugoslavia	9 8 5 ¹ /2 6 3 ¹ /2 2 ¹ /2	Nov. 26, 1929 Mar. 22, 1927 Sept. 29, 1930 July 17, 1930 Apr. 3, 1930 July 10, 1930

CHANGES: Bolivia—August 26, from 9 to 7 per cent; Danzig—October 10, from 4 to 5 per cent; Estonia—October 7, from 8 to 7 per cent; Germany— October 9, from 4 to 5 per cent; Japan—October 7, from 5.48 to 5.11 per cent; Latvia—October 1, from 6-7 to 6 per cent; Poland—October 3, from 61/2 to 7/2 per cent; South Africa—September 29, from 6 to 51/2 per cent.

MONEY RATES IN FOREIGN COUNTRIES

		England	(London)		Ge	rmany (Berl	in)	Netherland da		Switzer- land
Month	Bankers' accept- ances, 3 months	Treasury bills, 3 months	Day-to-day money	Bankers' allowance on deposits	Private discount rate	Money for 1 month	Day-to-day money	Private discount rate	Money for 1 month	Private discount rate
1929—April May June	5.21	5, 18 5, 21 5, 35	$\begin{array}{r} 4.43 \\ 4.67 \\ 4.23 \end{array}$	3}5 375 375 375	6. 63 7. 49 7. 50	7.57 9.65 9.89	6, 85 9, 32 7, 90	5.36 5.37 5.30	5, 81 5, 88 5, 30	3. 45 3. 34 3. 26
July August October November December	5.59 6.13 5.35	5.39 5.48 5.63 6.19 5.30 4.75	4.54 4.35 4.39 5.45 5.15 4.23	312 332 332 332 432 432 4 4 -332 332 -3	7, 39 7, 18 7, 18 7, 28 6, 89 6, 98	9,43 9,48	8. 21 7. 42 7. 86 8. 06 7. 79 8. 14	5.20 5.06 5.36 5.15 4.26 3.52	4.90 4.68 5.32 4.52 4.17 3.87	3, 19 3, 33 3, 38 3, 38 3, 38 3, 32 3, 15
1930—January February A pril May June July August September	3.82 2.78 2.48 2.16 2.31	4.04 3.72 2.55 2.49 2.11 2.30 2.38 2.17 2.05	$\begin{array}{c} 3. 62 \\ 3.76 \\ 3.20 \\ 2.28 \\ 1.93 \\ 1.93 \\ 1.78 \\ 1.85 \\ 1.68 \end{array}$	$\begin{array}{c} 3\\ 3 & -2\frac{1}{2}\\ 2\frac{1}{2} & -1\frac{1}{2}\\ 1\frac{1}{2}\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\end{array}$	$\begin{array}{c} 6.33\\ 5.53\\ 5.12\\ 4.46\\ 3.89\\ 3.58\\ 3.40\\ 3.24\\ 3.30\end{array}$	$\begin{array}{c} 7.71\\ 6.72\\ 6.35\\ 5.57\\ 5.00\\ 4.80\\ 4.57\\ 4.43\\ 4.54\end{array}$	$\begin{array}{c} 6.03\\ 6.01\\ 5.57\\ 4.40\\ 3.62\\ 3.74\\ 4.30\\ 3.73\\ 3.78\end{array}$	2. 99 2. 80 2. 50 2. 52 2. 29 1. 89 1. 85 1. 83 1. 96	$\begin{array}{c} 2.85\\ 2.94\\ 2.61\\ 3.08\\ 2.53\\ 1.93\\ 1.85\\ 1.63\\ 1.84\end{array}$	$\begin{array}{c} 2.\ 97\\ 2.\ 71\\ 2.\ 60\\ 2.\ 61\\ 2.\ 44\\ 2.\ 06\\ 1.\ 92\\ 1.\ 75\\ 1.\ 50\end{array}$
	Belgium (Brussels)	France (Paris)	Italy (Milan)	Austria (Vienna)	Hur	igary	Sweden (Stock- holm)	Japan (Tokyo)
Month	Private discount rate	Private discount rate	Private discount rate	Private discount rate	Money for 1 month	Prime commer- cial paper	Day-to-day money	Loans up to 3 months	Discounted bills	Call money overnight
1929—April May June	3.97 3.96 3.97	3.44 3.49 3.50	6.75 6.83 6.75	65/16-71/4 71/8 -71/4 73/16-71/4	73%-834 8 -9 81⁄4-9	814-9 858-914 834-934	7 -9 7 -9 7 -9	41/2-61/2 41/2-61/2 41/2-61/2	5. 48-5. 66 5. 48-5. 66 5. 48-5. 66	3.65 3.29 3.29
July August September October November December	4.93 4.94 4.94 4.57	3, 50 3, 50 3, 50 3, 50 3, 50 3, 50	6.75 6.85 7.01 7.18 7.00 7.00	$\begin{array}{rrrr} 7\frac{1}{4} & -7\frac{3}{8} \\ 7\frac{1}{4} & -7\frac{7}{18} \\ 7\frac{3}{8} \\ 8 & -8\frac{1}{8} \\ 7\frac{3}{4} & -8\frac{1}{4} \\ 7\frac{1}{4} & -7\frac{3}{4} \end{array}$	814-9 814-9 814-914 9 -10 834-10 834-10	9 -1014 81/2- 934	634-8 714-8 612-734	5½-7 5½-7 5½-7	5. 48–5. 66 5. 48 5. 48 5. 48 5. 48 5. 48 5. 48 5. 48	3. 10 3. 10 2. 92 3. 47 3. 47 3. 10
1930—January February March A pril May June July	3.41 3.31 3.33 2.87 2.78	3. 38 2. 91 2. 70 2. 57 2. 36 2. 11 2. 08	7.00 6.95 6.57 6.43 5.81 5.50 5.50	612-714 6146-614 558 -6 5 -512 458 -5 412-41146 4346-412	756-876 7 -8 634-734 635-716 636-7 6 -632 6 -632 6 -632 6 -632	$\begin{array}{r} 7 & - 914 \\ 634 - 814 \\ 614 - 814 \\ 614 - 814 \\ 576 - 8 \\ 514 - 8 \end{array}$	51/2-61/2 5 -61/2 47/8-6 41/2-61/4	4 -6 3½-5½ 3½-5½ 3½-5½	5.48 5.48	2.74 3.83 3.65 3.10 3.83 3.65 3.83 3.65

NOTE.-For sources used, methods of quotation, and back figures, see BULLETIN for November, 1926, April, 1927, July, 1929, November, 1929, and May, 1930.

1	United	i States	Cor	ada	Fra	land	Fee	ince	0	nany	т.	aly	T	pan
Month		- States					F IS		Geri	пацу			Ja]	pan
	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930
anuary	97	93	94	96	138	131	657	576	139	132	461	417	228	20
nuary arch ril ay ne ly	97	92	95	94	138	128	660	567	139	129	463	408	226	1 7 20
arch	98	91	96	92	140	125	654	558	140	126	461	400	226	11
)r11	97 96	91 89	95 9 3	92 90	139 136	124 122	648 643	548 546	137 136	127 126	455	396 390	225 223	19
ne	96	87	94	88	136	121	629	540	135	120	452 447	382	223	11
y	98	87 84	97	88 86	137	119	624	558	138	125 125	440	375	220	1
y gust totember tober vember	98 98	84 84	98	84 83	136	118	598	r 560	138	125	437	379	218	1
btember	98 96	84	r 98 97	83	136 136	116	608 607	555	138 137	123	437 436	375	218 216	1
vember	94		96	•••••	134		603		136		431		210	
cember	94		96		133		596		134		425		205	
		<u> </u>								<u> </u>		<u> </u>) h East
	Aus	tralia	Aus	stria	Bel	gium 	Ch	ina 	Czecho	slovakia	Den	mark	Inc	dies
	1929 	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930
anuary ebruary pril ay ily ugust ptember ovember ecember	$157 \\ 156$	151	128 130	125	$\frac{867}{865}$	808	160	170	139 139	126	151	143	149	14
orch	150	147 144	130	123 121	869	791 774	162 164	175	139	124 122	159 154	140 136	149 150	14
oril	158	146	134	119	862	777	161	174	141	121	150	135	148	1 1:
ay	$156 \\ 158$	148	135	118		774	162	173	137	120	148	132	150	1
ne	158	145 144	134 132	121 119	848 858	750 739	163 163	186 190	134 135	119 120	146 149	130 129	149 149	1
iguist	160		132	118	850	729	165	189	134	118	150	128	148	
ptember	163		128	115	846	712	167	188	132	115	150	126	148	
stober	161 158		$\frac{127}{125}$	'	838 834		168 165		131 130	113	149 147		147 146	
ecember	154		123		823	•••••	165		128		146		144	
		ypt	Finl	and	Hun	gary	Ine	dia	Nethe	rlands	New Z	ealand	Nor	way
	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930
	105							131						
nuary	$\frac{125}{122}$	109 106	100 100	94 93	132 136	106 104	145 144	131	146 146	131 126	$155 \\ 155$	155 155	149 150	14
[arch	123	101	100	92	136	100	143	125	147	122	155	154	150	14
pril	120	101 101	99 98	92 90	135	96 96	140 139	123 121	144 142	122 118	155	154 154	148	1
ay	114 108	101	- 98	90	123 122	90 94	139	116	142	118	155 155	154	146 147	i
ly	109	102	97	90	119	99	142	115	141	115	156	152	149	1
ugust	112 113	104 104	97 96	89 88	114 109	93	143 143	114	142 141	114	156 157		148 148	1
ptember	115	104	96 96	00	111	*****	143		141		157	- 	148	1
ovember	112		95	·	107		137		137		155		146	
nuary bbruary bbruary ril arch ril ag ne ay ne ugust ugust ptember stober ovember 	110		95		107		134		135		154		146	
	Pe	əru	Pol	and	Ru	ssia	South	Africa	Sp	ain	Swe	den ,	Switz	erland
	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929	1930
nuary	186	181	98	88	177	182	135	121	171	172	144	131	143	13
opruary	$ 185 \\ 189 $	181 180	99 99	85 85	177 178	$ 185 \\ 187 $			173 174	7 173 7 173	145 144	128 125	143 142	
al Ull	185	179	98	85	179	187	131	117	174	172	141	124	140	
	186	179	95	83	180	188			171	168	140	123	139	î
ау		178	95	83	181	187			170	166	139	123	139	1
ay	186		00	0.4	100									
ay ne ly onst	187	177	96	83 84 82	180 180	189 188	129	112	169 170	170	140 141	121 121	143 143	1
ne ne Igust ptember	187 187 186	177 175 178	96 95 94	84 82 80	180 181	189 188		112	170 171		141 140	121 121 119	143 142	1
nuary bruary arch ay ne ly igust tober ovember	187 187	177 175	96 95	82	180	189 188		112 	170		141	121	143	1

PRICE MOVEMENTS IN PRINCIPAL COUNTRIES

Revised.

Note.—All of the indexes shown, with two or three exceptions, are compiled by official agencies in the countries to which they relate, as indicated specifically in the BULLETIN for March (p. 124), where references are also given to sources in which current figures of the index numbers may

Cated specifically in the Boll Erins of Match (p. 124), where relevances are also given to sources in which current legites of the index humbers have be found.
 The base periods are as follows: United States-1926; Australia-July, 1914; Kastria-January-July, 1914; Belgium-April, 1914; Canada-1926; China-Fobruary, 1913; Czechoslorakia-July, 1914; Denmark-1913; Dutch East Indies-1913; Egypt-January 1, 1913-July 31, 1914; England-1913; Finland-1926; France-1913; Germany-1913; Hungary-1913; India-July, 1914; Indy-1913; Japan-October, 1900; Netherlands-1913; New Zealand-1909-1913; Norwag-December 31, 1913-Jule 30, 1914; Peru-1913; Poland-1927; Russia-1913; South Africa-1910; Spain-1913; Sweden-1913; Switzerland-July, 1914.

Annual indexes for the years 1925-1929 and in certain cases for 1913 and 1914 were given in the BULLETIN for April (p. 256).

WHOLESALE PRICES—GROUPS OF COMMODITIES

							Other	commodi	ties				Non- agricul-
UNITED STATES (1926- 100)	All com moditie	- Farm s products	Foods	Total 1	Hides and leather products	Textile products	Fuel and lighting materials	metal	1100011000	Chemi- cals and drugs	House- furnish- ing goods	Miscel- laneous	tural com-
1929—September	98	107	103	93	111	93	81	104	98	94	97	82	95
1930-March	91	95	94	89	103	87	77	101	95	91	97	78	90
April	91 89		95 92	88 88	103 103	86 85	78 78	99 97	95 93	91 90	96 96	79 78	89 88
May June	87	89	91	86	103	82	76	95	90	89	96	75	86
ไม่ไข	84		86	84	101	80	75	94	89	88	96	72	84
August September	84 84		87 89	83	99 99	78 76	75 76	93 92	87 86	87 87	96 95	71 70	84 84
			F	oods	<u></u>		·	Ir	idustrial p	roducts			
ENGLAND (1913=100)	All con modiție		Cereals	Meat and fish	Other foods	Total	Iron and steel	Coal	Other minerals and metals	³ Cotton	Wool		Miscel- laneous
1929-September	136	143	141	143	145	132	115	126	116	154	158	132	138
1930-March			114			122	115	127	107	131	129		127
April May			117			121 119	114	122		131 130	127 129		127 128
June	121	127	111	135	137	117	114	117	93	126	127	104	126
July August	119		108			115 113	113 112			123 119	124		124
September			105					120		113	119		121
		Farm	Farm and food products								,		
FRANCE (1913=100)	All con moditie		Anima product		Total	Mineral and metals	Textiles	Hides and leather	Chemi- cal prod- ucts	Rubbe	r Paper	Lumbe	Cement and brick, etc.
1929-September	608	551	639	499	656	561	725	452	603	117	677	969	636
1930-March	558		62							90	667		708
April May	- 548		599 570							86	667 667		708
June	- 540	488	583	428	587	542	583	403	593	74	667	978	708
July August			59. + 58							65 59	664 654		725
September	558		61				2 517			48	654		725
				Agricu	ltural pro	ducts				rial raw	and sem	ifinished	products
GERMANY (1913=100		dities 7	otal V	egetable foods	Cattle	Animal products	Fodder	Provi- sions	Total		oal	Iron	Nonfer- rous metals
1929—September		138	133	125	134	149	120	1		32	137	131	118
1930-March		126	110	109	116	118	86				138	129	109
April May June		127 126	$112 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 1111 \\ 1111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 111 \\ 11$	118 119	113 110	110 109	99 96		7 1	25 24	136 136	128 128	103 90
June		125 125	110	118	$109 \\ 112$		90		5 1	22 19	135	126 125	87 84
July August		125	115 117	120 124	$112 \\ 112$	121 121	97 100			18	136 136	125	82
September		123	114	117	108	125	97	10	8 1	16	137	124	80
			· · · ·	al raw an	1.	shed prod	uctsCor	1		Ind	ustrial f	inished p	
	Te	xtiles a	ides of the contract of the co	cals f	Artificial ertilizers	Fechnical oils and fats	Rubber	Paper materia and pap				Pro- lucers' goods	Con- sumers' goods
1929—September		136	122	127	82	134	28	15		62	157	140	17(
1930-March		114 116	111 110	127 127	86 86	$\frac{126}{127}$	22 21	15 14		57 57	153 152	139 139	163 163
April May		116	111	126	83	135	20	14	7 1	56	152	139 j	161
June		111	112 108	126	84 78	134	18	14	5 1	53	151	138	161
July August		105 101	108	125 125	79	131 133	17 15	14	9 1	49 45	151 149	138 138	160 158
September		96	111	125	80	129	13	13		42	148	138	157

Nore.—Annual indexes for the groups shown in the table are given for the years 1913 and 1925-1929 in the BULLETIN for April (p. 257). Original sources for these indexes are: United States—Wholesale Prices of Commodilies, Bureau of Labor Statistics, Department of Labor; England— Board of Trade Journal and Commercial Gazette, Board of Trade; France—Bulletin de la Statistique Générale de la France, Supplément Mensuel, Statistique Générale de la France; and Germany—Wirtschaft und Statistik, Statistisches Reichsamt.

LAW DEPARTMENT

Surrender of trust powers by national banks.

Section 11 (k) of the Federal reserve act with reference to trust powers of national banks was amended by act of Congress approved June 26, 1930, so as to provide that such banks might voluntarily surrender the right to act in trust capacities. The Federal Reserve Board on October 17, 1930, amended its Regulation F so as to provide a procedure for the surrender of trust powers by a national bank pursuant to the recent amendment to the statute. The only important change made in the regulation was the adoption of a new Section XIV, which is set forth below. The adoption of this section made it necessary to renumber subsequent sections of the regulation accordingly; and Section I of the regulation, which sets forth the provisions of section 11 (k) of the Federal reserve act, was amended so as to set forth these provisions of the statute in the form as amended by the act of June 26, 1930. The regulation in its amended form is designated Regulation F series of 1930. The new section numbered XIV is as follows:

SECTION XIV. SURRENDER OF TRUST POWERS

(a) Procedure.--Any national bank which has been granted the right by the Federal Reserve Board, pur-suant to section 11 (k) of the Federal reserve act, to act in any fiduciary capacity or capacities and which desires to surrender such right, shall signify such desire through a section of the surrender such right, shall signify such desire through a resolution adopted by its board of directors. A properly certified copy of such resolution of its board of directors should be filed with the Federal reserve agent of the district in which such national bank is located and should be accompanied by (1) a letter stating the reason why, or the purpose for which, such national bank wishes to surrender its right to exercise trust powers, unless such reason or purpose shall have been amply stated in the resolution itself; and (2) the permit or permits previously granted by the Federal Reserve Board to such national bank granting it the right to act in any fiduciary capacity, except that in case any such permit shall have been lost or destroyed an affidavit by any officer of such national bank as to such loss or destruction may be filed in lieu of such lost or destroyed permit. All such documents filed with the Federal reserve agent shall be promptly forwarded by him to the Federal Reserve Board with a recommendation as to the action to be taken by the Federal Reserve Board

(b) Examination.—Upon receipt of such documents, the Federal Reserve Board will request the Comptroller of the Currency, upon the occasion of the next regular examination of such national bank, to have the examiner make a special investigation of the trust department of the bank in order to determine whether the bank has actually accepted or undertaken the exercise of any trust, whether under court, private, or other appointment, pursuant to authority granted under section 11 (k) of the Federal reserve act; and if so, whether it appears from the records of the trust department in the case of each trust so accepted or undertaken:

(1) That the duties of the bank as fiduciary have been completely performed or that a substitute fiduciary has been appointed in accordance with the State law;

(2) That a final account has been filed by the bank, and that such account has been approved by the court or other proper authority where this is required by State law;

(3) That all assets and papers belonging to the trust estate have been delivered by the bank to the person or persons entitled to receive them; and

(4) That the bank has been discharged or otherwise properly relieved of its duties as fiduciary. In exceptional cases, the Federal Reserve Board may

In exceptional cases, the Federal Reserve Board may make a special examination or may request the Comptroller of the Currency to make a special examination of such national bank in order to obtain the information above set forth.

(c) Certificate of Federal Reserve Board.—If upon receiving a copy of the report of such examination of such national bank the Federal Reserve Board shall be satisfied that such bank has been relieved in accordance with State law of all its duties as trustee, executor, administrator, registrar of stocks and bonds, guardian of estates, assignee, receiver, committee of estates of lunatics, or other fiduciary, under court, private, or other appointments previously accepted by such bank under a permit granted by the Federal Reserve Board pursuant to the provisions of section 11 (k) of the Federal reserve act, the board may in its discretion issue to such national bank a certificate certifying that such bank is no longer authorized to exercise the powers conferred upon it by such permit of the Federal Reserve Board. Such bank thereupon (1) shall no longer be subject to the provisions of section 11 (k) of the Federal reserve act or the regulations of the Federal Reserve Board made pursuant thereto, (2) shall be entitled to have returned to it any securities which it may have deposited with the State authorities or with the Federal reserve agent for the protection of private or court trusts, and (3) shall not exercise thereafter any of the powers granted by section 11 (k) of the Federal reserve act without first applying for and obtaining a new permit from the Federal Reserve Board to exercise such powers.

Eligibility of a note of an insurance agency for rediscount by Federal Reserve Bank.

The Federal Reserve Board was recently requested to rule upon the eligibility for rediscount at a Federal reserve bank of a note of an insurance agency, the principal business of which is the writing of fire, surety, and casualty insurance, the purpose of the borrowing being the carrying of accounts covering premiums due on insurance sold.

After a careful consideration of this question, the board ruled that a note of the kind described is not eligible for rediscount at a Federal reserve bank. Such a note fails to comply with one of the requirements of the board's regulations as to eligibility for rediscount in that it is not issued or drawn nor are its proceeds used in producing, purchasing, carrying, or marketing goods. Furthermore, in practical effect at least, it is a note the proceeds of which have been or are to be advanced or loaned to some other borrower.

Limitation on deposits of member banks with nonmember banks.

The attention of the Federal Reserve Board was recently called to the fact that a report of examination of a member bank disclosed that this member bank had on deposit with a nonmember bank an amount in excess of 10 per cent of its own capital and surplus, unless it was considered that the net amount of such deposit was reduced by a deposit of the non- 10 per cent of capital and surplus prescribed member bank with the member bank. The by section 19 of the Federal reserve act.

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board was asked for a ruling as to the proper construction of section 19 of the Federal reserve act on this point.

The pertinent portion of section 19 of the Federal reserve act is as follows:

No member bank shall keep on deposit with any State bank or trust company which is not a member bank a sum in excess of ten per centum of its own paidup capital and surplus.

In the opinion of the Federal Reserve Board the amount of a deposit of a member bank with a nonmember bank under this provision of law is to be determined without regard to a deposit of the nonmember institution with the member bank. The board accordingly ruled that, under the circumstances described above, the deposit of the member bank with the nonmember bank was in excess of the limitation of

DETAILED FEDERAL RESERVE STATISTICS, ETC.

FEDERAL RESERVE BANKS-RESOURCES AND LIABILITIES IN DETAIL AND FEDERAL RESERVE NOTE STATEMENT

[In thousands of dollars]

	193	10	1929
	Oct. 31	Sept. 30	Oct. 31
RESOURCES Fold with Federal reserve agents	1, 580, 615 34, 755	1, 559, 256 35, 168	1, 482, 371 65, 779
Gold held exclusively against Federal reserve notes	1, 615, 370 514, 463 874, 093	1, 594, 424 549, 362 823, 568	1, 548, 150 814, 343 641, 461
Total gold reserves	3, 003, 926 144, 734	2, 967, 354 150, 182	3, 003, 954 152, 402
Total reserves	3, 148, 660 60, 633	3, 117, 536 63, 480	3, 156, 356 77, 454
Bills discounted 1	207, 101	272, 361	999, 704
Sills bought: - Outright ²	159, 631 3, 228	193, 112 15, 630	320, 485 34, 502
Total bills bought	162, 859	208, 742	354, 987
United States securities: Bought outright Under resale agreement	601, 559	596, 538 320	271, 032 50, 050
Total United States securities.	601, 559	596, 858	321, 082
Other reserve bank credit: Other securities. Due from foreign banks. Reserve bank float ³	6, 322 702 19, 238	6, 772 701 17, 398	25, 131 721 40, 588
Total reserve bank credit outstanding	997, 781	1, 102, 832	1, 742, 213
Uncollected items not included in float Federal reserve notes of other reserve banks	496, 899 16, 418 59, 632 14, 048	557, 657 18, 266 59, 644 12, 196	713, 359 28, 711 59, 037 10, 539
Total resources	4, 794, 071	4, 931, 611	5, 787, 669
LIABILITIES Federal reserve notes: Held by other Federal reserve banks Outside Federal reserve banks	16, 418 1, 351, 337	18, 266 1, 360, 608	28, 711 1, 870, 673
Total notes in circulation	1, 367, 755	1, 378, 874	1, 899, 384
Deposits: Member bankreserve account Government	2, 418, 005 18, 181 5, 334 23, 331	2, 467, 396 38, 795 5, 242 20, 938	2, 665, 578 15, 227 5, 835 24, 957
Total deposits	2, 464, 851	2, 532. 371	2, 711, 597
Deferred availability items. Capital paid in Surplus. All other liabilities	496, 899 170, 426 276, 936 17, 204	557, 657 170, 648 276, 936 15, 125	713, 359 167, 026 254, 398 41, 908
Total liabilities	4, 794, 071	4, 931, 611	5, 787, 669
Contingent liability on bills purchased for foreign correspondents	433, 137	431, 634	502, 538
Federal reserve notes: Issued to Federal reserve banks by Federal reserve agents Held by Federal reserve banks 4	1, 783, 356 415, 601	1, 779, 582 400, 708	2, 363, 159 463, 77
In actual circulation	1, 367, 755	1, 378, 874	1, 899, 38
Collateral held by agents as security for notes issued to banks: Gold Eligible paper	1, 580, 615 326, 557	1, 559, 256 452, 200	1, 482, 37 1, 291, 10
Total collateral	1,907,172	2,011,456	2, 773, 48

¹ Includes bills discounted for intermediate credit banks as follows: Latest month, \$116,000; month ago, \$365,000; year ago, \$3,160,000; and note secured by adjusted service certificates discounted for nonmember banks as follows: Latest month, \$44,000; month ago, \$45,000; year ago, \$75,000.
 ³ Includes bills payable in foreign currencies as follows: Latest month, \$21,583,000; month ago, \$1,075,000; year ago, \$17,064,000.
 ⁴ Uncollected items in excess of deferred availability items.
 ⁴ Excludes "F. R. notes of other F. R. Banks," which are consequently included in "actual circulation".

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RESOURCES AND LIABILITIES OF EACH FEDERAL RESERVE BANK ON OCTOBER, 31, 1930

			[In thous	ands of e	lollars]							
	Total	Boston	New York	Phila- delphia		Rich- mond	At- lanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
RESOURCES													
Gold with Federal rseerve											-		
agents. Gold redemption fund with	1, 580, 615	159, 917 676	355, 636		180, 550			169,000	55, 745	47, 545 826	70,000	27, 160	
U. S. Treasury Gold held exclusively against	34, 755	010	14, 338	1,911	2, 163	1, 248	2,060	1, 189	1, 643	820	1,480	1, 123	6,098
Federal reserve notes	1, 615, 370	160, 593	369, 974	141, 911	182, 713	66, 248	112, 360	170, 189	57, 388	48, 371	71, 480	28, 283	205, 860
Federal Reserve Board Gold and gold certificates held	514, 463	24, 990	161, 084	40, 531		15, 659	10, 087	85, 421	27, 919	12, 844	19, 973	9, 666	50, 282
by banks	874, 093 3, 003, 926	36,002	531,859	28, 754 211, 196	60, 169	9,442	7,922		7,360	5, 543	7,164	9,094	37,606
Total gold reserves Reserves other than gold	3,003,920	14, 181	36, 570	7, 920	298, 889 8, 536	91, 349 7, 517	130, 369 10, 086	388, 788 21, 100	92, 667 8, 819	66, 758 4, 665	98, 617 6, 942	8,455	9,943
Total reserves	3, 148, 660 60, 633	235, 766 8, 944	1, 099, 487 13, 384	219, 116 2, 953	307, 425 4, 232	98, 866 3, 402	140, 455 4, 093		101, 486 3, 647	71, 423 1, 537	105, 559 1, 578	55, 498 2, 898	303, 691 4, 338
Bills discounted: Secured by U. S. Govern- ment obligations Other bills discounted	74, 513 132, 588	5, 541 4, 483	17, 380 19, 345		11, 696 13, 023	3, 683 14, 451	1, 019 23, 126	9, 711 9, 037	2, 617 12, 999	793 3, 530	2, 673 10, 088	1, 335 8, 566	7, 436 3, 554
Total bills discounted Bills bought	207, 101 162, 859	10, 024 13, 746	36, 725 40, 830	21,015	24, 719 20, 952	18, 134 8, 911	24, 145 9, 220	18, 748	15, 616 6, 407	4, 323 4, 680	12, 761 7, 072	9, 901 6, 042	10, 990
U. S. Government securities: Bonds Treasury notes Certificates and bills	38, 484 280, 702 282, 373	757 22, 219 23, 197	2, 187 77, 331 107, 796	640 25, 590 26, 022	236 33, 292 24, 327	1, 176 7, 732 8, 075	33 7, 480 5, 181	29,890	523 15, 584 7, 792	4, 986 11, 991 9, 308	42 14, 036 14, 658	7, 844 11, 572 9, 815	43 23, 985 14, 981
Total U. S. Government securities	601, 559	46, 173	187, 314				12, 694		23, 899	26, 285		29, 231	39, 009
Other securities	6, 322	1,000	4, 250	1,000						72			
Total bills and securities_ Due from foreign banks Uncollected items Federal reserve notes of other	977, 841 702 516, 137	70, 943 52 62, 128	269, 119 231 139, 018	68		44, 028 30 37, 509	46, 059 25 15, 060		45, 922 25 23, 842	35, 360 16 10, 701	48, 569 21 28, 790	45, 174 21 17, 322	72, 315 49 27, 169
Federal reserve banks Bank premises All other resources	16, 418 59, 632 14, 048	223 3, 580 465	4, 591 15, 664 5, 087	426 2, 614 234	7,062	1, 746 3, 271 777	970 2, 658 2, 782	8,295	659 3, 811 267	1, 124 2, 018 428	1, 294 3, 972 632	332 1, 877 443	1, 372 4, 810 1, 210
Total resources	4, 794, 071	382, 101	1, 546, 581	345, 884	473, 859	189, 629	212, 102	612, 715	179, 659	122, 607	190, 415	123, 565	414, 954
LIABILITIES		:										-	
Federal reserve notes in actual circulation	1, 367, 755	131, 894	240, 559	120, 324	181, 769	68, 152	118, 329	146, 333	61, 694	49, 042	64, 625	32, 926	152, 108
Deposits: Member bank—reserve ac- count	18, 181		1, 011, 639 1, 284 1, 816 8, 942	1,417	1,617	61, 577 4, 336 220 65	59, 651 785 189 112	1, 795 702	74, 258 1, 519 189 244	50, 356 1, 047 121 205	1, 176 157	993 157	949 362
Total deposits Deferred availability items Capital paid in Surplus All other liabilities	496, 899	21, 751	$\begin{array}{c} 1,023,681\\ 130,562\\ 66,228\\ 80,001\\ 5,550 \end{array}$	41, 250 16, 765 26, 965	47, 313 15, 913	66, 198 36, 028 5, 772 12, 496 983	60, 737 14, 695 5, 356 10, 857 2, 128	58, 933 20, 158 40, 094	76, 210 24, 268 5, 257 10, 877 1, 353	51, 729 10, 775 3, 061 7, 143 857	26, 098 4, 328	18, 280 4, 357 8, 935	27, 206 11, 350 19, 514
Total liabilities Reserve ratio (per cent)	4, 794, 071 82. 2		1, 546, 581 87. 0					612, 715 83. 4	179, 659 73. 6		190, 415 70. 2		
FEDERAL RESERVE NOTE STATEMENT		,											
Federal reserve notes: Issued to Federal reserve banks by Federal reserve agent. Held by Federal reserve banks ¹ .	1, 783, 356 415, 601	171, 990 40, 096	389, 146 148, 587		217, 900 36, 131	85, 206 17, 054		173, 997 27, 664	75, 826 14, 132	ŕ			í.
In actual circulation Collateral held by agents as security for notes issued to banks:	1, 367, 755	131, 894	240, 559	120, 324	181, 769	68, 152	118, 329	146, 333	61, 694			32, 926	152, 108
Gold Eligible paper	1, 580, 615 326, 557	159, 917 22, 173	355, 636 55, 488		180, 550 43, 352) 169,000 36,415			70, 000 19, 056		199, 762 31, 607

1 Excludes "Federal reserve notes of other Federal reserve banks," which are consequently included in "actual circulation."

[In millions of dollars]

		All bank	s	All member banks					
Date 2	Loans and invest- ments	Loans	Invest- ments	Loans and invest- ments	Loans	Invest- ments			
1924—June 30 Dec. 31 1925—June 30 Dec. 31 1926—June 30 Dec. 31 1927—June 30 Dec. 31 1927—June 30 Oct. 3 Dec. 31 1928—June 30 Oct. 3 Dec. 31 1928—June 30 Oct. 3 Dec. 31 1929—Mar. 27 June 29 Oct. 4 Dec. 31 1930—Mar. 27 June 30 Sept. 24	47, 182 48, 830 50, 603 51, 562 52, 018 53, 750 55, 450 57, 265 57, 187 58, 266 58, 019 58, 474 58, 835 58, 417 57, 386 58, 108	$\begin{array}{c} 31, 523\\ 32, 440\\ 33, 865\\ 35, 640\\ 36, 157\\ 36, 759\\ 37, 360\\ 38, 407\\ 39, 654\\ 40, 557\\ 41, 512\\ 42, 201\\ 41, 898\\ 40, 686\\ 40, 618\\ \end{array}$	$\begin{matrix} 13, 657\\ 14, 742\\ 14, 965\\ 14, 963\\ 15, 260\\ 15, 260\\ 16, 391\\ 17, 043\\ 17, 801\\ 17, 537\\ 17, 504\\ 17, 504\\ 17, 462\\ 16, 634\\ 16, 519\\ 16, 700\\ 17, 490\\ \end{matrix}$	27, 167 28, 746 29, 518 30, 884 31, 184 31, 642 32, 756 34, 242 35, 061 34, 929 35, 684 35, 933 35, 711 35, 934 35, 934 35, 056 35, 656	19, 204 19, 933 20, 655 21, 996 22, 060 22, 652 22, 938 23, 886 24, 303 24, 325 25, 155 25, 658 26, 165 26, 150 26, 150 25, 119 25, 214 24, 738	7,963 8,813 8,863 8,863 8,863 8,990 9,818 10,361 10,758 10,604 10,522 9,749 9,784 9,937 10,442 10,734			

¹ Includes national banks, State commercial banks and trust com-panies, mutual and stock savings banks, and all private banks under State supervision. ² Dates of reports of member banks; figures included for nonmember banks are as of nearest available date.

KINDS OF MONEY IN CIRCULATION

[End of month figures. In thousands of dollars]

	July 31	Aug. 31	Sept. 30	Oct. 31 P
Gold coin	356, 079	353, 358	351, 765	350, 919
	1, 001, 923	1, 050, 595	1, 026, 036	1, 019, 630
Standard silver dollars	38, 108	38, 234	37, 512	37, 315
Silver certificates	381, 285	390, 203	391, 311	391, 366
Treasury notes of 1800	1, 259	1, 254	1, 252	1, 250
Subsidiary silver	279, 736	280, 162	280, 868	280, 983
Minor coin	117, 236	117, 187	117, 728	117, 983
United States notes	287, 878	297, 603	297, 307	300, 032
Federal reserve notes	1, 320, 263	1, 353, 200	1, 359, 358	1, 349, 931
Federal reserve bank notes.	3, 155	3, 126	3, 104	3, 082
National-bank notes.	639, 593	648, 274	635, 237	640, 818
Total	4, 426, 494	4, 533, 197	4, 501, 478	4, 493, 309

Preliminary.

MEMBERSHIP IN PAR-COLLECTION SYSTEM¹

[Number of banks at end of September]

	Membe	r banks	N	Vonmem	ber bank	s
Federal reserve district			On pa	ar list	Not on	par list
	1930	1929	1930	1929	1930	1929
United States.	8, 252	8, 629	11, 338	12, 221	3, 625	3, 777
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	548 656	408 934 771 805 524 432 1, 209 573 691 904 762 616	266 400 461 945 551 208 3, 269 1, 537 522 1, 975 583 621	$\begin{array}{c} 271 \\ 407 \\ 479 \\ 999 \\ 589 \\ 257 \\ 3,515 \\ 1,692 \\ 600 \\ 2,161 \\ 608 \\ 643 \end{array}$	9 497 893 237 481 1,051 184 214 59	9 553 933 228 475 1, 112 1966 210 61

¹ Incorporated banks other than mutual savings banks.

FEDERAL RESERVE BANKS-MATURITY DIS-TRIBUTION OF BILLS AND SHORT-TERM SECURITIES

[In thousands of dollars]

	Total	With- in 15 days	16 to 30 days	31 to 60 days		91 days to 6 months	Over 6 months.
Bills discount-	-						
ed: Oct. 1	185 016	113 830	18, 172	32, 611	17, 484	3,602	217
Oct. 8							
Oct. 15	210, 100	137 051	22, 563				330
Oct. 22	101 084	199 054	19, 523		16, 589		
Oct. 29	201 802	108 200	19, 529		16, 234		610
Bills bought in	201,000	120, 000	19,009	00,011	10, 204	0,020	010
open market:							
Oct. 1	193, 108	106 449	39, 384	42, 989	4, 172	191	
Oct. 8					9,084	1 100	
Oct. 15				41,671	14,753	957	
Oct. 22	176, 590	61 527	43.822	44, 435	26, 566	201	
Oct. 29						200	
Certificates and	100,000	10,200	10, 111	14,200	01,000	110	
bills:							
Oct. 1	971 449			25, 214	82 300		162,908
Oct. 8					83 320		
Oct. 15	272, 400			33, 214	75 361		164, 867
Oct. 22	270, 479		28 214]	165, 888
Oct. 29	275 416		25 714	82 322			101, 304
Municipal war-	- 210, 110		20, 111	00,020	00,010		101,001
rants:		ļ		ļ			1
Oct. 1	_ 22		1	1	1	99	
Oct. 8.						22	
Oct. 15					22		
Oct. 22					47		
Oct. 29					$\hat{72}$		

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CHANGES IN MEMBERSHIP

On October 25, 1930, there were 8,231 active member banks in the Federal reserve system, including 7,179 national banks and 1,052 State bank members. Below are given all changes, except suspensions and insolvencies, between September 26 and October 25, affecting the list of active member banks.

1				Consolidated ur
Date	CHANGES ("Consolidations" shown below include absorp- tions, mergers, etc.)	Capital	Sept. 26 1	Thompson Sta First National Bank, Succeeded by N
	DISTRICT NO. 1-BOSTON		Sept. 27	Iowa Guardian National H Union Bank of Chica
1930 Sept. 30	Blue Hill National Bank, Milton, Mass Succeeded by Blue Hill Bank & Trust Co., nonmember.	\$100, 000	Oet. 7	Consolidated und Bank of Chicag First National Bank City National Bank.
	DISTRICT NO. 2-NEW YORK		Oct. 15	Consolidated un National Bank First National Bank
Sept. 29	Broadway National Bank & Trust Co., New York,	2,000,000		Bank of Deerfield, no Consolidated un of Deerfield, no
	N. Y. Park Row Trust Co., member Plaza Trust Co., member Consolidated under charter of Plaza Trust Co. and title of Broadway & Plaza Trust Co.	500, 000 2, 000, 000	Oct. 20 Oct. 20.	Farmers State Bank, Voluntary withd Exchange National I Succeeded by Fi
Sept. 30	Genesee National Bank, Buffalo, N. Y. Commercial Trust Co., nonmember. Consolidated under charter and title of Com-	2, 500, 000 250, 000 1, 000, 000	Oct. 24	First National Bank First National Bank Ind Consolidated un
Sept. 30	mercial Trust Co., nonmember Pooples Banking & Trust Co., Elizabeth, N. J., member Downtown Trust Co., nonmember	1, 250, 000 300, 000 100, 000		National Banl City, Ind DISTRICT
	Consolidated under charter and title of Peo- ples Banking & Trust Co., member	350,000	July 11	First National Bank
	District No. 3-Philadelphia		-	Benton County Nati Consolidated uno County Nation
Oct. 4	Chester National Bank, Chester, Pa Cambridge Trust Co., member Consolidated under charter of Cambridge Trust Co., and title of Chester-Cambridge	300, 000 750, 000	Aug. 23 1	American National I Gillespie National B Consolidated und pie National B Farmers National B
	Bank & Trust Co., member	1, 050, 000	Oct. 18	Farmers National Ba Reopened. District N
Sept. 20 1	Uniontown National Bank & Trust Co., Union-		Sept. 24 1	First National Bank
Sept. 20	town, Pa Second National Bank Consolidated under charter and title of Second	250, 000 200, 000	Sept. 29	National Bank of Le Consolidated un tional Bank of Farmers & Merchan
Sept. 23 1	National Bank. Guaranty Trust Co., Butler, Pa., member Succeeded by Union Trust Co., nonmember	200, 000 500, 000 150, 000	20pt. 20	Minn Farmers State Bank
Sept. 30	Second National Bank, Brownsville, Pa Monongahela National Bank Consolidated under charter and title of Mon- ongahela National Bank	125, 000 100, 000 100, 000		member Consolidated un ers & Merchan Minn
Oct. 1	National Bank & Trust Co., Connellsville, Pa	125, 000		DISTRICT N
Oct. 4	Primary organization. First National Bank, Addison, Pa. First National Bank, Confluence, Pa. Consolidated under charter and title of First National Bank, Confluence, Pa.	25, 000 25, 000 25, 000	July 31	First National Bank First National Bank Consolidated un
	District No. 5-Richmond		Sept. 11 ¹	National Bank First National Bank Succeeded by F nonmember.
Aug. 141	First National Bank, Kimball, W. Va. Restored to solvency and absorbed by Kim- ball Netional Back, primery organization	25,000	Sept. 20	First National Bank People's Bank, nonn
Oct. 16	First National Bank, Kimball, W. Va Restored to solvency and absorbed by Kim- ball National Bank, primary organization Virginia Bank & Trust Co., nonmember Consolidated under charter and title of Vir- ginia National Bank	25, 000 600, 000 100, 000		Consolidated un Bank, nonmer DISTRICT
	ginia National Bank	600, 000	Aug .41	Odessa National Ba
a	DISTRICT NO. 6-ATLANTA	000.000		Citizens National B Consolidated un zens National
Sept. 26 Oct. 14	City National Bank, Decatur, Ala Title changed to First National Bank. Florida Bank & Trust Co., West Palm Beach,	200, 000	Aug. 22 1	First National Bank Succeeded by F view, Tex
5000 11	Fla.	100,000	1	i view, rex

CHANGES IN MEMBERSHIP—Continued

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em, ir ank m	e mem- icluding embers. ons and	Date	CHANGES ("Consolidations" shown below include absorp- tions, mergers, etc.)	Capital
	ber 25,	~	DISTRICT NO. 7-CHICAGO	
		Sept. 16 ¹	Farmers National Bank, Edinburg, Ind Thompson State Bank, nonmember Consolidated under charter and title of	\$25, 000 100, 000
absorp-	Capital	Sept. 26 1	Thompson State Bank, nonmember First National Bank, Seymour, Iowa Succeeded by National Bank of Seymour,	100,000 50,000
		Sept. 27	Iowa Guardian National Bank, Chicago, Ill Union Bank of Chicago, nonmember Consolidated under charter and title of Union	25, 000 1, 000, 000 1, 000, 000
st Co.,	\$100, 000	Oet. 7	Bank of Chicago, nonmember First National Bank of Lyons, Clinton, Iowa City National Bank	1, 300, 000 100, 000 300, 000
		Oct. 15	Consolidated under charter and title of City National Bank. First National Bank, Deerfield, Wis Bank of Deerfield, nonmember	300, 000 30, 000 50, 000
w York,	2, 000, 000 500, 000	Oct. 20	Consolidated under charter and title of Bank of Deerfield, nonmember Farmers State Bank, Elberon, Iowa	50, 000 50, 000
ust Co. ist Co.,	2, 000, 000	Oct. 20.	Voluntary withdrawal. Exchange National Bank, Polo, Ill Succeeded by First National Bank.	50, 000
	2,500,000 250,000 1,000,000	Oct. 24	First National Bank, Doublin, Ind First National Bank & Trust Co., Cambridge City, Ind	25, 000 50, 000
of Com-	1, 250, 000		Consolidated under charter and title of First National Bank & Trust Co., Cambridge City, Ind	50, 000
of Peo-	300, 000 100, 000		DISTRICT NO. 8-ST. LOUIS	,
	350, 000	July 11	First National Bank, Bentonville, Ark Benton County National Bank Consolidated under charter and title of Benton	50, 000 60, 000
	300, 000 750, 000	Aug. 23 1	County National Bank American National Bank, Gillespie, Ill. Gillespie National Bank. Consolidated under charter and title of Gilles-	60, 000 50, 000 50, 000
nbridge nbridge	1, 050, 000	Oct. 18	pie National Bank. Farmers National Bank, Clarksville, Ark Reopened.	50, 000 60, 000
			DISTRICT NO. 9-MINNEAPOLIS	
Union-	250, 000 200, 000	Sept. 24 1	First National Bank, Hobson, Mont	30, 000 150, 000
Second	200, 000	Sept. 29	Consolidated under charter and title of Na- tional Bank of Lewiston Farmers & Merchants National Bank, Minneota, Minn- Farmers State Bank, Green Valley, Minn., non-	150, 000 40, 000
ember	150,000		Consolidated under charter and title of Farm-	12, 000
of Mon- e, Pa	100,000		ers & Merchants National Bank, Minneota, Minn	40, 000
	25,000	July 31	DISTRICT NO. 10-KANSAS CITY First National Bank Moad Colo	25, 000
of First	25, 000 25, 000	July of	First National Bank, Mead, Colo First National Bank, Longmont, Colo Consolidated under charter and title of First National Bank Longmont, Colo.	100,000
		Sept. 11 1	National Bank, Longmont, Colo- First National Bank, Talihina, Okla- Succeeded by First State Bank in Talihina, nonmember.	25,000
y Kim- zation	i	Sept. 20	First National Bank, Westville, Okla People's Bank, nonmember Consolidated under charter and title of People's	25, 000 15, 000
of Vir-	600, 000		DISTRICT NO. 11-DALLAS	40, 000
		Aug .41	Odessa National Bank, Odessa, Tex	30, 000
		nug .r.	Consolidated under charter and title of Citi-	50,000
Beach,	. 200, 000	Aug. 22 1	Succeeded by First National Bank in Plain-	100,000
Deach,	. 100, 000	1.1.1	view, Tex	.] 100,000

¹ Not reported in the period in which the change took place.

CHANGES IN MEMBERSHIP—Continued

Date	CHANGES ("Consolidations" shown below include absorp- tions, mergers, etc.)	Capital
	DISTRICT NO. 11-DALLAS-Continued	
Sept. 30		
	Tex.	\$800,000
	Dorchester State Bank, Dorchester, Tex., non- member	18,000
	Consolidated under charter and title of Mer- chants & Planters National Bank, Sherman,	10,000
	Tex	800, 000
Oct. 9		50,000
	First State Bank, nonmember Consolidated under charter and title of First	50, 000
	State Bank, nonmember	50,000
Oct. 1	City National Bank, Bowie, Tex.	50, 000
	Restored to solvency and assets sold to First	FO 000
Oct. 2	National Bank First National Bank, Ireland, Tex	50,000 25,000
001. 2	Gatesville National Bank, Gatesville, Tex	100,000
	Consolidated under charter and title of Gates-	200,000
	ville National Bank, Gatesville, Tex	100, 000
	DISTRICT NO. 12-SAN FRANCISCO	
Oct.	Anaheim National Bank, Anaheim, Calif Title changed to Anaheim First National	75, 000
	Bank.	
Oct. 2	V Thatcher Brothers Banking Co., Logan, Utah Voluntary withdrawal.	150,000

Fiduciary Powers Granted to National Banks

During the month ended October 24, 1930, the Federal Reserve Board approved applications of the national banks listed below for permission to exercise one or more of the fiduciary powers named in section 11 (k) of the Federal reserve act as amended, as follows: (1) Trustee; (2) executor; (3) administrator; (4) registrar of stocks and bonds; (5) guardian of estates; (6) assignee; (7) receiver; (8) committee of estates of lunatics; (9) in any other fiduciary capacity in which State banks, trust companies, or other corporations which come into competition with national banks are permitted to act under the laws of the State in which the national bank is located.

Location	Dis- trict No.	Name of bank	Powers granted
Baldwin, N. Y	2	Sunrise National Bank	1 to 9.
Lexington, Ky Portsmouth, Ohio	4 4	Fayette National Bank Security Central National Bank.	1 to 8. 1 to 7 and 9.
Kingsley, Iowa	7		1 to 9.
Clear Lake, S. Dak	9	Deuel County National Bank.	1 to 9.
Independence, Kans.	10	Security National Bank	1 to 9.
Salinas, Calif	12		4.
Woodland, Calif	12	Bank of Woodland Nation- al Association.	1 to 3, 5 to 7.

The Comptroller of the Currency presents the following summary of increases and reductions in the number and capital of national banks during the period from September 27 to October 24, 1930, inclusive:

	Num- ber of banks	Amount of capital
New charters issued Restored to solvency Increase of capital approved	3 0 10	\$350, 000 0 960, 000
Aggregate of new charters, banks restored to solvency, and banks increasing capital	13	1, 130, 000
Liquidations Reducing capital	$25 \\ 1$	3, 960, 000 25, 000
Total liquidations and reductions of capital	26	3, 985, 000
Consolidation of national banks under act of Nov. 7, 1918	1	400, 000
under act of Feb. 25, 1927	1	600, 000
Total consolidations	2	1, 000, 000
Aggregate increased capital for period Reduction of capital owing to liquidations, etc		1. 310, 000 3, 985, 000
Net decrease		2, 675, 000

ALL MEMBER BANKS-CLASSIFICATION OF LOANS AND INVESTMENTS ON CALL DATES, OCTOBER 3, 1928-SEPTEMBER 24, 1930

		Los	ans to bai	ıks	L	oans to cu	stomers (exclusiv€	of bank	s) ,		Open-mar	ket loans			In	vestmen	ts
	Total				1	Secured 1 and b		Secured est				Purc	hased pap	er				-
Date	loans and invest- ments	Total	On securi- ties	All other	Total	To bro- kers outside New York City	To other cus- tomers	Farm land	Other real estate	Other- wise secured and un- secured	Total	Accept- ances payable in United States	Bills, accept- ances, etc., pay- able in foreign countries	Com- mercial paper	Street loans ¹	Total	U. S. Gov- ern- ment securi- ties	Other securi- ties
Jial-All member banks: 1928-Oct. 3. Dec. 31. 1929-M.r. 27. June 29. Oct. 4. Dec. 31. 1930-Mar. 27. June 30. Sept. 24.	34, 929 35, 684 35, 393 35, 711 35, 914 35, 934 35, 056 35, 656 35, 672	548 538 548 670 640 714 527 535 466	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	21, 242 21, 462 21, 903 22, 516 23, 249 23, 194 21, 495 21, 565 21, 010	850 975 1,014 921 939 803 706 819 774	5, 796 6, 373 6, 526 6, 813 7, 170 7, 685 7, 024 7, 242 7, 090	$\begin{array}{r} 421 \\ 412 \\ 403 \\ 414 \\ 392 \\ 388 \\ 394 \\ 386 \\ 387 \end{array}$	2, 668 2, 711 2, 720 2, 750 2, 760 2, 803 2, 776 2, 769 2, 776	11, 507 10, 991 11, 240 11, 618 11, 988 11, 515 10, 595 10, 349 9, 982	2, 537 3, 158 2, 494 2, 472 2, 276 2, 243 3, 097 3, 113 3, 262	80 109 146 108 93 212 175 170 205	101 103 93 90 70 80 79 3 71 62	457 390 376 249 228 291 499 507 523	1, 899 2, 556 1, 879 2, 025 1, 885 1, 660 2, 344 2, 365 2, 472	10, 604 10, 529 10, 448 10, 052 9, 749 9, 784 9, 937 10, 442 10, 734	4, 386 4, 312 4, 454 4, 155 4, 022 3, 863 4, 085 4, 061 4, 095	6, 218 6, 217 5, 994 5, 898 5, 727 5, 921 5, 852 6, 380 6, 639
2w York City: 4 1928-Oct. 3. Dec. 31. 1929-Mar. 27. June 29. Oct. 4. Dec. 31. 1930-Mar. 27. June 30. Sept. 24.	$\begin{array}{c} 7, 197 \\ 7, 951 \\ 7, 726 \\ 8, 160 \\ 8, 150 \\ 8, 774 \\ 8, 238 \\ 8, 798 \\ 8, 557 \end{array}$	287 288 251 314 302 322 199 196 169	(2) (2) (2) (2) (2) (2) (2) (2) 92 78 53	(²) (²) (²) (²) (²) (²) 107 118 116	$\begin{array}{c} 3,919\\ 3,940\\ 4,253\\ 4,532\\ 4,846\\ 4,964\\ 4,338\\ 4,308\\ 4,276\end{array}$	$\begin{array}{c} 45\\ 50\\ 52\\ 63\\ 46\\ 55\\ 60\\ 68\\ 86\end{array}$	$1, 491 \\ 1, 658 \\ 1, 692 \\ 1, 814 \\ 1, 898 \\ 2, 145 \\ 1, 876 \\ 1, 954 \\ 1, 945$	21	130 132 148 173 175 169 150 157 157	2, 253 2, 100 2, 361 2, 480 2, 726 2, 595 2, 252 2, 129 2, 087	1,048 1,790 1,250 1,496 1,196 1,397 1,655 2,091 1,912	$50 \\ 61 \\ 59 \\ 58 \\ 59 \\ 128 \\ 89 \\ 144 \\ 148$	55 61 52 58 33 46 40 29 28	63 29 37 21 8 21 49 35 22	880 1, 639 1, 102 1, 359 1, 096 1, 202 1, 477 1, 883 1, 714	1, 942 1, 933 1, 972 1, 819 1, 807 2, 091 2, 046 2, 203 2, 198	1,130 1,094 1,135 1,006 989 1,112 1,150 1,147 1,091	813 839 838 813 817 979 897 1,056 1,107
sicago:4 1928Oct. 3 Dec. 31 1929Mar. 27 June 29 Oct. 4 Dec. 31 1930Mar. 27 June 30 Sept. 24	1, 910 1, 910 1, 793 1, 767 1, 823 1, 757 1, 717 1, 849 1, 934	35 40 62 67 68 88 58 50 41	(?) (?) (?) (?) (?) (?) 50 43 35	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	$\begin{array}{c} 1,326\\ 1,389\\ 1,353\\ 1,309\\ 1,374\\ 1,329\\ 1,160\\ 1,257\\ 1,187\end{array}$	252 309 311 242 257 240 194 229 239	543 598 477 484 504 533 474 487 448	3 3 2 2 2 2 2 2 2 2 2	41 39 19 22 19 19 18 18 18	487 440 544 559 592 535 472 521 482	144 91 41 58 68 30 187 176 296	1 1 8 1 1 9 3 2 7	3 1 5 3 4 5 11 19 13	21 14 10 6 4 5 33 56 42	119 75 18 48 59 11 140 99 233	405 391 337 334 312 309 310 366 407	191 174 164 159 153 116 146 160 157	$\begin{array}{c} 214\\ 217\\ 172\\ 176\\ 160\\ 193\\ 164\\ 205\\ 250\end{array}$
serve city banks: 1928—Oct. 3. Dec. 31 June 29 Oct. 4. Dec. 31 1929—Mar. 27. June 30 June 30 Sept. 24	$12, 211 \\ 12, 156 \\ 12, 132 \\ 12, 065 \\ 12, 161 \\ 12, 029 \\ 11, 858 \\ 11, 852 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, 037 \\ 12, $	179 173 196 241 225 258 205 227 193	(?) (?) (?) (?) (?) (?) 104 99 77	(2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	7, 770 7, 878 7, 933 8, 124 8, 401 8, 417 7, 790 7, 770 7, 534	435 569 538 511 510 425 360 431 360	2, 152 2, 318 2, 415 2, 480 2, 598 2, 775 2, 576 2, 663 2, 586	124 118 112 119 110 110 113 110 111	1, 368 1, 387 1, 376 1, 360 1, 360 1, 428 1, 411 1, 394 1, 398	3.691 3,546 3,492 3,654 3,823 3,679 3,330 3,172 3,080	732 650 603 423 458 408 757 534 768	$5 \\ 16 \\ 35 \\ 16 \\ 6 \\ 43 \\ 55 \\ 17 \\ 47$	27 33 27 22 27 24 24 3 19 17	178 136 136 83 71 102 209 \$ 245 295	522 465 405 302 354 239 469 253 409	3, 530 3, 454 3, 400 3, 276 3, 075 3, 944 3, 105 3, 319 3, 537	$\begin{array}{c} 1,703\\ 1,662\\ 1,732\\ 1,607\\ 1,519\\ 1,368\\ 1,516\\ 1,525\\ 1,628\end{array}$	1, 827 1. 791 1, 668 1, 670 1, 557 1, 576 1, 590 1, 794 1, 909
untry banks: 1928-Oct. 3. Dec. 31. 1929-Mar. 27. June 29. Oct. 4. Dec. 31. 1930-Mar. 27. June 39. June 30. Sept. 24.	13, 612 13, 667 13, 741 13, 719 13, 780 13, 375 13, 243 13, 157 12, 944	46 37 39 49 45 45 65 63 63 62	(2) (2) (2) (2) (2) (2) (2) (2) (2) (14 11 11	(*) (2) (2) (2) (2) (2) (2) (2) (2) (2) (3) (4) (2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (5) (4) (5) (4) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5) (5) (5	8, 225 8, 254 8, 364 8, 551 8, 627 8, 481 8, 206 8, 229 7, 999	117 107 114 105 125 83 93 90 88	1, 610 1, 799 1, 942 2, 034 2, 170 2, 231 2, 097 2, 137 2, 112	294 290 289 291 279 276 279 276 279 274 274	1, 129 1, 154 1, 176 1, 195 1, 206 1, 186 1, 196 1, 201 1, 205	5,075 $4,904$ $4,843$ $4,926$ $4,847$ $4,705$ $4,541$ $4,527$ $4,318$	614 625 598 496 553 409 496 312 286	24 30 44 33 27 33 27 8 4	17 8 7 6 5 4 4 4	195 211 192 140 144 163 207 171 164	378 376 354 316 376 208 258 129 115	4, 727 4, 751 4, 740 4, 623 4, 554 4, 439 4, 475 4, 554 4, 589	$\begin{array}{c} 1, 362 \\ 1, 382 \\ 1, 424 \\ 1, 384 \\ 1, 361 \\ 1, 267 \\ 1, 273 \\ 1, 229 \\ 1, 219 \end{array}$	3, 365 3, 370 3, 316 3, 240 3, 193 3, 172 3, 202 3, 326 3, 370

NOVEMBER, 1930

FEDERAL RESERVE BULLETIN

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CONDITION OF ALL MEMBER BANKS

ALL MEMBER BANKS-CONDITION ON CALL DATES OCTOBER 10, 1927, TO SEPTEMBER 24, 1930

[Amounts in thousands of dollars]

	19	27		1	928			19	29			1930	
	Oct. 10	Dec. 31	Feb. 2	June 30	Oct. 3	Dec. 31	Mar. 27	June 29	Oct. 4	Dec. 31	Mar. 27	June 30	Sept. 24
RESOURCES													
Loans (including overdrafts)	23, 226, 513	23, 886, 393	23, 098, 936	24, 302, 787	24, 325, 010	25, 155, 255	24, 944, 641	25, 658, 491	26, 164, 829	26, 150, 061	25, 118, 783	25, 213, 770	24, 738, 011
United States Government securities Other securities	3,856,149	3, 977, 557	4, 215, 822	4, 224, 730	4, 385, 830	4, 311, 790	4, 453, 953	4, 154, 929	4,021,636	3, 862, 968	4,085,006	4,061,395	4,095,270
Other securities	0, 103, 119	0, 382, 962	0, 373, 030 33 688 388	0, 033, 000	6, 218, 145 34 928 985	6, 216, 890	5, 994, 432	5, 897, 541	5, 727, 306	35 920, 921	35, 651, 908	35 655 659	35. 472. 250
Customers' liability on account of acceptances.	576, 223	699, 701	695.319	710.207	727.258	929.540	836 028	802.188	988.912	1. 252. 147	1, 111, 153	928, 807	912, 852
Customers' liability on account of acceptances Banking house, furniture, and fixtures		1,067,200	1,077,529	1,099,210	1, 105, 558	1, 107, 287	1, 118, 418	1, 169, 752	1, 175, 393	1, 190, 306	1, 202, 486	1, 217, 963	1, 230, 754
Other real estate owned	180, 546					177, 716		179, 878					
Cash in vault Reserve with Federal reserve banks	539, 137 2, 319, 736	523, 370 2, 514, 465		449, 198	519, 126	564, 384	516, 742 2, 338, 569	433, 491	497, 212 2, 321, 806	558, 450	496, 633 2, 352, 738	484, 262	470, 367
Items with Federal reserve banks in process of collec-	2, 319, 730	2, 514, 405	2, 300, 000	2, 342, 043	2, 340, 010	2, 409, 307	2, 338, 509	2, 339, 011	2, 321, 800	2, 513, 100	2,002,100	2,401,900	2, 111, 331
tion	739, 871	784, 391	686, 881	680, 492	856, 655	967, 836	841,606	775, 822	923, 363	994, 373	719, 201	836, 471	698, 871
Due from banks in United States	2,077,441	2, 209, 831		1, 897, 231	2,026,259	2, 124, 252	1, 741, 478	1, 885, 167	2,004,938	2, 167, 756	1, 901, 517	2, 360, 377	2, 462, 827
Due from banks in foreign countries (including own											0.17 010		
branches)	255, 821	258, 337	269, 373	291, 490	286, 686	305, 299	287, 248	272, 682	246, 996	263, 834	247, 612	220, 793	202, 447
Exchanges for clearing house and other checks on local banks	1, 564, 796	1, 508, 418	1, 311, 817	1, 447, 219	1, 634, 689	3, 493, 061	2, 486, 203	1, 446, 186	2, 132, 331	2. 762. 463	1, 616, 954	2, 645, 057	1. 146. 915
Outside checks and other cash items	1, 564, 790	200, 159		217, 291	1, 054, 089	203, 884		1, 440, 180	102, 363	139,056			
Redemption fund and due from United States Treas-	101,011	200, 100	101,010	211, 201	100,021	200,001	112,000	111,200	102,000	100,000	1	,	ŕ
urer	33, 054	33, 281	32, 823	33, 025	33, 001	32, 99 5	32, 761	32, 715	32, 828	32, 889	32, 823	32, 658	32, 604
Acceptances of other banks and bills of exchange or drafts sold with indorsement											010 100		F00 500
draits sold with indorsement	265,007	431, 968		436, 486	433, 668	677, 994		453, 826	551, 587	735, 193 35, 533		557, 748 26, 324	592, 732 23, 866
Securities borrowed Other assets	29, 464 171, 070	35, 212 197, 666		37, 733 204, 940	36, 551 205, 273	35, 947 222, 149	48, 844 229, 751	36, 337 232, 621	32, 592 198, 700	219, 379			
	· · · · · ·						,						
	43, 155, 718	44, 888, 140	43, 581, 656	45, 091, 849	45, 483, 697	48, 935, 646	46, 673, 097	45, 908, 001	47, 305, 588	48, 843, 078	45, 800, 579	47, 900, 740	40, 155, 115
LIABILITIES											0 544 075	0 501 005	0 700 664
Capital stock paid in Surplus		2, 337, 780	2, 345, 519 2, 144, 182	2,410,370	2, 453, 859 2, 382, 393	2,474,223	2, 563, 278 2, 548, 155	2, 646, 928	2,739,645	2,757,113	2, 744, 975 2, 881, 944	2,721,997	2, 728, 004
Undivided profits-net	<u>````</u>			2,200,000	2, 382, 393 [886, 025	2, 440, 709 832, 564	2, 548, 155 918, 145	2, 050, 350 882, 806	980, 928	909, 548	956, 053	950,072	1,009,435
Reserves for dividends, contingencies, etc	940, 505	879, 480	914, 114	924, 012	120,020	151, 744		164, 430	143, 603	177.252		182,940	
Reserves for interest, taxes, and other expenses accrued					. , ,								
and unpaid	152, 531	128, 757	137, 345	145, 458		120, 676	157, 144	148, 825	172, 193	137, 660		148, 960	
Due to Federal reserve banks	54, 402	52,073	45, 360	49, 823	65, 379	56, 510	51, 433 3, 070, 084	51, 883	55, 720	54,458	51, 915 3, 204, 316	46, 206	47, 147 3, 817, 132
Due to other banks in United States Due to banks in foreign countries (including own	3, 307, 193	3, 808, 222	3, 495, 722	3, 203, 494	3, 402, 377	3, 049, 037	3, 070, 084	3, 091, 639	3, 153, 077	3, 517, 525	3, 201, 310	3, 831, 030	3, 817, 132
branches)	586, 869	745, 691	643, 372	613, 732	508, 571	543, 273	462, 649	464, 871	481.696	576,664	498,075	571,766	660, 612
Certified and officers' checks outstanding	977, 944	839, 556	848,064	787, 770	1, 041, 114	2, 184, 138	1, 739, 947	753, 620	1,405,446	1,603,562	1, 134, 283	1, 493, 437	771, 941
Cash letters of credit and travelers' checks outstanding. Demand deposits	26, 391	21, 641	29,015	43, 177	27.338	23, 128	27 385	43, 182	27.613	23,460	25, 038	41, 389	26, 638
Demand deposits	17, 374, 426	18, 170, 140	17, 304, 646	17,606,564	17, 501, 430	18, 903, 658	17, 708, 269	17, 814, 603	17, 937, 478	18,861,582	17,078,905	18,061,977	16, 838, 351
Fime deposits	12, 459, 248 435, 475	12, 764, 798 266, 981	12, 922, 638 86, 032	13, 438, 585 256, 681	13, 409, 608	13, 453, 311 261, 505	13, 328, 712 410, 867	13, 325, 066 347, 967	13, 317, 649 315, 479	13, 233, 481 143, 203	324, 893	280, 769	257, 185
United States depositsAgreements to repurchase U. S. Government or other	400, 470	200, 801	30, 002	200, 001	100, 101	201, 000	410, 807	511, 501	515, 775	145, 200	021,000	200,100	201, 100
securities sold	17,845	32,785	21, 375	18, 103	95, 161	134, 084	102, 423	103, 758	149,090	136,957	66, 214	37, 164	38, 144
Bills payable and rediscounts:					,	,		,					
With Federal reserve banks	457, 758	583, 266	485, 874						899, 311	646, 334			172, 578
All other	70, 457	80, 209	95, 018	113, 440	134, 127	121, 570	171, 601	168, 975	250, 587	232, 188	140, 467	161, 090	143, 402
Acceptances of other banks and bills of exchange or drafts sold with indorsement	265, 007	431, 968	454, 958	436, 486	433, 665	677, 994	475, 155	453, 826	551, 586	735, 193	612, 193	557, 748	592,732
Acceptances executed for customers.	575, 636	721, 473	705, 001	716, 270	717,931	928, 329	846, 370	800, 423	984, 670	1, 276, 159		925, 576	929, 337
Acceptances executed by other banks for account of re-	, i						010,010		,			,	,
porting banks	26, 075	22, 318	26,008	28, 235	41, 417	43, 636	45, 025	42,075	40, 400	29, 647		34, 998	18, 127
National-bank notes outstanding	649, 390	649, 877		648, 602			647, 354	648, 944	640, 610		647, 481 25, 744	649,098	648, 999 23, 866
Securities borrowed Dther liabilities	29,471 135,062	35, 936 191, 169	29, 352 201, 899	37, 782 166, 726	36, 556 189, 692	35, 947 209, 109	48, 844 224, 581	36, 337 238, 116	32, 592 214, 946			26, 324 226, 915	
Total	42 155 710	44 888 140	42 591 654	15 001 840	45 493 607	49 025 646	46, 673, 097	45 008 001	47 205 500	49 949 079		47 906 740	
Number of banks	9.087	9,034	8,983	8,929	8,896	8,837	8,755	8,707	8,616	8, 522	8,406	8, 315	8,246

FEDERAL RESERVE BULLETIN

NOVEMBER, 1930

ALL MEMBER BANKS-LOANS, INVESTMENTS, DEPOSITS, AND BORROWINGS ON CALL DATES SINCE OCTOBER, 1928 ¹ [Amounts in thousands of dollars]

1

NOVEMBER, 1930

FEDERAL RESERVE BULLETIN

	Oct. 3, 1928	Dec. 31, 1928	Mar. 27, 1929	June 29, 1929	Oct. 4, 1929	Dec. 31, 1929	Mar. 27, 1930	June 30, 1930	Sept. 24, 1930
Loans-Total	24, 325, 010	25, 155, 255	24, 944, 641	25, 658, 491	26, 164, 829	26, 150, 061	25, 118, 783	25, 213, 770	24, 738, 011
Acceptances payable in United States		108, 925	145, 754	107, 993	93, 107	211, 950	174, 509	2 169, 668	205, 432
Bills, acceptances, etc., payable in foreign countries	101, 259	103, 245	92, 701	90, 001	69, 561	79, 577	79, 219	2 71, 438	61, 934
Commercial paper bought in open market	456, 635	389, 560	375, 501	248, 609	227, 574	290, 822	499, 286	² 507, 392	523, 129
Loans to banks—On securities		537, 501	548, 152	670, 277	640, 301	714,076	$\left\{\begin{array}{c} 260, 124\\ 266, 957\end{array}\right.$	230,166 305,141	174, 857 290, 936
Loans on securities, exclusive of loans to banks—Total		9, 902, 856	9, 418, 942	9,758,885	9, 993, 767	10. 147. 866	10,073,809	10, 425, 353	10, 335, 938
To brokers and dealers in New York		2, 555, 786	1, 879, 477	2,024,592	1. 884. 886	1, 660, 150	2, 344, 242	2, 364, 735	2,471,781
To brokers and dealers elsewhere		2, 555, 786	1, 879, 477	2, 024, 592 921, 488	939.068	802,715	706, 053	818,834	2,471,781
To others		6, 372, 504	6, 525, 786	6, 812, 805	7, 169, 813	7, 685, 001	7, 023, 514	7, 241, 784	7,090,382
Real estate loans—On farm land		411, 567	403.475	413, 988	392,076	387.714	394, 117	386,036	387, 366
On other real estate		2, 710, 866	2, 719, 657	2, 750, 438	2,760,422	2,803,281	2, 775, 673	2,769,262	2,776,344
All other loans (including overdrafts)	11, 506, 758	10, 990, 735	11, 240, 459	11, 618, 300	11, 988, 021	11, 514, 775	10, 595, 089	10, 349, 314	9, 982, 075
Loans eligible for rediscount with Federal reserve banks	4, 368, 094	4, 160, 436	4, 343, 404	4, 389, 853	4, 598, 240	4, 396, 904	4, 204, 395	3.904,968	3, 812, 169
United States Government securities-Total.	4, 385, 830	4, 311, 790	4,453,953	4, 154, 929	4, 921, 636	3, 862, 968	4, 085, 006	4,061,395	4, 095, 270
Bonds	3,077,936	3, 028, 095	3, 121, 552	3,004,836	2, 992, 184	3,094,275	3, 287, 968	3, 339, 834	3, 342, 974
Treasury notes		729, 427	804, 739	703, 641	664, 821	519, 983	524, 452	462, 924	418, 495
Certificates of indebtednessAll other	415, 395	471, 852	455, 821	339, 456	251, 392	151, 659 97, 051	234, 543 38, 043	254,404 4,233	284, 953 48, 848
		82,416	71,841	106, 996	113, 239			·	
Other securities-Total		6, 216, 890	5, 994, 432	5, 897, 541	5, 727, 306	5, 920, 921	5,851,908	6, 380, 494	6, 638, 969
Domestic securities—Total		5, 533, 129	5, 341, 637	5, 262, 502	5, 114, 902	5, 292, 123	5, 242, 297	5, 691, 850	5, 938, 307
State, county, and municipal bonds		1, 221, 910	1, 168, 501	1, 144, 362	1, 116, 276	1, 224, 030	1, 168, 275	1, 232, 040	1, 379, 471
Railroad bonds Other public service corporation bonds	878, 559	895, 759 985, 360	863, 345 958, 194	831, 913 931, 938	787, 134 902, 764	785, 867 905, 606	781,471 980,210	914,037 1,047,687	938,869 1,074,627
All other bonds		1, 417, 256	1, 339, 802	1, 316, 859	1, 227, 883	1, 253, 469	1, 222, 847	1, 340, 789	1, 330, 420
Stock of Federal reserve banks		146, 113	153, 834	158, 290	166, 686	170.517	173.384	169, 505	170, 260
Stock of other corporations	403, 535	435, 735	438, 756	469, 314	503, 848	558, 794	527, 917	565, 417	572, 941
Collateral trust and other corporation notes	175, 420	199, 412	181, 969	168, 720	154,060	166, 049	164, 214	180, 936	217,924
Municipal warrants	117, 396	146, 929	149, 593	150, 681	169, 501	168, 947	163, 434	170, 575	181, 958
All other		84,655	87,643	90, 425	86,750	58,844	60, 545	70, 864	71,837
Foreign securities—Total		683,761	652, 795	635, 039	612, 404	628, 798	609,611	688,644	700, 662
Government bonds Other foreign securities		343, 200 340, 561	319, 239 333, 556	308,773 326,266	303, 407 308, 997	304, 123 324, 675	280,835 328,776	346, 219 342, 425	344, 439 356, 223
								·····	
Demand deposits—Total		18,903,658	17, 708, 269	17, 814, 603	17, 937, 478	18, 861, 582	17, 078, 905	18,061,977	16, 838, 351
Individual deposits subject to check Certificates of deposit	230, 445	16, 996, 605 234, 763	15,840,108 207,050	15,742,528 200,986	16, 167, 047 188, 152	16, 935, 643 201, 671	15, 194, 883 182, 828	15, 930, 369 198, 041	15,107,131 196,673
State, county, and municipal deposits		1. 299. 835	1. 384. 876	1.511.706	1, 224, 375	1, 335, 485	1. 446. 366	1, 568, 470	1, 276, 471
All other		372, 155	276, 235	359, 383	357,904	388, 783	254, 828	365, 097	258,076
Net demand deposits		19, 943, 583	18, 833, 161	18, 977, 213	18,951,600	19, 797, 028	18, 488, 669	19, 170, 357	18,657,238
Time deposits—Total	13, 409, 608	13, 453, 311	13, 328, 712	13, 325, 066	13, 317, 649	13, 233, 481	13, 518, 731	13, 811, 978	13, 944, 868
States, counties, and municipalities		418, 257	429, 265	476, 554	491,095	594.896	535, 564	570, 679	572,004
Banks in United States		124, 262	113, 443	ſ 79,894	111, 148	95, 170	102, 793	111, 829	101, 313
Banks in foreign countries	J · ·			77, 508	112, 405	154,009	175, 529	224,114	233, 873
Other time deposits—Evidenced by savings pass books Certificates of deposit	9, 702, 703 1, 882, 008	9,809,851	9,728,154	9, 834, 363	9,603,720	9, 592, 096 1, 740, 944	9, 626, 033	9,677,521	9, 631, 588
Open accounts, Christmas savings accounts, etc.		1, 895, 223 1, 071, 463	1,831,666 1,110,132	1, 745, 134 996, 976	1, 743, 212 1, 136, 043	933, 902	1,811,315 1,139,518	1,861,504 1,232,679	1, 959, 775 1, 302, 785
Postal savings		134, 255	116,052	114,637	120,026	122,464	127,979	133,652	143. 530
Bills payable and rediscounts-Total.		1, 162, 178	1, 153, 035	1, 198, 366	1, 149, 898	878. 522	346, 591	434, 970	315, 980
With Federal reserve banks—Bills payable		823, 403	761.755	738, 768	583, 665	453, 574	105, 209	147,826	76,865
Rediscounts		217,205	219,679	290, 623	315,646	192,760	100, 209	126,054	95, 713
All other-Bills payable	116,260	102, 243	148,504	149, 576	226, 742	214, 209	134, 761	155, 189	137, 890
Rediscounts		19, 327	23,097	19, 399	23, 845	17, 979	5, 706	5, 901	5, 512
	<u> </u>	l i	L I				L .	I	

¹ Corresponding classifications not available prior to October, 1928.

NATIONAL AND STATE MEMBERS-CONDITION ON SEPTEMBER 24, 1930, BY CLASSES OF BANKS

[Amounts in thousands of dollars]

		All memi	er banks			National	banks 1		s	tate bank	members	
	Total	Central reserve city banks	Other reserve city banks	Country banks	Total	Central reserve city banks	Other reserve city banks	Country banks	Total	Central reserve city banks	Other reserve city banks	Country banks
RESJURCES												
Loans (including overdrafts) United States Government securities Other securities	24, 738, 011 4, 095, 270 6, 638, 969	7, 883, 218 1, 248, 167 1, 359, 469	8, 500, 409 1, 627, 722 1, 909, 433	8, 354, 384 1, 219, 381 3, 370, 067	14, 641, 945 2, 811, 562 4, 299, 866	3, 325, 014 671, 390 588, 887	5, 134, 667 1, 124, 964 1, 069, 604	6, 182, 264 1, 015, 208 2, 641, 375	10, 096, 066 1, 283, 708 2, 339, 103	4, 558, 204 576, 777 770, 582	3, 365, 742 502, 758 839, 829	2, 172, 120 204, 173 728, 692
Total loans and investments	35, 472, 250	10, 490, 854	12, 037, 564	12, 943, 832	21, 753, 373	4, 585, 291	7, 329, 235	9, 838, 847	13, 718, 877	5, 905, 563	4, 708, 329	3, 104, 985
Customers' liability on account of acceptances Banking house, furniture, and fixtures Other real estate owned Cash in vault Reserve with Federal reserve banks. Items with Federal reserve banks in process of collection Due from banks in United States. Due from banks in foreign countries (including own branches) Exchanges for clearing house and other checks on local banks Outside checks and other cash items Redemption fund and due from United States Treasurer. Acceptances of other banks and bills of exchange or drafts sold with	197, 869 470, 367 2, 414, 991 698, 871 2, 462, 827 202, 447	691, 438 254, 878 11, 288 58, 244 1, 032, 354 268, 809 271, 916 140, 170 914, 902 7, 087 2, 168	72, 388 128, 373 772, 287 327, 816 1, 219, 957 59, 628	538, 259 114, 193 283, 750 610, 350	793, 312 129, 457 337, 249 1, 432, 892 460, 315 1, 817, 314 163, 726 522, 369	109, 915 5, 151 26, 685 467, 590 168, 644	$\begin{array}{r} 267, 556\\ 34, 844\\ 84, 194\\ 497, 601\\ 220, 480\\ 909, 952\\ 52, 476\end{array}$	415, 841 89, 462 226, 370 467, 701 71, 191 801, 841 1, 587 29, 808 13, 909	437, 313 437, 442 68, 412 133, 118 982, 099 238, 556 645, 513 38, 721 624, 546 15, 122	144, 963 6, 137	37, 544 44, 179 274, 686 107, 336 310, 005 7, 152	24, 731 57, 380 142, 649 31, 055 169, 113 1, 062 14, 737
Acceptances of other banks and bins of exchange or drafts soid with indorsement Securities borrowed Other assets	592, 732 23, 866 242, 062	510, 174 92, 983	80, 033 12, 972 94, 701	2, 525 10, 894 54, 378	$\begin{array}{c} 228,527\\ 16,505\\ 133,168\end{array}$	180, 878 46, 256	45, 221 8, 693 50, 746	2, 428 7, 812 36, 166	364, 205 7, 361 108, 894	329, 296 46, 727	34, 812 4, 279 43, 955	97 3, 082 18, 212
Total	46, 153, 113	14, 747, 265	15, 676, 270	15, 729, 578	28, 332, 934	6, 474, 702	9, 825, 602	12, 032, 630	17, 820, 179	8, 272, 563	5, 850, 668	3, 696, 948
LIABILITIES Capital stock paid in Surplus. Undivided profits—net. Reserves for dividends, contingencies, etc. Reserves for dividends, and ther expenses accruted and unpaid. Due to other banks in foreign countries (including own branches). Certified and officers' checks outstanding. Cash letters of credit and travelers' checks outstanding. Demand deposits. Time deposits. United States deposits. Agreements to repurchase U. S. Government or other securities sold. Bills payable and rediscounts: With Federal reserve banks. All other. Acceptances of other banks and bills of exchange or drafts sold with indorsement. Acceptances executed for customers. Acceptances executed by other banks for account of reporting banks. National-bank notes outstanding. Securities borrowed.	185, 602 182, 397 47, 147 3, 817, 132 660, 612 771, 941 126, 638 16, 838, 351 13, 944, 868 257, 185 38, 144 172, 578 143, 402 592, 732 929, 337 929, 337 929, 337 928, 3866	$\begin{array}{c} 74, 914\\ 59, 795\\ 2\\ 1, 461, 547\\ 586, 765\\ 608, 201\\ 19, 167\\ 5, 953, 535\\ 2, 090, 105\\ 61, 484\\ 22, 362\\ 6, 800\\ 62, 853\\ 510, 174\\ 704, 372\\ 12, 167\\ 43, 145\\ \end{array}$	$\begin{array}{c} 868, 688\\ 259, 746\\ 59, 687\\ 72, 892\\ 11, 040\\ 1, 953, 980\\ 70, 898\\ 96, 195\\ 5, 522, 734\\ 5, 159, 875\\ 135, 927\\ 10, 887\\ 27, 403\\ 22, 816\\ 80, 033\\ 215, 405\\ 4, 152\\ 150, 541\\ 12, 972\\ \end{array}$	$\begin{array}{c} 871, 768\\ 380, 854\\ 51, 001\\ 49, 710\\ 36, 105\\ 401, 605\\ 2, 949\\ 67, 545\\ 807\\ 5, 362, 082\\ 6, 694, 888\\ 599, 774\\ 4, 895\\ 138, 375\\ 57, 733\\ 2, 525\\ 9, 559\\ 9, 559\\ 1, 808\\ 455, 313\\ 10, 894\\ \end{array}$	$\begin{array}{c} 1, 590, 756, \\ 585, 527 \\ 83, 478 \\ 95, 520 \\ 31, 031 \\ 2, 462, 404 \\ 394, 255 \\ 302, 993 \\ 11, 092 \\ 10, 320, 029 \\ 8, 781, 362 \\ 110, 954 \\ 111, 954 \\ 132, 330 \\ 87, 520 \\ 285, 527 \\ 487, 092 \\ 9, 830 \\ 648, 999 \\ 16, 505 \end{array}$	478, 692 132, 525 24, 538 19, 574 	$\begin{array}{c} 459,604\\ 152,500\\ 30,891\\ 42,569\\ 5,484\\ 1,467,487\\ 56,634\\ 62,842\\ 62,70\\ 3,604,664\\ 2,849,495\\ 95,434\\ 7,453\\ 17,891\\ 12,973\\ 45,221\\ 166,200\\ 3,731\\ 150,541\\ 8,603\\ 8,603\\ \end{array}$	$\begin{array}{c} 653, 000\\ 300, 412\\ 28, 049\\ 33, 347\\ 25, 547\\ 312, 628\\ 2, 300\\ 49, 878\\ 2, 300\\ 49, 878\\ 4, 078, 389\\ 5, 081, 367\\ 46, 194\\ 4, 480\\ 112, 054\\ 43, 694\\ 2, 428\\ 5, 608\\ 1, 399\\ 455, 313\\ 7, 812\\ \end{array}$	266, 357 378, 948 15, 546 6, 518, 322 5, 163, 506 96, 727 26, 190 40, 248 55, 882 364, 205 442, 245 8, 297 7, 361	1, 239, 605 42, 654 22, 341 4, 415 32, 000 329, 296 389, 088 7, 467	107, 15, 28, 79, 30, 293 5, 55, 486, 493 14, 264 33, 353 334 40, 493 3, 434 9, 512 9, 843 34, 812 49, 512 9, 843 34, 812 49, 209	$\begin{array}{c} 218, \ 708\\ 80, 442\\ 22, 952\\ 1\\ 363\\ 88, 977\\ 17, 667\\ 579\\ 1, 283, 693\\ 1, 613, 521\\ 13, 580\\ 415\\ 26, 321\\ 14, 039\\ 97\\ 3, 951\\ 409\\ \hline 3, 682\\ \end{array}$
Other liabilities Total	212, 698 46, 153, 113	65, 148 14, 747, 265	77,049		59, 572 28, 332, 934	· · · · · · · · · · · · · · · · · · ·				42, 746		56, 803 3 696 948
Number of banks	8, 246	68								8, 212, 563 36		3, 696, 948 896

¹ Mømber banks only, i. e., exclusive of national banks in Alaska and Hawaii.

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NOVEMBER, 1930

NATIONAL AND STATE MEMBERS-LOANS, INVESTMENTS, DEPOSITS, AND BORROWINGS ON SEPTEMBER 24, 1930

[Amounts in thousands of dollars]

		All memb	er banks			National	banks ¹		s	tate bank	members	3
	Total	Central reserve city banks	Other reserve city banks	Country banks	Total	Central reserve city banks	Other reserve city banks	Country banks	Total	Central reserve city banks	Other reserve city banks	Country banks
Loans-Total	24, 738, 011	7, 883, 218	8, 500, 409	8, 354, 384	14, 641, 945	3, 325, 014	5, 134, 667	6, 182, 264	10, 096, 066	4, 558, 204	3, 365, 742	2, 172, 120
Acceptances payable in United States Bills, acceptances, etc., payable in foreign countries Commercial paper bought in open market Loans to banks—On securities All other	61, 934 523, 129 174, 857	40, 966 64, 459 87, 732	17, 311 294, 794 76, 556	163, 876 10, 569	114, 716 39, 874 398, 134 106, 852 189, 418	24, 872 33, 402 41, 182	11, 423	136, 443 8, 090	124, 995 68, 005	81, 877 16, 094 31, 057 46, 550 55, 031	5,888 66,505	78 27, 433 2, 479
Loans on securities, exclusive of loans to banks-Total	10, 335, 938	4, 665, 435	3, 354, 881	2, 315, 622		1, 871, 863	1, 928, 283	1, 630, 420			1, 426, 598	
To brokers and dealers in New York. To brokers and dealers elsewhere. To others. Real estate loans—On farm land.	773,775	325, 275 2 302 488	360, 068 2, 585, 536	88, 432 2, 112, 358	$\begin{array}{c} 1,082,359\\350,292\\3,997,915\\300,083 \end{array}$	81, 903 1, 084, 927	203, 623 1, 419, 063	64, 766 1, 493, 925	423, 483 3, 092, 467	243, 372	156, 445 1, 166, 473	23, 666 618, 433
Real estate loans—On farm land On other real estate All other loans (including overdrafts)	2, 776, 344 9, 982, 075	173, 481 2, 571, 781	1, 397, 770	1, 205, 093	1, 181, 264 6, 881, 038	16, 652	531, 044	633, 568	1, 595, 080	156, 829 1, 375, 884	866, 726 906, 475	571, 525
Loans eligible for rediscount with Federal reserve banks		1,000,044	1, 271, 257	1, 540, 868	2, 677, 188	438, 658	943, 386	1, 295, 144	1, 134, 981	561, 386	327, 871	245, 724
United States Government securities-Total		1, 248, 167			2, 811, 562			1, 015, 208		576, 777	502, 758	204, 173
Bonds Treasury notes		956, 821 163, 602	1, 347, 486 121, 267		2, 364, 770 270, 964	547, 477 76, 089		872, 035 105, 497	978, 204 147, 531	409, 344 87, 513	402, 228 31, 889	166, 632 28, 129
Certificates of indebtedness	284, 953 48, 848	87, 752 39, 992	152,290 6,679	44, 911 2, 177	146, 886 28, 942	24, 761 23, 063	85, 200 5, 128	36, 925 751	138,067 19,906	62, 991 16, 929	67, 090 1, 551	7, 986 1, 426
Other securities—Total					4, 299, 866	i 1 1 1 1		2, 641, 375		770, 582	839, 829 783, 150	728, 692 670, 261
Domestic securities—Total		1, 234, 146		2,960,748 566,412	3,767,070 881,974	516,320 125,885		2, 290, 487	2, 171, 237 497, 497	195, 623	182, 556	
Railroad bonds	938, 869 1, 074, 627	197, 414 109, 144	226, 124 235, 230	515, 331 730, 253	674, 282 798, 454	121, 736 49, 766	140, 819 144, 418	411, 727 604, 270	264, 587 276, 173	75, 678 59, 378	85, 305 90, 812	103, 604 125, 983
All other bonds	170, 260	213, 432 61, 144 162, 401	52, 511	56,605	890, 519 100, 738 111, 801	80, 107 26, 753 25, 080	194, 215 30, 634 48, 050	43, 351	439, 901 69, 522 461, 140	133, 325 34, 391 137, 321	164, 139 21, 877 182, 936	13, 254
Collateral trust and other corporation notes	217, 924 181, 958	59, 566 82, 439 27, 098	95, 480 35, 752	62, 878 63, 767	141, 774 128, 781 38, 747	30, 129 51, 849 5, 015	57, 195 27, 282 8, 655	54, 450 49, 650	76, 150 53, 177 33, 090	29, 437 30, 590 22, 083	38, 285 8, 470 8, 770	
All other Foreign securities—Total	700,662	125, 323			532, 796	72, 567		350, 888	167, 866	52, 756	56, 679	58, 431
Government bonds	344, 439 356, 223	63, 924 61, 399	80, 939 85, 081	$\frac{199,576}{209,743}$	264, 226 268, 570	34, 285 38, 282	57, 930 51, 411		80, 213 87, 653	29, 639 23, 117	33, 670	27, 565 30, 866
Demand deposits-Total					10, 320, 029		3, 604, 664		6, 518, 322			
Individual deposits subject to check Certificates of deposit	196,673	5, 645, 014 40, 490 112, 576	42,015		9, 123, 051 148, 232	28, 533	3, 280, 463 26, 996 265, 068	92,703	5, 984, 080 48, 441 370, 510	3, 163, 003 11, 957 65, 853	15,019	21,465
All other	258,076	155, 455	51, 106	51, 515	905, 961 142, 785	79, 709	32, 137	30, 939	115, 291	75, 746	18,969	20, 576
Net demand deposits			6, 120, 338		11, 430, 139	1	4,068,611		7,227,099		2,051,727	
Time deposits—Total		2,090,105 137,902	5,159,875 287.153		8,781,362 432,058	850, 500	2,849,495 194,588		5, 163, 506 139, 946	1,239,605 13,467	2, 310, 380 92, 565	
Banks in United States Banks in foreign countries Other time denosits	101, 313 233, 873	55, 236 202, 174	34, 940 31, 686	11, 137 13	74, 252 121, 452	40, 469 89, 758	25, 803 31, 681	7, 980 13	27, 061 112, 421	14, 767 112, 416	9, 137 5	3, 157
Evidenced by savings pass books Certificates of deposit Open accounts, Christmas savings accounts, etc	9,631,588 1,959,775 1,302,785	814, 328 160, 593 699, 539	572, 769	5,046,290 1,226,413 187,929	6, 038, 544 1, 371, 443 627, 619	38, 991		1,013,208	3, 593, 044 588, 332 675, 166	546, 502 121, 602 420, 043		213, 205
Postal savings	143, 530	20, 333	47,040	76, 157	115, 994	9, 525	37, 821	68, 648	27, 536	10,808		
Bills payable and rediscounts—Total		69, 653	50, 219	196, 108	219, 850	33, 238	30, 864		96, 130	36, 415	19, 355	40, 360
With Federal reserve banks—Bills payable Rediscounts	76, 865 95, 713	5,085 1,715	20, 542 6, 861	51, 238 87, 137	54, 516 77, 814	1,400 985	$13,476 \\ 4,415$	72, 414	22, 349 17, 899	3, 685 730	7,066 2,446	$11,598 \\ 14,723$
All other—Bills payable Rediscounts	137, 890 5, 512	62, 800 53	22, 696 120	52, 394 5, 339	83, 051 4, 469	30,800 53	12, 973	39, 278 4, 416	54,839 1,043	32,000	9, 723 120	13, 116 923

NOVEMBER, 1930

FEDERAL RESERVE BULLETIN

¹ Member banks only, i. e., exclusive of national banks in Alaska and Hawaii.

ALL MEMBER BANKS-CONDITION ON SEPTEMBER 24, 1930, JUNE 30, 1930, AND OCTOBER 4, 1929, BY CLASSES OF BANKS

[Amounts in thousands of dollars]

		Cen	tral reserv	e city bar	ıks		Other	eserve city	banks	Co	ountry ban	ks
		New York			Chicago					<u> </u>		
	Sept. 2, 1930	June 30, 1930	Oct. 4, 1929	Sept. 24, 1930	June 30, 1930	Oct. 4, 1929	Sept. 24, 1930	June 30, 1930	Oct. 4, 1929	Sept. 24, 1930	June 30, 1930	Oct. 4, 1929
RESOURCES												
Loans (including overdrafts) United States Government securities	1, 090, 788	1, 146, 913	989, 220	157, 379	160, 454	152,664	8, 500, 409 1, 627, 722	1, 525, 296	1, 518, 708	1, 219, 381	1, 228, 732	1.361.044
Other securities	1, 107, 406	1,055,857	817, 418	252,063	205 140	150 894	1 0/0 433	1 703 030	1 556 606	2 270 067	2 295 559	2 102 240
Joint Joans and Investments Justomers' liability on account of acceptances	8,557,302	8, 798, 300 634, 683	8, 150, 284 690, 522	1, 933, 552 78, 764	1, 848, 808 61, 277	1,822,641	12, 037, 564 209, 966	11, 851, 795 221, 143:	12, 160, 807 218, 595	12, 943, 832 11, 448	13, 156, 756 11, 704	13, 780, 039 11, 398
Banking house, furniture, and fixtures	213, 330	204, 607	178, 504	41, 548	41, 397	39, 316	437,617	436, 227	426, 520	538, 259	535, 732	531, 053
Other real estate owned	10,778	10, 347	8,088	510	517	508	72, 388	68,053	61, 258	114, 193	112,078	112, 942
Cash in vault		57, 777 814, 278	57, 516 734, 532	9, 229 174, 541				136, 288 787, 435	146,067 766,053	283,750 610,350	280, 285 629, 069	283, 677 647, 083
tems with Federal reserve banks in process of collection	235, 040	336, 270	331, 978	33, 769	33, 437	41, 256	327, 816	334, 835	420, 277	102, 246	131, 929	129,85
Due from banks in United States	105, 940		195, 775	165, 976	150,653	133, 506	1, 219, 957	1, 132, 888	828, 575	970, 954	920, 650	847, 08
Due from banks in foreign countries (including own branches)			166, 560 1, 648, 608	6, 986 50, 030	5, 566 70, 700		59, 628 187, 468	54,687 341,996	46, 993 330, 467	2, 649 44, 545	3, 432 88, 671	4,73
utside checks and other cash items	4,836	2, 143, 050	1, 048, 000	2, 251	4, 501		27, 929	60, 699	53, 046	16, 690	29,875	82, 469 28, 37
edemption fund and due from United States Treasurer	1, 757	1, 750	1, 783	411	310	310	7, 571	7,630	7,722	22, 865	22, 968	23, 01
cceptances of other banks and bills of exchange or drafts sold with indorsement	458, 049	438, 952	477, 900	FO 105	40.943	8, 315	00.000	Fa Fa				
ecurities borrowed	458, 049	438, 902	477, 900 gl	52, 125	40, 943	8, 315 698	80, 033 12, 972	76, 573 14, 443	64, 108 20, 048	2,525 10,894	1,280 11,880	1,264 11,837
ther assets		77,672	67, 155	9, 914	8, 969	7, 718	94, 701	83, 389	80, 628	54, 378	53, 084	43, 199
Total	12, 187, 659	13, 855, 097	12, 726, 640	2, 559, 606	2, 454, 169	2, 409, 771	15, 676, 270	15, 608, 081	15, 631, 164	15, 729, 578	15, 989, 393	16, 538, 013
LIABILITIES								·				
apital stock paid in rplus.	722, 092	714, 192	738, 281	151,000	149, 750	149, 050	856, 745	861, 187	854, 102	998, 827	996, 868	998, 212
urplus.	1,038,532	1,007,435 326,908	989, 512	124, 270	122, 170	121, 350	868, 688	867,061	840, 342	871, 768	874, 134	860, 065
ndivided profits—net eserves for dividends, contingencies, etc	340, 289 52, 925	326, 908 47, 020	291,516 45,290	28, 546 21, 989	24, 983 21, 096	$25,046^{\circ}$ 20,908	259, 746 59, 687	249, 801 59, 528	269,951 42,190	380, 854 51, 001	348, 380 55, 296	394, 418 35, 218
eserves for interest, taxes, and other expenses accrued and unpaid _	39, 426	40, 388	40, 187	20, 369	20,061	18, 302	72, 892	48, 994	64, 953	49, 710	39, 517	48, 751
ue to Federal reserve banks	2	104	19				11,040	7,605	11, 175	36, 105	38, 497	44, 526
Due to other banks in United States Due to banks in foreign countries (including own branches)	1, 105, 753 564, 568	1, 310, 904 492, 926	940, 134 415, 216	355, 794 22, 197	370, 343 21, 714	311, 576 20, 473	1, 953, 980 70, 898	1, 774, 397 54, 407	1, 510, 851 43, 634	401, 605 2, 949	376, 012 2, 719	390, 516 2, 373
ertified and officers' checks outstanding	579,083	1, 217, 435	1, 145, 365	29, 118	26,228	25, 316	96, 195	151, 860	147.316	67, 545	97, 914	2, 373
ash letters of credit and travelers' checks outstanding	17, 232	27, 139	18,038	1,935		2, 147	6, 604	10, 366	6, 957	867	1,074	471
emand deposits	4, 908, 589 1, 513, 238	5, 725, 714	5, 129, 611 1, 373, 642	1, 044, 946 576, 867			5, 522, 734 5, 159, 875	5, 696, 889 5, 047, 894	5, 793, 988 4, 711, 720	5, 362, 082 6, 694, 888	5, 590, 710 6, 701, 074	5, 927, 497 6, 767, 892
nited States deposits	56, 410	79.165	70, 770	5,074	8,955	16, 327	135, 927	142, 102	165, 805	0, 094, 888 59, 774	50, 547	62, 577
greements to repurchase U.S. Government or other securities sold.	22, 362	10, 453	83, 379			500	10, 887	19, 993	53, 615	4, 895	6, 718	11, 596
ills payable and rediscounts: With Federal reserve banks	6, 700	43, 348	68, 483	100		45, 119	27, 403	41.887	512, 422	100 075	100 011	070 007
All other	40, 353	72, 326	96, 799			2,700	27,403	18, 692	53, 638	138, 375 57, 733	188,645 70,072	273, 287 97, 450
cceptances of other banks and bills of exchange or drafts sold with								Ý I		, I	· · · -	
indorsement	458, 049	438, 952 626, 989	477, 900 683, 669	52, 125 79, 790	40, 943	8,315	80,033	76, 573	64, 108	2, 525	1,280	1,263
cceptances executed for customers	624, 582 12, 034	626, 989 25, 589	683, 669 26, 795	133	63, 130 263	68, 351 979	215,406 4,152	225, 125 7, 713	221,987 11,171	9, 559 1, 808	10, 332 1, 433	10,663 1,455
ational-bank notes outstanding	34, 920	34, 791	34, 245	8, 225	6, 200	6, 090	150, 541	151, 656	151, 501	455, 313	456, 451	448, 774
ecurities borrowed		40 000	57 700	14 600	1 200 170	698 15 747	12,972	14, 443	20,048	10, 894	11, 880	11, 837
ther liabilities		48, 995	57, 780	14, 628	28, 172	15, 747	77, 049	79, 908	79, 690	70, 501	69, 840	61, 729
Total	12, 187, 659	13, 855, 097	12, 726, 640	2, 559, 606	2,454,169	2, 409, 771	15, 676, 270	15, 608, 081	15, 631, 164	15, 729, 578	15, 989, 393	16, 538, 013

758

FEDERAL RESERVE BULLETIN

November, 1930

ALL MEMBER BANKS-LOANS, INVESTMENTS, DEPOSITS, AND BORROWINGS BY CLASSES OF BANKS

[Amounts in thousands of dollars]

······································		Ce	entral reser	ve city bai	ıks ·		Other	reserve cit;	y banks	C	ountry bar	iks
		New York			Chicago							
	Sept. 24, 1930	June 30, 1930	Oct. 4, 1929	Sept. 24, 1930	June 30, 1930	Oct. 4, 1929	Sept. 24, 1930	June 30, 1930	Oct. 4, 1929	Sept. 24, 1930	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Oct. 4, 1929
Loans-Total	6, 359, 108	6, 595, 530	6, 343, 646	1, 524, 110	1, 483, 214	1, 510, 153	8, 500, 409	8, 532, 560	9, 085, 403	8, 354, 384	8, 602, 466	9, 225, 627
Acceptances payable in United States Bills, acceptances, etc., payable in foreign countries Commercial paper bought in open market Loans to banks—On securities	27, 632 22, 055 52, 567	$\begin{array}{r} 143,756\\29,127\\35,455\\77,726\end{array}$	58,782 32,964 8,374 301,744	6,916 13,334 42,404 ∫ 35,165	$ \begin{array}{r} 1,579 \\ 19,149 \\ 55,866 \\ 42,746 \end{array} $	$\begin{array}{c}1,320\\3,682\\3,684\\68,319\end{array}$	46, 833 17, 311 294, 794 { 76, 556	$\begin{array}{r} 16, 683 \\ 18, 781 \\ 245, 079 \\ 99, 085 \end{array}$	$\begin{array}{c} 6, 191 \\ 27, 360 \\ 71, 303 \\ 225, 373 \end{array}$	3, 523 3, 657 163, 876 10, 569	7,650 4,381 170,992 10,609	26, 814 5, 555 144, 213 } 44, 865
All other Loans on securities, exclusive of loans to banks-Total	116, 441	$\frac{117,911}{3,905,525}$	3.040.326	$\frac{1}{920,131}$	7,065	819,879	$\frac{116,791}{3,354,881}$	$\frac{128,464}{3,347,918}$	3, 462, 110	151,425 2,315,622		2,671,452
To brokers and dealers in New York To brokers and dealers elsewhere To others. Real estate loans—On farm land	1, 714, 404 86, 332 1, 944, 568 23	1, 882, 787 68, 407 1, 954, 331 35	1, 095, 662 46, 280 1, 898, 384 920	233, 268 238, 943 447, 920 1, 545	99, 499 228, 948 487, 473 1, 832	58,764257,080504,0351,840	409, 277 360, 068 2, 585, 536 110, 804	$\begin{array}{r} 253,098\\ 431,364\\ 2,663,456\\ 110,277\end{array}$	$\begin{array}{r} 354,085\\510,314\\2,597,711\\110,114\end{array}$	114, 832 88, 432 2, 112, 358 274, 994	$\begin{array}{r}129,351\\90,115\\2,136,524\\273,892\end{array}$	376, 375 125, 394 2, 169, 683 279, 202
On other real estate All other loans (including overdrafts)	157, 381 2, 089, 545	156,766	174,861 2,725,675	16,100 482,236	17,575 521,482		1, 397, 770 3, 084, 669	1, 394, 282 3, 171, 991	1, 360, 299 3, 822, 653	1, 205, 093 4, 325, 625		1, 206, 119 4, 847, 407
Loans eligible for rediscount with Federal reserve banks	797, 555	784, 564	1, 168, 317	202, 489	225, 686	<u> </u>	1, 271, 257	1, 274, 966	1, 445, 653			1, 733, 150
United States Government securities—Total	1.090.788	1, 146, 913	989, 220	157.379	160,454		1, 271, 257	1, 525, 296		1, 219, 381		1, 733, 150
Bonds. Treasury notes Certificates of indebtedness All other.	875, 797 139, 774 55, 154 20, 063	958, 833 77, 448 110, 632	$\begin{array}{r} 731,723\\226,055\\21,764\\9,678\end{array}$	81,024 23,828 32,598 19,929	128, 830 26, 327 4, 797 500		1, 347, 486 121, 267 152, 290 6, 679	1, 218, 546 201, 707 102, 719 2, 324		1, 038, 667 133, 626 44, 911 2, 177	1,033,625 157,442 36,256	1,021,316 201,109 103,869 34,750
Other securities-Total	1, 107, 406	1, 055, 857	817, 418	252, 063	205, 140	159, 824	1, 909, 433	1, 793, 939	1, 556, 696	3, 370, 067	3, 325, 558	3, 193, 368
Domestic securities—Total		955, 658	745, 619	229, 929	186, 377	148,694	1, 743, 413	1, 629, 496	1, 426, 114	2, 960, 748		2, 794, 475
State, county, and municipal bonds Railroad bonds Other public-service corporation bonds All other bonds Stock of Federal reserve banks Stock of other corporations Collateral trust and other corporation notes Municipal warrants All other	89, 087 187, 084 52, 881 156, 438 50, 626	$\begin{array}{c} 183, 639\\ 187, 550\\ 87, 994\\ 214, 105\\ 51, 945\\ 163, 834\\ 43, 594\\ 8, 379\\ 14, 618\\ \end{array}$	$\begin{array}{r} 130, 311\\ 139, 833\\ 61, 638\\ 137, 335\\ 51, 766\\ 155, 320\\ 25, 148\\ 18, 495\\ 25, 773 \end{array}$	52, 367 12, 004 20, 057 26, 348 8, 263 5, 963 8, 940 80, 811 15, 176	$\begin{array}{c} 30,188\\ 10,533\\ 18,596\\ 29,129\\ 8,132\\ 5,114\\ 1,653\\ 70,390\\ 12,642 \end{array}$	32, 227 10, 290 10, 113 17, 928 8, 012 5, 091 627 53, 395 11, 011	$\begin{array}{r} 491,551\\ 226,124\\ 235,230\\ 358,354\\ 52,511\\ 230,986\\ 95,480\\ 35,752\\ 17,425\end{array}$	$\begin{array}{c} 449,358\\ 206,438\\ 230,503\\ 342,309\\ 52,501\\ 227,380\\ 74,742\\ 30,308\\ 15,957\end{array}$	$\begin{array}{c} 398, 681 \\ 161, 238 \\ 177, 459 \\ 320, 222 \\ 50, 700 \\ 203, 337 \\ 62, 914 \\ 31, 958 \\ 19, 605 \end{array}$	566, 412 515, 331 730, 253 758, 634 56, 605 179, 554 62, 878 63, 767 27, 314	509, 516 710, 594 755, 246 56, 927 169, 089 60, 947 61, 498	$\begin{array}{c} 555,057\\ 475,773\\ 653,554\\ 752,398\\ 56,208\\ 140,100\\ 65,371\\ 65,653\\ 30,361\end{array}$
Foreign securities—Total	103, 189	100, 199	71, 799	22, 134	18,763	11, 130	166,020	164, 443	130, 582	409, 319		398, 893
Government bonds Other foreign securities	51, 226 51, 963	51, 688 48, 511	40,797 31,002	12, 698 9, 436	$11,849 \\ 6,914$	7,773 3,357	80, 939 85, 081	84, 997 79, 446	61, 341 69, 241	199, 576 209, 743		193, 496 205, 397
Demand deposits-Total	4, 908, 589	5, 725, 714	5, 129, 611	1, 044, 946	1, 048, 664	1, 086, 382	5, 522, 734	5, 696, 889	5, 793, 988	5, 362, 082	5, 590, 710	5, 927, 497
Individual deposits subject to check Certificates of deposits State, county, and municipal deposits All other	4, 650, 402 37, 528 68, 062 152, 597	5, 330, 604 30, 813 123, 257 241, 040	4, 800, 540 23, 675 75, 125 230, 271	994, 612 2, 962 44, 514 2, 858	989, 372 2, 711 54, 487 2, 094	1, 038, 821 2, 776 38, 724 6, 061	5, 025, 482 42, 015 404, 131 51, 106	5, 114, 600 43, 943 469, 958 68, 388	5, 286, 897 33, 222 405, 242 68, 627	4, 436, 635 114, 168 759, 764 51, 515	120, 574 920, 768	5, 040, 789 128, 479 705, 284 52, 945
Net demand deposits	5, 873, 175	6, 146, 508	5, 587, 184	1,231,346	1, 232, 542	1, 217, 021	6, 120, 338	6, 140, 653	6, 150, 537	5, 432, 379	5, 650, 654	5, 996, 858
Time deposits-Total		1, 564, 324		576, 867	498,686	464, 395	5, 159, 875	5, 047, 894		6, 694, 888		6, 767, 892
States, counties, and municipalities. Banks in United States Banks in foreign countries. Other time deposits—	17, 198 39, 732 169, 445	16, 174 50, 128 183, 979	20, 250 46, 980 92, 942	120, 704 15, 504 32, 729	89, 835 15, 862 21, 585	72, 400 22, 168 9, 928	287, 153 34, 940 31, 686	319, 579 38, 400 17, 879	258, 123 35, 176 9, 521	146, 949 11, 137 13	7, 439 671	140, 322 6, 824 14
Evidenced by savings pass books Certificates of deposit. Open accounts, Christmas savings accounts, etc Postal savings	642, 881 79, 090 548, 272 16, 620	641, 737 106, 700 548, 009 17, 597	633, 232 79, 503 482, 634 18, 101	171, 447 81, 503 151, 267 3, 713	166, 953 62, 4 7 139, 028 2, 946	184,070 56,334 117,893 1,602	3, 770, 970 572, 769 415, 317 47, 040	$3,773,169 \\ 478,376 \\ 378,469 \\ 42,022$	$\begin{array}{r} 3, 653, 139 \\ 388, 368 \\ 325, 970 \\ \underline{41, 423} \end{array}$	5, 046, 290 1, 226, 413 187, 929 76, 157	1, 213, 951 167, 173	5, 133, 279 1, 219, 007 209, 546 58, 900
Bills payable and rediscounts-Total	47, 053	115,674	165, 282	22, 600		47, 819	50, 219	60, 579	566, 060	196, 108	258, 717	370, 737
With Federal reserve banks—Bills payable Rediscounts All other—Bills payable Rediscounts	4, 985 1, 715 40, 300 53	42, 100 1, 248 72, 300 26	64, 937 3, 546 85, 624 11, 175	100 22, 500		30, 019 15, 100 2, 700	20, 542 6, 861 22, 696 120	28, 243 13, 644 17, 905 787	336, 697 175, 725 49, 117 4, 521	51, 238 87, 137 52, 394 5, 339	77, 483 111, 162 64, 984 5, 088	152, 012 121, 275 89, 301 8, 149

NOVEMBER, 1930

FEDERAL RESERVE BULLETIN

759

ALL MEMBER BANKS-CONDITION ON SEPTEMBER 24, 1930, BY FEDERAL RESERVE DISTRICTS

[Amounts in thousands of dollars]

	Total					Fed	eral Reser	ve Distric	t	·			
		Boston	New York	Philadel- phia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran cisco
RESOURCES													
Loans (including overdrafts)	94 729 011	1 909 160	0 605 120	1 914 941	2, 299, 809	881, 573	768 964	3, 642, 179	899, 433	514, 557	741, 322	649 457	2, 123, 87,
United States Government securities	4 005 270	1, 808, 102	1, 367, 087	195, 564		126,703		486.689				129, 200	494.29
Other securities	4,090,270	237,400	2, 130, 493	726, 765			150, 731			227,075		89.432	
Defalleens and investments	0,000,909	031,094	2, 130, 493	120,100	3, 529, 783		1 059 597	A 666 FOF		221,010	1 160 999	868, 089	
Fotal loans and investments	- 30, 472, 200	7, 283, 428	12,092,719	2, 136, 370	0, 049, 100	1, 205, 717	1,052,537	4, 900, 900	1, 288, 578		1, 160, 338 20		
Justomers' liability on account of acceptances	912, 852	76, 699		25, 459			10, 465	98, 954	2,941	141		4, 342	45, 36 113, 20
Sanking house, furniture and fixtures	1, 230, 754	71,606					57, 523	178, 676	40, 496	26, 815		47, 236 9, 735	
ther real estate owned		8, 163					15, 755	24,070			7, 500		17, 64
ash in vault		34, 372					24, 903	69, 146		16,648		22,091	41, 43
leserve with Federal reserve banks		146, 499					60, 519	335, 532		49, 433		62, 594	169, 29
tems with Federal reserve banks in process of collection		55, 797		43, 523			18, 904	80, 253		6.734		22, 523	29,60
Due from banks in United States	. 2, 462, 827	117, 148	254.417	161, 814	223, 062	110, 915	132, 270	409, 499	124,674	141,755	285, 269	190, 488	311, 51
Due from banks in foreign countries (including own	1							-		,			
branches)	202, 447	28,039	135, 376	4, 164	2, 592	5, 443	1, 239	10, 211	1, 421	990	721	380	11, 87
Exchanges for clearing house and other checks on local													
banks	1, 146, 915	23, 313	878, 268	33, 232		10, 382	9,640	78, 357	11,083	7,882	13, 936	7,832	48, 08
outside checks and other cash items	51,706	2, 201		1, 584	3, 495	1,863	2, 296	12,666	1, 686	2,738	3,479	2, 291	9, 62
Redemption fund and due from United States Treasurer	32, 604	2. 210	4,468	2,769	3,826	2,458	2, 377	4, 597	1, 592	1, 326	1,578	2, 248	3, 15
cceptances of other banks and bills of exchange or drafts	,			_,	-,	_,	_,	_,	-,	-,	,	· ·	
sold with indorsement	592.732	27, 738	475, 612	6, 334	8,650	862	1, 476	58, 100	786	31	27	121	12.99
ecurities borrowed		248	480		7,674	903	1, 996	2, 613	7,218	71		443	86
other assets.		13.387		22, 868		7, 101	3, 951	25, 341	5. 514	9, 161		1, 907	21, 40
Total	46, 153, 113	3, 190, 879	16, 336, 667	3, 350, 193	4, 352, 404	1, 549, 893	1. 395, 851	6. 354, 520	1, 624, 631	1, 141, 658	1, 662, 422	1, 242, 320	3, 951, 67
LIABILITIES													
Capital stock paid in	2 728 664	196,277	940.311	184,065	232.897	107, 586	103, 891	370, 132	110.405	64.125	93, 682	93, 528	231.76
urplus	2,003,258	181.405			293.353	82, 382	71,502	295, 887	63, 279	35, 889		47, 911	144.93
Individed profits—net	1,000,425	77,445		87,096	83, 223	31,654	22,537	97,705	27,474	17,057	26, 193	29,045	61,93
Reserves for dividends, contingencies, etc	185,602	14,654	68,646	14, 568	18,730	6, 497	2, 962	35,148	5, 547	3, 138		3, 332	9, 17
Reserves for interest, taxes, and other expenses accrued	160,002	14,004	00,040	• 14,000	10,730	0,497	2, 902	55, 140	0,047	a, 188	3, 201	0,002	0,11
and unpaid	182.397	15,320	58.382	11, 432	20,282	7,090	4.798	32,720	4, 548	5, 791	4, 310	3, 368	14,35
Due to Federal reserve banks	182, 397									5,791	4, 310	1,372	4.91
		6,643		6,453	4,779	4,071	1,920	3,369	104		69		
Due to other banks in United States	3, 817, 132	166,878	1, 212, 270	24 8, 466	392,612	120,734	120,685	568, 887	151, 720	105, 421	254, 410	140, 022	350, 02
Due to banks in foreign countries (including own						1 0 00	4.040	00.015					23.75
branches)	660, 612	23,725	566, 926	5, 515	5,049	1,253	4, 367	26,817	409	1,089		1,411	
ertified and officers' checks outstanding	771, 941	13,787	592, 822	10, 446	17,758	8, 563	6,066	49,685	10, 165	9,034		12, 219	28, 30
ash letters of credit and travelers' checks outstanding	26,638	569	17,756	83	3, 949	92	68	2,319	63	23		12	1,62
Demand deposits	16, 838, 351	1,264,250	6, 244, 020	1,090,545		505, 815	489, 204	2,290,504	€01,309	408, 469			1, 199, 23
lime deposits		1,026,784		1, 161, 258	1, 724, 543	567,161		2,232,621	534, 976	455, 760	398,047		1,739,91
Inited States deposits	257, 185	22,773	70,328	18, 129	25,525	22,655	31,660	18, 989	4,610	2,239	4,885	20, 468	14, 92
greements to repurchase U. S. Government or other	:					l i							
securities sold	38, 144	2,045	22, 564	95	1,210	247	222	1, 929	8,010	203	374	1,076	16
Bills payable and rediscounts:	1						1			1	1		
With Federal reserve banks	172, 578	10, 241	24, 447	14,686	15, 920	18,785	24, 986j	15,412	17,018	4,072	8,769	12,053	6,18
All other	143, 402	6, 501	44, 998	12, 170	6, 922	6,818	8,850	34, 350	11, 741	713	576	5,826	3, 93
cceptances of other banks and bills of exchange or drafts	i	{											
sold with indorsement	592, 732	27,738	475,612	6, 334	8,650	862	1,476	58,100	786	31	27	121	12,99
cceptances executed for customers	929, 337	77,456	634, 462	24, 108	18,704	5, 494	12,843	99,774	2,919	95	20	6,747	46, 71
cceptances executed by other banks for account of	1		,		-,	-,	,	,	_,				
reporting banks	18, 127	930	13, 538	2,122	164	119	321	193	35	49			65
ational-bank notes outstanding	648,999	44, 597	88,860	54, 982	76, 031	48, 838	47, 182	91,609	31,628	26, 384		44, 789	62.71
ecurities borrowed	23,866	248	480	323	7,674	903	1, 996	2,613	7, 218	71	1,034	443	86
ther liabilities	212,698	10,613	98.451	22.501	6,845	2,274	3, 353	25, 757	30, 667	2,005		1,130	7, 57
	·												·
Total	46, 153, 113	3, 190, 879	16, 336, 667	3, 350, 193	4, 352, 404	1, 549, 893	1, 395, 851	6, 354, 520	1, 624, 631	1, 141, 658	1, 662, 422	1, 242, 320	3, 951, 67
umber of banks	8,246	398	922	755	767	485						716	59
							407	1,118	549	657	880		

FEDERAL RESERVE BULLETIN

NOVEMBER, 1930

ALL MEMBER BANKS-LOANS, INVESTMENTS, DEPOSITS, AND BORROWINGS ON SEPTEMBER 24, 1930, BY DISTRICTS

[Amounts in thousands of dollars]

		1				F	'ederal R	eserve Dis	strict				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Francisco
Loans—Total	24, 738, 011	1, 808, 162	8, 595, 139	1, 814, 241	2, 299, 809	881, 573	768, 264	3, 642, 179	899, 433	514, 557	741, 322	649, 457	2, 123, 875
Acceptances payable in United States	205, 432			258	1,265	25	874		306	487	1,215	1,772	20, 063
Bills, acceptances, etc., payable in foreign countries Commercial paper bought in open market	. 61, 934 523, 129	1,952 89,264	28, 424 58, 695		1,050 29,725	$175 \\ 22,355$			565 47, 571	364 23, 263		790 9, 937	
Loans to banks—On securities	174,857			13, 933	17, 270	4, 959			10, 394	23, 203	3, 628	1,488	3, 244
All other	290, 936		118, 451	12, 778	11, 208	18, 582		19, 537	28, 128	6,459	18, 308	9, 421	4, 214
Loans on securities, exclusive of loans to banks-Total			4, 622, 292		977, 160	258, 481	188, 115		282, 378	127, 349	160, 904	124, 176	591, 296
To brokers and dealers in New York			1, 795, 012		86,407	11,035			16, 728	7,454		10, 283	87, 529
To brokers and dealers elsewhere To others		87,739 546 188	104,327 2,722,953	78,412 601,232	65, 252 825, 501	14,143 233,303		288, 250 989, 560	28,168 237,482	6,928 112,967	8,256 126,424		71, 427 432, 340
Real estate loans—On farm land		8,634			31,102	18.108		79,479	25, 699	25.270	21.031	17,656	107, 914
On other real estate	2, 776, 344	272, 517	542, 887	226,702	467, 062	50, 903	52, 594	472, 295	101, 727	20, 479	22,304	22, 584	524, 290
All other loans (including overdrafts)	9,982,075	640, 363	3, 007, 731	751, 731	763, 967	507, 985	456, 561	1,376,809	402,665	310,096	481, 232		821, 302
Loans eligible for rdiscount with Federal reserve banks	3, 812, 169	233, 478	1, 090, 265	258, 888	232, 509	186, 485	183, 440	529, 919	198, 197	158, 223	241, 214	205, 849	293, 702
United States Government securities—Total	4, 095, 270	237, 405	1, 367, 087	195, 564	514, 973	126, 703	133, 542	486, 689	106, 049	130, 712	173, 047	129, 200	494, 299
Bonds			1, 104, 698	172, 481	475, 769	100, 561	100, 629	318, 969	86, 001	112, 522		95, 236	435, 003
Treasury notes	418, 495				26, 194	6, 858		67,081	11, 315	14,707	30, 145	13, 569	
Certificates of indebtness			67, 454 21, 387	8, 115 79	12, 978 32	19, 283	24, 012 26	80, 589 20, 050	5, 246 3, 487	3,432 51	6, 933 2, 339	19, 908 487	22, 158 909
Other securities—Total		-	2. 130. 493	726, 765	715,001	197, 441	150.731	837.637	283, 096		245,969	89.432	
Domestic securities—Total			1 , 900, 158		634, 210	178, 931	139, 282		257, 150	195, 464	225, 787	83, 734	450, 251
State, county, and municipal bonds		37, 872		66, 700	97, 053	$\frac{178, 331}{29, 810}$	43, 680	195, 989	69,069	50.857	100, 959	28, 094	267, 829
Railroad bonds	938, 869	74, 337	402, 126	143, 130		29, 510	12, 461	62, 813	26, 789	27, 821	20, 748	3, 537	31, 159
Other public-service corporation bonds	[1, 074, 627]	153, 456	313, 279		100, 903	28,822	13, 135	143, 911	40, 171	36, 766	19, 076	5, 184	50, 527
All other bonds Stock of Federal reserve banks	1, 330, 420 170, 260	100, 520 11, 799	372, 194 66, 339	145, 108 16, 775	198, 556 15, 813	52, 998 5, 842	39, 989 5, 322	$173, 321 \\ 20, 116$	58, 862 5, 232	56, 579 3, 040	44, 126 4, 298	23, 032 4, 349	65, 135 11, 335
Stock of other corporations	572, 941			58, 631	60, 594	19, 223	17, 733	18, 508	41,012	1, 663	13, 170	6, 633	8,476
Collateral trust and other corporation notes	217, 924	15, 168;	64, 370	36, 494	37, 512	18, 610	1, 740	25, 679	7,017	4,488	2,823	1,839	2, 184
Municipal warrants.	181, 958	12,936	10,843	3,158	5,408	771	2, 388		5, 437	11, 849	16, 921	9, 318	11,897
All other Foreign securities—Total		4,009 65,987	13, 958 230, 335	<u>6,403</u> 80,969	4, 966	$\frac{2,312}{18,510}$	2,834	24, 270	3, 561	2,401	$\frac{3,666}{20,182}$	<u>1,748</u> 5,698	1,709 47,186
Government bonds			230, 335		$\frac{80,791}{37,516}$	8, 325	6, 134	81, 998 42, 313	25, 946		11. 388	3, 267	30, 448
Other foreign securities	356, 223	36, 931	120, 760	42,907	43, 275	10, 185	5, 315	39.685	12,006	17, 196	8,794	2, 431	16,738
Demand deposits-Total		·		· · · · · ·		505, 815		2, 290, 504	601, 309	408, 469	775, 782	581, 682	
Individual deposits subject to check					1.171.447	457,044		2.066.547	529, 254	330, 503	636, 421	503, 990	1.078.128
Certificates of deposit	196,673	13, 907	51,372	7,636	14,458	5,255	5,469	29,837	10,687	12, 447	24, 327	11, 383	9,895
State, county, and municipal deposits	1.276,471	61,766	274,149	78, 532	184, 317	39, 217	66,701		58,425	63, 391	106,944	62,075	98, 928
All other		15,225			17.362	4, 299	3,715		2,943	2,128	8,040	4,234	12,286
Net demand deposits	1	·	<u> </u>			530, 281		2, 520, 233	644,669	425,680	809,735	_599,023	1,291,084
Time deposits—Total								2, 232, 621	534, 976	455, 760	398, 047		
States, counties, and municipalities	572,004				80,087	15,071	18,951		18, 348	6, 167	25, 191	18,031	153,073
Banks in United States Banks in foreign countries	101, 313	2, 120 18, 331	43,855 169,450	2, 685	2, 376	3, 089	1,945	20,358 32,729	3,059	7, 448	113	706 13	13, 559 13, 350
Other time deposits—								,				10	10,000
Evidenced by savings pass books	9,631,588	764,678	2,315,507		1,311.002	419, 813	277, 392	1, 404, 216	281,725	261,535	185, 959		
Certificates of deposit. Open accounts, Christmas savings accounts, etc	-1,959,775 1,302,725	$159,266 \\ 68,860$	203,054 617,083	$168,701 \\ 88,277$	215,373 107,998	96, 573 28, 088	92,727 26,469	407, 596 204, 364	202,042	151,196 9.335	$116,743 \\ 49,540$	$34,170 \\ 11.017$	
Postal savings	1,302,785 143,530	5, 897	19,433	3,357	7,707	4, 527	26,469		22,811 6,991	9,335 20,079	49, 540	5, 430	68, 943 14, 951
Bills payable and rediscounts-Total		16, 742	69, 445	26, 856	22.842	25, 603	33, 836		28, 759	4, 785	9, 345	17.879	10, 126
With Federal reserve banks—Bills payable		4,089	16,003	8, 387	11,694	6,063	4.511	9,628	9,152	431	2.314	2,969	1.621
Rediscounts	95,713	6,152	8,444	6,299	4,226	12,722	20, 475	5, 784	7,866	3,638	6,455	9,084	4, 568
All other—Bills payable	.; 137,890	6, 337	44, 586	11,795	6,396	6,052	7,997	33, 524	11,207	668	410	5, 437	3, 481
Rediscounts	- 5, 512	164	412	375	52 6	766	853	826	534	45	166	389	456

NOVEMBER, 1930

FEDERAL RESERVE BULLETIN

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