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NOVEMBER, 1929

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AT WASHINGTON

Credit and Business Developments
Revised Indexes of Factory Employment and
Pay Rolls



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FEDERAL RESERVE BULLETIN

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No. 11

REVIEW OF THE MONTH

Credit developments during the past month were characterized by large liquidation in the field of security loans. The Liquidation of decline in security values which security loans. took place in the latter part of October was reflected in a

reduction for the month of \$2,400,000,000 in brokers' borrowings, as reported by the New York Stock Exchange. A large part of this reduction occurred during the last week of the month. Loans to brokers by nonbanking lenders declined by \$2,000,000,000 during October, reflecting withdrawals of funds from the call-loan market by foreign lenders, investment and trading companies, and other Loans corporations and individuals. brokers for out-of-town banks, which include a considerable amount of loans for account of their customers, decreased by \$800,000,000, while loans by New York City banks for their own account increased by \$1,000,000,000. the same time the banks in New York City also increased their security and other loans to customers, and their investments. Combined figures for the weekly reporting member banks in leading cities showed an increase in total loans and investments from October 2 to October 30 of \$1,600,000,000. Practically all of this unprecedented growth occurred during the last week of the month and nearly all was at banks in New York City. The taking over by the New York City banks of brokers' loans of nonbanking lenders and the extension by these banks of additional loans to their customers was reflected in a growth from October 23 to October 30 of \$1,500,000,000 in the New York banks' net demand deposits and in a consequent large growth of their reserve requirements, as indicated by an increase of \$240,000,000 in their reserve balances with the Federal reserve bank.

In coming to the support of the situation during this period of severe disturbance the banks in New York City had the assistance of

the Federal reserve system. The Federal Reserve Bank of New York increased its discounts for member banks by \$150,000,000 during the week and in addition purchased \$150,000,000 of United States Government securities in the open market. As a consequence of the action of the banks in New York City and of the Federal Reserve Bank of New York, the liquidation which took place in the security market was not associated with a rise in money rates. Rates on call money, which had declined from a range of 8 to 9 per cent in September to 6 per cent in the latter part of October, ranged between 5 and 6 per cent during the last week of that month. On October 31 the discount rate at the Federal Reserve Bank of New York was reduced from 6 to 5 per cent, the level prevailing at the other reserve banks.

Industrial activity, as measured by the Federal Reserve Board's index of production

Industrial activity.

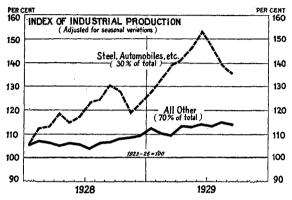
in basic industries, has shown some decline since midsummer. The board's index is adjusted for usual seasonal variations,

and while the actual physical volume of the industrial output increased somewhat in August and again in September, the index showed declines for both months, because the increases were not so large as is usual at that season of The fact that this autumn's growth of industrial production was less than has been usual in recent years should be considered in connection with the unusually rapid expansion of many industries earlier in the year, which continued until midsummer contrary to the usual seasonal trend. Total production in basic industries for the first nine months of the year was 11 per cent larger than for the corresponding period of 1928, which was a year of high production, and the third quarter showed an increase of 10 per cent over the unusually high industrial record of the third quarter of the preceding year.

An analysis of the recent course of the board's index of industrial production is presented

in the accompanying chart, which divides the index into Course of protwo elements, the upper line duction analyzed. representing the production of iron and steel, automobiles,

rubber tires, and other products entering to a large extent into the manufacture of automobiles, and the lower line representing the output of all other industries included in the index.



Broken curve includes manufacture of iron and steel, automobiles, rubber tires and tubes, copper (smelting), and coke—also mining of iron and copper ore; "all other" industries are as shown on pages 727-728.

The group of industries represented by the lower line on the chart, which includes altogether 70 per cent of the entire output of basic industries, shows a steady gradual growth since the middle of 1928, indicating that operations of more than two-thirds of these basic industries have shown no marked fluctuations and have continued on a high level. trast to the course of the major group of industries has been the group including steel, automobiles, and other related industries, comprising in the aggregate less than one-third of the total industrial output. This group has shown a rapid rise in the first nine months of 1928, a decline in the last quarter of that year, a further growth in the first half of 1929, and a more pronounced decline in the last three The principal component of this months. group is the iron and steel industry; two important factors in the rise of the curve have been demand for steel from the automobile industry and from the railroads, while in the

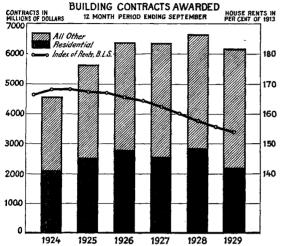
the reduced demand for steel by producers of The contrast between the two automobiles. lines would be still more pronounced if it were possible to subdivide steel and other products into those used in building automobiles and those used by other industries, since the demand for steel from other important consumers, such as the construction industry, the railroads, and shipbuilding, has remained high in recent months, while the demand from the automobile industry has declined.

The output of automobiles increased rapidly from 1927 and reached a peak in the late spring of this year. Since that time there has been some decline in the industry, but the total output of automobiles in September was approximately in the same volume as in September, 1928. For the first nine months of the year the number of motor cars produced was about 4,650,000, an amount 300,000 in excess of the entire annual output in 1928 when motor production exceeded all previous records. rapid expansion in automobile output in 1928 and in the first half of 1929 was supported by a backlog of demand that had accumulated during 1927, when the Ford organization suspended activities pending the introduction of new models. and by increased exports. It would appear that during the first half of this year the output had caught up with this demand.

In the construction industry, which is not included in the index of industrial production,

the volume of residential build-Building ining contracts awarded declined dustry. further inSeptember, public works and commercial and industrial building continued in large volume. aggregate for all classes of building, however, was smaller in September than in earlier months. Notwithstanding the decline in the past 12 months, the volume of construction, as measured by contracts awarded, has remained at a high level compared with earlier years. During the year ending September 30, 1929, total construction contracts awarded in 37 States east of the Rocky Mountains were about 8 per cent lower than in the preceding year and about 4 per cent under the corresponding years endrecent decline the principal factor has been ing in September, 1926 and 1927, as is shown

by the chart. The chart also brings out the fact that the decrease during the past year was entirely due to a reduction in contracts for residential construction, which declined to the lowest levels since the 12 months ending in September, 1924, while contracts for construction other than residential have expanded during the year.



Statistics of building contracts awarded from F. W. Dodge Corporation. Figures of rents as reported by the Bureau of Labor Statistics are shown for June and December dates.

The decline in residential construction has followed a drop in house rents, as measured by the semiannual index of the Bureau of Labor Statistics, which is also shown on the The shortage of housing that had developed during the war was accompanied by a rising trend in rents, which came to a peak in 1924, and was a factor in causing a steady expansion of building activity from 1921 to 1926. tivity of the construction industry was, in fact, an important element in the general expansion of industrial production during this period. The total volume of construction activity has remained on a high level since 1926, but there has been a decrease in the proportion of the total represented by residential construction.

During the past year the decline in residential construction has also been influenced by the prevailing high level of money rates and the unfavorable condition of the bond market. The financing of speculative building enterprises has been more difficult than in other recent years. The termination of the housing shortage and the availability of housing ac-

commodation fully adequate to meet the demand, and in some localities in excess of immediate demand, has led to a more conservative appraisal of mortgage values and risks than was the practice during the period of rising rents and assured demand for all new houses and apartments that were erected.

Notwithstanding the slackening of industrial activity in the past two months, factory

Employment and wage payment and buying powers.

er.

employment and wage payments to industrial workers, which had been increasing for the past two years, remained

in large volume this autumn. Earnings of industrial workers, therefore, have been maintained, and there appears to be no considerable change in the income of farmers as compared with last year. The sustained buying power of both industrial and agricultural workers has been reflected in a large volume of distribution of commodities by the railroads and in a growth in retail sales to ultimate consumers.

Changes in Discount Rate and Bill Rates

The discount rate on all classes and maturities of paper at the Federal Reserve Bank of New York was reduced from 6 to 5 per cent, effective November 1.

Buying rates on bills with maturities under 90 days at the New York bank were reduced from 5½ to 5 effective on October 25, and effective November 1, were further reduced to 4¾ per cent. The buying rate on bills of 4 months' maturity was reduced from 5½ to 4¾ per cent and on bills of 5–6 months' maturity from 5½ to 5 per cent, effective November 1.

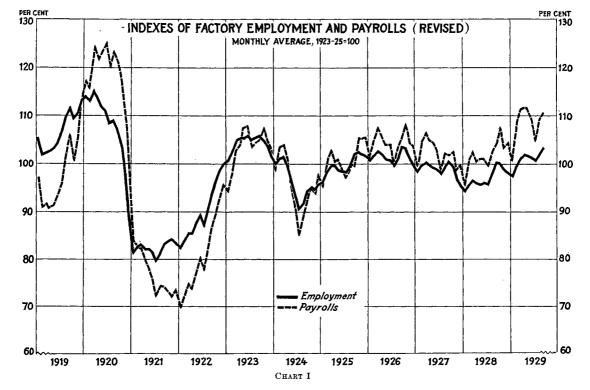
Changes in Foreign Central Bank Discount Rates

The following changes have been made since the first of October in the discount rates of central banks in foreign countries: October 3, Bank of Estonia, from 7½ to 8 per cent; October 10, Imperial Bank of India, from 5 to 6 per cent; October 10, Bank of the Republic of Colombia, from 7 to 8 per cent; October 31, Reserve Bank of Peru, from 6 to 7 per cent; October 31, Bank of England, from 6½ to 6 per cent; October 31, Imperial Bank of India, from 6 to 7 per cent; November 1, Netherlands Bank, from 5½ to 5 per cent; November 2, Bank of Danzig, from 7 to 6½ per cent; November 2, German Reichsbank, from 7½ to 7 per cent; and National Bank of Hungary, from 8 to 7½ per cent.

REVISED INDEXES OF FACTORY EMPLOYMENT AND PAY ROLLS 1

The Federal Reserve Board has for several years compiled currently for the United States and published in the FEDERAL RESERVE BUL-LETIN index numbers of factory employment and of factory pay rolls. A revision of these indexes has recently been completed and the revised indexes together with a description of the data underlying them and of the methods used in their construction are presented in this The revised indexes are shown on Chart I and in Tables 1 and 2. The chart

building, trade, etc., are not available. manufacturing, however, the indexes are now on such a comprehensive basis that they are broadly representative of long-time changes in employment and earnings in all manufacturing industries, because of the inclusion of statistics at intervals of two years for industries which do not report employment currently. Monthly statistics for additional industries that have become available currently since the old indexes were constructed are included, with the result brings out the general similarity of movement | that the monthly fluctuations of the revised



between employment and earnings, and also the fact that earnings have fluctuated more widely than employment, both within each year and over longer periods of time. In 1920 earnings rose further than employment, and in 1921 were more sharply reduced. Within the last two years earnings have again increased more rapidly than employment.

Broader scope of revised indexes.—The revised indexes, like those which they supersede, relate to manufacturing industries only, not to all industries, since necessary basic data for

indexes are more representative. The basic data are derived from reports collected by various agencies, chiefly the United States Bureau of Labor Statistics, certain State departments of labor, and the Bureau of the Census.

While the revised indexes are constructed according to the same general principles as those which they supersede, the use of statistics from the biennial Census of Manufactures has been considerably more extensive and an improved method of computation has been used. The same base period (1923-1925=100) is adopted as that used for other indexes compiled by the board. The revised indexes are accordingly believed to be better indicators of

¹ Acknowledgment is due to Aryness Joy, of the Division of Research and Statistics, for special work in the revision of these indexes; also, for assistance in their development, to William A. Berridge and Woodlief

changes from month to month and of trends of factory employment and pay rolls over a period of years. Primarily, however, the revised indexes are superior to the old in making comparisons extending over periods embracing the last 3, 5, or 10 years. This quality arises largely from adjustment of the index numbers to the census data afforded by the biennial Census of Manufactures for 1923, 1925, and $1927.^{2}$

Periodic adjustment.—The necessity for periodic adjustment of the index numbers that are computed monthly, to accord with cen-

of which the measure does not become available until the next biennial Census of Manufactures. For factory employment the extent of the discrepancy in recent years, together with an illustration of its approximate elimination in the revised index, is indicated by Chart II, which shows the board's former index of employment (broken line), employment in all manufacturing industries as shown by the census (hollow circles), and the board's revised index (solid line), all relative to 1923. During the period 1923 to 1927, for example, the census reported for all manufacturing industries a decline in sus data, which become available only at bien-lemployment of over 5 per cent, or more than



nial intervals, arises partly from the fact that suitable monthly statistics are not currently available for a considerable number of manufacturing industries. It arises primarily, however, from the fact that the basic statistics currently available are imperfect, in that they do not cover, for example, the opening of new establishments or allow for the complete closing down of operations in old establishments. From any one month to the next they are not unsatisfactory, but over longer periods an index based upon them develops inaccuracy, frequently of progressive or cumulative character,

425,000 workers, whereas the decline in the board's former index was approximately 12 per cent, which would indicate a decrease of more than 1,000,000 workers. The revised index, as shown by the chart, practically eliminates this discrepancy and similar discrepancies in earlier years.

Data currently available.—The board's revised indexes are based in largest part on statistics of factory employment and pay rolls that become available monthly, which now embrace 50 industries arranged in 14 industrial groups (see Tables 3, 4, and 5).3 These industries in combination employed in 1927, the latest year

² Adjustments of the board's former indexes to census data for 1919 and 1921 were made in 1923 and 1925; see Federal. Reserve Bulletin for December, 1923 (pp. 1272-1279) and May, 1925 (pp. 324-327). The results of these earlier adjustments, for the period to which they relate, are embodied in the revised indexes, but the latest revision has taken account for that period, as well as for more recent years, of manufacturing industries not formerly included in the indexes.

³ For the years 1919-1922, the indexes comprise 34 industry series, representing in combination 45 of the 50 industries now currently and separately reported. The industries which are included currently from 1923, but not prior to that time are: Petroleum refining, ship-building, and the manufacture of fertilizers, rubber boots and shoes, and attemptible time. and automobile tires.

for which comprehensive figures are available, 6,600,000 wage earners or about 78 per cent of the 8,350,000 wage earners employed in all manufacturing industries, and accounted for about 80 per cent of total factory pay rolls in the United States.

Estimated data for certain industries.—Other manufacturing industries, for which the necessary statistics are not available currently on a monthly basis, but for which the Bureau of the Census publishes comprehensive reports at longer intervals, are included in the revised indexes on the basis of these comprehensive census reports. Such industries employed in 1927 about 1,750,000 wage earners, or 21 per cent of wage earners in all manufacturing industries, and, in 1919, about 2,350,000 wage earners, or 25 per cent of the total. The inclusion of these industries on the basis of census data is a major point of difference between the revised indexes and those which they supersede.

The importance of their inclusion is indicated by the fact that without them an index of employment understates the number of wage earners employed in all manufacturing industries in 1927 by 2 per cent, the equivalent of more than 175,000 workers, largely in consequence of the absence of representation for certain manufacturing industries that have shown rapid growth during recent years, such as those producing rayon, radios, airplanes, motion pictures, and special mechanical devices such as washing machines and electric refrigerators. Similarly, in 1919, when monthly reports were not available for the shipbuilding industry, the exclusion of these industries understates employment by about 7 per cent, or more than 525,000 workers.

Seasonal fluctuations of an index based solely on currently reported data, furthermore, were found to vary substantially from fluctuations in employment in all manufacturing industries, as indicated by census reports. Volume of employment in the early months of the year was overstated and from midsummer to November was understated, largely because of absence of representation for the fruit and vegetable canning industry. Employment in this industry is at its low point in January or February, when between 15,000 and 35,000 workers are employed; after early summer, however, the number of employees begins to increase, rising to between 150,000 and 200,000 at the height of the packing season in September.

The inclusion of a number of these additional manufacturing industries was accomplished by using for census years—i. e., for odd alternate years—the monthly statistics given in the

census, and by using estimated figures for intervening even years. The necessary estimates were based on all available data, including particularly employment figures of limited scope collected by certain States, and monthly statistics of production for the industries concerned. Such estimates were made separately for the following industries: Petroleum refining (1920, 1922); shipbuilding (1920, 1922); automobile tires and tubes (1922); fruit canning and preserving (1920, 1922, 1924, 1926, 1928, and January-April, 1929).3

For certain other industries, however including for example those producing rayon, radio, washing machines, and electric refrigerators, and a larger group of miscellaneous industries, and employing in the aggregate about 1,800,000 workers in 1919 and about 1,600,000 workers in 1923—month-by-month estimates for individual industries for intercensal years were impracticable. For this group of industries taken as a whole the change from one census year to another was determined from the census data and month-to-month fluctuations were arbitrarily assumed to be the same as those for the larger group of industries for which the necessary information has been currently available. For the period since 1927, however, no estimate of the rate of growth has been attempted, pending the appearance of the statistics from the 1929 Census of Manufactures. The industries concerned—here designated as "industries not elsewhere specified"—are represented in the revised index by a basic figure at the census level of 1927 but varying from month to month with variations in the group of 50 industries taken as a whole. Thus the current fluctuations of the index are determined altogether by the statistics reported by manufacturing establishments every month, while the general level of the index in 1928 and 1929 is determined in part by an allowance based on the census of 1927 for industries Whatever inthat do not report currently. accuracy in level for these years may be disclosed by the 1929 Census of Manufactures when the figures become available can then be eliminated by the same methods that have already been applied to the data for earlier years.

For the period since 1923 the majority of the series that become available monthly and are used in the revised indexes are compiled

³ The industries for which separate estimates were made by months for the years specified are those for which current figures are now available, and for these industries estimates were made only for (1) years for which currently reported figures were not available, and (2) years for which available statistics of one kind or another afford a satisfactory basis of estimate.

for individual industries by the United States Bureau of Labor Statistics.⁴ Of the 50 industries for which figures are used currently, series for all except four are from this source. Similar series compiled by the New York State Department of Labor have been used for the following industries: Women's clothing, millinery, and stamped and enameled ware, in the production of which New York led all other States in 1925. For the musical instruments industry, the New Jersey State Department of Labor series, representing in large part the manufacture of phonographs, have been combined with those of the Bureau of Labor Statistics for the manufacture of pianos and organs.

The inclusiveness of the samples varies considerably from industry to industry, from 10 per cent to over 70 per cent, but they represent in the aggregate about 40 per cent of the total number employed in the group of 50 industries. For the 46 industries, for which the series used are those of the Bureau of Labor Statistics, the reporting firms employed on different dates the following proportions of the total number of wage earners reported for these same industries by the census: December, 1923, 35 per cent; December, 1925, 42 per cent; June, 1927, 45 per cent. The corresponding figure for June, 1929, is estimated at 55 per cent, the growth being due to a substantial increase between 1927 and 1929 in the number of firms reporting to the bureau. In general it is true that the average size of establishment reporting current statistics of employment is considerably larger than the average size as reported by the

Reports to agencies collecting the basic data from which the board's indexes are compiled relate almost without exception to the pay-roll period ending nearest the 15th of the month, whether this be a week, ten days, two weeks, or some other period. Although the indexes actually reflect employment and earnings in only a part of the month, it is customary to refer to them as monthly indexes. In some cases the discrepancies between the changes in employment and pay rolls in the month as a whole as compared with that part of the month included in the pay-roll period may be considerable, as, for example, in months when the

pay-roll period contains a holiday and shows an exaggerated decline in pay rolls.

The form in which the current information for a given industry becomes available is that of a series of index numbers, or, more accurately, percentages relative to a chosen base period.⁵ The original series compiled by the New York State Department of Labor are based on a fixed list of reporting firms, while the Bureau of Labor Statistics series are computed from percentages of change from one month to the next, derived from figures of number of employees and earnings reported for the two months by identical firms. Over a longer period of time, however, the number of firms reporting to the Bureau of Labor Statistics varies considerably. The statistics measure month-to-month changes in the number of workers employed by established firms, but not the original employment of additional workers in newly organized establishments or reductions in employment that arise from the permanent closing of plants. Consequently the series tend to show for expanding industries a slower rate of growth and for decadent industries a slower rate of decline than would be shown by more comprehensive reports. This accounts in part for the discrepancy (see Chart II) between the index numbers and the census data. eliminate this error, the series representing each industry was tested by comparison with the Census of Manufactures and adjusted with a view to bringing its fluctuations into line with those of the industry as a whole.

Methods of adjustment to census data .-Census figures on employment in each month of 1923 and 1925 and average monthly employment in 1927 were compiled for each of the 50 industries and stated in index numbers, or percentages relative to the annual average for These were then compared with similar series currently reported for comparable industries, converted into percentages of the annual average for 1923. In a majority of instances, the current series exaggerated the decline in employment, and the adjustment to the census involved raising the level of the current series, but there were a few cases in which the error was in the opposite direction.

The method of adjustment may be illustrated in detail by reference to employment in

⁴ For the years 1919 to 1922, the board's indexes were based to a large extent on statistics collected by State departments of labor and by Federal reserve banks, with the addition of some material from the United States Bureau of Labor Statistics. The method of their combination into series of relatives, and their adjustment to the Census of Manufactures, was described in the Federal Reserve Bulletins for December, 1923, and May, 1925. Inasmuch as each of these series had already been adjusted to the census, they were used in the present index with little alteration and joined to comparable series from different sources used in the years 1923 to date.

⁵ The Bureau of Labor Statistics series are chain relatives, until recently percentages of the monthly average of 1923, now percentages of the monthly average of 1926. The New York State Department of Labor has recently changed the base period of its indexes from June, 1914, to the monthly average of 1925–1927.

⁶ In obtaining census figures comparable with those of the 50 industries in the index, it was frequently necessary to combine a number of the more detailed census classifications.

the furniture industry. The broken line on Chart III shows (1) the Bureau of Labor Statistics series representing employment in the furniture industry in comparison with (2) the census series, which is represented by circles, and (3) the board's revised series, all relative to the average of 1923. In 1925, the Bureau of Labor Statistics series showed a decline from 1923 of 1.3 per cent, while the census showed an increase of 7.6 per cent. Thus during this period the current series had accumulated an appreciable error, understating employment by almost 9 per cent. In 1927 the Bureau of Labor Statistics series showed a further decline, while the census average continued to increase, the difference between the two averages approximating 15 per cent. To eliminate this discrepancy, the level of the Bureau of Labor Statistics relatives was raised beginning in

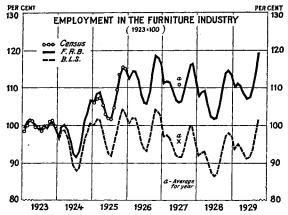


CHART III .- Illustrates method of adjustment to census. Broken line: Bureau of Labor Statistics series; average for year 1927 indicated by x. Solid line: Federal Reserve Board's revised series after adjustment to census

January, 1924, by the addition of a small increment, which was increased gradually until the average for the year 1925 equaled the average shown by the census. A similar procedure was used in the adjustment of data for the years 1926 and 1927 to the level of the 1927 census. For the years since 1927, for which no census reports are available, the Bureau of Labor Statistics relatives were adjusted, proportionately, to the level shown by the 1927 census. Thus in the case of the furniture industry, the ratio for December, 1927, between the relative arrived at by this process of adjustment (112.8) and the Bureau of Labor Statistics relative (96.2) was 117.26. This figure was used as a multiplying factor to increase all succeeding monthly relatives to the

appropriate level. No attempt has been made, pending the results of the 1929 Census of Manufactures, to estimate the extent of any error which may have accumulated since 1927.

This method of adjustment to the census was followed with minor variations in respect to most of the current series representing volume of factory employment from 1923 to date. For some industries, however, for which the current reports described the trend of employment from one census year to the next within a margin of 1 per cent, no adjustment was considered to be necessary.

In certain industries in which seasonal fluctuations in employment as reported currently did not compare favorably for census vears with those shown by the census, special adjustments were made. Accordingly, the adjustment to the level of the census in 1925 occasionally began with July, 1923, with offsetting adjustments in the opposite direction in the earlier months of the year. In a few industries in census years, census data were substituted throughout for labor department data. because of widely differing seasonal fluctuations, and in other instances and for similar reasons census figures were substituted in certain months.

In the pay-rolls index a similar procedure was followed, with certain exceptions necessitated by the fact that the census publishes pay-roll data only for the year as a whole and not by months, but the annual data made possible accurate adjustments of the series for individual industries to appropriate levels. As a rule, however, the adjustments made in the employment index were duplicated in the payroll index, in order that the comparability of the two indexes be not affected by differences in statistical method.

Method of computing composite indexes .-For purposes of combination into a composite index, each series representing an individual industry (adjusted to the census and relative to 1923) was assigned a weight factor, measuring its proportionate importance as an employer of wage earners in manufacturing. weight factors were derived from the Census of Manufactures for 1923, and consisted for the employment index of the actual number employed in the industry (annual average of monthly figures) and for the pay-rolls index of the total annual pay roll of the industry. These weight factors are shown in Table 5, together with the percentage each forms of the total. Each series of employment relatives was translated into terms of actual number

employed in a given month by multiplying the relatives by this weight factor; and, in a similar manner, each series representing pay rolls was translated into terms of thousands of dollars paid wage earners in the industry as a whole. Because of the fact that the series of relatives for each industry had previously been adjusted to the census on a 1923 base, the aggregates resulting from this procedure closely approximated for all census years the actual number of wage earners employed in the industry as a whole, and their total pay rolls, as shown by the census. By this device every industry was automatically given its proportionate importance in the total for every year.

These aggregates for individual industries were then combined into industrial groups, as shown in Table 5, and the group totals combined into a composite representing all manufacturing industries. These group aggregates, and the aggregate for all manufacturing industries, were converted into index numbers by dividing by the average of the thirty-six monthly aggregates in the three years 1923–1925.

Indexes not adjusted for seasonal variations.—The index numbers presented in this for seasonal variations.

article, like the board's former index numbers of factory employment and pay rolls, are not adjusted for seasonal variations. Such adjustment, which has been applied to almost all of the board's other index numbers, is under consideration, on the basis of study given separately to the available data for each of the 50 industries that enter into the groups for which indexes are given in Tables 3 and 4. While the course of employment in a certain number of these industries appears to exhibit, during the comparatively short period of about 10 years for which data are available, fluctuations from one part of the year to another that are obviously seasonal, there are other industries in which such fluctuations as appear are apparently not seasonal. Known statistical imperfections, furthermore, in the original figures furnished to the collecting agencies by the reporting establishments, especially in the case of pay rolls, further complicate the process of identifying seasonal variations. Subject to the results of further study, therefore, the indexes of factory employment and factory pay rolls will continue to be published without adjustment

Table 1.—Index of Factory Employment (Revised)
[Monthly average 1923-1925=100. Without seasonal adjustment]

	[171	onomy av				о осисония	dajubbilio				
Month	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
JanauryFebruary	105. 4 101. 9	114. 0 113. 1	81. 3 82. 7	82. 6 84. 4	100. 6 102. 4	99. 9 101. 1	96. 4 98. 2	100. 8 101. 9	98. 1 99. 7	94. 2 95. 7	97. 4 99. 7
March April	102. 3 102. 6	115. 2 113. 9	83. 1 82. 1	85. 6 85. 4	104. 9 105. 2	101. 4 99. 7	99. 5 99. 3	102. 6 101. 9	100. 4 99. 8	96. 6 96. 0	101. 3 101. 8
May June July	103. 1 104. 2 106. 6	111. 7 110. 9 108. 4	82, 2 81, 3 79, 9	87. 6 89. 5 87. 0	105. 3 105. 9 104. 8	96. 3 93. 5 90. 5	98. 4 98. 2 98. 1	100. 9 100. 7 99. 3	99. 1 99. 0 98. 0	95. 7 96. 2 95. 7	101. 6 101. 2 100. 7
August September	109. 2 111. 5 109. 1	108. 6 107. 1 103. 5	81. 4 83. 3 84. 0	90. 3 93. 6 96. 5	105. 5 105. 9 104. 8	91. 8 94. 3 95. 1	99. 8 102. 0 102. 4	101. 1 103. 5 103. 2	99. 2 100. 6 99. 3	98. 3 100. 3	102, 0 103, 4
October November December	110. 4 112. 9	97. 5 90. 3	84. 2 83. 3	98. 5 100. 0	103. 4 101. 3	94. 6 95. 9	101. 9 101. 6	101. 2 100. 0	96. 9 95. 5	100. 2 98. 8 98. 1	
Annual index	106. 6	107. 9	82. 4	90. 1	104. 2	96. 2	99.7	101. 4	98.8	97. 2	

Table 2.—Index of Factory Pay Rolls (Revised)
[Monthly average 1923-1925=100. Without seasonal adjustment]

Month	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
January February March April May June July August September October November December	97. 2 91. 0 91. 6 90. 9 91. 4 93. 0 95. 8 100. 9 105. 9 105. 4 113. 4	117. 3 115. 9 124. 2 121. 6 123. 3 125. 2 120. 3 121. 1 117. 2 108. 4	84. 0 82. 3 82. 4 79. 6 78. 0 76. 1 72. 2 74. 4 73. 9 73. 1 72. 0 73. 6	69. 7 72. 7 74. 8 73. 8 77. 2 80. 4 77. 6 82. 4 86. 5 89. 4 93. 1	94. 1 97. 8 102. 8 103. 9 107. 3 107. 5 103. 2 104. 2 104. 8 107. 2 104. 9	98. 4 103. 6 103. 8 101. 4 96. 8 91. 7 85. 1 88. 9 92. 3 95. 2 93. 5	95. 4 100. 9 103. 0 100. 4 100. 7 98. 7 97. 1 99. 5 99. 4 105. 2 105. 1	101. 2 105. 6 107. 4 105. 3 103. 8 103. 8 199. 3 103. 6 105. 0 108. 3 104. 6 103. 8	98. 6 104. 8 106. 3 105. 0 104. 3 102. 5 98. 6 102. 2 101. 9 102. 5 98. 5 99. 4	95. 7 101. 1 102. 5 100. 3 100. 8 100. 9 98. 3 102. 5 104. 2 107. 5 103. 6 104. 2	
Annual index	98. 1	118. 1	76.8	81, 1	103. 4	95. 7	100. 9	104. 3	102. 0	101.8	

TABLE 3.—FACTORY EMPLOYMENT: INDEXES BY GROUPS (REVISED) 1

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

			Mont	hly ave	rage, 19	23-1925 = 	=100. W	ithout	seasona	l adjust	ment					
	Iron	Ма•	_	Food	Paper	Lum- ber	Transpo equip		Leath-	Ce- ment,	Non-	Cher	nicals	Rub-	То-	Musi-
Year and month	and steel	chin- ery	Tex- tiles	prod- ucts	and print- ing	and prod- ucts	Group ²	Auto- mo- biles	er and prod- ucts	clay, and glass	fer- rous metals	Group ³	Petro- leum refin- ing	ber prod- ucts	bacco prod- ucts	cal in- stru- ments
ANNUAL 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 MONTHLY	99. 5 107. 0 65. 4 83. 9 104. 4 97. 2 98. 4 101. 3 96. 8 95. 4	117. 2 128. 9 77. 0 82. 2 107. 7 93. 6 98. 7 107. 9 100. 0 98. 7	97. 8 98. 3 93. 0 97. 3 105. 3 95. 2 99. 6 97. 9 100. 8 95. 1	109. 0 103. 8 94. 8 95. 5 102. 0 100. 0 98. 0 98. 5 99. 1 98. 6	96. 8 104. 4 89. 1 92. 7 99. 3 99. 8 101. 0 103. 6 103. 1 101. 7	93. 2 88. 1 74. 5 95. 5 100. 9 98. 1 101. 0 100. 5 92. 3 88. 1	96. 3 104. 2 71. 7 78. 3 106. 9 94. 9 98. 3 98. 3 88. 4 90. 6	86. 6 88. 7 53. 8 72. 0 100. 6 93. 5 105. 8 104. 8 91. 6 108. 8	107. 5 98. 5 87. 8 97. 6 106. 2 96. 3 97. 5 96. 8 97. 3 93. 5	84. 7 89. 1 73. 6 88. 1 100. 2 100. 2 101. 9 97. 5 92. 3	114. 6 121. 3 74. 5 90. 1 107. 1 95. 1 97. 9 99. 5 97. 4 96. 6	108. 3 97. 1 70. 8 81. 0 101. 5 95. 9 102. 6 108. 8 107. 9 105. 3	102. 9 96. 5 100. 6 110. 2 110. 2 102. 4		112. 9 111. 7 110. 5 107. 2 105. 8 98. 8 95. 4 90. 8 93. 6 93. 8	130. 4 138. 1 86. 9 98. 8 110. 2 104. 2 85. 6 106. 4 88. 9 79. 0
1919—January February March April May June July August September October November December	112. 1 106. 0 103. 4 100. 1 96. 5 99. 8 104. 2 104. 8 79. 3 90. 1 101. 8	121. 0 118. 2 114. 5 113. 2 110. 2 107. 9 108. 7 114. 2 117. 9 122. 4 126. 8 131. 2	90. 7 84. 7 87. 4 91. 1 94. 9 97. 9 102. 2 102. 3 103. 7 105. 0 105. 3 107. 8	113. 1 110. 2 109. 3 105. 4 103. 5 104. 4 106. 4 108. 0 110. 3 110. 8 112. 4 114. 0	96. 1 95. 4 95. 5 94. 3 92. 0 96. 3 97. 2 98. 0 98. 2 100. 2 103. 1	83. 3 83. 6 86. 2 86. 2 88. 4 88. 9 92. 0 96. 4 100. 1 103. 5 104. 3 105. 2	92. 9 91. 5 91. 0 91. 1 91. 9 93. 3 96. 3 97. 2 100. 7 102. 6 103. 5	74. 3 75. 1 76. 6 79. 7 81. 2 84. 9 88. 7 91. 0 95. 3 98. 0 98. 1 95. 9	104. 3 104. 5 103. 9 102. 4 104. 0 105. 0 105. 7 108. 9 110. 4 111. 4 113. 7 115. 6	68. 6 66. 1 70. 8 81. 8 91. 3 94. 2 87. 1 94. 5 90. 0 93. 1 90. 5 88. 9	108. 1 107. 9 107. 6 107. 5 110. 0 112. 0 117. 5 120. 8 119. 6 120. 3 121. 7 122. 5	105. 8 104. 0 100. 2 99. 2 100. 3 100. 0 101. 0			126. 1 124. 6 124. 8 122. 4 120. 6 111. 2 97. 6 87. 9 97. 3 103. 4 119. 7 119. 2	114. 3 120. 6 125. 0 128. 5 130. 2 133. 8 125. 6 126. 8 136. 9 136. 2 139. 5 144. 0
1920—January February March April May June July August September October November December	109. 0 107. 0 107. 6	134. 8 133. 0 135. 6 134. 2 132. 0 133. 0 133. 7 131. 0 128. 0 123. 2 117. 8 110. 4	109. 5 108. 5 110. 8 109. 9 107. 7 104. 1 96. 2 94. 0 94. 0 90. 7 81. 3 73. 1	109. 0 105. 1 105. 6 103. 1 103. 2 104. 3 104. 9 104. 3 102. 9 101. 2 97. 6	104. 4 102. 9 104. 6 104. 1 103. 8 103. 7 105. 4 105. 5 105. 8 105. 9 104. 8 101. 6	102. 4 102. 6 103. 2 97. 3 91. 1 85. 2 78. 4 86. 9 83. 5 81. 3 75. 3 69. 7	106. 4 105. 7 107. 3 106. 5 107. 0 107. 7 107. 4 105. 1 101. 4 96. 9 91. 7	100. 2 101. 7 102. 2 100. 5 97. 4 94. 7 95. 1 88. 9 83. 2 73. 4 65. 4 61. 6	117. 0 114. 7 115. 3 112. 4 109. 2 104. 2 96. 1 93. 8 84. 4 81. 7 77. 5 75. 5	85. 0 81. 8 85. 1 88. 7 94. 7 94. 8 93. 2 90. 1 89. 0 87. 8 90. 9 87. 5	124. 8 122. 9 131. 2 129. 3 124. 4 128. 8 127. 0 125. 8 125. 5 122. 8 107. 7 85. 7	101. 8 100. 1 99. 8 98. 8 96. 4 96. 1 97. 8 98. 3 95. 8 98. 3 94. 5 87. 9			115. 7 110. 1 112. 3 113. 0 109. 2 109. 8 107. 2 106. 9 112. 3 111. 8 115. 8 116. 4	141. 9 145. 7 149. 9 145. 1 143. 0 142. 1 143. 5 141. 5 140. 6 130. 0 121. 9 111. 6
1921—January February March April May June July August September October November December	72.7 65.8 65.6 61.1 53.8 57.5 59.8 63.9 67.7	103. 0 94. 8 89. 7 84. 0 78. 6 74. 3 68. 6 67. 0 66. 0 65. 0 65. 4 67. 3	71. 4 84. 1 89. 3 92. 7 93. 7 94. 3 94. 6 96. 0 100. 4 101. 5 99. 3 98. 9	90. 1 91. 8 93. 3 89. 7 90. 8 91. 4 93. 5 94. 5 98. 5 102. 1 103. 1 98. 3	96. 5 95. 2 93. 9 88. 7 83. 2 83. 6 84. 1 85. 5 87. 0 88. 8 91. 0 91. 5	69. 3 71. 9 73. 6 74. 4 75. 0 75. 2 73. 2 73. 5 74. 6 76. 0 78. 6 78. 1	72. 0 69. 0 67. 5 67. 8 70. 3 68. 4 70. 1 72. 8 74. 5 76. 5 77. 1 74. 4	31. 9 38. 8 47. 2 58. 5 61. 9 59. 1 59. 2 59. 6 59. 3 59. 0 57. 0 53. 6	74. 0 80. 4 83. 2 82. 5 85. 8 89. 0 90. 8 94. 2 94. 3 93. 0 91. 9 94. 0	72. 2 62. 6 67. 1 73. 1 78. 1 78. 0 76. 8 74. 9 76. 3 74. 9 75. 0 74. 7	76. 8 69. 9 70. 7 72. 1 73. 4 72. 6 68. 7 74. 7 75. 5 79. 9 80. 6 78. 9	68.8			1114.6	82. 3 81. 7 88. 3 82. 0 86. 1 84. 6 74. 8 78. 9 86. 4 93. 9 101. 1 102. 9
1922—January February March April May June July August September October November December	73.2 78.5 81.7 85.9 86.9 88.1 88.5 92.9 96.2	70. 0 71. 0 74. 5 76. 9 79. 8 80. 6 80. 8 82. 0 87. 1 90. 3 94. 1 99. 0	102.8	92. 3 93. 0 94. 1 89. 1 90. 0 91. 4 94. 4 97. 7 97. 3 100. 3 103. 7 102. 3	93. 4 92. 7 91. 4 88. 7 90. 8 90. 3 90. 6 92. 5 93. 8 94. 9 95. 7 97. 4	84. 7 89. 1 93. 1 92. 4 97. 2 100. 3 99. 2 99. 5 97. 7 98. 5 98. 5 95. 8	70. 3 71. 5 74. 2 75. 5 79. 7 83. 6 58. 3 66. 4 77. 6 90. 1 94. 9 97. 9	52. 8 56. 5 60. 6 65. 6 72. 8 77. 5 79. 2 78. 4 80. 2 78. 8 80. 0 81. 9	96. 0 96. 9 94. 6 90. 3 90. 0 91. 6 95. 3 99. 8 102. 3 102. 7 105. 0 107. 2	70. 0 69. 0 77. 0 84. 8 93. 4 94. 0 93. 6 94. 3 94. 9 95. 0 96. 1 95. 1		80.6			109.8 109.0 111.8 113.2	101. 3 100. 8 98. 5 96. 8 95. 4 93. 5 92. 1 95. 7 98. 7 101. 2 104. 5 107. 3
1923—January February March April May June July August September October November December	101.7 103.8 104.3 105.5 107.8 105.1 107.3 106.6 106.3 104.2 100.8	110. 8 111. 2 110. 6 109. 6 107. 2 105. 6 103. 4	110. 5 109. 7 108. 1 105. 9 101. 8 101. 6 103. 1 103. 0 102. 0 102. 3	107.3 103.7	101.4	95. 6 97. 6 98. 6 100. 2 101. 5 103. 4 103. 9 103. 6 103. 1 102. 4 101. 6 99. 4	108. 7 107. 9	87. 4 95. 4 99. 5 103. 8 105. 1 104. 6 101. 1 100. 2 101. 3 102. 9 103. 3 102. 7	104. 7 103. 9	91. 7 92. 7 96. 3 101. 5 105. 1 106. 2 104. 4 104. 2 103. 6 102. 9 101. 3 99. 4	108, 9 107, 3 103, 4 102, 4	99. 8 99. 9 100. 0 98. 7 98. 8	100. 7 105. 5 109. 3 108. 3 107. 8 106. 6 104. 0 101. 0 98. 6	110. 4 115. 1 116. 3 116. 4 111. 2 102. 1 90. 6 86. 0 85. 3 87. 9 91. 6	103. 2 100. 0 105. 1 106. 4 107. 7	106. 2 106. 9 109. 1 108. 6 108. 1 108. 7 109. 3 107. 1 111. 9 114. 0 116. 8 115. 3

For industries composing each group see Table 5.
 Includes, in addition to automobiles, car building and repairing and, beginning with 1923, shipbuilding.
 Includes chemicals and drugs, 1919-1922; beginning in 1923, petroleum refining, chemicals and drugs, and fertilizers.

TABLE 3.—FACTORY EMPLOYMENT: INDEXES BY GROUPS (REVISED)—Continued

					Paper	Lum-	Transpo equip	rtation ment	Leath-	Ce-	Non-	Chen	nicals	Rub-	То-	Musi-
Year and month	Iron and steel	Ma- chin- ery	Tex- tiles	Food prod- ucts	and print- ing	ber and prod- ucts	Group	Auto- mo- biles	er and prod- ucts	ment, clay, and glass	fer- rous metals	Group	Petro- leum refin- ing	ber prod- ucts	bacco prod- ucts	cal in- stru- ments
MONTHLY—continued																
1924—January. February. March. April. May. June. July. August. September. October. November. December.	- 106.3 - 108.0 - 107.4 - 100.2 - 94.7 - 89.0 87.8 - 90.1 - 92.8 - 92.8	100, 3 99, 6 100, 0 99, 2 95, 1 92, 2 88, 3 88, 0 88, 1 89, 2 90, 1 92, 8	102. 4 103. 6 102. 9 98. 3 94. 1 91. 1 84. 1 86. 9 91. 8 95. 1 94. 6	100. 4 101. 7 100. 5 97. 3 96. 8 98. 9 99. 5 99. 7 102. 1 102. 2 100. 4 100. 8	100. 9 100. 6 100. 7 100. 1 99. 6 98. 9 97. 2 97. 2 99. 6 100. 3 100. 9	96. 5 98. 9 99. 0 100. 0 99. 9 97. 4 96. 1 96. 4 97. 5 98. 7 98. 2 98. 2	102.8 102.5 102.9 101.3 96.4 91.6 89.5 89.3 89.7 91.0 89.9 91.4	107. 5 109. 8 111. 8 107. 1 96. 8 86. 4 82. 2 83. 3 83. 9 85. 0 83. 1 85. 5	102. 4 102. 9 103. 1 97. 6 93. 2 88. 2 88. 4 92. 9 96. 4 97. 6 97. 1 96. 2	94. 9 95. 5 100. 3 103. 9 104. 3 102. 1 98. 2 99. 1 97. 9 97. 9 97. 3 96. 5	102. 0 106. 4 106. 4 103. 7 98. 0 91. 8 87. 0 85. 3 87. 3 88. 7 91. 0 93. 4	99. 2 100. 8 103. 1 102. 1 96. 0 89. 7 89. 6 90. 2 93. 0 94. 4 95. 2 96. 9	95. 9 96. 7 96. 8 97. 7 98. 0 98. 1 98. 2 97. 2 95. 6 94. 5 94. 6	92. 4 93. 7 93. 3 92. 1 91. 1 88. 2 84. 0 84. 6 93. 7 93. 0 97. 2 98. 5	101. 9 102. 6 101. 1 97. 5 97. 0 96. 6 97. 7 97. 0 99. 5 92. 3 101. 5 100. 6	116. 6 115. 6 112. 9 107. 2 100. 0 96. 9 93. 0 95. 9 100. 3 102. 3 104. 0 105. 5
February February March April May June July August September October November December	101. 3 101. 9 99. 8 98. 4 96. 6 94. 5 95. 6 96. 3 97. 9 98. 8	93. 9 95. 8 96. 8 97. 7 97. 3 97. 4 97. 0 97. 7 99. 3 101. 8 104. 0 105. 9	98.8 101.4 102.8 101.6 99.0 97.6 94.8 96.2 97.9 101.2 101.7	98. 1 98. 4 96. 2 93. 2 93. 7 97. 1 97. 2 97. 6 100. 1 102. 7 101. 5 100. 4	100. 8 100. 8 101. 5 100. 6 99. 7 99. 5 99. 5 99. 3 100. 4 102. 2 103. 3 103. 9	97. 8 99. 6 99. 3 100. 7 100. 5 101. 2 100. 7 101. 3 103. 0 103. 5 102. 9 101. 7	93. 2 94. 2 97. 0 99. 8 100. 0 97. 7 97. 3 97. 9 99. 2 101. 7 101. 2 100. 4	89. 4 90. 6 97. 1 104. 9 110. 9 105. 8 105. 1 106. 9 111. 5 118. 6 117. 4 111. 7	99. 5 101. 3 101. 2 97. 2 95. 0 90. 8 93. 8 98. 7 100. 6 100. 3 97. 3 94. 2	91. 8 93. 2 97. 5 102. 2 103. 4 103. 7 102. 8 101. 8 102. 4 102. 6 101. 5 99. 8	95. 3 98. 1 98. 5 97. 3 98. 5 96. 6 96. 5 97. 1 97. 5 99. 6 100. 6	97.3 101.2 107.2 107.2 98.3 98.1 99.5 100.5 105.2 105.3 105.7	94. 1 95. 2 95. 2 96. 6 97. 2 100. 1 103. 0 104. I 105. 7 105. 2 105. 4 105. 9	99. 6 102. 9 103. 7 104. 9 108. 2 109. 1 109. 7 110. 1 109. 0 102. 6 102. 2 106. 4	95. 9 96. 7 97. 4 89. 7 95. 4 93. 9 94. 0 95. 2 98. 4 97. 7 98. 0	88. 2 85. 4 83. 6 80. 8 77. 7 77. 6 73. 3 74. 3 91. 0 95. 6 98. 1 102. 1
1926—January February March April May June July August September October November December	- 102.0 - 102.8 - 101.7 - 100.6 - 99.4 - 100.9 - 102.6 - 102.7 - 101.6	107. 0 108. 8 109. 5 108. 7 107. 9 108. 9 107. 7 107. 9 108. 1 108. 5 106. 1	101. 6 102. 0 102. 4 100. 4 97. 9 95. 1 89. 0 90. 7 96. 3 99. 3 99. 2 100. 9	97. 9 97. 2 96. 4 93. 8 95. 3 97. 7 98. 1 98. 7 101. 6 103. 7 101. 6 99. 4	103. 5 102. 7 103. 3 102. 7 102. 7 102. 6 102. 2 102. 4 104. 0 105. 2 106. 3 105. 9	99. 0 99. 4 99. 6 101. 4 101. 5 101. 6 101. 0 102. 0 101. 6 101. 4 100. 0 97. 8	100. 6 102. 3 104. 2 102. 9 100. 8 99. 3 97. 5 97. 8 97. 8 97. 8 95. 4 91. 8 89. 5	111. 8 114. 0 116. 4 112. 5 107. 9 105. 8 102. 8 105. 0 104. 4 100. 0 91. 4 85. 7	96. 4 98. 4 97. 2 92. 7 91. 4 91. 4 95. 0 99. 6 101. 3 101. 1 99. 7 97. 5	94. 8 95. 4 97. 3 100. 8 104. 6 106. 5 104. 8 106. 0 106. 4 104. 8 103. 1 98. 5	99. 8 102. 7 104. 4 103. 2 100. 8 98. 4 96. 9 97. 4 98. 5 97. 5 98. 0 96. 6	107. 5 109. 2 112. 2 111. 6 106. 1 105. 7 105. 0 106. 3 110. 9 111. 3 110. 7	104. 7 105. 7 105. 5 107. 5 107. 9 110. 7 112. 1 112. 4 113. 9 114. 4 113. 9 113. 7	108. 1 108. 6 108. 0 107. 5 104. 2 102. 6 97. 3 104. 1 107. 8 106. 5 100. 8 100. 1	88. 0 92. 6 92. 2 88. 6 88. 5 91. 7 89. 0 86. 8 91. 1 93. 8 93. 8	99. 6 99. 6 98. 3 96. 7 94. 3 93. 0 86. 7 87. 6 90. 1 95. 4 95. 6
1927—January February March April May June July August September October November December	98. 9 100. 1 99. 9 99. 4 98. 2 95. 7 95. 7 96. 1 95. 2 93. 6	104. 2 105. 3 104. 8 103. 3 101. 4 101. 1 99. 0 98. 7 97. 5 96. 7 94. 4 93. 6	101. 1 103. 0 103. 8 102. 1 100. 1 98. 8 96. 4 98. 4 101. 4 102. 1 101. 5 100. 7	97. 4 97. 2 96. 4 96. 2 100. 7 99. 8 99. 1 102. 5 103. 1 101. 3 100. 2	104. 0 104. 1 104. 0 103. 2 102. 2 101. 9 101. 2 101. 8 102. 8 103. 4 104. 3 104. 5	93. 1 92. 2 91. 9 91. 7 92. 6 92. 7 92. 5 93. 4 94. 1 93. 5 91. 9 88. 5	88. 1 92. 4 93. 5 93. 7 93. 4 91. 0 87. 6 88. 0 86. 1 85. 1 80. 5 81. 2	85. 5 96. 5 100. 6 101. 1 101. 1 95. 1 88. 5 92. 1 88. 8 87. 5 79. 2 82. 7	99. 5 100. 2 100. 0 95. 4 93. 8 93. 7 97. 2 100. 6 101. 1 99. 2 94. 0 92. 3	91. 7 92. 8 97. 1 100. 7 102. 2 102. 6 100. 6 98. 8 98. 6 96. 8 96. 1 91. 7	96. 5 97. 4 100. 5 100. 4 101. 7 99. 0 98. 0 97. 7 96. 0 95. 1 93. 9 92. 8	110. 2 111. 5 115. 1 115. 0 106. 7 104. 5 103. 6 104. 0 106. 9 106. 3 105. 9	115. 0 116. 1 117. 1 114. 7 112. 3 111. 3 111. 3 109. 4 107. 3 104. 3 102. 0 101. 2	100. 8 102. 2 102. 8 106. 9 110. 1 108. 4 105. 0 104. 3 104. 3 101. 9 99. 2 102. 2	85. 2 91. 5 91. 7 90. 2 91. 5 94. 1 94. 5 88. 6 98. 6 101. 0 100. 5 96. 3	91. 6 85. 3 82. 9 79. 9 76. 1 74. 0 69. 9 73. 3 76. 3 76. 3 77. 3
1928—January February March April May June July August September October November December	94. 0 95. 4 95. 3 95. 7 95. 5 93. 6 95. 9 96. 4 96. 9 97. 7	92. 8 94. 1 95. 5 95. 9 97. 4 98. 2 97. 9 99. 5 101. 4 102. 8 103. 8 105. 2	99. 7 100. 7 100. 3 97. 0 93. 4 91. 8 87. 8 89. 4 92. 6 95. 7 96. 2 97. 0	96. 8 97. 8 97. 4 95. 6 96. 1 97. 6 97. 9 97. 4 100. 5 102. 6 101. 9 102. 0	103. 0 102. 4 101. 4 100. 3 100. 6 100. 5 100. 8 101. 1 102. 4 103. 7 103. 6	85. 3 85. 4 86. 7 87. 5 87. 4 88. 3 87. 5 89. 5 90. 4 90. 6 90. 5 88. 2	83. 0 86. 1 88. 2 89. 7 92. 4 91. 6 94. 2 95. 4 90. 2 89. 9	111. 2 118. 1 121. 5 119. 8	96. 2 97. 9 97. 3 92. 4 89. 8 89. 7 94. 0 95. 9 96. 1 94. 6 89. 3 88. 6	85. 9 86. 5 89. 4 91. 8 95. 3 96. 2 94. 6 96. 6 96. 0 94. 1 91. 8 89. 5	89. 8 93. 6 94. 6 95. 9 96. 0 97. 6 100. 0 102. 2 102. 4	103. 3 106. 5 110. 4 109. 9 101. 5 101. 0 100. 4 101. 3 106. 8 107. 4 107. 3 107. 8	101. I 100. 8 101. 0 99. 4 99. 2 101. 5 102. 6 103. 9 105. 8 104. 3 104. 0 104. 7		88. 5 92. 4 93. 5 91. 1 92. 2 93. 0 88. 0 94. 7 96. 7 99. 1 98. 9 95. 7	71. 2 71. 7 68. 5 69. 2 68. 0 67. 0 64. 5 69. 5 70. 9 72. 5 74. 9
1929—January February March April May June July August September	98. 3 99. 3 99. 7 100. 7 100. 8 99. 8	106. 7 110. 4 113. 8 116. 7 119. 1 120. 8 121. 5 119. 4 119. 5	95. 9 98. 0 101. 0 99. 3 97. 3 96. 3 91. 5 94. 2 98. 4	98. 6 98. 8 97. 6 96. 2 97. 3 99. 2 99. 8 99. 7 102. 4	102. 5 103. 4 103. 1 102. 5 102. 8 103. 2 103. 6 104. 1 106. 0	85. 5 85. 8 86. 6 88. 2 89. 2 90. 0 90. 5 92. 2 91. 8	94. 0 99. 0 100. 5 101. 7 101. 5 97. 6 96. 4 95. 5 94. 8	120. 6 117. 8 115. 0	91. 9 94. 1 92. 7 90. 6 90. 3 89. 4 94. 6 98. 1 99. 5	84. 3 84. 5 86. 8 90. 5 93. 1 93. 8 91. 2 93. 8 93. 6	102. 4 106. 1 107. 9 107. 7 105. 3 102. 9 100. 5 99. 8 98. 6	107. 6 110. 9 115. 5 119. 0 110. 3 107. 9 108. 9 111. 2 114. 5	104. 0 106. 7 109. 2 111. 9 114. 4 116. 4 120. 0 121. 9 124. 0	112. 2 112. 3 113. 3 114. 3 115. 3 115. 0 114. 2 111. 5 108. 3	84. 1 92. 0 92. 0 91. 3 90. 3 91. 4 90. 5 93. 0 93. 7	59. 0 57. 1 55. 6 58. 5 65. 1 64. 1 75. 6 76. 8 84. 7

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

		3.5			Paper	Ļum-	Transpo equip	ortation ment	Leath-	Ce-	Non-	Chen	nicals	Rub-	To-	Musi-
Year and month	Iron and steel	Ma- chin- ery	Tex- tiles	Food prod- ucts	and print- ing	ber and prod- ucts	Group ²	Auto- mo- biles	er and prod- ucts	ment, clay, and glass	fer-	Group 3	Petro- leum refin- ing	ber prod- uets	baceo prod- ucts	cal in- stru- ments
ANNUAL 1919 1920 1921 1922 1923 1923 1924 1925 1926 1927 1928	F F O	104. 1 135. 6 69. 6 72. 8 107. 0 92. 6 100. 4 111. 9 103. 5 104. 7	90. 0 107. 8 89. 2 91. 0 105. 8 94. 4 99. 8 98. 4 104. 1 96. 4	98. 0 109. 2 93. 3 90. 2 100. 1 100. 5 99. 4 101. 2 102. 4 102. 5	74. 2 100. 3 83. 3 86. 1 96. 1 99. 7 104. 2 110. 4 110. 1 109. 8	89. 2 109. 2 68. 0 82. 1 100. 0 98. 4 101. 6 102. 0 95. 1 90. 5	88. 8 111. 5 72. 7 76. 4 107. 1 93. 2 99. 7 99. 1 91. 3 97. 2	74. 9 90. 4 48. 7 66. 2 100. 8 90. 2 109. 1 105. 2 93. 5 117. 6	99. 0 105. 9 87. 0 96. 0 106. 8 95. 5 97. 8 98. 1 98. 6 92. 4	72. 6 93. 6 67. 4 73. 2 98. 9 100. 7 100. 3 101. 5 96. 2 90. 4	99. 3 130. 4 66. 7 82. 3 105. 3 94. 8 99. 9 103. 0 100. 3 107. 1	100. 1 113. 7 66. 9 73. 7 99. 8 96. 3 103. 9 111. 0 109. 7 106. 0	102. 1 95. 2 102. 7 111. 4 112. 2 105. 7	101. 5 92. 7 105. 8 106. 2 108. 5 114. 8	107. 2 124. 6 104. 6 99. 2 104. 2 99. 4 96. 3 92. 1 91. 1 88. 4	111. 7 137. 0 77. 4 86. 4 108. 0 105. 2 86. 8 99. 6 85. 2 77. 6
MONTHLY 1919—January February March April May June July August September October November December	108.0 102.3 94.6 87.5 88.4 91.0 106.7 106.3 78.8 90.7	103. 7 99. 9 98. 6 95. 8 92. 7 88. 7 90. 2 100. 4 110. 0 113. 7 123. 7 131. 5	73. 5 64. 8 69. 9 74. 9 80. 3 89. 1 97. 1 101. 7 105. 0 102. 3 103. 7 117. 9	96. 5 95. 8 96. 5 92. 4 92. 9 95. 2 95. 1 97. 0 100. 5 99. 9 104. 8 109. 1	70.0 69.3 69.8 69.3 68.2 72.9 74.5 77.3 81.6 71.0 91.9	74. 2 73. 3 74. 4 77. 8 83. 4 87. 7 92. 1 94. 8 98. 9 99. 1 105. 4 109. 4	95. 9 85. 1 85. 8 85. 0 86. 1 82. 2 83. 8 81. 9 90. 1 93. 9 97. 7 97. 6	59. 8 64. 1 65. 3 67. 7 71. 3 69. 2 73. 0 74. 9 83. 7 92. 5 90. 5 86. 6	93. 4 90. 2 89. 0 86. 1 90. 0 93. 6 97. 5 104. 1 105. 8 108. 1 110. 7 119. 8	59. 1 56. 2 61. 3 66. 6 69. 6 79. 5 73. 0 81. 2 81. 6 83. 5 80. 6	107. 5 99. 8 91. 6 89. 2 89. 7 77. 6 81. 9 88. 4 109. 7 115. 2 118. 1 122. 5	112. 1 105. 5 97. 9 93. 6 90. 7 91. 4 92. 3 90. 9 98. 9 104. 6 110. 7 112. 8			110.0 105.0 109.4 102.5 107.4 97.1 89.7 84.6 101.9 106.1 134.5 138.3	114.5 118.4 123.5 127.4 118.9 128.2 134.1 133.4 63.1 68.3 86.6
1920—January February March April May June July August September October November December	122. 9 132. 0 125. 7 122. 4 128. 8 121. 6 124. 0 129. 7 132. 2 123. 6	134. 9 128. 5 141. 3 139. 1 139. 7 144. 0 145. 6 143. 4 139. 1 130. 2 124. 1 117. 6	122. 9 121. 4 127. 8 124. 4 121. 3 119. 2 107. 1 105. 4 102. 7 93. 0 79. 0 69. 6	107. 2 103. 0 108. 6 100. 8 111. 7 115. 2 114. 1 112. 8 111. 9 111. 0 109. 6 104. 2	94.3 93.0 98.8 96.7 100.3 100.9 101.0 103.6 104.3 106.5 104.8 99.3	115. 9 114. 4 121. 3 114. 6 113. 6 113. 2 108. 3 113. 6 109. 1 105. 1 94. 4 87. 3	100. 5 99. 4 107. 3 106. 5 116. 2 116. 9 111. 2 124. 6 121. 1 120. 6 108. 6 104. 7	96. 6 94. 7 101. 1 97. 3 102. 8 97. 7 97. 2 96. 9 92. 6 88. 1 62. 5 56. 9	122. 9 116. 4 122. 4 120. 7 118. 3 118. 7 110. 0 106. 7 92. 0 84. 8 79. 9 78. 1	79. 4 74. 6 80. 7 88. 7 98. 6 101. 7 99. 5 99. 2 99. 0 100. 9 103. 3 97. 7	124. 5 125. 1 138. 9 137. 9 133. 5 140. 6 140. 8 138. 1 143. 7 134. 2 118. 2 88. 7	119.0 113.3			140.1	124. 8 133. 5 145. 9 148. 2 147. 7 147. 8 143. 5 142. 3 142. 6 135. 8 122. 7 108. 9
1921—January February March April May June July August September October November December	79. 1 72. 5 59. 4 57. 1 47. 9 37. 4 42. 6 42. 1 47. 3 50. 1	105. 7 88. 2 84. 5 79. 3 73. 3 66. 1 60. 0 57. 6 56. 1 53. 5 54. 1 56. 6	66. 1 82. 2 90. 4 92. I 90. 4 91. 8 91. 4 94. 4 97. 4 91. 8 88. 4 94. 0	96. 3 96. 6 96. 9 89. 8 92. 5 90. 8 91. 9 91. 0 93. 6 97. 1 93. 6 89. 5	93. 3 89. 2 88. 4 83. 1 76. 4 78. 3 78. 7 79. 7 80. 8 82. 2 83. 2 85. 9	68. 6 71. 1 72. 6 70. 9 69. 0 71. 9 63. 9 65. 8 63. 5 63. 6 65. 9	78. 9 71. 9 72. 1 74. 4 74. 6 72. 8 71. 0 73. 3 71. 4 72. 7 70. 8 68. 8	25. 2 28. 4 38. 7 57. 7 61. 9 60. 4 58. 0 55. 3 50. 0 46. 0 42. 6	72. 0 85. 9 85. 1 81. 7 83. 2 89. 2 89. 5 94. 8 92. 9 88. 8 85. 7 95. 5	74. 6 60. 6 64. 0 69. 3 73. 0 72. 0 65. 0 68. 1 66. 0 65. 3 65. 2 66. 4	74. 7 67. 2 64. 8 66. 0 67. 0 66. 8 60. 0 65. 9 64. 0 67. 5 69. 1 67. 7	86, 6 73, 9 73, 2 68, 0 66, 2 64, 5 63, 4 58, 7 63, 5 64, 8 62, 3			108. 4 101. 0 101. 0 102. 6 110. 6 112. 6 105. 0 104. 6 108. 6 104. 0 95. 9 100. 5	73. 8 73. 5 81. 3 75. 6 74. 8 74. 3 64. 4 67. 7 86. 4 86. 9 95. 0
1922—January. February. March April May. June July. August September October November December	53. 2 56. 5 60. 1 64. 9 69. 6 65. 9 72. 6 77. 9 85. 2 91. 1	57. 3 59. 4 62. 9 64. 6 68. 2 71. 0 71. 9 74. 8 78. 3 83. 0 87. 5 94. 8	90. 4 95. 0 91. 0 83. 8 83. 1 84. 4 87. 3 90. 1 94. 1 93. 9 97. 9 100. 5	85. 4 84. 4 86. 1 80. 4 85. 7 88. 9 90. 4 90. 1 94. 3 96. 2 101. 2 99. 0	83. 5 80. 9 84. 6 82. 5 84. 4 84. 5 83. 7 85. 6 88. 5 90. 0 91. 2 93. 8	68. 9 73. 9 78. 5 77. 6 81. 1 84. 4 82. 3 86. 4 86. 3 87. 5 89. 4 89. 3	57. 2 64. 2 69. 2 71. 0 76. 9 82. 3 62. 5 72. 9 81. 0 88. 9 93. 9 96. 3	31. 0 46. 6 50. 0 60. 0 68. 1 73. 3 73. 2 78. 7 76. 1 77. 1 79. 0 80. 9	97. 2 98. 1 92. 7 86. 8 86. 2 89. 5 92. 5 98. 5 100. 2 99. 3 103. 2 108. 4	58. 3 54. 0 58. 5 64. 1 74. 0 77. 4 79. 1 79. 9 81. 6 81. 7 84. 2 85. 1	66. 2 65. 7 71. 7 72. 5 77. 2 81. 0 81. 6 86. 5 91. 2 92. 8 98. 9 101. 8	62. 3 62. 3 64. 8 66. 1 67. 6 68. 3 73. 3 77. 6 84. 2 87. 8 91. 2			80. 7 93. 6 98. 9 104. 4 104. 1 107. 9	87. 2 84. 8 88. 4 85. 0 83. 0 79. 0 75. 8 80. 5 80. 5 92. 8 98. 1 99. 8
1923—January February March April May June July August September October November December	98. 8 101. 9 100. 0 109. 7 111. 5 98. 8 106. 6 105. 4 110. 2 107. 0	91. 8 97. 1 103. 5 108. 5 112. 3 113. 8 111. 3 110. 2 109. 6 110. 1 107. 7 107. 9	103. 2 106. 0 111. 2 108. 9 111. 0 108. 0 102. 2 102. 6 104. 2 106. 2 101. 7 104. 1	93. 5 94. 0 96. 5 95. 3 97. 5 101. 0 101. 8 100. 3 105. 0 106. 3 106. 3 103. 9	92. 1 93. 0 96. 0 96. 7 97. 5 97. 2 96. 2 92. 8 95. 6 98. 0 98. 1 100. 3	87. 4 89. 9 93. 9 98. 1 102. 1 104. 8 103. 7 103. 0 103. 5 105. 2 105. 2 103. 0	92. 7 99. 0 106. 6 108. 8 112. 0 111. 4 107. 4 109. 1 109. 7 114. 2 112. 9 104. 7	77. 0 92. 6 101. 0 106. 1 108. 0 102. 2 99. 4 101. 9 98. 9 110. 1 109. 9 102. 6	110. 9 113. 1 115. 7 112. 2 110. 4 105. 8 99. 4 104. 0 103. 8 103. 1 99. 9 102. 7	83. 1 84. 4 90. 5 98. 5 104. 2 105. 2 99. 9 104. 0 104. 2 106. 6 105. 0 101. 8	96. 5 101. 2 108. 5 114. 7 116. 1 113. 0 109. 2 102. 9 101. 2 98. 8 99. 3 102. 1	93. 1 95. 6 101. 2 102. 2 103. 3 101. 6 102. 0 98. 7 100. 4 98. 9 98. 7	108. 3 110. 3 103. 7 104. 4 102. 5 94. 5	106. 0 112. 9 118. 0 121. 3 119. 4 114. 2 94. 5 85. 1 84. 7 84. 1 86. 7 90. 8	108. 8 104. 3 107. 9 103. 1 101. 9 104. 7 100. 7 90. 9 101. 0 108. 4 108. 3 110. 9	94. 0 98. 6 103. 2 105. 6 104. 6 106. 2 103. 0 100. 5 113. 7 118. 9 124. 7 123. 5

For industries composing each group see Table 5.
 Includes, in addition to automobiles, car building and repairing and, beginning with 1923, shipbuilding.
 Includes chemicals and drugs, 1919-1922; beginning in 1923, petroleum refining, chemicals and drugs, and fertilizers.

TABLE 4.—FACTORY PAY ROLLS: INDEXES BY GROUPS (REVISED)—Continued

					Paper	Lum-	Transpo equip		Leath-	Ce-	Non-	Chen	nicals	Rub-	To-	Musi-
Year and month	Iron and steel	Ma- chin- ery	Tex- tiles	Food prod- ucts	and print- ing	ber and prod- ucts	Group	Auto- mo- biles	er and prod- ucts	ment, clay, and glass	fer- rous metals	Group	Petro- leum refin- ing	ber prod- ucts	bacco prod- ucts	cal in- stru- ments
MONTHLY—continued							-									
February February March April May June July August September October November December	102. 2 111. 9 114. 1 111. 3 102. 1 88. 5 77. 2 83. 5 86. 5 92. 5 91. 6 98. 9	99. 4 100. 3 101. 2 100. 6 96. 3 91. 8 83. 3 83. 6 84. 2 87. 6 88. 5 94. 4	104. 6 107. 7 105. 5 97. 6 90. 1 85. 5 77. 2 84. 3 92. 2 96. 6 92. 3 99. 4	99. 8 101. 4 100. 3 97. 1 98. 3 100. 8 101. 4 99. 4 103. 5 101. 0 100. 6 102. 7	99. 9 100. 3 101. 0 100. 8 99. 8 98. 5 94. 6 95. 0 99. 1 101. 1 101. 4 104. 3	94. 1 100. 8 101. 5 102. 6 101. 4 99. 4 92. 5 94. 5 97. 0 99. 6 98. 2 99. 6	93. 8 105. 2 104. 1 104. 0 97. 5 89. 4 82. 1 85. 8 86. 3 91. 2 88. 5 90. 9	91. 8 114. 9 113. 0 109. 2 96. 7 79. 4 72. 3 77. 8 80. 8 84. 4 80. 2 82. 5	103. 1 104. 3 103. 3 94. 4 89. 4 85. 1 84. 1 94. 6 99. 7 100. 1 91. 9 95. 7	95. 8 99. 9 103. 8 107. 6 107. 9 105. 7 97. 2 98. 5 97. 4 100. 1 96. 9 98. 2	101. 5 108. 1 110. 1 104. 3 97. 7 89. 1 81. 3 83. 0 86. 9 88. 2 91. 1 96. 8	96. 3 98. 8 102. 1 101. 2 97. 6 92. 7 90. 0 92. 0 93. 3 95. 3 97. 8 98. 2	89. 8 93. 0 95. 9 95. 8 97. 7 99. 3 95. 7 96. 3 94. 0 92. 4 97. 9	91. 6 94. 3 93. 8 93. 4 92. 9 86. 4 82. 4 84. 2 95. 9 97. 3 99. 2 100. 9	103. 7 102. 7 102. 1 93. 6 96. 0 99. 3 96. 6 96. 4 100. 5 91. 5 104. 3 106. 6	114. 8 117. 9 113. 2 104. 2 97. 0 93. 7 89. 9 94. 8 103. 0 106. 3 113. 7 113. 6
1925—January February March April May June July August September October November December	101. 2 101. 1 95. 8 89. 7 94. 8 92. 8	94. 0 98. 2 99. 7 98. 4 100. 2 99. 1 97. 2 97. 7 97. 0 104. 3 107. 6 111. 3	100. 9 105. 3 108. 1 101. 5 97. 5 94. 3 93. 1 96. 2 94. 1 102. 5 101. 7 102. 4	99. 0 98. 2 97. 2 93. 1 96. 3 99. 9 99. 3 99. 1 99. 9 104. 1 103. 3 103. 0	103. 0 102. 8 104. 3 102. 8 102. 5 101. 7 100. 7 101. 0 102. 3 107. 5 109. 9 112. 2	93. 2 99. 6 101. 1 100. 3 101. 2 102. 7 99. 4 100. 7 103. 2 106. 8 105. 7 104. 9	83. 5 98. 1 101. 8 103. 4 104. 2 98. 8 96. 4 95. 8 96. 8 106. 3 107. 6 103. 2	71. 5 95. 2 103. 1 112. 8 118. 7 108. 9 107. 9 104. 7 111. 5 128. 1 128. 7 117. 1	99. 6 104. 2 104. 6 96. 0 95. 0 89. 9 93. 7 103. 9 99. 8 101. 1 93. 4 92. 1	88. 8 94. 5 98. 6 102. 0 104. 4 103. 4 99. 5 102. 7 100. 1 104. 7 103. 7 101. 0	98. 9 101. 6 101. 6 97. 1 101. 6 100. 3 97. 3 99. 6 94. 6 98. 2 101. 7 105. 9	97. 7 102. 5 108. 2 104. 8 102. 2 100. 5 100. 6 101. 8 102. 8 107. 5 109. 1	92. 9 97. 4 100. 8 97. 8 102. 5 103. 2 102. 7 108. 0 104. 4 108. 2 108. 6 105. 8	99. 4 104. 9 106. 2 107. 2 112. 0 109. 1 110. 2 110. 4 105. 8 99. 8 99. 0 106. 5	99. 6 92. 9 94. 0 79. 1 96. 5 95. 9 94. 4 95. 5 95. 5 102. 9 104. 5 105. 1	85. 5 84. 8 84. 0 76. 8 77. 7 77. 7 69. 3 71. 5 89. 6 101. 6 108. 7 114. 0
1926—January. February. March April. May June. July. August September October November December	105. 4 107. 4 106. 5 104. 2 103. 6 97. 9 101. 0 104. 4 108. 9 105. 6	109. 5 113. 8 115. 6 113. 8 112. 8 114. 6 108. 6 111. 0 108. 7 113. 3 109. 6 112. 0	102. 9 105. 2 106. 3 100. 5 95. 8 92. 4 85. 4 90. 3 96. 5 102. 6 99. 6 103. 7	100. 2 99. 4 98. 9 95. 6 99. 4 102. 0 101. 6 101. 2 104. 2 106. 0 103. 4 102. 8	109. 7 109. 1 111. 0 110. 0 109. 8 107. 3 107. 8 109. 4 112. 5 113. 2 114. 6	95. 8 100. 8 101. 4 101. 9 103. 3 98. 6 103. 3 104. 2 106. 6 104. 8 101. 3	92. 0 104. 3 107. 0 106. 2 103. 2 100. 8 94. 0 100. 7 97. 2 100. 7 94. 0 88. 6	97. 4 118. 9 121. 9 118. 0 112. 0 105. 1 97. 1 108. 5 105. 4 107. 1 92. 7 78. 3	95. 7 100. 7 99. 8 90. 7 87. 7 92. 3 97. 6 105. 7 105. 7 105. 8 98. 8 97. 1	92. 2 94. 8 97. 6 99. 4 105. 3 107. 9 101. 6 106. 9 103. 9 106. 0 103. 5 99. 3	103. 2 105. 0 109. 0 106. 6 104. 9 102. 0 99. 2 100. 3 99. 1 102. 4 102. 0 102. 3	109. 6 109. 7 113. 2 112. 9 109. 8 110. 5 106. 9 108. 2 110. 6 114. 0 113. 2	107. 0 105. 1 107. 4 108. 8 110. 6 113. 9 110. 0 114. 4 114. 7 114. 9 114. 6 115. 7	108. 1 111. 3 109. 2 109. 5 105. 1 102. 8 100. 0 104. 1 112. 1 109. 2 100. 6 103. 0	91. 2 89. 5 94. 0 87. 2 92. 9 89. 5 88. 7 93. 9 98. 0 97. 1 95. 0	98. 5 101. 0 102. 0 101. 1 97. 6 95. 7 87. 8 90. 3 91. 6 108. 7 110. 4
1927—January February March April May June July August September October November December	103. 3 106. 0 106. 3 102. 6 101. 2 91. 7 96. 5 94. 9	107. 1 111. 5 111. 5 108. 7 107. 3 106. 0 99. 7 101. 8 97. 5 98. 8 95. 0 97. 6	103. 9 109. 7 110. 9 104. 5 101. 2 100. 4 97. 1 101. 6 105. 7 107. 3 102. 4 104. 1	100. 1 100. 0 99. 3 98. 3 101. 1 105. 2 104. 1 102. 6 105. 1 105. 4 103. 8 103. 3	110. 8 111. 2 112. 0 110. 6 110. 1 108. 4 106. 3 107. 7 108. 7 110. 4 111. 4 113. 6	91, 4 93, 9 95, 1 93, 9 96, 4 96, 3 92, 8 96, 4 97, 5 98, 8 96, 3 92, 3	79. 5 95. 9 99. 0 101. 0 101. 6 92. 1 87. 4 91. 6 86. 9 89. 8 84. 1 86. 8	65. 8 98. 8 108. 0 111. 0 111. 6 91. 9 87. 4 95. 3 89. 6 93. 0 81. 5 88. 7	98. 9 105. 1 102. 9 96. 5 93. 9 95. 0 100. 6 108. 6 106. 1 99. 5 87. 5 88. 8	87. 1 92. 8 97. 6 101. 2 104. 1 101. 9 96. 2 97. 7 95. 9 96. 3 94. 0 89. 9	100. 9 103. 2 99. 4 101. 0 106. 8 103. 5 98. 8 99. 4 97. 7 98. 4 95. 6 98. 9	111. 0 114. 8 118. 1 116. 5 109. 3 110. 3 104. 5 105. 6 106. 3 107. 3 105. 8	113. 3 120. 0 121. 2 118. 5 113. 2 116. 6 110. 8 110. 5 107. 6 105. 9 103. 7 103. 5	102. 4 108. 2 109. 2 115. 0 118. 1 114. 3 108. 5 108. 7 108. 2 105. 0 98. 4 106. 2	82. 5 85. 7 87. 4 84. 4 90. 4 93. 8 92. 8 86. 9 98. 0 99. 0 98. 1 94. 8	95. 8 87. 7 86. 7 83. 5 79. 9 75. 0 71. 8 85. 6 91. 8 90. 3 97. 0
1928—January February March April May June July August September October November December	100. 3 101. 6 99. 7 102. 1 99. 6 93. 8 99. 8 99. 1 105. 1 105. 1	94. 5 99. 0 101. 9 101. 8 104. 2 106. 1 102. 5 105. 3 106. 0 111. 3 110. 3 114. 0	101, 0 105, 0 104, 0 95, 3 92, 0 90, 9 85, 8 90, 2 94, 9 101, 0 96, 7 100, 3	100. 3 102. 0 101. 3 97. 5 100. 2 102. 8 103. 1 101. 5 104. 3 106. 0 104. 9 106. 3	110. 6 109. 7 109. 8 109. 0 108. 9 109. 0 107. 3 107. 5 109. 2 111. 5 111. 7 113. 7	83. 2 87. 2 89. 5 89. 5 90. 5 91. 3 88. 3 91. 5 93. 4 95. 8 94. 4 90. 8	83. 4 94. 1 97. 9 99. 4 100. 9 98. 5 94. 8 100. 1 104. 7 96. 1 95. 8	88. 2 111. 0 117. 2 119. 3 124. 2 117. 6 115. 2 128. 3 129. 0 134. 1 114. 5 112. 4	95. 3 101. 4 99. 9 86. 0 82. 9 87. 1 94. 3 100. 4 99. 6 95. 9 80. 1 86. 0	82. 5 84. 3 87. 3 90. 5 94. 0 91. 0 95. 1 92. 8 94. 1 90. 7 88. 4	95. 7 101. 5 102. 5 102. 4 105. 3 104. 8 101. 2 106. 7 109. 4 116. 6 118. 5 120. 5	104. 2 106. 4 108. 8 108. 7 103. 4 102. 9 102. 5 103. 6 106. 3 109. 2 108. 2	104. 0 103. 5 103. 4 104. 2 101. 6 104. 2 107. 1 108. 6 109. 3 107. 8 107. 1 107. 2	109. 4 115. 7 114. 46 113. 0 109. 3 112. 5 114. 8 117. 9 123. 8 120. 4 112. 4 114. 1	85. 0 85. 1 86. 3 80. 3 84. 1 89. 7 84. 9 88. 7 92. 9 95. 2 94. 1 94. 3	77. 3 77. 7 73. 6 73. 3 71. 1 73. 3 70. 2 76. 3 80. 7 83. 4 86. 2 88. 4
1929—January. February. March. April. May. June. July. August September.	107. 2 108. 5 110. 5 111. 6 109. 9 103. 5 109. 3	112, 3 120, 7 126, 5 129, 5 131, 9 131, 6 128, 2 127, 5 127, 9	97. 0 103. 6 108. 8 103. 2 99. 3 97. 8 90. 4 97. 4 103. 0	102. 2 102. 5 101. 2 100. 4 103. 1 105. 6 105. 6 105. 0 108. 1	111. 4 113. 0 114. 9 113. 3 114. 3 113. 6 111. 4 112. 8 116. 3	83. 4 86. 5 88. 4 90. 9 92. 8 92. 2 93. 5 94. 7 96. 6	93. 6 111. 4 113. 9 117. 0 116. 0 107. 9 97. 1 106. 8 103. 3	147. 1 130. 9 110. 2	90. 2 94. 5 91. 4 87. 9 88. 1 89. 8 97. 8 105. 0 104. 3	79. 0 81. 0 84. 8 89. 3 91. 8 92. 5 86. 1 91. 2 91. 3	117. 4 124. 1 127. 6 127. 0 123. 1 117. 0 112. 6 113. 2 112. 1	106. 3 111. 3 113. 6 117. 8 113. 1 111. 2 111. 2 113. 0 116. 0	105. 3 110. 2 112. 1 117. 1 118. 9 120. 0 123. 3 125. 1 129. 3	118. 8 145. 8 146. 7 150. 2 146. 5 120. 6 115. 1 110. 9 104. 9	76. 3 82. 3 84. 4 86. 1 86. 1 88. 5 87. 9 90. 6 93. 4	63. 8 61. 5 64. 0 64. 7 72. 2 70. 4 80. 6 86. 8 99. 3

TABLE 5.—WEIGHT FACTORS USED IN REVISED INDEXES OF FACTORY EMPLOYMENT AND PAY ROLLS

		Employme	nt: 1923	Pay rolls	: 1923
(Source	INDUSTRY AND GROUP E: U. S. Census of Manufactures—figures for 1923 as revised in 1925)	A verage number	Per cent of total	Annual (in thousands of dollars)	Per cent of total
Iron and st Hardware	EL AND THEIR PRODUCTS, not including machinery eel; steel works and rolling mills, etc. iron work gs and steam and hot-water heating apparatus; stoves.	792, 314 533, 904 91, 315 51, 591	9. 1 6. 1 1. 0 0. 6	1,200,293 848, 127 113, 175 80, 833	10. 9 7. 7 1. 0 0. 8
Cast-iron p	ipe	21, 576	1.1 0.3	133, 138 25, 020	1.2
Foundry a Electrical 1	ot including transportation equipment and machine-shop products, including locomotives nachinery	234, 892	9.9 6.4 2.7 0.4	1,212,259 818,956 305,455 47,337	11.0 7.4 2.8 0.4
	ols	1	0.4	40, 511	0.4
A. Fabrics Cot Woo	ton goods len and worsted manufactures. Woolen and worsted goods. Carpets and rugs	1, 107, 858 495, 197 229, 769 194, 552 35, 217	17.7 12.6 5.7 2.6 2.2 0.4	1, 581, 684 1, 059, 804 420, 645 271, 513 222, 985 48, 528	14.4 9.6 3.8 2.4 2.0 0.4
Silk Dye B. <i>Wearing</i> Cloi Shir	iery and knit goods manufactures ing and finishing textiles apparet hing, men's ts and collars hing, men's	194, 244 125, 234 63, 414 444, 382 194, 820 62, 121 133, 195	2. 2 1. 4 0. 7 5. 1 2. 3 0. 7 1. 5	168, 272 126, 849 72, 525 521, 880 235, 487 45, 903 176, 446	1. 5 1. 2 0. 7 4. 8 2. 2 0. 4 1. 6
Mil IV, Food and Rin Baking	DRED PRODUCTS.	54, 246 432, 470 162, 613	0.6 4.9 1.8	64, 044 531, 212 214, 579	0.6 4.8 1.9
Confectione Ice cream . Flour	g and meat packing rry ng, cane.	132, 792 63, 485 23, 132 35, 194 15, 254	1. 5 0. 7 0. 3 0. 4 0. 2	167, 569 54, 881 32, 435 41, 704 20, 044	1.5 0.5 0.3 0.4 0.2
Printing, be Printing, ne Paper and p	INTING ook and job wspapers and periodicals pulp s	423, 862 129, 890 116, 440 120, 677 56, 855	4.8 1.5 1.3 1.4 0.6	603, 494 201, 217 196, 804 151, 477 53, 996	5.5 1.8 1.8 1.4 0.5
Lumber, sa Lumber, m	rs Products wmills ill work	767, 629 495, 932 103, 008 168, 089	8.8 5.7 1.2 1.9	813, 804 475, 962 133, 329 204, 513	7.4 4.3 1.2 1.9
Car buildin Automobile	ON EQUIPMENT. g and repairing, steam and electrics	1, 071, 193 604, 020 404, 886 62, 287	12. 2 6. 9 4. 6 0. 7	1, 652, 744 902, 147 659, 877 90, 720	15. 6 8. 2 6. 0 0. 8
Boots and s	ITS MANUFACTURES	299, 917 240, 214 59, 703	3.4 2.7 0.7	339, 519 265, 735 73, 784	3. 1 2. 4 0. 7
Glass	AND GLASS PRODUCTS	247, 973 139, 547 73, 335 35, 091	2.8 1.6 0.8 0.4	310, 085 170, 479 89, 898 49, 708	2.8 1.5 0.8 0.5
X. METAL PRODUC Stamped an Brass, bron	rts, other than iron and steel	130, 298 35, 237 95, 061	1.5 0.4 1.1	175, 890 42, 636 133, 254	1, 6 0, 4 1, 2
XI. CHEMICALS AND Chemicals Petroleum	o ALLIED PRODUCTSand drugs	204, 838 119, 549 66, 717 18, 572	2.3 1.3 0.8 0.2	275, 994 155, 795 103, 834 16, 365	2.5 1.4 0.9 0.2
XII. RUBBER PRODU	ucrstires and tubests and shoes	103, 398 73, 963 29, 435	1.2 0.9 0.3	142, 294 108, 623 33, 671	1.3 1.0 0.3
Cigars and Chewing a	DFACTURES	146, 337 130, 036 16, 301	1.7 1.5 0.2	120, 462 107, 723 12, 739	1, 1 1, 0 0, 1
	UMENTS (pianos and organs; phonographs)	54,226	0.6	69, 554	9.7
Canning ar	OUSTRIES	1, 673, 426 72, 534 1, 600, 892	19. 1 0. 8 18. 3	1,969,994 57,153 1,912,841	17. 9 0. 5 17. 4
TOTAL—ALL IN	DUSTRIES	8, 768, 491	100.0	10, 999, 282	100, 0

NATIONAL SUMMARY OF BUSINESS CONDITIONS

Industrial activity increased less in September than is usual at this season. Production during the month continued above the level of a year ago, and for the third quarter of the year it was at a rate approximately 10 per cent above 1928. There was a further decline in building contracts awarded. Bank loans increased between the middle of September and the middle of October, reflecting chiefly growth in loans on securities.

Production.—Output of iron and steel declined further in September, contrary to the seasonal tendency; there was a sharp decrease in output of automobiles and automobile tires, and a smaller than seasonal increase in activity in the textile and shoe industries, which continued to produce at a high rate in comparison with the preceding year. Meat-packing plants were more active than in August. Factories increased the number of their employees during September, and pay rolls were also slightly larger.

Output of coal showed a substantial increase from August, and the average daily production of copper mines was somewhat larger. Ironore shipments declined seasonally, and petroleum output was reduced for the first time in several months.

For the first half of October reports indicate a further reduction in steel-plant operations, a continued increase in production of bituminous coal, and some increase in petroleum output following a moderate decrease during September.

Building contracts awarded in September declined seasonally from August and were substantially below the corresponding month in any year since 1924. For the third quarter the volume of contracts was 6 per cent less than a year ago. During the first three weeks of October contracts continued substantially below the level of last year.

October estimates by the Department of Agriculture indicate a cotton crop of 14,915,000 bales, 3 per cent larger than last year; a corn crop of 2,528,000,000 bushels, 11 per cent smaller than the crop of a year ago and 8 per cent below the 5-year average; and a total wheat crop of 792,000,000 bushels, 12 per cent below last year but only slightly under the 5-year average.

Distribution.—Freight-car loadings increased by slightly less than the usual seasonal amount in September and continued to be larger than a year ago. In the first two weeks of October car loadings were smaller than in the corresponding weeks of 1928.

Department-store sales in leading cities increased seasonally during the month of September and were 2 per cent larger than a year ago. For the third quarter as a whole sales of the reporting stores exceeded those of the third quarter of last year by 3 per cent.

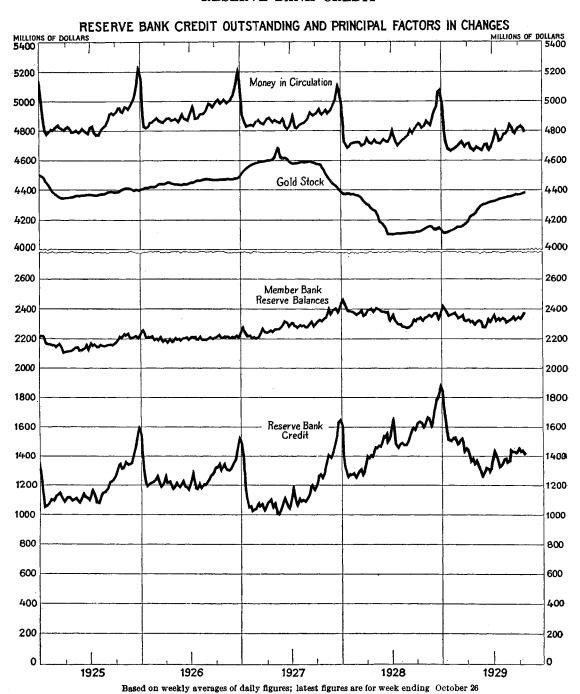
Prices.—Wholesale prices showed little change from August to September, according to the index of the Bureau of Labor Statistics. Prices of meats and livestock declined considerably, while prices of grains advanced. The prices of raw silk, cotton, and cotton goods were higher in September, and the price of coal increased, while prices of iron and steel products, tin, gasoline, and cement were lower. During the first three weeks of October prices declined for a considerable number of commodities, including wheat, flour, hides, steel, tin, cotton, silk, and wool.

Bank credit.—Between the middle of September and the middle of October there was a slight increase in the volume of loans and investments of member banks in leading cities. The banks' loans on securities increased rapidly, while all other loans, including loans for commercial and agricultural purposes, declined somewhat after reaching a seasonal peak on October 2. Security holdings of the reporting banks continued the decline which has been almost uninterrupted for more than a year.

At the reserve banks there was little change in the volume of credit outstanding during the 4-week period ending October 19. Further increase in the holdings of acceptances by the Federal reserve banks was accompanied by a decline in discounts for member banks, largely at the Federal Reserve Bank of New York.

Open-market rates on bankers' acceptances and on prime commercial paper were unchanged during the last half of September and the first three weeks of October. On October 23 rates on bankers' acceptances declined by one-eighth of 1 per cent to a 5 per cent level for the principal maturities. Rates on demand and time loans on securities declined during the first half of October.

RESERVE BANK CREDIT



RESERVE BANK CREDIT OUTSTANDING AND FACTORS IN CHANGES

[Averages of daily figures. In millions of dollars]

	Rese	erve bank cr	edit outstand	ding	Factors of	decrease 1	Factors of increase 1			
Month or week	Bills dis- counted	Bills bought	United States securities	Total 1	Monetary gold stock	Treasury currency outstand- ing	Money in circulation	Member bank reserve balances	Other factors 3	
1928—August	1, 061	178	210	1, 485	4, 118	1,774	4, 743	2, 274	36	
September	1, 064 975	226	240	1, 581	4, 125 4, 133 4, 151	1, 787	4,804	2, 314	37	
October	975	368	237	1, 621 1, 653	4, 133	1, 786 1, 787	4,836	2, 332	37	
November	897	471	238	1, 653	4, 151	1,787	4,860	2, 352	37	
December	1,013	483	263	1,824	4, 142	1,790	5,008	2, 367	38	
1929—January February March	859	473	229	1,570	4, 115	1, 789	4,748	2, 387	38	
February	889	385	184	1, 468	4, 143	1,784	4,686	2, 357	38	
March	969	265	197	1, 442 1, 377	4, 166	1,791	4,709	2, 337	39	
April	1,004	156	165	1, 377	4, 226 4, 292	1,785	4,679	2, 308	40	
May	956 978	145	153 179	1, 303	4, 292	1,787	4,684	2, 296	40	
June	1 000	99 75	147	1, 317	4, 311 4, 335	1,779	4, 687	2, 314	40	
July August September	1,096 1,043	124	155	1,380	4, 555	1,790	4, 764	2, 334	40	
Contombor	969	229	165	1, 376 1, 427	4, 351 4, 368	1,781 1,766	4,777	2, 322 2, 335	4 0 4 1	
October	885	337	154	1, 427	4, 381	1, 785	4,811	2, 335 2, 386	41	
Week ending—	000	991	104	1, 450	4, 961	1, 100	4,810	2, 360	42	
Sont 28	935	262	157	1, 412	4, 375	1, 737	4, 782	2, 327	41	
Sept. 28 Oct. 5	928	302	148	1, 454	4, 374	1, 753	4, 814	2, 350	41	
Oct. 12	895	322	138	1, 422	4, 376	1, 783	4,822	2,339	42	
Oct. 19	860	349	133	1, 429	4, 380	1,790	4,818	2, 358 2, 358	42	
Oct. 26	843	355	140	1, 409	4,386	1, 793	4, 791	2, 378	41	

For explanation see July BULLETIN, pp. 432–438.
 Includes "other securities," amounts due from foreign banks, and reserve bank float; for explanation see July BULLETIN.
 Nonmember clearing balances held in Federal reserve banks and unexpended capital funds of Federal reserve banks.

ANALYSIS OF CHANGES IN MONETARY GOLD STOCK

[End of month basis. In millions of dollars]

	Gold	Increase	(+) or demon) during
Month	stock at end of month	Total	Through net gold import or export	Through ear- marking opera- tions	domestic
November December Total (12 mos.)	4, 541 4, 451 4, 379	-30. 1 -89. 7 -71. 7 -112. 7	-8.6 -53.2 -67.4 +6.2	-25. 0 -40. 0 -8. 5 -160. 1	+3.4 +3.5 +4.2 +41.2
1928—January February March April. May June July August September October November December.	4, 373 4, 362 4, 305 4, 266 4, 160 4, 109 4, 113 4, 123 4, 124 4, 128 4, 141	-6.0 -11.2 -57.6 -38.7 -105.7 -51.0 +3.4 +10.3 +2.1 +17.3 -14.0 +13.2	-13. 8 -11. 1 -94. 9 -91. 2 -81. 7 -79. 9 -63. 9 +. 7 +. 5 +13. 3 +6. 7 +23. 3	+5.5 +2.9 +35.8 +45.7 -26.5 +30.1 +60.9 +5.9 -1.2 -25.0 -15.7	+2.3 -3.0 +1.5 +6.8 +2.5 -1.2 +6.4 +3.7 +2.8 +2.8 +4.3 +5.6
Total (12 mos.) 1929—January	4, 127 4, 153 4, 188 4, 260 4, 301 4, 324 4, 341 4, 360 4, 372 4, 386	-237.9 -14.4 +26.4 +34.4 +40.6 +23.4 +16.3 +18.9 +12.1 +14.0	-392.0 +47.1 +25.5 +24.8 +23.1 +23.6 +30.2 +34.7 +18.4 +17.6 +11.2	+119. 6 -65. 0 +7. 5 +48. 6 +16. 1 -7. 5 -22. 0 -1. 0 -6. 6 -4. 5	+34.5 +3.5 +0.9 +2.1 +0.7 +0.9 +0.7 +3.6 +1.5 +1.1 +7.3

¹ For detailed explanation of this figure, which is derived from preceding columns, see BULLETIN for December, 1928, p. 831.

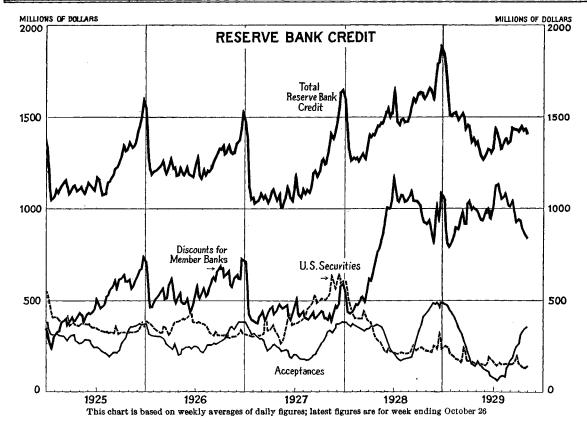
Preliminary.

GOLD MOVEMENTS TO AND FROM UNITED STATES

[In thousands of dollars]

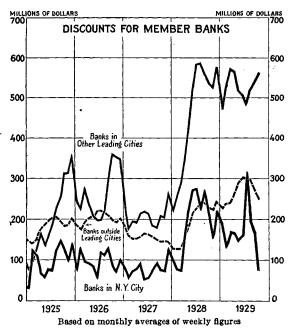
	1929										
From or to—	Octo	ber 1	Septe	mber	January- September						
	Im- ports	Ex- ports	Im- ports	Ex- ports	Im- ports	Ex- ports					
England France Germany Italy		3,000	8, 054 1		61, 380 75 46, 761 5	3					
Netherlands			2, 841 94 383	56 250 734	5 65, 327 662 6, 588	279 950 2, 160					
West IndiesArgentinaChileColombia	6, 575		2, 500 23 589		330 61, 807 396 1, 469	33					
EcuadorPeruUruguay			1 132		1,027 1,368						
Venezuela British India China and Hong Kong			96		276	1,600 74 2,431					
Dutch East Indies. Japan Philippine Islands New Zealand			187 288 13		899 2, 097 660	1,010 124					
All other countries	2 4, 900 14, 976	3,741	3, 574	165	3, 720 255, 085	9, 94					

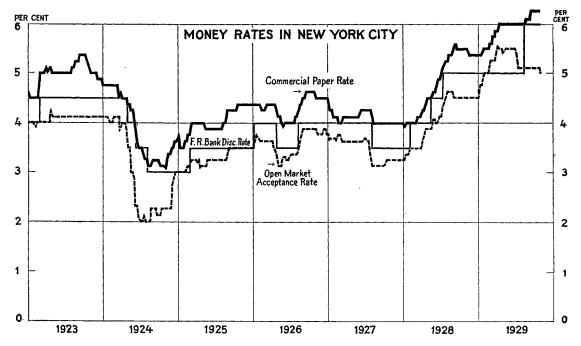
October figures are preliminary; 3 customs districts—New York,
 Lawrence, and San Francisco.
 Includes all movements of unreported origin or destination.



DISCOUNTS WITH FEDERAL RESERVE BANKS
[Monthly averages of weekly figures. In millions of dollars]

		Repoi	ıks in			
Month	Total dis- counts	Total	New York	Other I	All other dis- counts	
			City	Total Chi-		
1928-January	439	314	94	220	23	125
February	463	338	78	260	13	125
March	489	362	75	287	25	127
April	637	488	145	343	35	149
May	826	644	222	422	49	182
June	1,012	796	271	525	61	216
July	1,079	854	274	580	80	225
August	1,045	806	223	583	80	239
September	1,063	822	266	556	41	241 224
October November	960 901	736 681	202 157	534 524	58 67	224
December	1, 039	799	221	578	91	240
1929—January	891	663	190	473	71	228
February	893	659	131	528	96	234
March	978	740	166	574	121	238
April	991	725	162	563	46	266
Мау	951	661	145	516	36	290
June	972	670	165	505	64	302
July	1,100	801	319	482	47	299
August	1,013	717	196	521	32	296
eptember	974	706	166	540	18	268
October	88 5	634	74	560	38	251





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 established	Previous rate
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	5 5 5 5 5 5 5 5	July 19, 1928 Nov. 1, 1929 July 26, 1928 Aug. 1, 1928 July 13, 1928 July 14, 1928 July 11, 1928 July 11, 1928 July 19, 1928 May 14, 1929 May 6, 1929 Mar 2, 1929 May 20, 1929	6 4½ 4½ 4½ 4½ 4½ 4½ 4½ 4½ 4½

BUYING RATES ON ACCEPTANCES

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

Maturity	Rate in effect on Nov. 1	Date established	Previous rate
1-15 days 16-30 days	434 434 434 434	Nov. 1, 1929do	1 5 1 5 1 5 1 5 1 5 1 5 5 1 5

¹ Reduced from 51/8 to 5 per cent on Oct 25.

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 rate	on		ige rate u—	Averag	
Month or week	Prime	Prime		Cal)	loans1	U. S. Treas-	
1928	com- mercial paper, 4 to 6 months	ers' accept- ances, 90 days	Time loans, 90 days 1	New	Re- newal	notes and certifi- cates, 3 to 6 months	Treas- ury bonds
1928 October November December	5½ 5¼-5½ 5¼-5½		7 -71/4 67/6-7 7 -73/4	6.86	6, 98 6, 67 8, 60	4.70 r 4.26 r 4.26	3. 5 5 3. 48 3. 53
1929 January February Magch A pril June June August September October Week ending—	534-6 6 6 6 6 -614 614	5 -514 514-512 512 512 512 518 518 518	734-8 814-9 814-9 8 -814 714-8 834-9 834-9	7. 47 9. 80 9. 46 8. 79	7. 05 7. 06 9. 10 8. 89 8. 91 7. 70 9. 23 8. 23 8. 50 6. 43	7 4. 66 7 4. 39 7 4. 60 7 4. 80 7 5. 09 7 4. 80 7 4. 55 7 4. 70 4 4. 58 4. 37	3. 59 3. 66 3. 67 3. 67 3. 71 3. 68 3. 72 3. 70 3. 67
Oct. 5 Oct. 12 Oct. 19 Oct. 26	61/4	51/8 51/8	8½-8¾ 7¾	5. 63 6. 28	8. 20 6. 20 6. 40 6. 00	4. 65 4. 62 4. 44 4. 18	3. 73 3. 72 3. 65 3. 56

¹ Stock exchange call loans; new and renewal rates.

3 Stock exchange90-day time loans.

3 issues—334, 4, and 414 per cent; yields calculated on basis of last redemption dates—1956, 1954, and 1952.

4 Change of issues on which yield is computed

7 Revised.

PREVAILING RATES CHARGED CUSTOMERS BY BANKS IN PRINCIPAL CITIES

The rates shown are those at which the bulk of the loans of each class were made by representative banks during the week ending with the 15th of the month. Rates reported by about 200 banks with loans exceeding \$7,500,000,000.

FEDERAL B	RESERVE	BANK	CITIES
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Month	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco	
					P	rime comn	nercial loan	າຣ					
1928—October November December 1929—January February March April May June	5½-6 5½-6 5½-6 5½-6 5½-5¾ 5½-5¾ 5½-5¾ 5¾-6	5½ 5½-5½ 5½ 5½ 5½ 5½-5¾ 5¾-6 5¾-6	51/2-53/4 51/2-6 51/2-6 51/2-53/4 51/2-6 51/2-6 51/2-6 51/2-6	5½-6 5½-6 5½-6 5½-6 5½-6 5½-6 5½-6 5½-6	5½-6 5½-6 5½-6 5½-6 5½-5¾ 5½-5¾ 5½-5¾ 5½-5¾ 5¾-6	514-6 514-6 514-6 514-6 514-614 514-614 514-6	514-534 514-534 514-6 514-6 514-6 514-6 514-6 514-6 514-6	5½-5¾ 5½-5¾ 5½-6 5½-6 5½-6 5½-6 5¾-6 5¾-6 5¾-6	5½-5¾ 5½-6 5¾-6 5½-5¾ 5¾-6 5¾-6 5¾-6 5¾-6 5¾-6 5¾-6 5¾-6 5	512-6 512-6 512-6 512-6 512-6 512-6 512-6	5½-6 5½-6 5½-6 5½-6½ 5½-6 5½-7 6 6 6 -6½	5½-6 5½-6 5½-6 5½-6 5½-6 5¾-6	
July August September October	534 534-6 6 534-6	5 ³ / ₄ -6 6 6 6 -6 ¹ / ₄	512-6 534-6 534-6 534-6	512-6 534-6 534-6 534-6	534-6 534-6 534-6 534-6	514-614 514 7 6 -614 6 -61/2	5½-6 534-6 534-614 534-612	$ 5\frac{3}{4} - 6 $ $ 5\frac{3}{4} - 6 $ $ 6 $ $ 6 $	534-634 6 6 6	512-6 512-6 534-6 534-6	6 -612 6 -612 6 -612	6 534-6	
		Loans secured by prime stock-exchange collateral											
MayJuneJulyAugustSeptemberOctober	6 -634 6 -7 6 -7 6 -7 6 -7 6 -7 6 -7 6 -7	6 6 6 6 6	534-6 534-6 534-6 6 6 6	534-6 534-6 6 512-7 6 -612 6	6 6 6 6 6	6 -7 534-7 6 -7 6 -7 6 -7 6 -7 6 -7	534-7 612-7 6 -7 6 -7 6 -7 6 -7 6 -7 612-8	6 -61/2 6 -61/2 6 6 6 6 6 -7 6 -7	6 -614 6 -614 6 -614 6 -7 6 -612 61/2-7	514-6 534-6 534-7 534-6 534-6 6 -614	6 -7 6 -7 6 -7 6 -8 6 -8 6 -8 6 -8	6 6 6 -7 6 -7 6 -7 6 -7 6 -7	
					Loans s	ecured by	warehouse	receipts					
1929—April	6 6 6 6 6 6 6 7 6 6 6 7	6 6 6 6 6	6 6 6 6 6 6	6 -7 6 6 6 6 6 6	6	6 -7 6 -7 6 -7 6 -7 6 6 6 -6½	534-612 6 6 6 6 6 -612 6	534-6 6 6 6 6 6 6 -7 6 -7	534-6 6 6 534-6 6 6	514-6 514-6 514-6 514-7 514-6 534-6 534-6	6 -61/2 6 -7 6 -7 6 -7 6 -7 6 -7 6 -7	6 6 -614 6 -614 6 -614 6 -614 6 -614	
						Interba	nk loans						
1929—April	512-6 512-6 512-6 512-6 6 6 6	5½-6 5¾-6 5¾-6 5¾-6 6 6 6 -6¼	514-534 534 534 534-6 514-6 512-6	5½-6 5½-6 5½-6 5½-6 5½-6 5½-6 5½-6	534 534~6 6 534~6 534~6 534~6 534~6	5½-6 5½-6½ 5½-6½ 5½-6½ 5½-6½ 6 6	534-6 534-6 6 514-6 534-6 6 534-6	514-6 534-6 534-6 534-6 6 6 6	534-6 6 6 6 6 6 6 6 6	51/2-6 6 6 6 6 6	512-6 512-6 512-6 512-6 6 6	5 -6 5 -6 51/1 51/2 51/2 51/2	

FEDERAL RESERVE BRANCH CITIES

	Prime	commercia	al Ioans	Loans s stock-e	ecured by achange co	y prime llateral	Loans se	cured by w	arehouse	Interbank loans			
City	August, 1929	Septem- ber, 1929	October, 1929	August, 1929	Septem- ber, 1929	October, 1929	August, 1929	Septem- ber, 1929	October, 1929	August, 1929	Septem- ber, 1929	October, 1929	
Buffalo Cincinnati Pittsburgh Baltimore Charlotte Birmingham Jacksonville Nashville Nashville New Orleans Detroit Little Rock Louisville Helena Denver Oklahoma City Omaha El Paso Houston San Antonio Los Angeles Portiand Salt Lake City Seattle Spokane	534-6 534-6 6 6 6 6-632 6 6-832 6-832 6-832 6-856 6-7 6	6 534-6 512-6 6 -7 6 -612 6 -7 6 -612 6 -612 6 -8 6 -8 6 -8 6 -8 6 -7 6 -8 6 -8 6 -8 6 -8	6 -7 6 -6½ 6 -6½ 6 -6½ 8	61/2-8 53/4-6 6 -7 6 -7 6 -7 6 -8 6 -7 7 -8 6 -7 6 -7 6 -8 6 -7	6 -8 6 6 6 6 -7 6 6 -8 6 12-7 6 -8 6 12-7 6 -8 6 12-7 6 -8 6 12-7 6 -8 6 12-7 6 -6 12-7 6 -6 12-7 6 -6 12-7	6 -7	6 -7 -8 6 -7 6 -8 6 -7 7 7 7 7	6 -7 -6 -8 -8 -8 -8 -8 -8 -8 -7 -8 -7 -8 -7 -8 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	6 12-7 6 6 6 -8 6 -8 512-6 6 6 2-7 6 -8 6 -8 612-7 7 -8 6 -8 6 -7 7 6 -7 6 -7 7 6 -7 7 6 7 6 7 7 7 6 7 6	534-7 534-6 534-6 534-6 6 6 534-6 534-6 6 6 6 6 6 534-6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 5 ³ 4-7 6 6 6 6 6 6 6 6 6 6 -6 ³ / ₂ 6 6-6 ³ / ₂ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 6 6 -8 6 -6½	

MEMBER BANK CREDIT

REPORTING MEMBER BANKS (REVISED SERIES)

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

		Loans an	d invest	ments		Bor-		Loans and investments					Bor-
Date			Loans		Total	row- ings at Fed-	Month		Loans			Total in	row· ings at Fed-
	Total	Total	On securi- ties	All other	in- vest- ments	eral re- serve banks		Total	Total	On securi- ties	All other	in- vest- ments	eral re- serve banks
Total: Aug. 7- Aug. 14 Aug. 21 Aug. 28 Sept. 4 Sept. 11 Sept. 18 Sept. 25 Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30		17, 044 16, 943 16, 938 16, 950 17, 150 17, 142 17, 254 17, 244 17, 428 17, 269 17, 397 17, 500 18, 934	7, 715 7, 573 7, 510 7, 515 7, 632 7, 578 7, 686 7, 720 7, 828 7, 687 7, 875 7, 920 9, 179	9, 329 9, 370 9, 428 9, 434 9, 518 9, 564 9, 567 9, 520 9, 582 9, 582 9, 580 9, 755	5, 537 5, 567 5, 456 5, 456 5, 441 5, 429 5, 489 5, 483 5, 403 5, 397 5, 395 5, 496	770 726 687 685 761 702 673 688 672 612 605 554 729	Total: 1928—September October November December 1929—January February March April May June July August September October	21, 983 22, 189 22, 320 22, 263 22, 472 22, 388 22, 113 22, 231	15, 898 16, 003 16, 096 16, 253 16, 300 16, 491 16, 464 16, 277 16, 480 16, 950 16, 969 17, 197 17, 706	6,840 6,874 7,082 7,198 7,504 7,522 7,580 7,392 7,218 7,332 7,716 7,574 8,098	9, 059 9, 130 9, 014 9, 055 8, 796 8, 737 8, 911 9, 073 9, 149 9, 234 9, 390 9, 543 9, 608	5, 973 5, 984 5, 888 6, 021 6, 004 5, 981 5, 987 5, 751 5, 496 5, 446 5, 418	822 736 681 799 663 659 740 725 661 670 801 717 706 634
New York City: Aug. 7. Aug. 14 Aug. 21 Aug. 28 Sept. 4. Sept. 11 Sept. 18 Sept. 25 Oct. 2 Oct. 2 Oct. 2 Oct. 23 Oct. 30	7, 512 7, 381 7, 384 7, 383 7, 546 7, 467 7, 542 7, 474 7, 563 7, 464 7, 526 7, 619 9, 010	5, 775 5, 653 5, 633 5, 686 5, 853 5, 770 5, 814 5, 777 5, 876 5, 756 5, 817 5, 899 7, 191	2, 961 2, 822 2, 775 2, 819 2, 944 2, 846 2, 884 2, 984 2, 883 2, 947 2, 836 2, 964 3, 005 4, 205	2, 813 2, 830 2, 862 2, 867 2, 904 2, 920 2, 894 2, 929 2, 921 2, 853 2, 898	1,737 1,728 1,717 1,697 1,693 1,697 1,729 1,687 1,708 1,709 1,721 1,819	295 191 144 153 217 159 142 147 63 46 49 41	New York City: 1928—September October November December 1929—January February March April May June July August September October	7, 022 7, 013 7, 056 7, 152 7, 262 7, 190 7, 296 7, 297 7, 182 7, 281 7, 496 7, 497 7, 507 7, 837	5, 221 5, 209 5, 255 5, 339 5, 378 5, 306 5, 424 5, 437 5, 344 5, 468 5, 804 5, 803 6, 108	2, 544 2, 559 2, 694 2, 747 2, 904 2, 823 2, 729 2, 653 2, 749 3, 045 2, 892 3, 191	2, 678 2, 650 2, 562 2, 592 2, 473 2, 486 2, 601 2, 708 2, 691 2, 718 2, 758 2, 843 2, 916	1, 801 1, 803 1, 800 1, 812 1, 884 1, 885 1, 872 1, 838 1, 812 1, 692 1, 720 1, 704	266 202 157 221 190 131 166 162 145 165 319 196 166 74
Other leading cities: Aug. 7	15, 267 15, 276	11, 269 11, 290 11, 301 11, 263 11, 297 11, 372 11, 440 11, 467 11, 552 11, 513 11, 579 11, 602 11, 743	4, 754 4, 750 4, 735 4, 696 4, 688 4, 732 4, 792 4, 838 4, 878 4, 878 4, 910 4, 915 4, 973	6, 515 6, 540 6, 566 6, 567 6, 609 6, 641 6, 629 6, 673 6, 662 6, 669 6, 686 6, 770	3, 800 3, 779 3, 768 3, 758 3, 748 3, 731 3, 760 3, 741 3, 713 3, 696 3, 688 3, 674 3, 677	475 535 543 532 544 542 531 540 609 566 563 513 560	Other leading cities: 1928—September. October. November. December. 1929—January. March. April. May. June. July. August. September. October.	14, 928 15, 037 15, 058 15, 073 15, 176 15, 092 14, 931 14, 950 14, 984 15, 058 15, 139	10, 677 10, 794 10, 840 10, 913 10, 922 10, 954 11, 067 11, 027 10, 933 11, 012 11, 146 11, 281 11, 394 11, 598	4, 296 4, 314 4, 388 4, 450 4, 600 4, 702 4, 756 4, 565 4, 582 4, 670 4, 735 4, 762 4, 906	6, 381 6, 480 6, 452 6, 463 6, 323 6, 251 6, 360 6, 368 6, 430 6, 476 6, 546 6, 632 6, 692	4, 172 4, 131 4, 087 4, 124 4, 136 4, 119 4, 065 3, 998 3, 938 3, 837 3, 776 3, 745 3, 690	556 534 524 578 473 528 574 563 616 505 482 521 540 561
City of Chicago: Aug. 7. Aug. 14. Aug. 21. Aug. 28. Sept. 4. Sept. 11. Sept. 18. Sept. 25. Oct. 2. Oct. 9. Oct. 16. Oct. 23. Oct. 30.	2, 068 2, 063 2, 046 2, 037 2, 050 2, 048	1, 664 1, 662 1, 661 1, 650 1, 643 1, 661 1, 662 1, 717 1, 695 1, 735 1, 733 1, 786	963 948 936 925 910 929 929 964 1,008 1,004 1,034	701 714 725 725 733 732 733 735 730 727 729 752	414 406 403 396 394 389 386 393 388 388 388 387	29 43 33 23 1 11 37 23 66 45 72 4	City of Chicago: 1928—September October November. December. 1929—January February March. April. May July. August September. October	2, 034 2, 061 2, 063 2, 083 2, 065 2, 096 2, 130 2, 045 2, 015 2, 033	1, 572 1, 604 1, 604 1, 632 1, 613 1, 641 1, 676 1, 606 1, 596 1, 616 1, 659 1, 663 1, 733	850 854 869 889 887 911 950 905 897 910 906 943 933 998	722 751 735 743 726 731 726 701 698 706 695 716 730 735	462 456 459 452 452 455 454 440 417 414 405 391 386	41 58 67 91 71 96 121 46 36 64 47 32 18

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BANKERS' BALANCES

[Monthly averages of weekly figures for reporting member banks in leading cities. In millions of dollars]

ACCEPTANCES AND COMMERCIAL PAPER

[Amounts outstanding in millions of dollars. Figures for acceptances as compiled by American Acceptance Council; for commercial paper as reported by about 25 dealers.

į	Due to banks						reported by about 2	5 dealers	3]				
Month	То	tal	New Y	ork City	Other leading cities		End of month		rs' accer tstandin		Commercial paper out- standing		
	1928	1929	1928	1929	1928	1929		1927	1928	1929	1927	1928	1929
January February March April May June July August September October November December	3, 484 3, 374 3, 292 3, 207 3, 064 2, 897 2, 936 2, 801 2, 948 3, 073 3, 040 3, 011	3, 074 2, 918 2, 861 2, 709 2, 545 2, 532 2, 738 2, 604 2, 718 2, 916	1, 137 1, 098 1, 089 1, 053 1, 020 933 957 901 934 992 981 956	1, 012 949 916 874 817 796 935 827 887 1, 023	2, 347 2, 276 2, 203 2, 154 2, 044 1, 964 1, 979 1, 900 2, 014 2, 081 2, 059 2, 055	2, 062 1, 969 1, 945 1, 835 1, 728 1, 736 1, 803 1, 777 1, 830 1, 893	January February March April May June July August September October November December	774 785 809 811 775 751 741 782 864 975 1,029 1,081	1, 058 1, 056 1, 085 1, 071 1, 041 1, 026 952 1, 004 1, 123 1, 200 1, 284	1, 279 1, 228 1, 205 1, 111 1, 107 1, 113 1, 127 1, 201 1, 272	551 577 606 599 582 579 569 591 600 611 603 555	577 567 570 571 541 503 483 458 430 427 421 383	407 411 387 351 304 274 265 267 265

BROKERS' LOANS

BROKERS' BORROWINGS ON COLLATERAL IN NEW YORK CITY REPORTED BY THE NEW YORK STOCK EXCHANGE [Net borrowings on demand and on time. In millions of dollars]

End of month	Total				From New York banks and trust companies				From private banks, brokers, foreign banking agencies, etc.				
	1926	1927	1928	1929	1926	1927	1928	1929	1926	1927	1928	1929	
January February March April May June July August September October November December	3, 513 3, 536 3, 000 2, 836 2, 767 2, 926 2, 998 3, 142 3, 219 3, 111 3, 129 3, 293	3, 139 3, 256 3, 290 3, 341 3, 458 3, 569 3, 642 3, 674 3, 915 3, 946 4, 092 4, 433	4, 420 4, 323 4, 640 4, 908 5, 274 4, 898 4, 837 5, 051 5, 514 5, 880 6, 392 6, 440	6, 735 6, 679 6, 804 6, 775 6, 665 7, 071 7, 474 7, 882 8, 549 1 6, 109	3, 043 3, 080 2, 553 2, 468 2, 392 2, 599 2, 583 2, 698 2, 745 2, 668 2, 636 2, 804	2, 670 2, 757 2, 790 2, 865 2, 968 3, 065 3, 145 3, 170 3, 340 3, 363 3, 519 3, 812	3, 805 3, 737 3, 947 4, 246 4, 568 4, 169 4, 150 4, 260 4, 647 4, 994 5, 412 5, 401	5, 664 5, 619 5, 713 5, 580 5, 482 5, 797 6, 154 6, 492 7, 077 5, 313	470 455 447 367 375 417 415 444 474 444 493 489	469 499 500 476 490 504 497 504 575 583 573 621	615 585 693 662 707 730 687 791 866 886 979 1,039	1,071 1,060 1,091 1,194 1,183 1,275 1,320 1,390 1,472 796	

¹ Call loans, \$5,238,000,000; time loans, \$871,000,000.

LOANS TO BROKERS AND DEALERS IN SECURITIES MADE BY REPORTING MEMBER BANKS IN NEW YORK CITY [In millions of dollars. Monthly data are averages of weekly figures]

	To	tal			For b	anks		ĺ	For o	thers
Date or month	1928	1929	Tot	tal	In New Cit		Outsid York		1928	1929
			1928	1929	1928	1929	1928	1929		
Date: 1										
Aug. 7	4, 274	6,020	2,388	2,878	860	1,089	1,528	1, 789	1,885	3, 143
Aug. 14	4, 223	5, 952	2,342	2,775	783	965	1,559	1,810	1, 881	3, 178
Aug. 21	4, 201	6,085	2,342 2,322	2,713	809	926	1, 513	1,787	1,880	3,372
Aug. 28		6, 217	2,328	2,749	793	992	1, 535	1, 756	1, 907	3, 468
Sept. 4.		6, 354	2,429	2,888	907	1, 103	1, 522	1,784	1, 861	3, 467
Sept. 11		6, 474	2, 464	2, 858	865	1,017	1, 599	1,841	1, 921	3, 616
Sept. 18		6, 569	2, 559	2,944	925	1,046	1,634	1,897	1, 911	3, 626
Sept. 25		6, 761	2, 524	2, 900	850	1,024	1,674	1,876	2,001	3,860
Oct. 2	4, 570	6,804	2,612	2,897	930	1,071	1,682	1,826	1,958	3,907
Oct. 9	4, 590	6, 713	2,582	2,772	867	973	1,715	1,799		
Oct 10	4, 590	6, 801	2, 623	2,926	890	1,095		1, 799	2,008	3,941 3,875
Oct. 16	4,004		2,023				1,733		2,041	3,875
Oet. 23	4,772	6,634	2,694	2,810	957	1,077	1, 737	1,733	2,078	3,823
Oct. 30	4,907	5, 538	2, 753	3,074	1,021	2,069	1,732	1,005	2, 154	2, 464
Month:		- 400	0.010	0.074						1
January	3,802	5, 408	2,812	2, 974	1, 342	1, 173	1, 470	1,801	990	2, 434
February	3, 784	5, 555	2,667	2, 899	1, 167	1,082	1,500	1,817	1, 117	2,656
March	3,761	5,679	2, 514	2,800	1,064	1,071	1, 450	1,729	1, 247	2, 879
April	4,062	5, 477	2,809	2,583	1, 193	934	1,616	1, 649	1, 252	2,893
May	4, 414	5, 491	2,900	2,526	1, 272	861	1,628	1,665	1,514	2,968
June	4,360	5, 383	2,616	2,443	1,048	895	1,568	1, 548	1,744	2,940
July	4, 232	5, 841	2,472	2.849	929	1, 198	1, 543	1,651	1,760	2, 992
August	4, 239	6,069	2, 357	2,778	835	993	1, 522	1,786	1,881	3, 290
September	4, 417	6,540	2, 494	2,898	887	1,048	1, 607	1,850	1, 924	3, 642
October.	4, 701	4 6, 498	2, 653	2,896	933	1, 257	1, 720	1,639	2, 048	3, 602
November	5, 102	5, 100		2,000	1, 105		1,749		2, 248	0,002
December	5, 193				1, 114		1,760		2, 319	

Dates for 1929; corresponding dates for 1928 are slightly later.
 Weekly reporting member banks in New York City.

³ Member and nonmember banks outside New York City (domestic banks only); includes unknown amount for customers of these banks.
⁴ Call loans, \$6,082,000,000; time loans, \$416,000,000.

COMMODITY PRICES, SECURITY PRICES, AND SECURITY ISSUES

WHOLESALE PRICES, BY COMMODITY GROUPS:

[1926=100]

September 10	98. 9 10 100. 1 10		Hides and leather products	Textile products	Fuel and lighting	Metals and metal products	Building materials	Chemi- cals and drugs	House- furnish- ing goods	Miscel- laneous	Nonagri- cultural commod ities
September 10	100.1			96. 3	04.6						
November 9	96. 7 16 96. 7 16 97. 2 16 97. 5 16 97. 5 16 96. 8 16 96. 8 16 96. 4 16 98. 0 16	03. 5 102. 3 100. 1 100. 1 100. 1 100. 1 0 100. 5 9 98. 8 107. 1 98. 1 07. 1 98. 1 04. 9 97. 7 02. 2 97. 7 03. 3 98. 9 98. 9 07. 1 103. 1 103. 1	120. 7 117. 5 115. 5 115. 7 113. 6 109. 0 108. 3 107. 9 106. 8 108. 0 109. 2	95. 6 96. 1 96. 1 96. 1 96. 4 96. 1 95. 5 94. 2 93. 3 92. 8 93. 1	84. 9 84. 4 83. 5 82. 5 81. 3 80. 6 81. 1 83. 3 82. 9	100. 4 100. 5 101. 0 101. 7 102. 9 103. 6 104. 4 106. 4 105. 2 105. 1 105. 0 104. 3	94. 6 94. 7 95. 0 96. 0 96. 8 97. 5 98. 8 97. 9 96. 4 96. 4 96. 7	94. 7 95. 1 95. 6 96. 0 96. 1 95. 9 96. 1 95. 6 94. 2 93. 4 93. 7	97. 2 97. 2 96. 5 96. 4 96. 4 96. 6 96. 5 96. 7 96. 7 96. 7 97. 2	79. 3 79. 7 80. 3 80. 0 80. 1 80. 5 80. 4 80. 9 79. 6 80. 4 81. 3 81. 3	96.7 97.8 96.4 95.4 94.9 94.5 94.1 94.1 94.1 95.2

Index of Bureau of Labor Statistics.

PRICES OF FARM PRODUCTS AT THE FARM 1

[August, 1909-July, 1914=100]

Month	27 com- mod- ities	Grains	Fruit and vege- tables	Meat animals	Dairy and poultry prod- ucts	Cotton and cotton- seed	Un- classi- fied
1928 August September. October November. December.	139 141 137 134 134	120 117 116 110 112	137 127 114 109 108	162 174 160 150 143	136 145 150 155 159	153 142 147 146 148	87 85 83 86 90
1929 January February_ March_ April_ May June_ July_ August_ September_	133 136 140 138 136 135 140 143	115 123 124 120 113 111 122 129 131	109 111 112 110 119 120 136 160 160	146 150 160 164 164 163 167 165	149 148 144 138 137 137 137 141	148 149 155 152 148 146 145 146	92 91 90 88 86 85 85 86 85 86

¹ Index numbers of Department of Agriculture.

FOREIGN CAPITAL ISSUES

[In millions of dollars]

	Septe	mber.	Jai	nuary-S	septemb	er
Class of issue	19	29	1	929	19:	28
	Gov- ern- ment	Cor- po- rate	Gov- ern- ment	Cor- po- rate	Gov- ern- ment	Cor- po- rate
Total	13.7	14.1	237. 5	415. 1	716. 4	502. 5
New issue Europe Canada and Newfound-	11.8	14. 1 6. 7	220, 1 84, 1	399. 6 82. 5	614. 5 281. 5	378. 7 202. 9
landLatin AmericaUnited States insular	11.8	5.0	63. 3 70. 7	97. 4 49. 7	36. 5 233. 8	80. 4 23. 0
possessions Miscellaneous Refunding issues		2. 4	2. 0 	7, 7 162, 2 15, 5	6. 2 56. 5 101. 9	72. 4 123. 9
Total Government and corporate	27	.8	652	2. 6	1, 21	8. 9

SECURITY PRICES

	Con	ımon stock	cs 1 (1926=	100)	Bonds:
Month or week	405 stocks combined	338 indus- trials	33 rails	34 public utilities	Average price of 40 issues
1928—June	145.3	148, 2	126. 7	148. 1	97. 38
July	144. 2	147.8	124. 6	145. 3	96, 56
August	148.3	152. 6	126, 5	147. 9	95. 82
September	156.1	161.6	129. 7	155. 2	96. 47
October	159.1	166. 2	128. 2	154. 5	96, 58
November	169. 2	177.1	133. 7	165, 5	96, 90
December	172.9	180.0	135. 9	174. 7	96. 24
1929—January	183.6	191.4	141.0	188. 3	96, 12
February	186.8	192.4	142, 3	203. 1	95, 60
March	189.4	196.1	140.8	204. 4	94, 82
April	186, 6	193.4	138. 3	201. 4	94. 58
May	189. 7	195. 2	138. 7	213, 2	94, 46
June	188.6	189. 3	143.8	228. 1	93.49
July	207. 2	202.7	160.0	272. 8	93, 30
August	218.0	210.3	165. 4	303.4	92. 51
September	225. 2	216. 1	168, 1	321.0	92, 29
October	208. 5	201.0	159. 1	289. 2	92.68
Week ending-	l li				
Oct. 5	209.7	201.6	157.2	296, 1	92.04
Oct. 12	222. 1	213. 2	164, 2	316.8	92, 16
Oct. 19	215.4	208, 8	162.3	295. 4	92, 89
Oct. 26	186.9	180.4	152. 5	248.5	93, 61

¹ Index of common-stock market values (revised series) computed by Standard Statistics Co. from closing prices on Thursday.

DOMESTIC CAPITAL ISSUES

[In millions of dollars]

	Sente	mber,	Ja	nuary-8	Septemi	er
Class of issue		29	19	29	19	28
Chais of Issue	New	Re- fund- ing	New	Re- fund- ing	New	Re- fund- ing
Total	1, 298. 6	307. 1	7, 769. 4	1, 251. 8	4, 199. 3	1, 406. 8
Corporate issues Bonds and notes—	1, 200. 8	306. 6	6, 865. 6	1, 242. 9	3, 198. 7	1, 387. 5
Long term Short term	156. 6 15. 6	69.8	1, 545. 1 143. 3		1, 531. 7 157. 3	
Stocks Farm-loan issues	1,028.6	236.8	5, 177. 2		1, 509. 7 40. 1	388. 9
Municipal issues	97.8	. 5	903. 8	8. 9	960. 5	19.3
Total new and re- funding	1,60	5. 7	9, 02	21. 2	5, 60	06, 1

PRODUCTION, EMPLOYMENT, AND TRADE

[Index numbers of the Federal Reserve Board. Monthly average 1923-1925=100]

Y	Indus- trial	Produc- tion of manu-	Produc-	Factory employ-	Factory pay	Building awa	contracts rded	Freight car	Wholes trib	sale dis- ution	Depai store	tment-		tment- stocks
Year and month	produc- tion 1	fac- tures 1	miner- als ¹	ment 2 (*)	rolls 2 (*)	Unad- justed	Ad- justed	load- ings 1	Unad- justed	Ad- justed	Unad- justed	Ad- justed	Unad- justed	Ad- justed
ANNUAL INDEX														
1919	83	84	77	107	98	64		84	111		78		79	
1920	87	87	89	108	118	63		91	115		94		105	
1921	67 85	67 87	70 74	82 90	77 81	57 81		79 86	87 89		87 88		89 89	
1922 1923	101	101	105	104	103	84		100	100		98		98	
1924	95	94	96	96	96	95		98	98		99		101	
1925	104	105	99	100	101	122		103	102		103	[102	
1925	108	108	108	101	104	130		107	101 97		106		103	
1927	106 110	106 111	107 106	99 97	102 102	128 135		103 104	96		107 108		103 101	
	110	111	100	31	102	100		101			100		101	
MONTHLY INDEX						ļ				ļ ·				ļ
1925 June	102	102	101	98	99	137	128	101	95	100	99	101	98	101
July	104	104	104	98	97	133	128	101	97	102	75	100	94	101
August	103	102	107	100	99	149	135	105	112	102	78	101	98	102
September	102	104	89	102	99	138	135	102	117	102	94 1 3 0	102	107	103
October	105 107	108 109	90 94	$\frac{102}{102}$	105 105	129 116	125 127	100 105	123 102	106 102	130 114	111 104	112 115	101 102
December	109	111	93	102	106	129	145	106	92	98	178	106	97	103
1926														
January	107	109	92	101	101	111	143	102	95	104	88	105	93	105
February	107	109	95	102	106	106	145	104	96	103	81	104	98	104
March	108	108	104	103	107	146	129	104	106	101	101	101	107	104
April May	108 107	108 107	107 104	102 101	105 104	139 134	120 123	107 107	96 95	99 101	103 107	103 108	107 104	103 102
June	108	109	106	101	104	133	121	109	95	100	101	103	98	101
July	108	108	107	99	99	126	124	108	95	100	79	105	93	100
JulyAugust	111	111	109	101	104	148	133	108	111	101	83	107	97	101
September	112 111	112 111	110 114	103 103	105 108	137 126	134 122	109 109	118 111	103 96	101 123	109 109	107 114	102 104
October November	108	107	118	103	105	119	130	109	101	101	121	106	117	103
December	106	104	119	100	104	131	142	107	87	98	184	iio	96	102
1927							Ì					1		
January	107	105	116	98	99	94	120	105	88	95	89	106	93	104
February	109 112	107 110	118 118	100 100	105 106	96 151	131 134	109 108	91 102	97 98	83 100	107 105	98 107	103 103
March April	109	109	106	100	105	147	127	108	92	95	111	105	107	103
May	iii	112	108	99	104	135	122	106	91	97	102	103	104	102
June	109	109	105	99	102	154	141	104	91	96	102	103	98	101
JulyAugust	106 107	108 107	99 106	98 99	99 102	130 135	128 121	101 104	91 112	96 102	75 89	104 111	95 98	102 102
September	105	106	103	101	102	127	125	104	113	98	100	108	108	104
October	103	103	105	99	103	137	133	101	108	94	119	106	114	104
November	99	99	101	97	98	114	125	97 95	97	97 95	122 186	107 111	117 96	104 103
December	100	99	102	95	99	116	126	90	85	80	190	111	96	103
January	105	106	103	94	96	104	133	100	88	96	88	104	92	103
repruary	109	110	102	96	101	113	153	102	93	99	86	105	98	103
March)	109	110	103	97	103	144	128	102	100	96	103	104	105	101
April	109	110	105	96	100	157	135	104	88	92 99	102	103	106	101
April May June July	109 109	110 111	105 101	96 96	101 101	163 158	148 145	105 102	93 89	99	· 108	103 105	102 96	100 99
July	110	111	100	96	98	142	139	102	90	94	78	107	93	100
August	112	113	105	98	103	126	113	104	110	101	85	105	97	101
September October	114 114	115 114	107 114	100 100	104 107	143 145	140	106 106	111 112	96 97	107 124	119 105	103 112	99 102
November	112	112	113	99	107	115	141 126	104	99	99	122	106	115	102
December	113	114	112	98	104	105	116	103	84	95	189	116	94	100
1929		1	1]				ļ						
January	117	117	117	97	101	100	128	104	93	101	92	105	89	100
KODFIISPV	117	117	120 107	100	108	88	119	107	90	96 97	86	110	95	100 99
March April May June	119 122	121 123	115	101 102	111 112	118 156	104 135	103 111	101 96	100	110 104	113 105	102 103	99
May	123	124	116	102	112	143	130	111	96	102	110	107	101	99
June	126	128	112	101	109	133	122	108	91	96	106	112	95	98
August	124	125	114	101	105	159	156	108	.96	101	80	106	92	99
AUPUSE	123	124	115	102	109	119	107	109	113	103	7 90	112	96	100
September	p 121	» 122	₽ 118 l	103 1	111	108	106	108	114	99	109	123	103	99

¹ Adjusted to allow for seasonal variations. • Revised indexes; see pp. 706-716.

² Not adjusted for seasonal variations.

Preliminary.

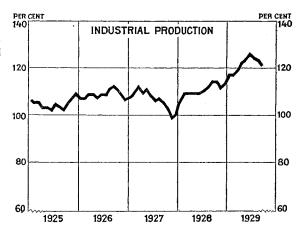
Revised.

INDUSTRIAL PRODUCTION

INDEX OF INDUSTRIAL PRODUCTION

[Index numbers, adjusted for seasonal variations. 1923-1925 average=100]

Month	1923	1924	1925	1926	1927	1928	1929
January	100	100	106	107	107	105	11
February	100	102	105	107	109	109	117
March	103	101	105	108	112	109	119
April	107	95	103	108	109	109	123
May	107	89	103	107	111	109	12
June	106	85	102	108	109	109	120
July	104	84	104	108	106	110	12
August	102	89	103	111	107	112	12
September	100	94	102	112	105	114	▶ 12
October	99	95	105	111	103	114	
November	98	97	107	108	99	112	
December	97	101	109	106	100	113	
Annual index	101	95	104	108	106	110	



INDEX OF PRODUCTION OF MANUFACTURES, BY GROUPS

	All manu- factures	Iron and steel	Textiles	Food products	Paper and printing	Auto- mobiles	Leather and shoes	Cement, brick, and glass	Non- ferrous metals	Petro- leum refining	Rubber tires	Tobacco manu- factures
May 1928 June July August September October November December	111 113 115 114	116 115 124 121 128 126 120 123	107 108 100 107 107 112 113 111	96 93 89 90 95 98 102 104	118 120 117 117 118 116 115	107 117 119 133 139 122 94 103	96 108 112 112 110 103 97 92	116 123 119 126 130 122 122 130	111 115 113 117 117 121 126 128	150 153 156 160 162 160 159 159	133 143 149 151 169 167 155 143	120 125 125 129 128 126 124
1929 January. February. March April May June July. August September	121 123 124 128 125 124	117 126 132 135 145 155 151 143 139	116 113 116 120 121 121 118 120 116	103 101 96 102 97 96 96 7 99 102	122 123 125 126 128 122 125 125 125	154 152 163 157 151 166 146 146 136	95 98 99 97 101 113 7 114 7 116 116	134 123 136 127 124 134 138 142 143	124 123 129 137 137 126 127 122 126	159 161 160 166 168 170 171 176 174	147 152 152 161 159 162 141 114	131 129 126 142 142 139 131 133 143

INDEX OF PRODUCTION OF MINERALS, BY PRODUCTS

	All min- erals	Bitumi- nous coal	Anthracite coal	Crude petroleum	Iron ore shipments	Copper	Zinc	Lead	Silver
1928									
May	105	93	112	120	80	110	113	101	85
June	101	91	76	118	107	110	117	100	93
July	100	93	67	119	104	113	117	97	76
August	105	91	94	123	104	116	120	107	87
September	107	94	95	124	110	123	114	115	79
October	114	99	119	127	114	128	110	108	79
November	113	99	113	127	106	131	111	111	93
December	112	96	98	132		133	106	109	100
1929						Į			
January	117	103	110	138		129	100	111	93
February	120	109	110	138		136	106	99	91
March	107	89	77	134		135	112		93
April	115	100	95	133		141	116		103
May	116	102	86	135	143	139	120	122	93
June	112	100	76	136	126	124	122	112	94
July	114	101	72	144	119	122	125	114	88
August	115	97	81	146	121	119	127	r 107	r 106
September	p 118	101	106	141	121	124	124	119	80

Preliminary.

Note.—These tables contain, for certain months, index numbers of industrial production, together with group indexes for important components. The combined index of industrial production is computed from figures for 60 statistical series, 52 of manufactures, and 8 of minerals. 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. Revisions of figures from 1923 to 1928 were published in the Bulletin for March, 1929, pp. 192-194.

r Revised.

PRODUCTION OF MANUFACTURES, BY INDIVIDUAL LINES:

	Septem- ber, 1929	August, 1929	Septem- ber, 1928		Septem- ber, 1929	August, 1929	Septem- ber, 1928
Iron and steel:				Leather and products:			
Pig iron	121	128	107	Leather, tanning-			
Steel ingots	141	144	130	Sole leather 1	95	93	107
Textiles:		1	i	Upper leatner—			
Cotton consumption	115	119	106	Cattle	87	80	71
Wool-		ŀ		Calf and kip	103	108	99
Consumption	106	114	96	Goat and kid	144	136	150
Machinery activity 1	90	86	84	Boots and shoes	122	125	112
Carpet and rug loom activity 1.	90	90	85	Stone, clay, and place.			
Silk-			1	Cement.	118	122	123
Deliveries	158	161	145	Face brick			131
Loom activity 1	128	130	117	Plate glass	174	168	135
Food products:]	Nonferrous metals:		200	
Slaughtering and meat packing—		ĺ		Copper	127	126	118
Hogs	106	94	86	Lead	119	r 107	115
Cattle	9ĭ	88	92	Zinc	124	127	114
Calves	99	85	94	Tin 1	131	121	121
Sheep	126	126	125	Chemicals and allied products:	101	121	1
Flour	114	99	96	Petroleum refining—			!
Sugar meltings	84	112	111	Gasoline 1	208	209	188
Paper and printing:	01	112	411	Kerosene	95	108	103
Wood pulp and paper.			l	Fuel oil 1	141	142	139
Wood pulp and paper— Newsprint	94	95	90	Lubricating oil 1	123	131	122
Dook paper	94	134	124	Calma mus danati an	140	191	122
Book paper		118	114	By-product	148	152	132
Fine paperWrapping paper		101	102	Beehive.	56	±63	735
Wrapping paper	126	130	123	Declive	90	, 03	, 99
Paper board Wood pulp, mechanical	120	101	106	Rubber tires and tubes:	100	110	176
wood purp, mechanical		120	111	Tires, pneumatic	120	118	
Wood pulp, chemical	181			Inner tubes	90	87	119
Paper boxes		r 171	148	Tobacco products: Cigars	101		101
Newsprint consumption		135	130	Ulgars	101	99	101
Lumber: Flooring				Cigarettes	178	163	152
r 100ring	93	89	123	Manufactured tobacco and snuff	99	94	93
Transportation equipment: Automobiles	***						
Automobiles	136	r 146	139		j		
Locomotives	49	55	22		1		
Shipbuilding			95	1			

¹ Without seasonal adjustment.

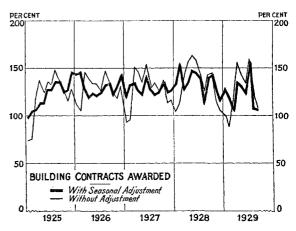
r Revised.

BUILDING

BUILDING CONTRACTS AWARDED

[Index numbers based on value of contracts. Monthly average,

Month	w	ithout adjus	seasor tment	nal	With seasonal adjust- ment					
Mouth	1926	1927	1928	1929	1926	1927	1928	1929		
January	111	94	104	100	143	120	133	128		
February	106	96	113	88	145	131	153	119		
March	146	151	144	118	129	134	128	10		
April	139	147	157	156	120	127	135	13		
May	134	135	163	143	123	122	148	13		
une	133	154	158	133	121	141	145	12		
uly	126	130	142	159	124	128	139	15		
August	148	135	126	119	133	121	113	10		
September	137	127	143	r 108	134	125	140	*10		
October	126	137	145	109	122	133	141	10		
November	119	114	115		130	125	126	l		
December	131	116	105		142	126	116			
Annual index	130	128	135							



BUILDING CONTRACTS AWARDED, BY FEDERAL RESERVE DISTRICTS

[Value of contracts in thousands of dollars]

•		Federal Reserve District										
Month	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas
1928 September October November December 1929 January February	587, 674 597, 104 471, 482 432, 756 409, 968 361, 274 484, 848	69, 918 39, 521 29, 154 26, 405 26, 556 25, 352	156, 588 189, 696 136, 525 140, 159	45, 634 46, 098 28, 017 32, 082 26, 306 32, 369 35, 399	67, 748 57, 118 56, 684 31, 755 54, 680 36, 360	39, 843 40, 329 33, 621 29, 973 28, 748 34, 252	25, 989 36, 097 18, 550 23, 362 25, 745 22, 363	99, 176 110, 795 99, 429 76, 924 77, 439 69, 845	33, 241 32, 409 27, 302 31, 378 25, 479 23, 372	9, 213 12, 645 7, 896 5, 886 7, 466 4, 757 8, 343	22, 611 15, 699 13, 908 16, 511	17, 715 16, 697 20, 397 18, 323 17, 435 23, 665
April April June July August September	642, 061 587, 766 545, 891 652, 436 488, 882 445, 402	30, 044 38, 459 41, 095 33, 050 39, 515 30, 836 32, 411	113, 466 171, 551 125, 125 110, 180 222, 993 97, 130 83, 109	67, 064 37, 809 38, 327 33, 928 24, 902 35, 047	47, 078 51, 469 64, 736 53, 011 59, 937 62, 111 64, 140	32, 979 52, 139 37, 072 34, 431 51, 364 29, 414 22, 712	25, 398 37, 387 33, 578 46, 110 31, 802 46, 637 17, 768	107, 289 108, 181 141, 450 134, 832 106, 374 100, 433 102, 562	38, 795 54, 363 41, 020 41, 848 38, 682 39, 224 39, 465	14, 735 17, 309 11, 835 11, 667 11, 465 10, 346	22, 854 22, 365 23, 955 19, 654 24, 659 24, 802 20, 883	23, 204 24, 346 24, 616 22, 614 31, 515 21, 929 16, 960

BUILDING CONTRACTS AWARDED, BY TYPES OF BUILDING

[Value of contracts in thousands of dollars]

Month	Resi- dential	Indus- trial	Com- mercial	Public works and public utilities	Educa- tional	All other	
1928 August September October November December 1929 January February March April May		42, 607 114, 780 62, 259 38, 665 38, 248 63, 109 56, 092 55, 837 68, 230 80, 769	58, 911 60, 068 67, 330 68, 309 66, 773 100, 378 68, 265 75, 584 77, 988 86, 471	118, 890 119, 014 148, 697 93, 228 80, 194 66, 522 57, 593 71, 508 152, 127 139, 388	35, 713 38, 801 31, 293 30, 023 25, 370 17, 746 22, 577 37, 525 29, 857 38, 195	47, 144 52, 205 47, 833 41, 032 43, 849 24, 145 27, 261 47, 221 57, 079 50, 928	
June July August September	189, 809 199, 926 146, 088 118, 381	70, 036 66, 604 75, 265 52, 640	80, 884 91, 348 71, 955 76, 921	120, 841 194, 547 119, 288 117, 229	43, 417 47, 979 32, 349 29, 826	40, 904 52, 032 43, 937 50, 405	

BUILDING PERMITS ISSUED, BY FEDERAL RESERVE DISTRICTS

[Value of permits in thousands of dollars]

Federal reserve district	Number of cities	Septem- ber, 1929	August, 1929	Septem- ber, 1928
United States	168	169, 474	199, 120	217, 620
Boston	14	4, 203	11, 668	8, 438
New York		53, 694	61, 626	72, 05€
Philadelphia		6, 261	9, 261	11, 100
Cleveland	12	14,209	16, 742	15, 62
Richmond	15	8,804	8,849	13, 220
Atlanta	15	5, 456	6, 286	8, 28
Chicago		32, 687	39, 960	42, 85
St. Louis	5	5, 329	5, 009	6, 06
Minneapolis	9	3,686	4, 156	4, 42
Kansas City	14	9,701	8,798	8, 02
Dallas	9	5, 693	7, 353	5, 62
San Francisco		19,752	19, 412	21, 90

Note.—Figures for building contracts awarded are for 37 States east of the Rocky Mountains, as reported by the F. W. Dodge Corporation. Adjusted indexes by months back to 1910 were published in the Bulletin for August, 1927, p. 563.

Revised.

r Revised.

TRADE AND DISTRIBUTION

FREIGHT-CAR LOADINGS, BY LINES

Index numbers adjusted for seasonal variations. 1923-1925=100]

Month	Total	Grain and grain prod- ucts	Live- stock	Coal	Forest prod- ucts	Mer- chan- dise l. c. l. and miscel- lane- ous
1928—September	106	109	93	100	90	111
October	106	107	91	102	91	111
November	104	108	82	105	92	107
December	103	105	85	102	91	108
1929-January	104	99	82	108	90	109
February	107	106	82	118	80	109
March	103	103	81	89	87	111
April	111	98	90	102	94	114
Мау	111	99	86	103	98	114
June	108	113	79	98	92	112
July	108	132	80	94	92	112
August	109	109	78	100	94	113
September	108	91	86	106	88	113
-	1	1	1	i	1	1

DEPARTMENT STORE SALES AND STOCKS

[Index numbers. Monthly average 1923-1925=100]

(22402 244							
The description	Num-		out sea: justme			h seaso: justmer	
Federal reserve district	ber of stores	19	29	1928	19	29	1928
		Sept.	Aug.	Sept.	Sept.	Aug.	Sept.
SALES							
United States	523	109	r 90	107	123	112	119
Boston	38	98	83	97	114	111	113
Boston New York	64	118	82	111	136	117	127
Philadelphia	60	84	69	89	104	r 95	109
Cleveland	59	101	92	101	114	109	114
Richmond	29	103	81	96	122	113	114
Atlanta	44	97	85	98	112	110	112
Chicago	105	128	100	124	136	122	132
St. Louis	19	120	87	107	123	113	110
Minneapolis	20	97	86	99	102	96	104
Kansas City 1	27	105	85	102			
Dallas	22	110	85	112	112	116	113
San Francisco	36	113	120	113	127	122	1.27
STOCKS	i						
United States	433	103	96	103	99	100	99
Boston	38	97	87	98	94	94	94
New York	45	109	101	106	104	106	101
Philadelphia Cleveland	47	88	r 80	92	85	₹ 85	88
Cleveland	53	98	90	100	94	95	96
Richmond	29	98	89	102	93	97	97
Atlanta	31	98	93	104	93	95	98
Chicago	81	119	113	114	113	7 116	107
St. Louis	19	97	90	98	91	90	93
Minneapolis	16	74	71	84	71	72	80
Kansas City 1	21	125	119	123			
Dallas	21	89	81	88	82	79	81
San Francisco	32	107	102	106	103	103	102

¹ Monthly average 1925=100. Index described in BULLETIN for February, 1928.

r Revised.

INDEX OF WHOLESALE DISTRIBUTION-EIGHT LINES [Monthly average, 1923-1925=100]

Month		ithout s ljustmer		Sales with seasonal adjustment					
2/20242	1927	1928	1929	1927	1928	1929			
January	88	88	93	95	96	101			
February	91	93	90	97	99	96			
March	102	100	101	98	96	97			
April	92	88	96	95	92	100			
May	91	93	96	97	99	102			
June	91	89	91	96	92	91			
July	91	90	96	96	94	101			
August	112	110	113	102	101	103			
September	113	111	114	98	96	99			
October	108	112		94	97				
November	97	99		97	99				
December	85	84		95	95				
Annual average	97	96							

SALES IN INDIVIDUAL LINES OF WHOLESALE TRADE

[In	dex nui	nbers.	Month	ly aver	age, 192	3-1925=	100]	
Month	Gro- ceries	Meats	Dry goods	Men's cloth- ing	Boots and shoes	Hard- ware	Drugs	Fur- niture
		•	Withou	t season	al adju	stment		
1928 September	100	130	105	137	110	100	119	126
October	108	125	99	123	108	108	134	133
November	100	117	90	66	105	98	114	106
December	88	108	69	51	59	86	120	89
1929								
January	91	117	84	74	98	82	131	80
February	83	113	84	114	84	76	105	91
March	90	117	92	136	110	95	119	105
April	92	115	80	85	100	99	118	101
May	96	121	78	60	113	98	111	99
June	95	122	70	49	90	97	105	93
July	99	123	74	69	110	95	111	7.88
August	101 102	120 128	111 109	156 139	130 129	99 105	121 124	117 130
September	102	128	109	199	129	105	124	190
			With	seasonal	l adjust	ment		
1928		1	1	Ī		Ī	1	i
September	92	122	84	89	90	92	112	112
October	95	111	85	99	87	97	116	112
November	94	122	91	95	100	100	113	101
December	89	115	86	101	72	93	128	94
1929				i				_
January	99	117	88	96	119	92	133	91
February	95 91	119 122	83 88	88 98	107	86	114	9
March	96	122	90	88	95 95	92 97	108 116	10
April May	99	121	89	101	112	96	118	10
June	93	120	79	96	96	93	112	710
July		121	80	80	138	97	117	10
August		118	91	95	118	98	124	11
September	93	120	88	91	106	97	116	113
-	1	}	}	1	1	1	i	t

Index described in BULLETIN for December, 1927.

SALES OF CHAIN STORES

[Index numbers of sales. Monthly average 1923-1925=100]

Chains	Num- ber of	Nu	mber of ste	ores		thout seas justment ¹	onal ad-	Sales wi	th seasona ment 1	l adjust-
Chains	report- ing firms	Septem- ber, 1929	August, 1929	Septem- ber, 1928	Septem- ber, 1929	August, 1929	Septem- ber, 1928	Septem- ber, 1929	August, 1929	Septem- ber, 1929
Grocery 5-and-10 cent	34 14 13 7	30, 134 3, 534 1, 267 (²)	30, 129 3, 503 71, 253 737	29, 308 3, 126 1, 020 674	216 147 200 (²)	233 161 • 214 134	202 144 164 131	240 168 215 (2)	245 174 7 214 161	224 165 177 146

¹ Figures relate to reporting firms—with no adjustment to eliminate the influence of increase in the number of stores operated; [thus indexes given reflect the full growth of the business of the reporting companies.

² Not available.

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]

				(inds of units					
			Co	rn	Total	wheat	Spring	wheat	Winter	wheat
Federal re	serve distric	t	Production, 1928	Estimate, Oct. 1, 1929	Production, 1928	Estimate, Oct. 1, 1929	Production, 1928	Estimate, Oct. 1, 1929	Production, 1928	Estimate, Oct. 1, 1929
Boston			Bushels 8,890	Bushels 9, 343	Bushels	Bushels	Bushels 96	Bushels 116	Bushels	Bushels
New York			25 884	24, 511	5, 506	5, 636	173	134	5, 333	5, 502
Philadelphia Cleveland Richmond			45, 500	42, 214	16, 140	18, 761	85	71	16, 055	18, 690
Cleveland			174, 381	165, 452	13, 167	38, 638	164	109	13, 003	38, 529
Richmond			139, 133	140, 968	25, 880	26, 352			25, 880	26, 352
Atlanta	•		137, 350 1, 017, 822	170, 654 867, 992	4, 392 42, 993	4, 460 62, 964	0 500	4,622	4, 392	4, 460 58, 342
Chicago			358, 882	300, 449	30, 699	62, 964 45, 785	6, 582 724	4,622	36, 411 29, 975	45, 358
St. Louis			282, 101	283, 060	279, 572	178, 829	263, 069	166, 155	16, 503	12, 674
Kansas City			520 235	412, 395	334, 956	262, 816	14, 716	13, 853	320, 240	248, 963
Dallas		· • • • • • • • • • • • • • • • • • • •	114, 742	100, 956	23, 064	36, 043	188	343	22, 876	35, 700
San Francisco			10, 758	10, 083	125, 726	111, 368	38, 261	37, 705	87, 465	73, 663
Total			2, 835, 678	2, 528, 077	902, 191	791, 768	324, 058	223, 535	578, 133	568, 233
	Os	ats	Tam	e hay	Tob	acco	White	potatoes Cotton		ton
Federal reserve district	Production, 1928	Estimate, Oct. 1, 1929	Production, 1928	Estimate, Oct. 1, 1929	Production, 1928	Estimate, Oct. 1, 1929	Production, 1928	Estimate, Oct. 1, 1929	Production, 1928	Estimate, Oct. 1, 1929
Boston	Bushels 7, 921	Bushels 9, 170	Tons 4, 996	Tons 5, 063	Pounds 38, 915	Pounds 35, 091	Bushels 47, 672	Bushels 54, 819	Bales	Bales
New York		26, 744	6, 811	7, 033	1, 317	1, 100	36, 991	27, 820		
Philadelphia	21,770	19, 968	3, 353	2, 999	49, 580	45, 708	30, 208	22, 037		
Cleveland	106, 377	66, 377	5, 940	7,046	117, 608	138, 067	23, 511	20, 012		
Richmond		27, 636	4, 426	4, 410	713, 590	736, 571	48, 361	34, 274	1,606	1, 74
Atlanta		14, 591	2, 986	3, 059	157, 057	177, 931	14, 843	11, 306	2, 758	3, 394
Chicago	624, 072	502, 829	16, 781	23, 163	49,005	42, 406	76, 982	46, 261	1 2, 715	9 0 00
St. Louis	66, 278 321, 611	47, 406 278, 381	7, 573 12, 026	8, 922 11, 454	243, 978	289, 423	19, 510 75, 449	12, 865 44, 881	1 2, 715	2 3, 291
Kansas City	158, 774	150, 459	12, 026	11, 454	4, 141 2, 948	3, 464 2, 764	40, 120	31, 023	1, 147	1, 227
Dallas	37, 983	46, 057	1, 281	1, 374	2, 340	2,109	3, 747	3, 256	5, 946	4, 889
San Francisco	35, 230	36, 955	14, 429	14, 484			47, 089	36, 623	306	378
Total	1, 448, 677	1, 226, 573	92, 983	100, 582	1, 378, 139	1, 472, 525	464, 483	345, 177	14, 478	14, 915

¹ Includes 7,000 bales grown in miscellaneous territory.

² Includes 11,000 bales grown in miscellaneous territory.

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, p. 396]

Month	Total (40 coun- tries) 1	United States 2	Ar- gen- tina	Aus- tra- lia	Bel- gium	Bra- zil ⁴	Can- ada	Eng- land 6	France	Ger- many	In- dia	Italy	Ja- pan *	Neth- er- lands	Rus- sia	Spain	Swit- zer- land	24 other coun- tries
1926—December 1927—December	9, 185 9, 536	4, 083 3, 977	451 529	107 105	86 100	56 101	158 152	735 742	711 954	436 444	109 119	221 239	562 542	166 161	85 97	493 502	91 100	634 672
June	9, 748 9, 840 9, 879 7 9, 925 9, 944 9, 990 10, 032 10, 054 10, 103 10, 136 10, 149 10, 235 p10, 265	3, 732 3, 737 3, 749 3, 752 3, 769 3, 754 3, 746 3, 776 3, 889 3, 931 3, 995 3, 974 3, 995 3, 908 94, 022	622 622 621 621 611 610 607 605 603 585 569 564 527 513 507 9496	109 110 110 107 107 108 109 110 110 116 117 118 123 126	111 112 112 113 115 126 126 126 134 134 134 134 134 141 141	140 140 143 143 146 148 149 150 150 151 151 151 151 151	104 98 101 106 108 133 114 79 78 78 78 78 76 76 77	838 857 856 843 803 778 750 744 736 748 762 795 780 694 670 648 \$ 643	1, 136 1, 173 1, 190 1, 200 1, 207 1, 239 1, 254 1, 333 1, 334 1, 340 1, 403 1, 436 1, 462 1, 545 * 1, 562	496 524 536 571 603 625 650 650 650 639 451 420 455 512 527 \$31	119 119 119 119 124 128 128 128 128 128 128 128 128 128	259 263 266 266 266 266 266 270 270 270 271 271 271 272	541 541 541 541 541 541 541 542 542 542 542 542 541 541	175 175 175 175 175 175 175 175 176 176 181 178	80 85 75 76 82 92 92 92 92 93 93 103 119 132	503 503 503 504 494 494 494 494 494 494 495 495	86 86 87 90 91 91 103 93 93 95 96 96 98 98	694 698 699 701 702 702 703 706 701 699 692 694 \$\sigma 696

Revised.

Preliminary, based on latest available figures.

All countries for which satisfactory figures are available; see explanation in Bulletin for April, 1929 (p. 263), where separate figures for each country are given by years back to 1913. The 16 countries for which figures are here shown separately by months include all those which have held gold in recent years to the amount of \$90,000,000 or more.

Treasury and Federal reserve banks.

* Government conversion fund and Bank of the Nation.

* Bank of Brazil and stabilization fund.

* Includes gold held by Government against Dominion notes and savings bank deposits, and such gold as is held by chartered banks in the central reserve.

• Gold held by Bank of England.

* Currency and gold standard reserves.

* Domestic holdings of Bank of Japan and the Japanese Government

GOLD MOVEMENTS

[In thousands of dollars]

	Un	ited Sta	tes		German	у	Gr	eat Brit	ain	N	etherian	ds	South Africa	India
Month	Im- ports	Ex- ports	Net	lm- ports	Ex- ports	Net	Im- ports	Ex- ports	Net	Im- ports	Ex- ports	Net	Net	Net
1929 January	48, 577 26, 913 26, 470 24, 687 24, 097 30, 762 35, 525 19, 271	1, 425 1, 635 1, 594 467 550		1, 338 1, 701 1, 768 1, 946	764 804 223, 247 781 681 716	672 574 897 -221, 480 1, 165 6, 812 7 48, 012 1 26, 849 9, 088	11, 844 12, 347 25, 734 16, 144 28, 284 21, 085 22, 578 17, 226 18, 301	21, 383 7, 746 3, 714 4, 652 40, 001 100, 479 59, 278	17, 987 12, 430	133 165 4,338 190 129 103	14 6 14, 320 2 23 17 8 2, 522	490 175 -14, 187 163 4, 315 173 121 -2, 419 63	-16, 607 -17, 848 -21, 542 -15, 871 -17, 975 -22, 625 -14, 816 -20, 981 -15, 375	4,730 7,700 13,063 6,580 6,076 3,596 4,164 2,771

Revised.

MOVEMENTS TO AND FROM GREAT BRITAIN [In thousands of dollars]

		19	29		19)28		
From or to—	Septe	mber		y-Sep- ber	Calendar year			
!	Im- ports	Ex- ports	Im- ports	Ex- ports	Im- ports	Ex- ports		
France	155	20, 959	1, 533	109, 313	912	97, 178		
Germany		7,624	3, 194	88, 205	258	102, 423		
Netherlands		124	14, 382	1,435	145	7,081		
Russia				l	18, 582			
Spain and Canaries.		22	4	330	9,733	199		
Switzerland		1, 237	l	8, 473		13, 493		
United States		9,053	64	61, 293	32, 532	32, 132		
South America	994		8,971		1.166	1,074		
British India		784		8, 027		10,770		
British Malaya		33		1,812	71	1,810		
Egypt		267		3, 183	1,309	1, 384		
Rhodesia	345		3, 405		5, 280			
Transvaal	16, 435		133, 127		144, 482			
West Africa	309		3,029	8	3,384	16		
All other countries	62	1, 179	5, 835	24, 347	14,803	26, 978		
Total	18, 301	41, 283	173, 543	306, 427	232, 658	294, 539		

MOVEMENTS TO AND FROM BRITISH INDIA

[In thousands of dollars]

		19	1928				
From or to-	Jt	ıly	Januar	y-July	Calendar year		
	Im- ports	Ex- ports	Im- ports	Ex- ports	Im- ports	Ex- ports	
England	545		7, 643 22		11,071 4,086		
cies Arabia British Oceania	50 215 330		572 810 1, 923		910 870 5,067	6	
Bahrein Islands Ceylon China	8 447 25		2, 209 133	1	285 720 153		
Mesopotamia Straits Settlements Egypt Natal	180 625		1, 460 17 4, 414	18	1,543 200 6,714	48	
All other countries	1,738		26, 634 5	15	44, 387	44	
Total	4, 164		45, 943	33	76,007	99	

CONDITION OF CENTRAL BANKS

[Figures are for the last report date of month]

	1929		1928	928		1929			
	Sep- tember	August	July	Sep- tember		Sep- tember	A ugust	July	Sep- tember
Bank of England (millions of pounds sterling): Issue department— Gold coin and bullion Notes issued	391. 9 1. 3 30. 9	136. 4 396. 4 1. 3 32. 3 73. 3	141. 4 4c 4 1. 2 29. 6 62. 3	170. 6 190. 3 2. 6 55. 8 31. 7	National Bank of Belgium (millions of belgas): Gold Foreign bills and balances in gold. Domestic and foreign bills Loans to State Note circulation Deposits.	1, 023 551 748 343 2, 628 90	1, 014 566 797 348 2, 624 159	1, 012 451 781 347 2, 554 100	807 505 584 377 2, 220 116
Other securities Discounts and advances Public deposits Bankers deposits Other deposits Reserve ratio (per cent) Bank notes in circulation 1 Currency notes and certificates	22. 2 3. 2 14. 7 57. 0	22. 3 3. 8 20. 5 58. 0 36. 1 29. 3 364. 0	24. 2 10. 0 11. 1 60. 3 37. 7 28. 2	\ \ 41.6 \\ 9.7 \\ 103.7 \\ 51.5 \\ 78.2 \\ 293.9 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	National Bank of Bulgaria (millions of leva): Gold	1,614	1, 387 1, 111 1, 638 1, 532 3, 546 4, 121 2, 164	1, 379 1, 226 1, 630 1, 537 3, 546 3, 974 2, 309	1, 312 969 1, 155 4, 371 4, 501 2, 073
Bank of France (millions of francs); Gold	66, 639	38, 930 7, 248 18, 587 11, 888 5, 612 66, 468 13, 444 6, 175	37, 300 7, 325 18, 524 10, 782 5, 769 64, 135 12, 179 7, 420	30, 623 12, 692 18, 473 6, 173 5, 930 62, 654 10, 960 5, 169	Central Bank of Chile (millions of pesos): Gold at home Deposits abroad Loans and discounts Note circulation Deposits	63 471 77 339 211	63 384 81 341 120	62 430 71 352 146	61 530 11 309 200
German Reichsbank (millions of reichsmarks): Gold reserve	2, 062 150 335	2, 034 150 308 2, 834 434 4, 897 440	1, 999 150 334 2, 798 516 4, 726 443	2, 311 86 179 2, 691 503 4, 830 577	Bank of the Republic of Colombia (thousands of pesos): Gold at home. Gold abroad. Loans and discounts. Note circulation. Deposits. Czechoslovak National Bank (mil-	24, 957 22, 722 15, 360 41, 862 9, 941	26, 233 24, 347 13, 867 43, 309 10, 496	26, 036 29, 371 11, 316 45, 485 9, 996	24, 651 41, 291 5, 988 49, 851 11, 903
Rentenmarks in circulation Bank of Italy (millions of lire): Gold at home	5, 176 5, 604 5, 433 16, 916	5, 160 4, 971 5, 402 16, 701 300 1, 632	5, 159 4, 936 5, 220 16, 887 300 1, 772	5, 052 6, 594 4, 414 17, 476 300 2, 561	lions of Czechoslovak crowns): Gold and silver Foreign balances and currency Loans and advances Assets of banking office in liquidation Note circulation Deposits	1, 205 1, 838 1, 147 392 7, 697 475	1, 205 1, 757 953 396 7, 500 345	1, 207 1, 696 918 397 7, 321 425	1, 159 2, 092 473 450 7, 806 590
Bank of Japan (millions of yen): Gold	1, 062 770 194 1, 286 837	1, 062 768 211 1, 334 808	1, 062 755 210 1, 266 867	1, 063 868 188 1, 308 916	Danish National Bank (millions of kroner): Gold	173 94 70 353 30	173 105 70 361 37	173 92 79 351 38	173 99 85 360 32
Commonwealth Bank of Australia (thousands of pounds sterling): Issue department— Gold coin and bullion Securities. Banking department— Coin, bullion, and cash Money at short call in Lon-	18, 272 2, 504	23, 206 18, 331 2, 164	22, 721 18, 832 1, 459	1, 406	Bank of Danzig (thousands of Danzig gulden): Balances with Bank of England. Foreign bills, etc. Loans and discounts. Note circulation. Deposits.	12, 360 22, 926 39, 494	16, 200 13, 418 23, 427 39, 688 1, 717	16, 429 13, 263 22, 108 38, 263 1, 882	15, 372 22, 086 22, 987 38, 651 2, 659
don	36, 558	8, 538 12, 719 15, 125 37, 258 38, 005	10, 053 11, 042 14, 375 35, 224 37, 528	11, 182 11, 766	Bank of Estonia (thousands of krones): Gold Net foreign exchange. Loans and discounts Note circulation.	6, 350 21, 025 26, 356 35, 791	6, 338 20, 808 26, 075 34, 343	6, 328 19, 725 26, 165 33, 089	10, 045 25, 943 26, 522 39, 564
Austrian National Bank (millions of schillings): Gold Foreign exchange of the reserve Other foreign exchange Domestic bills Government debt Note circulation Deposits	357 289 110	169 231 383 226 110 1,046	169 217 365 247 110 1,047	134 298 327 120 166 1,008	Deposits— Government. Bankers. Other. 1 Ratio of gold and notes in banking 1 Notes issued, less amounts held in rency note account.	9, 121 4, 420 1, 958	10, 117 3, 959 1, 657 ment to d	9, 820 4, 187 2, 054 leposit li	15, 803 1, 346 5, 038 iabilities.

CONDITION OF CENTRAL BANKS—Continued

[Figures are for the last report date of month]

	1929		1928		1929			1928	
	Sep- tember	August	July	Sep- tember		Sep- tember	August	July	Sep- tember
Bank of Finland (millions of Finnish marks): Gold Balances abroad and foreign credits Foreign bills. Domestic bills. Note circulation Demand liabilities	302 547 19 1, 290 1, 440 146	301 520 20 1, 352 1, 448 178	301 505 10 1,369 1,439 194	307 601 77 1, 183 1, 599 182	Bank of Poland (millions of zlotys): Gold at home Gold abroad Foreign exchange of the reserve Other foreign exchange Loans and discounts Note circulation Current account of the treasury Other current accounts.	432 232 422 96 805 1,354 282 157	432 219 441 84 796 1,359 269 145	432 195 444 82 782 1, 293 286 154	408 195 462 200 744 1, 261 302 136
Bank of Greece (millions of drachmae): Gold	174 3, 597	619 2, 721 4, 871 158 3, 597 5, 214	605 2, 897 5, 092 142 3, 597 5, 304	537 3, 362 4, 268 	Bank of Portugal (millions of escudos): Gold	9 380 321 1,936 48	9 351 308 1, 912 54	9 308 300 1, 921 53	9 275 229 1, 916 66
Other sight liabilities. National Bank of Hungary (millions of pengös): Gold	163 43 315 89 62 478	1,551 163 40 293 89 108 480 117	1, 596 163 37 326 89 74 491 94 78	1,707 197 47 398 104 129 500 223 126	of lel): 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):	7, 472 21, 393 10, 757	5, 158 3, 592 5, 793 79 10, 060 7, 472 20, 340 10, 495	5, 126 3, 592 1, 465 147 10, 009 7, 631 19, 188 7, 356	3 5, 005 3 3, 644 (4) 4 13, 732 10, 679 21, 054 1, 255
Bank of Java (millions of florins): Gold		148 35 146 306 68	148 36 124 302 50	172 33 104 320 52	Loans and discounts Deposits Issue department— Gold Other precious metals Foreign exchange Note circulation		23, 098 4, 045 8, 428	386, 876 203, 706 20, 098 4, 151 9, 021 126, 983	354, 205 180, 253 14, 810 4, 709 8, 703 109, 010
Bank of Latvia (millions of lats): Gold. Foreign exchange reserve. Bills. Loans. Note circulation Government deposits. Other deposits.	49 92 57 46 91	24 46 89 58 45 93 73	24 45 89 59 44 96 71	24 86 84 41 46 114 66	National Bank of the Kingdom of Serbs, Croats, and Slovenes (millions of dinars): Gold	3,000	94 255 1,612 3,000 5,659 898	94 261 1, 549 2, 966 5, 299 1, 020	91 275 1, 698 2, 966 5, 751 648
Bank of Lithuania (millions of litas); Gold	90	34 42 87 87 73	34 37 87 85 70	34 41 86 95 71	South African Reserve Bank (thousands of pounds sterling): Gold	7, 941 7, 185 1, 995 9, 131	7, 901 7, 655 1, 600 9, 533	7, 669 8, 114 748 8, 460	8, 089 7, 657 737 9, 011
Netherlands Bank (millions of florins): Gold	186 187 852	443 154 162 801 13	449 178 160 812 15	435 193 154 797 38	Government. Bankers. Others. Bank of Spain (millions of pesetas): Gold. Silver. Balances abroad. Loans and discounts.	4, 625 291 2, 565 712	1, 687 4, 816 292 2, 565 719 90	2, 272 4, 822 634 2, 563 720 96	1, 190 5, 282 210 2, 609 700
Bank of Norway (millions of kroner): Gold	251 316 1	147 41 259 315 2 82	147 39 263 315 1 88	147 37 268 313 2 85	Loans and discounts Note circulation Deposits Bank of Sweden (millions of kronor): Gold	242 222 376	205	1, 952 4, 289 931 234 208 332 522	2, 013 4, 323 903 238 119 401 565
Reserve Bank of Peru (thousands of libra): Gold		1, 893 2, 178 6, 447	4, 237 178 729 2, 337 6, 606 357	4, 128 288 1, 220 1, 362 6, 028 576	Deposits Swiss National Bank (millions of francs): Gold Foreign balances and bills Loans and discounts Note circulation Demand deposits	533 216 226 944	507 210 209 911	507 217 218 900	468 211 238 892 64

¹ Converted into the terms of the leu adopted Feb. 7, 1929.

⁴ Foreign exchange not reported separately.

CONDITION OF COMMERCIAL BANKS

[Figures are for the last report date of month except for London clearing banks, which are daily averages]

		1929		1928			1929		1928
		1020					1020		
	Sep- tember	August	July	Sep- tember		August	July	June	August
Nine London clearing banks (millions of pounds sterling): Money at call and short notice Advances and discounts Investments. Deposits	149 1, 192 242 1, 754	144 1, 205 242 1, 759	143 1, 219 242 1, 778	142 1, 175 244 1, 732	Joint-stock banks of Denmark (millions of kroner): Loans and discounts Due from foreign banks Deposits and current accounts	1, 775 145 62 1, 969	1,774 138 66 1,952	1,767 143 64 1,955	1, 873 134 95 1, 972
Six Berlin banks (millions of reichsmarks): Bills and treasury notes Due from other banks Miscellaneous loans Deposits Acceptances	1,224 7,254 10,413	2, 498 1, 219 7, 135 710, 162 446	2, 365 1, 189 7, 098 9, 989 463	2, 254 1, 005 6, 362 8, 947 414	Joint-stock banks of Finland (millions of Finnish marks): Loans and discounts Due from abroad Due to abroad Deposits Four commercial banks of France	9, 891 247 527 7, 628	9, 931 236 544 7, 660	10, 047 189 633 7, 730	9, 621 279 460 7, 613
Tokyo banks (millions of yen): Cash on hand Total loans Total deposits Total clearings	2, 055 2, 077	301 2, 086 2, 106 1, 948	259 2, 087 2, 090 2, 192	276 2, 061 2, 067 2, 553	(millions of francs): Bills and national-defense bonds. Loans and advances Demand deposits Time deposits		10, 598 32, 455	20, 664 9, 974 33, 226 r 990	20, 722 8, 325 33, 104 693
		1929	·	1928	Four private banks of Italy (millions of lire):	1 103		1, 138	1, 185
	August	July	June	August	Cash Bills discounted Due from correspondents Due to correspondents Deposits	5, 501 13, 556		8, 390 5, 437	8, 872 4, 975 13, 628 2, 926
Banks of Buenos Aires, Argentina (millions of gold pesos): Gold— Bank of the Nation Other banks Other cash— Bank of the Nation	12 126	67 12 129	78 13	140 12 158	Joint-stock banks of Norway (millions of kroner): Loans and discounts Due from foreign banks Due to foreign banks Rediscounts Deposits	1, 268 129 86 102 1, 558	1, 266 124 83 97 1, 557	1, 253 102 78 100 1, 557	1, 410 102 98 146 1, 615
Other banks. Loans and discounts— Bank of the Nation Other banks. Deposits— Bank of the Nation	572 884 761	561 883 761	184 569 873 777	216 485 770 778	Joint-stock banks of Poland (millions of zlotys): Loans and discounts Due from foreign banks Due to foreign banks	₽ 841 ₽ 36 ₽ 171	837 37 181	826 31 171	733 32 137
Other banks Chartered banks of Canada (millions of dollars):	1, 011	1,007	1,015	970	Rediscounts Deposits Joint-stock banks of Sweden (mil-	» 150 » 541	141 540	146 522	148 466
Gold coin and bullion 1 Current loans and discounts Money at call and short notice Public and railway securities Note circulation. Individual deposits Gold reserve against Dominion	584 462 190 2, 551	1, 572 577 470 170 2, 578	61 1, 566 594 525 187 2, 559	68 1, 407 566 500 176 2, 533	lions of kronor): Loans and discounts Foreign bills and credits abroad Due to foreign banks Rediscounts Deposits	306 117 202	4, 179 277 117 191 3, 530	4, 130 259 112 262 3, 462	4, 128 303 125 215 3, 547
notes Dominion note circulation	60 199	59 196	59 210	77 197					

¹ Not including gold held abroad.

DISCOUNT RATES OF 34 CENTRAL BANKS

[Rate prevailing November 4, 1929, with date of latest change]

Country	Rate	In effect since—	Country	Rate	In effect since—	Country	Rate	In effect since—	Country	Rate	In effect since—
Austria	8½ 5 10 6 8 5 6½ 5½ 10	July 31, 1929 July 2, 1929 Oct. 22, 1928 Oct. 10, 1929 Mar. 8, 1927 Nov. 2, 1929	England Estonia. Finland France. Germany Greece Hungary India. Italy	8 7 31/2 7 9 71/2	Nov. 2, 1929 Nov. 30, 1928	Japan Java Latvia Lithuania Netherlands Norway Peru Poland	5	Oct. 10, 1927 July 22, 1929 Apr. 1, 1928 Feb. 1, 1925 Nov. 1, 1929 Sept. 27, 1929 Oct. 31, 1929 Apr. 19, 1929	Portugal	912 8 6 512 512 312	Sept. 27, 1929

Changes.—Bank of Estonia from 7½ to 8 per cent on Oct. 3, 1929; Bank of the Republic of Colombia from 7 to 8 per cent on Oct. 10, 1929; Imperial Bank of India from 5 to 6 per cent on Oct. 10, 1929, and from 6 to 7 per cent on Oct. 31, 1929; Bank of England from 6½ to 6 per cent on Oct. 31, 1929; Reserve Bank of Peru from 6 to 7 per cent on Oct. 31, 1929; Netherlands Bank from 5½ to 5 per cent on Nov. 1, 1929; Bank of Danzig from 7 to 6½ per cent on Nov. 2, 1929; German Reichsbank from 7½ to 7 per cent on Nov. 2, 1929; National Bank of Hungary from 8 to 7½ per cent on Nov. 4, 1929. 1

Preliminary.

[·] Revised.

MONEY RATES IN FOREIGN COUNTRIES

		England	(London)		Ge	rmany (Berl	in)		s (Amster- m) ¹	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
1927 September October November December	4. 32 4. 32 4. 33 4. 31	4. 33 4. 33 4. 34 4. 31	3, 55 3, 57 3, 62 3, 44	21/2 21/2 21/2 21/2 21/2	5, 90 6, 69 6, 76 6, 87	8, 30 8, 72 8, 72 9, 10	6. 00 7. 19 6. 03 7. 24	3. 56 4. 11 4. 50 4. 49	3. 82 4. 29 4. 73 4. 85	3, 39 3, 38 3, 39 3, 40
1928	4. 27 4. 23 4. 35 4. 38	4. 13 4. 18 4. 07 4. 01 3. 95 3. 80 3. 97 4. 26 4. 19 4. 37	3. 49 3. 63 3. 63 3. 57 3. 58 3. 26 3. 27 3. 50 3. 55 3. 80 3. 64 3. 22	2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½ 2½	6. 27 6. 20 6. 72 6. 71 6. 66 6. 59 6. 74 6. 68 6. 65 6. 57 6. 28	7. 66 7. 30 7. 51 7. 57 7. 80 8. 08 8. 18 8. 19 8. 58 8. 26 8. 15 8. 77	5. 16 6. 66 6. 81 7. 00 6. 37 7. 74 6. 12 6. 65 6. 70 6. 70 7. 30	4. 29 3. 97 3. 97 4. 18 4. 12 4. 13 4. 39 4. 40 4. 44 4. 46	4. 10 3. 80 3. 89 3. 93 4. 17 4. 11 3. 84 3. 90 4. 35 4. 42 4. 74 4. 68	3, 29 3, 12 3, 20 3, 29 3, 32 3, 40 3, 41 3, 38 3, 38 3, 35 3, 35
1929 January February March April May June July August September	4. 32 5. 05 5. 33 5. 21 5. 32 5. 38 5. 47 5. 59	4, 29 4, 96 5, 30 5, 18 5, 21 5, 35 5, 39 5, 48 5, 63	3. 41 4. 33 4. 51 4. 43 4. 67 4. 23 4. 54 4. 35 4. 39	214 214 314 314 314 314 314 314 314 314 314	5. 80 5. 80 6. 31 6. 63 7. 49 7. 50 7. 39 7. 18 7. 18	7. 51 7. 07 7. 30 7. 57 9. 65 9. 89 9. 35 9. 43 9. 48	5. 13 6. 33 6. 97 6. 85 9. 32 7. 90 8. 21 7. 42 7. 86	4. 20 4. 39 4. 64 5. 36 5. 37 5. 30 5. 20 5. 06 \$\nabla\$ 5. 34	4. 46 4. 78 5. 05 5. 81 5. 88 5. 30 4. 90 4. 68 > 5. 33	3. 28 3. 31 3. 35 3. 45 3. 34 3. 26 3. 19 3. 33 3. 38
	Belgium (Brussels)	France (Paris)	Italy (Milan)	Austria ((Vienna)	Hu	ngary	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 2	Call money overnight
1927 September October November December	3. 75 3. 87 4. 09 4. 15	2. 01 1. 82 2. 75 2. 95	6, 81 6, 50 6, 27 6, 00	614 -6516 614 -6516 616 -614 616 -6516	7 -8½ 7½-8¾ 7½-8½ 6¾-8¾	7 -81/2	6 -7½ 6 -7¾ 5¾-7¾ 5½-7¾	4 -6 4 -6 4 -6 4 -6		2, 19-4, 38 2, 19-4, 38 2, 74-4, 02 2, 19-5, 84
1928 January February March April May June July August September October November December	3. 94	2. 81 2. 75 2. 72 2. 62 2. 62 2. 90 3. 12 3. 23 3. 26 3. 37 8. 41	6. 00 5. 89 5. 75 5. 49 5. 25 5. 25 5. 25 5. 25 5. 25 5. 25 5. 25 5. 25 5. 25	534 -636 536 -5316 536 -5316 5716 -536 512 -534 5116 -534 531 -634 6316 -634 634 -634 634 -634	6%-8 6%-74-6%-74-6%-74-6%-74-6%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-74-8%-8%-8%-8%-8%-8%-8%-8%-8%-8%-8%-8%-8%-	714-812 714-814 714-812 714-812 714-812 714-812 734-9 734-9	5)4-736 514-736 514-736 514-736 514-736 514-736 514-736 514-736 614-836 614-836	4 -6 4 -6 4 -6 4 -6 4 -6 4 -6 4 4-6 4 42-6 44-6 44-6 44-6 44-6 44-6	6. 39-6. 57 6. 21-6. 57 6. 21-6. 39 6. 02-6. 39 6. 21-6. 39	1. 64-5. 10 1. 46-4. 20 2. 92-4. 20 2. 56-4. 12 1. 46-4. 02 1. 46-4. 02 2. 92-4. 05 2. 92-4. 05 2. 92-4. 05 3. 92-6. 05 3. 92
January	3. 94 3. 94 3. 94 3. 94 3. 94 4. 00 4. 93 4. 94	3. 50 3. 39 3. 37 3. 44 3. 49 3. 50 3. 50 3. 50	5. 83 6. 00 6. 31 6. 75 6. 83 6. 75 6. 75 6. 85 7. 01	631e -634 634e -634 634e -634 634e -734 734e -734 734e -734 734 -736 734 -736	714-854 714-814 714-814 736-834 8 -9 814-9 814-9 814-9	7%-814 7%-814 7%-814 814-9 8%-914 834-934 834-1014	634-834 634-834 635-834 7 -9 7 -9 7 -9 7 -814 7 -8	434-634 434-634 434-634	5. 48-5. 66 5. 48-5. 66 5. 48-5. 66	1. 46-5. 84 2. 01-4. 02 2. 19-4. 02 3. 47-4. 02 2. 56-4. 02 2. 56-4. 02 2. 74-4. 02 2. 56-4. 02

^{*}Revised.

¹ The private discount rate in Amsterdam formerly derived from quotations published in the Frankfürter Zeitung is now derived from quotations published in the Rotterdamsche Bankvereiniging. Preliminary figures, however, for both the private discount rate and money at one month in Amsterdam are derived from quotations published in the Frankfürter Zeitung.

² Revised series; see Bulletin for July, 1929.

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

FOREIGN EXCHANGE RATES

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

						EUROPE					
	Austria (schilling)	Belgium (belga)	Bulgaria (lev)	Czechoslo- vakia (crown)	Denmark (krone)	England (pound)	Finland (markka)	France (franc)	Germany (reichs- mark)	Greece (drachma)	Hungary (pengö)
Par value	14. 07	13. 90	0. 72	(1)	26. 80	486. 65	2. 52	3. 92	23. 82	1.30	17. 49
1928—October	14, 0522	13. 8959 13. 8836 13. 8847 13. 8826 13. 8832 13. 8917 13. 8995 13. 9967 13. 9579	.7203 .7206 .7212 .7210 .7218 .7213 .7217 .7220 .7236	2. 9627 2. 9610 2. 9600 2. 9599 2. 9602 2. 9595 2. 9593 2. 9601 2. 9611	26. 6578 26. 6493 26. 6527 26. 6473 26. 6332 26. 6387 26. 6243 26. 6243 26. 7426	484. 9500 485. 2626 485. 3225 485. 0785 484. 8230 485. 1018 484. 8515 484. 8206 486. 9944	2. 5167 2. 5165 2. 5160 2. 5155 2. 5144 2. 5147 2. 5148 2. 5155 2. 5174	3, 9061 3, 9058 3, 9070 3, 9071 3, 9098 3, 9158 3, 9134 3, 9135 3, 9307	23. 8143 23. 7218 23. 7039 23. 7570 23. 8403 23. 8255 23. 8140 23. 8085 23. 8733	1. 2868 1. 2920 1. 2924 1. 2924 1. 2921 1. 2922 1. 2918 1. 2917 1. 2957	17. 4256 17. 4255 17. 4239 17. 4269 17. 4280 17. 4300 17. 4403 17. 4403
	Italy (lira)	Nether- lands (florin)	Norway (krone)	Poland (zloty)	Portugal (escudo)	Rumania (leu)	Russia * (chervo-netz)	Spain (peseta)	Sweden (krona)	Switzer- land (franc)	Yugo- slavia (dinar)
Par value	5. 26	40, 20	26. 80	11. 22	108. 05	0.60	514. 60	19. 30	26. 80	19. 30	19. 30
1928—October	E 0051	40. 0908 40. 0535 40. 1409 40. 1984 40. 1512 40. 1362 40. 0597 40. 0897 40. 2511	26. 6543 26. 6609 26. 6644 26. 6550 26. 6393 26. 6471 26. 6325 26. 6299 26. 7433	11, 2012 11, 1923 11, 1910 11, 1859 11, 1858 11, 1866 11, 2039 11, 2011 11, 1986	4. 4993 4. 4495 4. 4645 4. 4738 4. 4854 4. 4822 4. 4668 4. 4809 4. 4929	. 6072 . 5964 . 5955 . 5946 . 5935 . 5937 . 5940 . 5937 . 5955	4 515, 0000 4 515, 0000	16. 1798 15. 0656 14. 7495 14. 2245 14. 1315 14. 5070 14. 6664 14. 7559 14. 5046	26. 7378 26. 7101 26. 7054 26. 7181 26. 7623 26. 8020 26. 7865 26. 7831 26. 8412	19. 2447 19. 2333 19. 2468 19. 2572 19. 2409 19. 2347 19. 2379 19. 2641 19. 3402	1, 7585 1, 7563 1, 7563 1, 7570 1, 7568 1, 7558 1, 7558 1, 7563 1, 7617
	NO	ORTH AMER	C.▲	SOUTH AMERICA							
	Canada (dollar)	Cuba (peso)	Mexico (peso)	Argentina (peso-gold)	Bolivia : (boliviano)	Brazil (milreis)	Chile (peso)	Colombia (peso)	Ecuador i	Peru ³ (libra)	Urugua y (peso)
Par value	100.00	100.00	49. 85	96.48	36. 50	11. 96	12, 17	97, 33	20.00	486. 65	103. 42
1928—October 1929—March April May June July August September October	99. 9667 99. 4030 99. 2394 99. 3012 99. 1632 99. 4760 99. 4390 99. 2420 98. 8341	99, 9270 100, 0261 99, 9721 100, 0101 99, 9522 99, 9083 99, 9655 99, 9301 99, 9396	47. 5742 48. 0515 48. 2419 47. 9715 47. 8536 48. 0883 48. 5676 48. 4325 48. 1571	95. 5933 95. 5624 95. 5624 95. 5184 95. 2760 95. 3678 95. 3901 95. 3409 95. 0015	36. 4900 36. 5000 36. 5000 36. 5000 36. 5000 36. 5000 36. 0000 36. 0000	11. 9477 11. 8235 11. 8348 11. 8634 11. 8553 11. 8579 11. 8598 11. 8577 11. 8715	12. 0843 12. 0645 12. 0644 12. 0423 12. 0362 12. 0448 12. 0589 12. 0642 12. 0681	97. 5146 96. 7669 96. 3900 96. 3900 96. 4320 96. 5712 96. 3900 96. 3900 96. 3900	20, 0000 20, 0000 20, 0000 20, 0000 20, 0000 20, 0000 20, 0000 20, 0000 20, 0000	399. 0385 400. 0000 400. 0000 400. 0000 400. 0000 400. 0000 400. 0000 400. 0000	101. 8431 101. 6177 99. 1120 97. 7018 96. 6934 97. 5731 98. 5723 97. 8166 97. 6941
	SOUTH AMERICA— continued					ASIA					AFRICA
	Vene- zuela ² (bolivar)	China (Mexican dollar) ⁵	China (Shanghai tael)	China (Yuan dollar)	Hong Kong (dollar)	India (rupee)	Japan (yen)	Java ³ (florin)	Straits Settle- ments (Singapore dollar)	Turkey (Turkish pound)	Egypt (Egyptian pound)
Par value	19.30	39.46	54.82	39.03	39.18	36. 50	49. 85	40. 20	56.78	439, 65	494. 31
1928—October 1929—March April May June July August September October	19. 2500 19. 2500 19. 2550 19. 3300 19. 3800 19. 3800 19. 3100 19. 2600 19. 2500	46. 5591 44. 8856 44. 2260 43. 2824 42. 1116 41. 6354 41. 4362 40. 2639 39. 3666	64. 0374 62. 2304 61. 2516 59. 6191 57. 7650 57. 8368 57. 6873 56. 0436 54. 7721	46. 1963 44. 6205 43. 9839 42. 8005 41. 4866 41. 5521 41. 3649 40. 0963 39. 1065	49. 9471 48. 8437 48. 6963 48. 3424 47. 8613 48. 1230 47. 9432 47. 7035 44. 1532	36. 4541 36. 3623 36. 3107 36. 1817 36. 0292 35. 9742 35. 9714 36. 0324 36. 1646	46. 2019 44. 5203 44. 6176 44. 6460 43. 8830 45. 5571 46. 6928 47. 2731 47. 7599	40. 1161 39. 9396 39. 9896 40. 1000 40. 0500 40. 0346 39. 9600 40. 0000 40. 1377	56. 3404 56. 0752 55. 9615 55. 9824 55. 8775 55. 8666 55. 9884 56. 2211	50, 8354 48, 9973 49, 0731 48, 5304 47, 8000 47, 9673 47, 6685	497, 4003 497, 6292 497, 6630 497, 4362 497, 1490 497, 4293 497, 2178

Based on noon buying rates for cable transfers in New York as certified to the Treasury by the Federal Reserve Bank of New York, in pur suance of the provisions of sec. 522 of the tariff act of 1922. For back figures see Bullerin for January, 1923, and January, 1929.

The National Bank of Czechoslovakia opened Apr. 1, 1923, under the obligation "to maintain the relation of the Czechoslovak crown to the undepreciated foreign gold currencies at the level of the last two years." During the period April, 1924, to March, 1926, inclusive, the range of the Czechoslovak crown was between 2.9193 cents and 3.0312 cents; the quotation on Mar. 31, 1926, was 2.9616 cents.

A verages based on daily quotations of closing rates as published by New York Journal of Commerce.

Nominal.

Silver currency. The figure given for parity represents gold value of unit in October, 1929, computed by multiplying silver content of unit by New York average price of silver for October, 1929, which was \$0.50226 per fine ounce. On the same basis, parity in October, 1928, for the Chinese-Mexican dollar was 45.88 cents; for the Shanghai tael, 63.74 cents; for the Yuan dollar, 45.38 cents; and for the Hong Kong dollar, 45.55 cents.

PRICE MOVEMENTS IN PRINCIPAL COUNTRIES

WHOLESALE PRICES

ALL COMMODITIES

								EUI	ROPE						
Month	United States (Bu- reau of Labor Statis- tics) ¹	Aus- tria (gold basis)	Bel- gium	Bul- garia	Czecho- slo- vakia	Den- mark	Eng- land (Board of Trade)	Fin- land (gold basis)	Statis-	Federal Reserve Board	Ger- many (Fed- eral Statisti- cal Bu- reau)	Hun- gary (gold basis)	Italy (Bachi)	Nether- lands	Nor- way (Oslo)
January	96 96 96 97 99 98 98 99 100 98 97	129 128 129 131 131 133 133 133 129 128 127	851 848 848 847 844 841 831 830 835 847 855	2, 782 2, 826 2, 839 2, 891 2, 906 2, 866 2, 911 2, 790 2, 805 2, 844 2, 875 2, 865	982 985 978 984 987 986 979 996 971 957 955	153 152 153 154 155 155 155 154 151 150 151	141 140 141 143 144 143 141 139 138 138 138	102 102 103 103 103 103 103 101 101 101	628 633 645 650 660 649 646 645 637 640 652 651	569 569 587 601 617 621 613 607 598 585 580 588	139 138 139 140 141 141 142 142 140 140	135 134 135 136 135 135 133 134 137 138 137	463 461 464 465 462 453 456 458 463 466	154 151 153 153 152 152 148 145 146 146 148	157 157 157 156 156 158 160 153 153 151 150
January. February March April May June July August September October	97 97 98 97 96 96 98 98	128 130 133 134 135 134 132 132 128	867 865 869 862 851 848 858 850 846	2,869 2,945 2,974 2,991 3,034 4,101 3,061 2,917	953 950 964 963 940 917 922 916 902	151 159 154 150 148 146 149 150	138 138 140 139 136 136 137 136 136	100 100 100 99 98 98 97 97 96	657 660 654 648 643 629 624 598 607	591 599 616 621 606 598 593 581 571	139 139 140 137 136 135 138 138	3 132 3 136 3 136 3 135 3 123 3 122 3 119 3 114	461 463 461 455 454 447 440 437 437	146 146 147 144 142 141 141 142	149 150 150 148 146 147 149 148
		RITRO	PE—cont	hauni	<u> </u>		<u></u>			SIA AND	OCEANL		<u>!</u>	AWI	RICA
Month	Po- land 34	Russia ⁵	[Sweden	Switzer- land 1	Can- ada 1	Peru	Aus- tralia	China (Shang- hai)	Dutch East Indies	India (Cal- cutta)	Japan (To- kyo)	New Zea- land	Egypt (Cairo)	South Africa
1928 January February March April May June June July August September October November December	100 99 102 105 103 103 102 100 100 100	171 171 171 171 171 172 172 173 173 176 176	166 165 165 164 164 164 166 168 174 176	148 147 149 151 152 151 150 149 146 145 145	145 144 145 146 145 145 144 144 145 145	97 97 98 98 98 97 96 95 95	199 195 193 197 195 195 193 190 188 187 186	163 160 160 162 159 158 157 154 153 152 152	163 164 163 163 165 160 159 157 156 159	150 149 149 150 151 150 148 149 149 149	145 144 144 146 147 145 148 143 142 143 143 143	169 169 170 171 169 169 170 174 174 173	150 147 147 148 148 148 148 147 148 149 150	114 114 116 126 117 117 117 119 120 120 126 129	120 121 119
January February March April May June July August September October	98 99 99 98 99 99	177 177 178 179 180 181 181 180	171 175 174 174 171 170 169 170	144 145 144 141 140 139 140 141 140	143 143 142 140 139 139 143 143 143	95 96 96 94 92 93 96 98 97	186 186 189 185 186 186 187 187 187	157 156 157 158 156 158 159 160 163	160 162 164 161 162 163 163 165 167	150 150 151 149 150 149 149	145 144 143 140 139 138 142 143 143	172 171 171 170 169 168 166 165	147 146 146 146 147 147 148	125 122 123 120 114 108 109 112 113	120 117

New index — 1926 = 100.

New official index.

1 New official index.

2 New official index.

3 First of month figures.

3 First of month figures.

4 1927 = 100.

5 First of month figures.

1 New official index.

4 1927 = 100.

5 First of month figures.

1 New official index.

2 New official index.

3 First of month figures.

3 First of month figures.

3 First of month figures.

4 New official index.

1 New official index.

1 New official index.

2 New official index.

3 First of month figures.

4 New official index.

4 1927 = 100.

5 First of month figures.

5 First of month figures.

5 First of month figures.

1 New official index.

2 New official index.

3 First of month figures.

4 New official index.

5 First of month figures.

5 First of month figures.

5 First of month figures.

1 New official index.

2 New official index.

1 New official index.

1 New official index.

2 New official index.

2 New official index.

3 New official index.

4 New official index.

4 New official index.

4 New off

Nors.—These indexes are in most cases published here on their original bases, usually 1913 or 1914, as determined by the various foreign statistical offices which compile the index numbers and furnish them to the Federal Reserve Board. In several cases, however, vis., Netherlands, Japan. New Zeelands, and South Africa, they have been recomputed from original bases (1901-1910; October, 1900; 1909-1913, 1910) to a 1913 base. Index numbers of commodity groups for most of the countries are also available in the office of the Division of Research and Statistics and may be had upon request. Further information as to base periods, sources, numbers of commodities, and the period of the month to which the figures refer may be found on pages 763-770 of the Bulletin for November, 1927.

WHOLESALE PRICES-Continued

GROUPS OF COMMODITIES

ENGLAND-BOARD OF TRADE

		1928				
	Sept.	Aug.	July	June	May	Sept.
All commodities	136	136	137	136	136	138
Total food	143	144	149	143	144	148
Cereals	141	146	143	132	133	141
Meat and fish	143	145	144	144	146	141
Other foods	145	144	158	155	152	160
Industrial products	132	131	131	131	132	132
Iron and steel	115	115	115	115	115	112
Other minerals and metals	121	119	119	119	119	112
Cotton	154	154	153	154	155	158
Other textiles	147	149	150	151	154	165
Miscellaneous	138	134	136	134	134	141

FRANCE-STATISTICAL BUREAU 1

All commodities	607	598	624	629	643	637
Farm and food products	552	524	578	584	607	581
Animal products	572	532	522	516	521	533
Vegetable products	499	484	563	565	614	586
All industrial products	656	664	664	668	675	685
Minerals and metals	561	562	561	560	560	531
Textiles	724	745	748	758	771	804
Hides and leather	452	442	445	450	453	616
Chemical products	603	593	579	586	598	577
Rubber	117	129	133	126	129	115
Paper	677	677	677	677	677	674
Lumber	969	969	969	969	968	862
Cement and brick, etc	636	636	636	606	606	565

¹ New official index. Full description is given in the Bulletin de la Statistique Générale de la France for January–March, 1928; brief description and back figures to January, 1926, are given in the issue for July–September, 1929. The index covers 126 commodities and is computed on a 1913 base.

GERMANY-FEDERAL STATISTICAL BUREAU

All commodities	138	138	138	135	136	140
Total agricultural products	133	133	132	125	126	134
Vegetable foods	125	130	131	120	125	134
Cattle	134	134	134	127	120	119
Animal products	149	140	136	130	130	149
Fodder	120	123	127	122	133	139
Provisions	131	130	128	124	125	131
Total industrial raw materials	[[- 1	- (
and semifinished products	132	132	131	132	131	134
Coal	137	137	137	136	136	133
Iron	131	131	131	130	128	128
Nonferrous metals	118	118	118	118	118	105
Textiles	136	137	139	141	144	155
Hides and leather	122	122	124	123	120	149
Chemicals.	127	127	126	127	126	127
Artificial fertilizers	82	82	81	87	87	81
Technical oils and fats	134	129	127	125	126	125
Rubber	28	29	31	30	30	25
Paper materials and paper.	151	152	152	151	151	151
Building material	162	161	159	158	157	160
Total industrial finished prod-	157	158	157	158	158	100
Producers' goods	140	$158 \\ 140$	139	138	138	160 138
Consumers' goods	170	171	171	172	172	176
Consumers goods	110	1/1	1/1	114	1/2	1/0

ITALY-CHAMBER OF COMMERCE OF MILAN

516 504 532 455	527 524 532	538 535 541	550 544 558	555 554 555	
532	532	541			577
			558	EEE	
455 1				900	515
100	453	454	454	458	464
413	412	411	412	420	446
438	438	438	437	441	435
447	446	445	446	447	428
543	544	543	543	541	516
464	456	467	469	488	519
509	505	506	502	501	556
	147 543 164	147 446 543 544 164 456	147 446 445 543 544 543 164 456 467	447 446 445 446 543 544 543 543 464 456 467 469	147 446 445 446 447 543 544 543 543 541 546 467 469 488

SWEDEN-BOARD OF TRADE

			1929			1928
	Sept.	Aug.	July	June	May	Sept.
All commodities	140	141	140	139	140	146
Vegetable products	126	130	129	125	126	134
Animal products	140	137	138	137	137	145
Fuels and oils	122	121	120	120	118	112
Raw materials for manu- facture in iron and metal industry	119	118	118	118	118	115
Paper pulp and paper Raw materials for manu- facture in leather indus-	163	163	163	163	163	161
Raw and manufactured	124	125	124	128	126	145
chemicals	162	156	154	152	153	164
Raw materials	132	136	136	134	134	139
Semifinished materials	142	144	143	13 9	140	147
Finished materials	143	141	141	142	143	149
Producers' goods	133	134	134	133	133	13
Consumers' goods	146	146	145	144	145	154

CANADA-DOMINION BUREAU OF STATISTICS 1

j		1	1			
All commodities	97	98	96	93	92	96
Vegetable products	98	99	96	82	82	87
Animal products	107	*108	108	108	109	114
Textiles	91	91	92	92	92	94
Wood and paper products.	94	94	94	94	94	99
Iron and its products	94	94	94	94	94	93
Nonferrous metals	98	99	99	99	99	r 92
Nonmetallic minerals	93	94	93	93	92	r 92
Chemicals	96	96	96	96	95	95
		"		[

¹ New index-1926=100.

· Revised.

AUSTRALIA-BUREAU OF CENSUS AND STATISTICS

All commodities	164	160	159	158	156	153
Metals and coal	174	174	174	174	174	174
Textiles	144	139	138	143	145	152
	181	158	176	158	154	157
Agricultural products					159	147
Dairy products	153	153	156	160		
Groceries and tobacco	164	163	163	164	164	165
Meat	153	139	135	150	145	116
Building materials	161	160	160	161	161	161
Chemicals	189	189	189	189	189	186
Chemicais	199	199	199	199	198	

INDIA (CALCUTTA)-DEPARTMENT OF STATISTICS

			1929		!	1928
	Aug.	July	June	May	Apr.	Aug.
All commodities	143	142	138	139	140	143
Cereals	128	126	122	120	119	133
Pulses	149	150	143	141	147	154
Tea	132	159	122	157	157	143
Other foods	172	170	158	161	154	153
Oil seeds	164	152	140	142	148	143
Raw jute	99	95	94	95	97	111
Jute manufactures	130	122	120	124	125	160
Raw cotton	146	141	144	148	152	154
Cotton manufactures	162	160	160	160	161	161
Other textiles	133	133	134	134	136	139
Hides and skins	105	102	111	109	120	115
Metals	130	130	130	129	130	124
Other articles.	146	140	141	141	143	140
	1	<u> </u>	ł			l

RETAIL FOOD PRICES AND COST OF LIVING

RETAIL FOOD PRICES

[Pre-war=100]

	United		•	•			EURC	PEAN C	OUNTE	IES							отне	R COUN	TRIES	•
Month	States (51 cit- ies)	Aus- tria (Vi- enna)	Bel- gium¹		Czecho- slovakia			France (Paris)		Greece (Ath- ens)	Italy (Mi- lan)	Neth- er- lands	Nor- way	Rus- sia ²	Swit- zer- land	Can- ada ³		India (Bom- bay)	New Zea- land	South Africa
1927 September. October November. December.	151 153 153 153 153	119 120 119 118	206 210 211 212	2, 615 2, 626 2, 587 2, 618	910 907 905 913	157 161 163 163	111 112 113 113	532 520 500 523	151 152 152 153	2, 070 2, 071 2, 086 2, 101	509 509 510 513	163	174 173 171 171	198 198 199 200	158 158 159 159	147 148 149 151	157 159 157 155	151 148 147 149	143 143 144 146	117 119 119 119
1928 January February March April May June July August September October November December	152 149 148 149 151 150 150 151 155 153 154 153	118 117 116 117 117 122 119 120 120 120 120 119	211 207 201 202 197 200 202 205 210 215 223 222	2, 660 2, 701 2, 713 2, 766 2, 778 2, 783 2, 682 2, 719 2, 749 2, 739	913 910 902 905 908 928 943 943 928 907 900	162 159 155 155 156 157 156 156 156 157 159	118 118 122 126 126 126 130 129 124 125 126 125	530 522 524 532 546 3 113 3 111 3 110 3 115 3 119	152 151 151 152 151 152 154 156 153 152 152 153	3 146 3 144 3 143 3 144 3 145 3 138 3 134 3 132 3 137 3 137 3 133	3 140 3 141 3 141 3 141 3 140 3 142 3 140 3 138 3 140 3 141 3 144 3 145	166 	170 170 171 171 172 170 173 170 164 163 161	201 202 203 203 205 206 211 211 210 211 213 215	158 157 156 156 156 157 157 157 158 158 158	151 149 147 146 146 145 145 149 150 152 152 152	154 152 153 154 154 154 152 150 150 149 150 152	151 146 142 140 140 142 143 142 141 142 144 145	147 145 145 144 146 147 147 146 147 150 150	119 118 118 119 120 114 116 115 115 115 118
1929 January February March April May June July August September.	151 151 150 149 150 152 156 157 158	120 123 121 119 120 124 123 124 122	221 221 215 212 211 210 215 227	2,742 2,816 2,843 2,860 2,900 3,759 2,926 2,789	900 911 913 901 906 907 925 900	159 156 157 150 149 147 149 153 154	133 138 142 137 136 139 132	\$ 122 \$ 122 \$ 123 \$ 125 \$ 127 \$ 127 \$ 123 \$ 123 \$ 123 \$ 123	153 156 159 154 154 154 156 155 155	* 133 * 135 * 135 * 136	* 147 * 148 * 155 * 151 * 147 * 148 * 144 * 144 * 146	163	158 157 158 156 156 156 157 161 160	216 218 223 230	157 157 156 155 154 156 155 156	152 150 151 148 147 147 148 157 157	161 160 162 160 161 160 161 162	146 146 146 145 143 133 145 146 146	149 148 146 147 147 147 146 146 147	115 117 115 115 115 115 116 114

COST OF LIVING

	Mas-						EU.	ROPEAN	coun	TRIES							от	HER C	OUNTR	ies
Month	sa- chu- setts		Czecho- slovakia		Fin- land	France (Paris)	Ger- many	Greece (Ath- ens)	Hun- gary	Italy (Mi- lan)	Neth- er- lands	Nor- way	Po- land ⁸	Spain	Swe- den	Swit- zer- land	Can- ada	Aus- tra- lia	India (Bom- bay)	South Africa
1927 September. October November. December.	155 155 157 157	202 207 208 208	736 734 735 740	165 167 169 169	1, 230 1, 237 1, 251 1, 243	507 	147 150 151 151	1, 955 1, 956 1, 964 1, 978	119 120 120 120	537 536 536 531	167	197	99 101 103 103	187 189 188 186	172	161 161 162 162	149 150 150 151	157	154 151 150 151	131 132 132 132
January February February March April May June July September October November December	157 156 155 155 156 157 157 157 158 157 157	210 207 204 205 202 204 205 207 211 215 220 219	741 739 737 741 743 741 753 761 756 735 730 734	168 164 164 164 165 165 165 165 166 167	1, 216 1, 206 1, 214 1, 212 1, 207 1, 219 1, 236 1, 258 1, 249 1, 254 1, 262 1, 260	3 105 3 105 3 108	151 151 151 151 151 151 153 154 152 152 152 153	* 155 * 154 * 153 * 153 * 153 * 152 * 148 * 146 * 148 * 148 * 148	121 120 119 121 121 121 122 126 127 126 125 126	3 145 3 145 3 145 2 144 3 145 3 143 3 142 8 143 8 144 3 146 3 147	169 170 169	193 193 185	102 100 101 102 103 103 104 104 104 104 106	178 175 176 175 171 172 173 174 178 179 181 187	171 171 173	161 160 160 160 161 161 161 161 162 162 162	151 150 149 149 148 148 150 151 152 152 152	157 160 157	154 148 145 144 147 146 146 146 145 146 147	132 131 132 133 133 132 131 131 131 131
January February March April May June July August September.	157 156 157 157 157 156 157 159 158	219 220 217 215 215 215 218 226	737 745 754 746 744 744 761 751	167 165 166 162 161 160 161 163 164	1, 242 1, 232 1, 229 1, 219 1, 210 1, 215 1, 223 1, 232 1, 230	* 111 * 113 * 113	153 154 157 154 154 153 154 154 154	3 148 3 150 3 149 3 148	126 127 127 125 126 126 124 121	3 148 3 148 3 153 3 150 3 148 3 149 3 148 3 146 3 147	169	180	106 108 106 106 106 104 105 105	184 183 184 184 182 179 177 178	170 171 169	161 161 161 159 160 161 161 162	152 151 152 150 151 149 150 155 155	164	149 149 149 148 147 147 148 149	131 131 132 131 136 135 131 131

^{1 1921=100}

¹ First of month figures.

Revised on a gold basis.

⁴ Amsterdam only; 1911-1913=100.

^{§ 1927=100.}

Note.—Information as to the number of foods and items included, the original base periods, and sources may be found on page 276 of the April, 1925, issue of the BULLETIN.

LAW DEPARTMENT

Philippine Government funds as time or demand

The Federal Reserve Board has recently been requested to rule on the question whether a deposit consisting of Philippine Government funds made in a member bank of the Federal reserve system under the following circumstances is a time deposit or a demand deposit: The deposit was made by the Bureau of Insular Affairs of the War Department in an account entitled "Treasurer of the Philippine Islands Treasury Certificate Fund Account Time Deposit." In the preliminary correspondence with the depositary member bank with reference to this deposit, a letter from the Acting Chief of the Bureau of Insular Affairs states, "You will note that the regulations state that the deposits are subject to 30 days' notice of withdrawal," and the "regulations" referred to contain a provision that "deposits are subject to withdrawal only after 30 days' notice." The contract between the bank and the War Department, however, contains no reference to preliminary correspondence or the regulations referred to and states that the Government of the Philippine Islands reserves the right to terminate the agreement at any time without notice or liability. The contract also states that the bank agrees "to promptly honor and pay such checks or drafts as the said Government or its duly authorized agent may draw against said deposits; and to pay over all balances * * * when called upon to do so."

After a careful consideration of this question, the Federal Reserve Board is of the opinion that deposits made under the circumstances related can not be considered time deposits, but are demand deposits and subject to a corresponding reserve. The board's Regulation D, in defining a time deposit open account, requires a written contract by the terms of which neither the whole nor any part of such deposit may be withdrawn except on a given date not less than 30 days after the deposit or on not less than 30 days' written notice. In the case under consideration, the contract itself contains no such provisions and neither the preliminary correspondence nor the "regulations" are incorporated into the contract so as to be made a part thereof. It is a general rule in the interpretation of contracts that where preliminary negotiations are consummated by a written agreement, the writing supersedes all previous understandings and the intention of the parties must be ascertained therefrom. case of United States ex rel. Aprel et al. v.

The contract itself seems clearly to contemplate a deposit withdrawable on demand. Furthermore, attention is called to the fact that even the "regulations" referred to do not state that written notice is to be given 30 days or more before withdrawals. Under the board's Regulation D such written notice must not only be required by the contract but must actually be given before each withdrawal.

Right of a national bank to borrow securities from its trust department.

An inquiry has recently been received by the Federal Reserve Board as to whether it would be illegal or unethical for a national bank to borrow Government securities from its trust department for the purpose of obtaining loans thereon at a Federal reserve bank.

In the opinion of the Federal Reserve Board, such a practice would be both illegal and unethical. It would be illegal because it would violate that provision of section 11(k) of the Federal reserve act requiring national banks to segregate all assets held in any fiduciary capacity from the general assets of the bank, and because it would violate the well-established rules of equity jurisprudence, forbidding a trustee to use trust funds or assets for his own benefit. It would be unethical for obvious reasons.

It was suggested that bonds in the trust department might be loaned to the bank if other securities are pledged with the trust department, in view of the following provision of section 11(k) of the Federal reserve act:

Funds deposited or held in trust by the bank awaiting investment shall be carried in a separate account and shall not be used by the bank in the conduct of its business unless it shall first set aside in the trust department United States bonds or other securities approved by the Federal Reserve Board.

That provision, however, applies only to trust funds awaiting investment and clearly does not apply to securities in which trust funds have actually been invested.

Discretion of Federal Reserve Board in approving organization of foreign banking corporations.

There was published in the July, 1929, number of the FEDERAL RESERVE BULLETIN, at page 508, a copy of the opinion of the Court of Appeals of the District of Columbia in the

Capital

Date

Andrew W. Mellon et al. upholding the authority of the Federal Reserve Board to exercise its discretion in the matter of approving or disapproving the organization of corpora-tions pursuant to the provisions of section 25(a) of the Federal reserve act, to engage in international or foreign banking or international or foreign financial operations. Following the decision of the Court of Appeals of the District of Columbia a petition for a writ of certiorari was filed in the Supreme Court of the United States by the complainants in the The Supreme Court on October 21 denied this petition. This refusal of the Supreme Court of the United States to review the decision of the court of appeals concludes the case, and leaves as the final expression of the courts on the subject the decision of the Court of Appeals of the District of Columbia upholding the board's authority in the matter.

CHANGES IN MEMBERSHIP

STATE BANK MEMBERSHIP

The following list shows the changes affecting State bank membership during the month ended October 21, 1929, on which date 1,151 State institutions were members of the system:

Date	Federal reserve district	Capital
	ADMISSIONS	
	No. 1—Boston	
1929 Sept. 24	Day Trust Co., Boston, Mass	\$2, 500, 000
	No. 2-New York	
Oct. 16	Caleb Heathcote Trust Co., Scarsdale, N. Y	200, 000
	No. 4—Cleveland	
Sept. 27	Farmers Bank and Savings Co., Pomeroy, Ohio	50, 000
	CHANGES	
	No. 1—Boston	
Oct. 3	Hadley Falls Trust Co., Holyoke, Mass., voluntary withdrawal	750, 000
	No. 2-New York	
Oct. 14	Ridgewood Trust Co., Ridgewood, N. J., con- solidated with the First National Bank of Ridgewood under title of the First National Bank & Trust Co. The International Union Bank, New York, N. Y., title changed to International Union Bank & Trust Co.	150, 000
	,	
Oct. 19	No. 3—Philadelphia Milford Trust Co., Milford, Del., voluntary withdrawal	100,000
	No. 5-RICHMOND	,
Sept. 23	Farmers Bank & Trust Co., Forest City, N. C., voluntary withdrawal	250, 000
	No. 7—Chicago	
Oct. 2	Farmers Savings Bank, Barnes City, Iowa,	*0.000
Oct. 10	closed Sibley State Bank, Sibley, Iowa, voluntary with- drawal	50, 000 50, 000
	No. 11—Dallas	
Oct. 15	First State Bank, Celina, Tex., voluntary with-drawal.	25,000

NATIONAL BANK MEMBERSHIP

The following list shows reported changes (except suspensions and insolvencies) affecting national bank membership, concerning which information became available between September 24 and October 21, 1929:

Federal reserve district

- 1			
:	1000	No. 1—Boston	
	Oct. 1	First National Bank, Greenfield, Mass., title changed to First National Bank & Trust Co. of	
,	Oct. 11	Greenfield. Springfield National Bank, Springfield, Mass And Chapin National Bank of Springfield Consolidated under charter of Springfield National Bank and Title of Springfield Chapin	\$1,000,000 500,000
	Oct. 18	tional Bank and Title of Springfield Chapin National Bank & Trust Co Second National Bank, Barre, Mass., primary or-	1, 500, 000
	Oct. 18	ganization North Brookfield National Bank, North Brook-	50, 000
•		field, Mass., primary organization	25, 000
;		No. 2—NEW YORK	
, -	Sept. 30	First National Bank of Yonkers, N. Y. And Bryn Mawr-Nepperhan National Bank. And Yonkers Trust Co., Yonkers, a nonmem-	600, 000 100, 000
ļ		ber bank. Consolidated under charter of First National	500, 000
	Sept. 30	Bank & Trust Co. of Yonkers Southside National Bank of Elmira, N. Y., pri-	1,000,000
	Sept. 20	mary organization. City National Bank & Trust Co., Bridgeport,	100,000
	Oct. 2	Conn. Succeeded by Bridgeport City Bank, Bridge- port, Conn., a nonmember bank. Newton National Bank, New York, N. Y., pri-	1,000,000
	Oct. 15	mary organization. Second National Bank & Trust Co., Oswego,	200, 000
-	300. 10		150, 000 200, 000
		N. Y And First National Bank, Oswego, N. Y Consolidated under charter of First National Bank and under title of First and Second National Bank & Trust Co First National Bank, Ridgewood, N. J And Ridgewood Trust Co., Ridgewood, N. J., a member bank	400,000
	Oct. 14	First National Bank, Ridgewood, N. J	100, 000
,		a member bank	150, 000 400, 000
		No. 3—Рнігадегрніа	
, [Oct. 4	Citizens National Bank & Trust Co., Blossburg,	
	Oct. 11	Pa., primary organization Drovers & Merchants National Bank, Philadelphia, Pa	125, 000 1, 000, 000
'		Absorbed by Bankers Trust Co., Phila- delphia, Pa., a nonmember bank.	3, ,
		No. 5RICHMOND	
)	Sept. 21	Citizens National Bank, Raleigh, N. C., Succeeded by Citizens Bank, Raleigh, N. C., a nonmember bank.	750, 000
	Sept. 21	Murchison National Bank, Wilmington, N. C.	1, 000, 000
,	Sept. 21	Succeeded by Murchison Bank, Wilmington, N. C., a nonmember bank. American National Bank & Trust Co., Greens- boro, N. C.——————————————————————————————————	1, 000, 000
	Sept. 21	a nonmember bank. First National Bank, Rocky Mount, N. C Succeeded by Bank of Rocky Mount, a non- member bank.	262, 500
,	Aug. 30	First National Bank of Roanoke Rapids, N. CAbsorbed by Roanoke Bank & Trust Co., Rosemary, N. C., a nonmember bank.	100, 000
		No. 6—Atlanta	
'	Oct. 11	American National Bank in Winter Haven, Fla.,	
,	Oct. 16	primary organization First National Bank of Brooksville, Fla. Succeeded by First National Bank in Brooks-	100, 000 50, 000
)		ville, Fla.	
	Sept. 23	No. 7—CHICAGO First National Bank, Chesaning, Mich Absorbed by Chesaning State Bank, a non-	50,000
,		member bank.	

Date	Federal reserve district	Capital
	No. 7—Chicago—Continued	
Sept. 27	First National Bank of Racine, Wis	\$500,000
	And Manufacturers National Bank & Trust	300, 000
	Co., Racine, Wis_ Consolidated under charter of First National Bank and title of First National Bank & Trust Co. of Racine_	1, 000, 000
Sept. 28		100,000
Sept. 26	Absorbed by Security Trust & Savings Bank, Charles City, Iowa, a nonmember bank. First National Bank, Rockwell City, Iowa Absorbed by Union State Bank, Rockwell City, Iowa, a nonmember bank. Franklin National Bank, Franklin, Ind., primary organization	50, 000
Sept. 30	Franklin National Bank, Franklin, Ind., primary	50, 000
Oct. 5	Terminal National Bank, Chicago, Ill., primary	750, 000
	organization No. 8—St. Louis	130,000
Sept. 27	Plaza National Bank, St. Louis, Mo., primary	
July 13	organization First National Bank, Loogootee, Ind Succeeded by Union Bank, a nonmember	300, 000 25, 000
Oct. 7	bank. First National Bank, Versailles, Mo. Succeeded by First National Bank in Ver-	30,000
Sept. 12	Succeeded by Kenton Banking Co., Kenton,	30, 000 25, 000
May 28	Tenn., a nonmember bank. First National Bank, Helena, Ark. Absorbed by Interstate National Bank, Helena, Ark.	200, 000
	No. 9-Minneapolis	
Aug. 5	First National Bank of Amboy, MinnSucceeded by First National Bank in Amboy, Minn.	50,000
Oct. 1	First National Bank of Savage, Mont. Absorbed by Sidney National Bank, Sidney, Mont.	25, 000
Sept. 19	Brookings National Bank, Brookings, S. Dak	50, 000
Oct. 9	Brookings, S. Dak., a nonmember bank. First National Bank, Lake Benton, Minn. Absorbed by National Citizens Bank, Lake Benton, Minn.	25, 000
Oct. 14	National Park Bank in Livingston, Mont————————————————————————————————————	100, 000 100, 000
Oct. 15	American National Bank & Trust Co., Valley City, N. Dak Succession to Middle West Trust Co. and	100, 000
	American Exchange Bank, nonmember banks.	
Aug. 1	American National Bank, Little Falls, Minn Succeeded by American National Bank in Little Falls.	100, 000
	No. 10—Kansas City	
Sept. 30	First National Bank of Muskogee, Okla, title changed to First National Bank & Trust Co. of Muskogee.	
Aug. 12	First National Bank, Taloga, Okla	25, 000
Oct. 1	nonmember bank. South Oklahoma National Bank of Oklahoma City, Okla., title changed to Oklahoma Na- tional Bank of Oklahoma City.	
	No. 12—San Francisco	
Oct. 4	Salinas National Bank, Salinas, Calif., primary organization.	250, 000

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 21 to October 25, 1929, inclusive.

	Num- ber of banks	Amount of capital
New charters issued	15	\$2, 400, 000
Restored to solvency Increase of capital approved 1	37	8, 045, 000
Aggregate of new charters, banks restored to solvency, and banks increasing capital	52	10, 445, 000
Liquidations	32	6, 707, 500
Reducing capital 2	2	89, 350
Total liquidations and reductions of capital	34	6, 796, 850
Consolidation of national banks under act of Nov. 7, 1918 3	5	5, 435, 650
under act of Feb. 25, 1927	1	400, 000
Total consolidations	6	5, 835, 650
Aggregate increased capital for period		10, 445, 000 6, 796, 850
Net increase.		3, 648, 150

¹ Includes two increases in capital aggregating \$250,000 incident to consolidations under act of Nov. 7, 1918, and one increase of \$300,000 incident to a consolidation of two national banks and one State bank under act of Nov. 7, 1918, as amended Feb. 25, 1927; also one of \$300,000 under act of Feb. 25, 1927.
² Includes one reduction in capital of \$39,350 incident to a consolidation under act of Nov. 7, 1918.
³ One of which also includes a State bank under act of Feb. 25, 1927.

Fiduciary Powers Granted to National Banks

During the month ended October 21, 1929, 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 fol-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- triet No.	Name of bank	Powers granted
New Milford, Conn	1	First National Bank	1 to 9.
Haverhill, Mass	1	Essex National Bank	1 to 3, 5 to 7 and 9.1
St. Johnsbury, Vt	1	Merchants National Bank	1 to 8.
Walden, N. Y	2	Third National Bank	1 to 9.
Blossburg, Pa	3	Citizens National Bank & Trust Co.	1 to 9.
Easton, Pa	3	Easton National Bank	1 to 9.
Philadelphia, Pa	3	Sixth National Bank	1 to 9.
Andalusia, Ala	6	Andalusia National Bank	1.
Tell City, Ind	8	Citizens National Bank	5 to 7 and 9.1
St. Louis, Mo	8	Plaza National Bank	1 to 9.
St. Paul, Minn	9	First National Bank	1 to 9.
Valley City, N. Dak	9	American National Bank & Trust Co.	1 to 9.
Omaha, Nebr	10	United States National Bank.	1 to 3, 5 to 9,2

¹ Supplementary.

² Correction.

DETAILED BANKING STATISTICS FOR THE UNITED STATES FEDERAL RESERVE BANKS

BILLS DISCOUNTED, AND DEPOSITS BY CLASS OF DEPOSIT

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

						Fee	ierai Re	serve Ba	nk				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	At- lanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
Bills discounted:													
1928-October	975. 2 897. 3	45. 9 50. 6	300. 7 238. 1	93. 7 79. 3	75. 5 85. 6	47.8 42.5	79. 4 68. 7	134. 1 138. 8	49. 8 43. 9	18. 1 16. 0	31.3 43.1	25. 3 21. 3	73. 1 69.
November December	1,013.0	65.0	298.7	91.3	108.0	40.8	57.8	178. 9	39. 6	10.4	44. 2	17.9	60.
1929—January	859. 2	60.4	245. 9	73.1	79.7	40.7	58. 5	142.7	37. 4	12.0	33. 3	20.6	55.
February	889. 2	61.9	216. 3 231, 5	85. 5	84.7	41.0	55.8	165. 9	37.8	12.8	32.5	19.2	75.
March April May	968. 6 1, 004. 4	58.6 75.8	264.6	101.6 110.0	76. 0 96. 6	43. 4 52. 6	51. 7 63. 6	210.6 133.4	48.1 51.8	15.6 19.3	31.8 38.8	14.8 18.6	85. 79.
May	956. 3	96. 5	234. 5	86.7	93. 8	58. 1	73, 4	109. 8	48.7	18.1	49.1	23. 1	64.
June July August September	978. 0	99.4	251. 2	84.7	90. 9	56. 6	65. 9	135. 9	49. 9	15. 2	48. 3	22, 3	57.
July	1, 095. 6	78.4	408.6	77.3	84.0	57.5	69. 0	122.1	55.8	17.4	35. 3	30. 2	60.
August	1, 043. 5 969. 0	79. 5 71. 3	303, 3 230, 9	92. 8 90. 6	79. 7 78. 8	59. 6 60. 1	75. 1 69. 6	120. 0 103. 9	67. 2 72. 7	24, 3 34, 4	33. 7 38. 8	43.4 41.3	64.1 76.
October	884.5	60. 7	160. 0	78.7	95. 2	53. 1	57.6	120. 2	54.7	41. 2	44.6	31.6	86.
Total deposits:		li i			ļ			i	}	i	1	1	
1928—October	2, 380. 6 2, 401. 6	155.0 154.7	902. 9 920. 9	137. 0 136. 4	190. 9 188. 9	71.3	65. 8 67. 1	357.7 357.7	83. 5 83. 8	57.0	95.7	70.8	193.
November	2, 415. 1	150.7	939.1	136.8	186. 2	71.5	69.6	357. 2	85.3	57. 5 56. 4	94. 8 94. 4	73. 7	195. 194.
December	2, 436. 3	152. 4	953. 2	139. 4	190. 1	71. 9	69. 1	358. 2	85. 9	55. 3	95, 6	73. 3	191.
Unhammer 1	2, 406. 7	149. 2	943. 2	135. 4	188. 7	71. 1	69. 1	357.0	85. 0	54.0	93.8	72.8	187.
March April May June July	2, 384. 7 2, 367. 5	145. 5 146. 4	944. 5 937. 1	134.9 135.9	188. 2 186. 4	69.5 70.2	68. 9 67. 9	349. 8 346. 8	81. 8 81. 5	54. 1 52. 9	93. 0 91. 0	70. 9 68. 6	183. 182.
May	2, 350, 9	143. 5	932.6	136. 7	187. 0	68.3	66. 1	346. 9	80.3	51. 5	89.0	66. 5	182.
June	2, 374, 4	146.0	949.6	136. 9	188.3	69. 5	65. 6	347. 6	79.6	52.7	90.3	65. 4	183.
July	2, 385. 0 2, 368. 4	149. 5	948.0	137. 4	190. 2	68.3	64.0	352.0	79. 1	54.0	93.7	64. 2	184.
August	2, 368. 4	147. 8 149. 6	932. 5 953. 5	136. 2 137. 0	191. 7 190. 5	68. 4 69. 0	62.0	357. 4 356. 3	78. 4 78. 3	53. 9	95. 2 92. 9	62.3	182.
August September October	2, 395. 4 2, 438. 0	153. 3	982.4	137. 0	188. 2	69.4	64. 6 65. 6	361.6	80.5	55. 0 55. 0	92. 9	64. 9 67. 4	183. 185.
Member bank reserve balances:	•	130.0	1	101.0	100. 2		05. 0		00.5	00.0	02.0	0	100.
1928—October	2, 332. 2	152. 5	889.7	134.8	187. 8	68.3	63. 4	353. 3	80. 5	55. 1	92. 5	68. 9	185.
November	2, 352. 3	152.0	903.4	134. 4	185. 4	69. 1	64. 8	354.0	81.5	56. 1	93. 0	71.4	187.
December 1929—January	2, 366. 8 2, 386. 7	148. 6 150. 5	923. 4 936. 3	134. 5 137. 2	183. 4 187. 0	69. 6 69. 7	67. 5 67. 2	353. 0 354. 3	83. 4 84. 2	55. 1 53. 9	93. 0 93. 9	72.2	183. 180.
February	2, 357. 3	146. 7	928. 5	133.5	185. 7	68. 6	67. 6	352.8	82. 9	52. 5	91.9	71. 8 70. 7	176.
February March April	2, 336. 5	144. 3	924.6	133. 4	185. 6	67. 6	67.7	346. 5	78. 7	53, 1	91.8	70.0	173.
April	2, 307. 9	144.1	915. 2	133. 2	183. 4	67. 2	66. 2	341.6	77.8	51.6	89. 2	66.8	171.
June	2, 296. 4 2, 314. 3	141. 9 142. 4	914.7	133.8 134.7	184. 1 184. 2	65. 6 65. 5	64. 5 63. 4	340. 8 341. 0	76. 6 75. 9	50. 2 51. 3	87. 5 88. 6	65. 1	171. 172.
May June July August	2, 333. 5	147.6	930. 9	135. 3	187. 2	65. 7	61.9	347. 2	77.0	52. 4 52. 5	92, 0	62.5	173.
August	2, 322, 4	146. 2	919. 9	134. 2	188. 5	65.4	60. 2		76. 7		92.8	61.2	172.
September October	2, 334. 5 2, 385. 6	147. 5 151. 1	930. 5 968. 4	134. 6 134. 7	187. 1 185. 5	64. 5 64. 9	61, 1 62, 4		76. 7 78. 1	53. 3 53. 2	91. 2 90. 2	62.8 65.8	174. 174.
Government deposits:	2, 000. 0	191.1	900. 1	101. 7	100.0	04. 5	02. 4	350.0	10.1	33. 2	30. 2	00.0	117.
1928October	18. 7	1.7	3. 3	1. 2	. 9	2. 2	1.6	1.4	1.2	.9	1.1	1.6	1.
November.	17. 5	1.4	2.9	1.3	1.2	1.9	1.8		1.2	.9	.9	1.4 1.2	1.
1929—January	18.8 18.2	1.4	4. 6 3. 7	1. 6 1. 3	1.2	1.7 1.7	1.7	1.5	1.1	1.0	1.2	1. 2	1.
December 1929—January February March	20. 9	1.3	4.7	i. i	1.3	2. i	1.1		1.3			î.ĭ	2
March	16.8	. 6	6.3	.8	1.1	1.5	.8	1.3	.7	.6	.6	.7	1.
April	24. 8 22. 5	1.6	6.5	1.9	1.2 1.4	2. 6 2. 3	1.3		1.1		1.1		1.
April May June	30. 4	2.9	4. 6 7. 6	2. 1 1. 4	2. 2	3,6	1.1	4.2	1. 2 1. 1		1. 2 1. 2	1.1	1.
July	20.4	1.3	3.4	1.4	1. 2	2.3	1.7 1.7	1.6	1.1	1. 2	1.4	1.5	2.
July August September	19.0	1.1	3.0		1.4	2.6	1.4	2.0	1.1				1.
September	33. 3 24. 2	1.7	12.1	1.6	1.6	4.2	3.0 2.8	2. 3 2. 2	1. 2			1.9	1
October	24. 2	1.7	3.9	1.6	1.3	4.1	2.0	2. 2	1.1	1.1	1.1	1.5	1.
1928—October	29.7	.7	9.9	10	2.1	.8	.8		1.7	1.0	2, 1	.3	6
November	31.8	1. 3	14.6		2.4	.5	. 5		1. 1			.3	6
December	29. 4	.6	11.1		1.6	.5	.4		1.0			1 .3	9
1929—January February	31. 3 28. 5	1. 2	13. 2 10. 0		2. 2 1. 8	.5	.4		.7	.5	.5	1.0	9
March	31.3	1.6	13.7	.7	1.5	.4	.4	1.9	2.4	.4	.5	1.0	8
April	34.8	. 7	15. 4		1.8	.5	.4	2.1	2. 5	. 5	.7	,3	9
May	32.0	.6	13. 3	.8	1.5	.4	.5		2. 5	.4	.4	.3	9
June 30	29. 7 31. 0		10, 1 13. 7	.8	1.8		.4		2. 5		.4	.3	8
August	27. 1	.5	9.6	.6	1.7	.4	1 :4	2,6	1.5	:4	1, 1	1 .2	8
July	27. 5	.5	10.9	.7	1.8	.4	.4	2.8	.5	.4	.7	.2	8.
Oatobox	28, 1	.5	10. 1	.7	1.4	.3	. 4	2.9	1.3	.7	1.0	. 2	8

FEDERAL RESERVE BANKS-RESOURCES AND LIABILITIES AT END OF MONTH

[In thousands of dollars]

	195	29	1928
	Oct. 31	Sept. 30	Oct. 31
RESOURCES			
Total gold reserves	3, 003, 954	r 2, 970, 911	2, 641, 096
	152, 402	154, 789	131, 900
Total reserves	3, 156, 356	3, 125, 700	2, 772, 996
	77, 454	61, 170	56, 874
	999, 704	958, 290	932, 271
Bills bought: Outright Under resale agreement	320, 485	214, 017	356, 479
	34, 502	78, 722	83, 897
Total bills bought	354, 987	292, 739	440, 376
United States securities: Bought outright	271, 032	127, 428	200, 470
	50, 050	• 34, 810	26, 629
Total United States securities	321, 082	162, 238	227, 099
	25, 131	15, 425	3, 73 0
Total bills and securities	1, 700, 904	1, 428, 692	1, 603, 476
	721	787	732
	40, 588	28, 462	19, 387
Total reserve bank credit outstanding	1, 742, 213	1, 457, 941	1, 623, 595
Federal reserve notes of other reserve banks. Other uncollected items not included in float. Bank premises. All other resources.	28, 711	22, 739	19, 584
	713, 359	600, 387	655, 508
	59, 037	58, 936	60, 548
	10, 539	59, 793	8, 933
Total resources	5, 787, 669	5, 336, 666	5, 198, 038
LIABILITIES Federal reserve notes:			
Held by other Federal reserve banks Outside Federal reserve banks	28, 711	22, 739	19, 584
	1, 870, 673	1, 840, 383	1, 690, 232
Total notes in circulation	1, 899, 384	1, 863, 122	1, 709, 816
Deposits: Member bank—reserve account	2, 665, 578	2, 326, 125	2, 370, 988
	15, 227	61, 050	20, 498
	5, 835	5, 670	6, 099
	24, 957	21, 988	21, 437
Total deposits Deferred availability items. Capital paid in. Surplus. All other liabilities.	2, 711, 597	2, 414, 833	2, 419, 022
	713, 359	r 600, 387	655, 508
	167, 026	167, 017	145, 878
	254, 398	254, 398	233, 319
	41, 905	36, 909	34, 495
Total liabilities	5, 787, 669	5, 336, 666	5, 198, 038
Contingent liability on bills purchased for foreign correspondents	502, 538	449, 217	250, 941

¹ Uncollected items (exclusive of Federal reserve notes of other Federal reserve banks) in excess of deferred availability items.

KINDS OF MONEY IN CIRCULATION, BY MONTHS

[End of month figures. In thousands of dollars]

Date	Total	Gold coin	Gold cer- tificates	Stand- ard silver dollars	Silver certifi- cates	Treas- ury notes of 1890	Subsid- iary silver	Minor coin	United States notes	Federal reserve notes	Federal reserve bank notes	Na- tional bank notes
1928—Oct. 31. Nov. 30. Dec. 31. 1929—Jan. 31. Feb. 28. Mar. 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30. Oct. 31 p.	4, 806, 230 4, 990, 114 4, 973, 168 4, 656, 617 4, 698, 362 4, 747, 683 4, 675, 647 4, 737, 637 4, 746, 863 4, 839, 859 4, 819, 275 4, 837, 987	373, 202 374, 306 395, 310 380, 952 377, 512 374, 255 371, 623 369, 997 368, 488 366, 199 364, 603 363, 701 363, 206	959, 652 1, 030, 546 990, 996 923, 193 935, 448 937, 247 905, 513 944, 058 934, 994 887, 897 887, 102 849, 551 845, 997	46, 298 46, 342 46, 475 44, 475 44, 075 43, 921 43, 727 43, 651 43, 684 43, 401 43, 055 42, 960 42, 624	394, 328 404, 860 410, 334 381, 672 385, 389 390, 583 386, 241 392, 411 387, 073 403, 964 411, 293 417, 556 414, 950	1, 296 1, 295 1, 294 1, 292 1, 291 1, 290 1, 288 1, 286 1, 283 1, 282 1, 280 1, 277 1, 276	285, 350 288, 002 291, 314 280, 751 280, 655 281, 229 282, 936 284, 226 284, 363 286, 270 289, 344 290, 627	113, 427 114, 641 115, 613 114, 007 113, 692 113, 536 114, 085 114, 454 115, 210 115, 534 115, 985 116, 816 117, 719	300, 659 306, 015 294, 199 282, 172 283, 603 283, 100 276, 227 288, 216 262, 188 242, 338 248, 670 264, 930 266, 502	1, 689, 171 1, 770, 184 1, 808, 053 1, 631, 432 1, 646, 523 1, 673, 480 1, 648, 392 1, 654, 757 1, 692, 721 1, 748, 442 1, 842, 547 1, 839, 143	3, 880 3, 848 3, 820 3, 775 3, 747 3, 709 3, 680 3, 650 3, 616 3, 587 3, 539 3, 500 3, 466	638, 965 650, 077 615, 761 612, 915 626, 344 645, 908 643, 639 642, 221 652, 812 619, 855 635, 515 630, 497 622, 527

Preliminary.

FEDERAL RESERVE BANKS—AVERAGE DAILY RESERVES AND DEMAND LIABILITIES IN OCTOBER AND SEPTEMBER, 1929

[In thousands of dollars]

Federal reserve bank	Total cas	h reserves	Total d	leposits		serve notes ulation	Reserve percentages		
	October	September	October	September	October	September	October	September	
Boston. New York. Philadelphia. Cleveland. Richmond. Atlanta. Chicago. St. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	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	262, 192 973, 749 201, 112 286, 112 90, 903 138, 606 558, 848 82, 913 76, 607 126, 676 66, 685 271, 491	153, 337 982, 447 137, 010 188, 188 69, 367 65, 596 361, 646 80, 539 55, 004 92, 329 67, 443 185, 081	149, 637 953, 484 136, 950 190, 498 69, 030 64, 551 356, 303 78, 329 55, 000 92, 919 64, 879 183, 803	204, 451 341, 006 140, 639 178, 388 84, 811 154, 908 306, 142 82, 321 67, 685 82, 700 52, 521 177, 020	193, 114 327, 126 152, 339 188, 406 81, 631 157, 480 321, 571 68, 414 67, 482 79, 836 50, 530 181, 847	79. 4 82. 2 70. 6 64. 1 58. 3 64. 2 76. 6 68. 6 55. 8 64. 4 59. 9 68. 2	76. 1 76. 6 69. 75. 60. 62. 62. 62. 62. 73. 57. 74.	
Total	2, 157, 885	3, 135, 894	2, 437, 987	2, 395, 383	1, 872, 592	1, 869, 776	73. 3	73.	

FEDERAL RESERVE BANKS-RESOURCES AND LIABILITIES, BY WEEKS

RESOURCES

		Federal Reserve Bank											
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chi- cago	St. Louis	Min- neap- olis	Kansas City	Dallas	San Fran- cisco
Gold with Federal reserve agents: Oct. 2- Oct. 9- Oct. 16 Oct. 23 Oct. 30 Gold redemption fund with U. S. Treasury:	1, 547, 526 1, 546, 526	174, 917 184, 917 184, 917	324, 330 321, 641 371, 641	117, 000 117, 000 117, 000 117, 000 100, 000	110, 300 107, 780 107, 780	46, 656 46, 656 41, 656 41, 656	103, 500 109, 500	299, 564 299, 564 279, 564	23, 800 45, 800 53, 800 53, 800 53, 800	37, 157	65, 000 60, 000 60, 000	25, 758 25, 748 27, 748 27, 748 27, 723	156, 763 181, 763 161, 763
Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	67, 146 61, 994 66, 810 68, 069 65, 939	7, 684 7, 483 7, 268 7, 115 6, 943	14, 862 14, 124 13, 343 12, 631 12, 023	5, 398 4, 310 6, 252 5, 363 4, 512	4, 295 4, 886 5, 573 5, 232 6, 551	4, 577 3, 515 4, 603 3, 927 4, 620	4, 162 4, 100 3, 780 4, 322 4, 238	6, 264 4, 886 3, 817 7, 888 6, 829	5, 716 6, 863 6, 185 6, 434 5, 856	3, 128 2, 833 4, 629 4, 317 4, 037	1, 518 3, 073 2, 673	3, 758 2, 917 3, 091 3, 291 2, 512	5, 258 4, 559 5, 196 4, 876 5, 525
Gold held exclusively against Federal reserve notes: Oct. 2. Oct. 9. Oct. 16. Oct. 23. Oct. 30 Cold settlement fund with Federal reserve board:	1, 608, 491 1, 568, 729 1, 614, 336 1, 614, 595 1, 609, 780	177, 601 182, 400 192, 185 192, 032 201, 860	339, 192 338, 454 334, 984 384, 272 383, 664	122, 363	113, 353 113, 012	51, 259	113, 280 107, 822	303, 381 287, 452	29, 516 52, 663 59, 985 60, 234 59, 656	39, 990 41, 786 41, 474	63, 073 62, 673	29, 516 28, 665 30, 839 31, 039 30, 235	186, 959 166, 639
Oct. 9	754, 211 811, 642 758, 685 779, 661 791, 887	53, 389 48, 131 45, 596 55, 534 62, 719	299, 958 302, 384 307, 884 260, 326 290, 218	44, 469 49, 293 39, 809 38, 068 32, 974	85, 544	30, 442 23, 720 21, 021 22, 428 29, 239	18, 512 18, 148 16, 595 17, 813 11, 761	72, 073 156, 243	48, 455 42, 687 47, 115 46, 005 41, 106	20, 931 19, 352 16, 337	42, 441 44, 014 39, 964	27, 480 35, 468 32, 965 26, 820 26, 355	33, 542 40, 382 32, 553 28, 395 30, 563
by banks: Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	631, 815 640, 757	28, 420	382, 098 390, 579 391, 967 408, 157 388, 824	23, 773 22, 332	35, 485 38, 025 38, 043	8, 238 8, 430 8, 771 9, 204 9, 386	3, 667 3, 948 4, 195 3, 747 3, 588	80, 116 77, 261	5, 656 5, 822 5, 864 5, 966 5, 818	3, 904 4, 330 4, 742 5, 038 5, 827	4, 831 5, 540 5, 177	8, 852 8, 885 8, 868 8, 988 9, 060	28, 392 28, 424
Total gold reserves:	3, 012, 227	262, 469 263, 830 269, 343 275, 986 291, 882	1, 021, 248 1, 031, 417 1, 034, 835 1, 052, 755 1, 062, 706	196, 650 198, 859 186, 834 182, 763 156, 455	254, 489 236, 215 231, 086 222, 783 188, 924	82, 321 81, 051 77, 215	129, 696 134, 070 129, 382	455, 570 520, 956	101, 172 112, 964 112, 205	65, 880 62, 849	110, 335 113, 790 112, 627 107, 814 104, 626	72,672	229, 648 247, 904 223, 458
Oct. 2. Oct. 9. Oct. 16. Oct. 23. Oct. 30. Oct.	158, 018 149, 448 153, 523	11, 960 10, 380 10, 178 10, 807 11, 292	64, 454	9, 161 9, 367 9, 224	6, 694 8, 410 7, 562	8, 692 7, 376 7, 246 6, 853 6, 972	12, 423 13, 663	13, 949 14, 397 12, 972	6, 234 6, 498 6, 590	2, 287 2, 567 2, 474	3, 771 4, 205 3, 831	4, 187 3, 497 4, 527 4, 613 4, 684	12, 308 12, 074 12, 381 11, 790 12, 093

FEDERAL RESERVE BANKS-RESOURCES AND LIABILITIES, BY WEEKS-Continued

 ${\tt RESOURCES-\!Continued}$

						Fed	eral Res	erve Ban	k				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chi- cago	St. Louis	Min- neap- olis	Kansas City	Dallas	San Fran- cisco
Total reserves:	3, 140, 810 3, 161, 675 3, 158, 359 3, 189, 846 3, 177, 008	279, 521 286, 793	1, 084, 920 1, 094, 337 1, 096, 159 1, 117, 209 1, 125, 143	196, 201 191, 987	242, 909 239, 496 230, 345	98, 605 89, 697 88, 297 84, 068 91, 873	140, 801 146, 493 143, 045	500, 959 469, 967 533, 928	118, 795	67, 538	114, 501 117, 561 116, 832 111, 645 109, 128	70, 035 76, 515 77, 199 71, 460 70, 334	241, 722 260, 285 235, 248
Oct. 2	66, 019 66, 856 70, 746 79, 945 85, 276	10, 124 11, 667 14, 200 17, 583 21, 694	20, 027 21, 401 20, 130 23, 420 22, 698	1, 610 1, 627 1, 623 1, 784 1, 952	4, 012 2, 950 4, 794 4, 081 5, 015	4, 995 4, 655 4, 580 4, 806 4, 694	6, 326 5, 994 5, 655 6, 415 5, 827	7, 030 6, 829 7, 461 7, 706 9, 157	2, 824 2, 906 2, 877 2, 883 2, 817	1, 335 1, 237 1, 374 2, 007 2, 314	2, 249	2, 160 2, 356 2, 655 2, 972 2, 953	3, 897 3, 229 3, 638 4, 039 3, 808
Secured by U. S. Government obligations— Oct. 2.	432, 115 383, 341 401, 458 372, 352 532, 388	33, 810 33, 173 31, 122 27, 449 22, 978	84, 705 66, 833 62, 486 58, 970 186, 606	42, 233 49, 616	50, 257 43, 227 48, 877 69, 015	20, 079 18, 310 19, 576 23, 468 21, 146	6, 198 7, 145 6, 720 9, 224 9, 498	69, 316 104, 267 51, 678 60, 787	19, 724 20, 335 25, 420 28, 186	14, 454 12, 019 10, 578 11, 121 3, 826	13, 113 16, 440 16, 911 19, 696	11, 797 10, 165 9, 531 8, 775 9, 307	51,727
Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	498, 518 473, 965 447, 477 424, 006 458, 650	37, 379 35, 603 31, 235 27, 802 22, 862	67, 113 64, 365 67, 212 48, 181 59, 516	32, 862 31, 536 31, 999 31, 395 50, 114	41, 411 42, 068	31, 597 31, 652 32, 456 31, 673 32, 795	45, 627 44, 363		48, 089 31, 688 27, 771 25, 905 26, 169	26, 959 30, 016 32, 569 32, 165 32, 678	28, 679 24, 808 29, 222	20, 835 19, 813 23, 027	53, 258 46, 605 45, 967
Total bills discounted: Oct. 2. Oct. 9. Oct. 16. Oct. 23. Oct. 30.	930, 633 857, 306 848, 935 796, 358 991, 038	71, 189 68, 776 62, 357 55, 251 45, 840	129, 698 107, 151	75, 238 72, 275 77, 733 73, 628 99, 730	91, 823 84, 638 90, 945	51, 676 49, 962 52, 032 55, 141 53, 941	57, 310	150, 238 93, 916	72, 606 51, 412 48, 106 51, 325 54, 355	41, 413 42, 035 43, 147 43, 286 36, 504	41, 792 41, 248 46, 133	31,000 29,344 31,802	95, 805 78, 047 94, 193
Bills bought in open market: Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30 U. S. Government securities:	322, 818 333, 151 360, 110 379, 383 339, 885	21, 588 22, 823 23, 072 19, 116 13, 986	124, 105	16, 106 16, 770 17, 552 17, 405 15, 768	33, 371 37, 866	12, 493 16, 541 17, 214 19, 353 20, 064	18, 943 22, 037 23, 082 25, 960 25, 074	46, 068 53, 042 50, 240	42 42 42 42 42	7, 572 6, 610 5, 482 4, 557 4, 091	17, 942 19, 789 21, 123	12, 623 13, 565 15, 635	35, 912 37, 133 40, 149
Bonds— Oct. 2. Oct. 9. Oct. 16. Oct. 23. Oct. 30. Treasury notes—	81, 261	875 689 689 689 689	155 43, 655	786 585 585 585 585		1, 152 1, 152 1, 152 1, 152 1, 152	89 26	19, 937	2, 125 2, 125 2, 125 2, 125 2, 125	4, 795 4, 564		7, 813 7, 813 7, 813 7, 913	67 67 67
Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30 Certificates of indebtedness—	79, 080 75, 538 72, 066 71, 375 120, 294	874 873	11, 965 8, 495 7, 325 56, 756	8, 832 8, 219 8, 219 8, 219 8, 219	26, 106 26, 106 26, 106 26, 105	375 375 375 375 375	2, 818 2, 818 2, 817 2, 820	1, 791 2, 271 1, 757		3, 500 3, 501	3 3 3 3	2,774 2,774 2,774 2,774 2,774	10, 611
Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	29, 024 27, 570 27, 595 26, 374 91, 133	1, 082 1, 082 1, 081 1, 081 3, 138	11, 584 11, 334 9, 954	8, 061 8, 061 8, 061 8, 061 10, 271	1, 260 1, 260 1, 260 1, 260 4, 234	282 282 282 282 282	532 564 560	2, 027 2, 148 2, 458	1, 829	525 552 661 528 545	310 310 310	675 689 675	1, 205 1, 205 1, 205
Total U. S. Government securities: Oct. 2	145, 752 140, 758 137, 628 135, 704 292, 688	2, 645 2, 644 2, 644	23, 704 19, 984 17, 434	16, 865 16, 865 16, 865	27, 914 27, 914 27, 914	1,809 1,809 1,809 1,809 1,809	3, 372 3, 416 3, 466	23, 756 23, 876 24, 666	8, 625 8, 625	9, 023 8, 823 8, 610	313 313 313 1,688	11, 262 11, 276 11, 262 12, 582	11, 883 11, 883 11, 883 11, 883
Oct. 2 Oct. 9 Oct. 16. Oct. 23 Oct. 30	14, 755 23, 755		15,300	125 1, 125 1, 125	1, 500			2,000 2,000		3, 280 4, 286			
Total bills and securities: Oct. 2. Oct. 9. Oct. 16. Oct. 23. Oct. 30.	1, 414, 228 1, 345, 970 1, 370, 428 1, 336, 656 1, 648, 742	96, 179 94, 244 89, 073 78, 011 65, 526	268 164	106 035	134, 540 153, 108 151, 918 162, 057 195, 820	68 312	86, 720 82, 719 78, 845 83, 013 89, 114	194, 242 229, 156	60,079 56,773 59,992	60, 535 60, 932 60, 952	60, 047 61, 350 67, 569	54, 885 54, 185 58, 699	138, 9 3 143, 6 0 127, 0 6 146, 225 133, 314

FEDERAL RESERVE BANKS-RESOURCES AND LIABILITIES, BY WEEKS-Continued

RESOURCES—Continued

		Federal Reserve Bank												
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chi- cago	St. Louis	Min- neap- olis	Kansas City	Dallas	San Fran- cisco	
Due from foreign banks; Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	754 727 721	53 54 53	254 262 253 221 218	76 75 69 70 69	80 73 74	36 36 33 33 33	31 28 28	108 108 98 100 99		20 20 18 18 18	26 24 24	26 26 24 24 24	57 57 52 52 52 52	
Uncollected items: Oct. 2. Oct. 9. Oct. 16. Oct. 23. Oct. 30. Bank premises:	816, 320 733, 640 1, 049, 813 776, 614 772, 955	82, 339 73, 875 105, 656 80, 494 87, 619	238, 228 198, 232 313, 350 213, 618 220, 676	70, 922 59, 968 86, 173 62, 574 65, 639	65, 710 104, 802 73, 194	56, 989 53, 501 72, 070 58, 363 57, 323	22, 961 31, 324 23, 855	95, 277 90, 243 126, 346 94, 859 89, 767	38, 083 38, 635 44, 619 36, 148 35, 601	17, 080 17, 048 18, 598 17, 754 15, 178	46, 940 44, 768 52, 723 45, 154 40, 806	28, 214 29, 314 42, 313 29, 371 27, 053	39, 249 39, 385 51, 839 41, 230 38, 320	
Oct. 2	58, 935 58, 935 58, 944 58, 944 59, 036	3, 702 3, 702 3, 702 3, 702 3, 702	16, 087 16, 087 16, 087 16, 087 16, 087	1, 762 1, 762 1, 762 1, 762 1, 762	6, 535 6, 535	3, 395 3, 395 3, 395 3, 395 3, 395	2, 744 2, 744 2, 744 2, 744 2, 744	8, 529 8, 529 8, 529 8, 529 8, 529	3, 997 3, 997 3, 997 3, 997 3, 996	2, 110 2, 110 2, 110 2, 110 2, 110	4, 140 4, 140 4, 140 4, 140 4, 140	1, 922 1, 922 1, 922 1, 922 1, 922	4, 012 4, 012 4, 021 4, 021 4, 114	
All other resources: Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	9, 814 9, 865 9, 077 9, 238 10, 625	116 117 117 119 106	740 797 690 786 2, 1 85	132 137 147 149 164	1, 239 1, 252 1, 267 1, 286 1, 305	549 532 523 571 563	4, 109 4, 055 4, 009 3, 894 3, 850	836 858 457 537 559	309 372 362 357 344	609 575 500 524 512	232 216 204 200 205	474 480 324 331 342	469 474 477 484 490	
Total resources:	5, 506, 927 5, 377, 749 5, 718, 121 5, 451, 970 5, 754, 363	466, 947 457, 873 492, 322 466, 756 481, 874	1, 680, 976 1, 599, 280 1, 723, 472 1, 635, 331 1, 907, 810	390, 364 377, 624 399, 250 367, 349 370, 510	487, 520 472, 544 508, 885 477, 572 477, 728	230, 547 220, 128 239, 953 227, 539 233, 695	269.0981	801, 768	228, 119	151, 979	225, 02 0 228, 763 237, 032 230, 981 230, 254	164, 779)	432, 479 447, 375 431, 299	
				LIA	BILITII	es					 -i			
Federal reserve notes in circulation: Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30 Deposits: Member bank—Reserve	1, 851, 167 1, 860, 300 1, 859, 621 1, 857, 332 1, 880, 192	199, 786 203, 202 205, 044 203, 801 208, 369	332, 891 333, 969 337, 985 354, 854		182, 362 177, 601 176, 388 174, 528	80, 964 82, 495 84, 410 85, 753 86, 556	153, 105 153, 393 153, 699 157, 135	307, 325 303, 805 302, 448 300, 808	74, 277 77, 442 82, 688 86, 066 88, 219	68, 200 67, 638 67, 529 68, 347 66, 837	80, 614 82, 007 82, 934 83, 122 83, 447	51, 815 52, 732 52, 479 52, 615 51, 007	176, 955 177, 256 176, 519 175, 061 175, 808	
Oct. 2 Oct. 90. Oct. 16 Oct. 23 Oct. 30 Government—	2, 398, 926 2, 338, 979 2, 408, 482 2, 378, 097 2, 651, 608	152, 465 147, 218 151, 635 150, 323 153, 533	985, 276 937, 456 969, 012 952, 818 1, 198, 821	136, 104 136, 466 136, 968 135, 737 133, 380	188, 924 181, 570 186, 962 184, 526 187, 717	66, 744 63, 856 66, 574 64, 303 69, 259	62, 214 63, 344 63, 211 63, 732 63, 276	350, 526 346, 464 357, 979 360, 692 372, 160	76, 328 78, 785 79, 490 79, 919 78, 345	54, 353 53, 704 55, 157 53, 843 56, 397	88, 003 90, 723 92, 750 92, 506 93, 259	63, 787 66, 562 68, 889 66, 139 66, 899	174, 202 172, 831 179, 855 173, 559 178, 562	
Oct. 2 Oct. 9 Oct. 16	25, 351 15, 837	2, 157 1, 941 1, 716 1, 113 1, 152	12, 288 2, 550 6, 302 2, 556 2, 915	1, 542 1, 894 3, 336 538 605	1, 543 899 252 187 1, 195	10, 041 2, 639 954 1, 420 2, 516	5, 992 2, 289 3, 882 2, 692 1, 611	3, 882 2, 099 1, 423 2, 216 3, 188	1, 350 522 809 163 498	1,799 875 1,034 938 1,185	1, 123 990 395 1, 243 1, 099	2, 222 1, 851 2, 774 1, 390 1, 147	661 4, 162 2, 474 1, 381 1, 856	
Oct. 30 Foreign bank— Oct. 2. Oct. 9. Oct. 16 Oct. 23 Oct. 30 Oct. 30 Other deposits—	5, 203 5, 920 5, 709	416 416 416 385 385	2, 709 3, 859 1, 287 2, 293 2, 082	539 539 539 499 499	573 573 573 531 531	259 259 259 239 239	219 219 219 203 203	770 770 770 713 713	225 225 225 208 208	140 140 140 130 130	185 185 185 172 172	185 185 185 172 172	405 405 405 375 375	
Oct. 2	20, 558 17, 943 21, 591 22, 078 20, 187	188 72 90 82 24	8, 647 6, 644 9, 371 8, 202 8, 119	127 110 310 231 126	1, 009 814 837 927 639	161 128 94 65 81	194 149 317 167 183	1, 631 830 1, 356 2, 981 3, 070	251 248 273 231 206	241 246 281 277 240	275 204 218 195 237	23 39 60 26 48	7, 811 8, 459 8, 384 8, 694 7, 214	
Total deposits: Oct. 2. Oct. 9. Oct. 16. Oct. 23. Oct. 30.	2, 470, 709 2, 387, 408 2, 460, 627 2, 421, 932 2, 696, 471	155, 226 149, 647 153, 857 151, 903 155, 094	1, 008, 920 950, 509 985, 972 965, 869 1, 211, 937	138, 312 139, 009 141, 153 137, 005 134, 610	192, 049 183, 856 188, 624 186, 171 190, 082	77, 205 66, 882 67, 881 66, 027 72, 095	66, 794	350, 163	78, 154 79, 780 80, 797 80, 521 79, 257	56, 533 54, 965 56, 612 55, 188 57, 952	89, 586 92, 102 93, 548 94, 116 94, 767	66, 217 68, 637 71, 908 67, 727 68, 266	183, 079 185, 857 191, 118 184, 009 188, 007	

FEDERAL RESERVE BANKS—RESOURCES AND LIABILITIES, BY WEEKS—Continued

LIABILITIES—Continued

						Fed	eral Res	erve Bar	ık				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chi- cago	St. Louis	Min- neap- olis	Kansas City	Dallas	San Fran- cisco
Deferred availability items:	726, 600	79, 061	195, 987	63, 616	70, 086	52, 056	21, 220	87, 545	38, 300	14, 312	40, 274	27, 944	36, 199
Oct. 9	670, 376 937, 453	72, 095 100, 444	169, 565 257, 113 184, 558	53, 529 75, 546	60, 738	52, 056 50, 378 67, 256 55, 268	21, 418 29, 259	81,844	38, 113 46, 548	14, 838	40, 039	29, 803	38, 016
Oat 93	711 073	78, 037	184, 558	54, 937	96, 931 69, 151	55, 268	29, 239	114, 039 84, 799	37, 471	16, 189 13, 482	45, 860 38, 970	30, 070	48, 344 40, 692
Oct. 30 Capital paid in: Oct. 2 Oct. 9	714, 209	85, 340	192, 806	59, 886	67, 067	54, 540	22, 321	82, 385	35, 620	12, 775	37, 225	27, 573	36, 671
Capital paid in:	166, 907	10, 800	64, 345	16, 518	15, 590	6, 051	5, 371	19, 844	5, 220	3, 051	4, 259	4, 488	11, 370
Oct. 9	166, 934	10.768	64 375	16 535	15, 591	6,021	5, 371	19, 873	5, 220	3,054	4, 259	4, 488	11, 379
Oct. 16 Oct. 23	166, 998 167, 025	10, 788 10, 791	64, 387 64, 389	16, 535 16, 526	15, 590 15, 597	6, 021 6, 021	5, 377 5, 385	19, 889 19, 896	5, 219	3, 063 3, 063	4, 259 4, 264	4, 487 4, 487	11, 383 11, 383
Oct. 30	167, 025	10, 791	64, 388	16, 487	15, 596	6, 021	5, 383	19, 888	5, 238	3,075	4, 288	4, 487	11, 383
Surplus:		10 610	71 000	04 101	00.045			DO 440	*0.000	# 000	0.000	0.000	17 070
Oct. 2 Oct. 9	254, 398 254, 398 254, 398	19, 619 19, 619	71, 282 71, 282 71, 282 71, 282 71, 282	24, 101 24, 101	26, 345 26, 345	12, 399 12, 399	10, 554 10, 554	36, 442 36, 442	10, 820 10, 820	7, 082 7, 082	9, 086 9, 086	8, 690 8, 690	17, 978 17, 978
Oct. 9 Oct. 16 Oct. 23 Oct. 30	254, 398	19, 619	71, 282	24, 101	26, 345	12, 399	10,554	36, 442	10, 820	7,082	9, 086	8,690	17, 978
Oct. 23	254, 398 254, 398	19, 619	71, 282	24, 101 24, 101	26, 345 26, 345	12, 399 12, 399	10, 554 10, 554	36, 442 36, 442	10, 820 10, 820	7, 082 7, 082	9, 086 9, 086	8, 690 8, 690	17, 978 17, 978
All other habilities:	1 1	1 1			·						'	,	17, 510
Oct. 2	37, 146	2, 455	10, 689	2, 521	3, 456	1,872	2, 806 2, 856 2, 886	5, 980	1,841	1, 394	1, 201	1,085	1,846
Oct. 9 Oct. 16	39, 024	2, 542 2, 570	10, 658 10, 749	2, 605 2, 665	3, 652 3, 794	1, 953 1, 986	2, 886	6, 121 6, 311	2, 049 2, 047	1, 486 1, 504		1, 148 1, 134	1, 993 2, 033
Oct. 23 Oct. 30	40, 210	2,605	11, 248	2,733	3, 920	2,071	2, 924	6, 294	2, 100	1,526	1,423	1,190	2, 176
Oct. 30	42, 068	2, 661	12, 543	2,802	4, 110	2,084	2, 999	6, 354	2, 138	1, 531	1, 441	1, 219	2, 186
Total liabilities:													
Oct. 2	5, 506, 927	466, 947	1, 680, 976 1, 599, 280	390, 364 377, 624	487, 520 472, 544	230, 547 220, 128	262, 404 259, 305	816, 299 801, 768	208, 612	150, 572 149, 063	225, 020 228, 763	160, 239 165, 498	
Oet. 16	5, 718, 121	492, 322	1.723 472	1 399, 250	508 885	230 953	l 269, 098	842,014	228, 119	151, 979	1237,032	178,622	447, 375
Oct. 9	5, 451, 970	466, 756	1, 635, 331 1, 907, 810	367, 349	477, 572	227, 539 233, 695	262, 994	816, 481	222, 201	148, 688	230, 981	164, 779	431, 299
Oct. 30	5, 754, 363	481, 874	1, 907, 810	370, 510	477,728	233, 695	263, 665	825, 008	221, 292	149, 252	230, 254	161, 242	432, 033
MEMORANDA							ļ						
Ratio of total reserves to Federal reserve note and deposit liabilities combined (per cent):													
Oct. 2	72. 7 74. 4	77. 3 77. 7	81. 0 85. 3		70. 6 66. 3								
Oct. 2 Oct. 9 Oct. 16	73. 1	77.9	83. 0		65.4	58.0	66.3	70.6	73. 1	55. 1	66. 2	62.1	70.8
OCE. 23	74.0						64.9						65. 5 69. 5
Contingent liability on hills	69. 4	83. 4	71.8	61.8	54.1	57.9	62. 4	78.7	67.9	60. 6	61. 2	59.0	69. 2
Oct. 30	452.000	29 079	144 909	49 644	45 210	90.424	17 294	60 957	17 769	11, 105	14, 659	14, 659	31, 983
Oct. 9	453, 968 456, 505	32, 872 33, 343	144, 293 142, 449	42, 644 43, 256	45, 310 45, 959	20, 727	17, 573	61, 730	18, 023	11, 265	14,869	14,869	32, 442
Oct. 2 Oct. 9 Oct. 16	456, 505 463, 153	33, 804	144, 756	43, 256 43, 854	46, 595	21, 013	17, 816	62, 583	18, 272	11, 420	15,075	15, 075	32, 890
Oct. 23	486, 956 500, 833	34, 273	142, 449 144, 756 164, 138 153, 269	44, 463 47, 871	47, 242 50, 863	21, 305 22, 938	18,063 19,448	62, 583 63, 452 68, 316	18, 526 19, 946	11, 579 12, 466	15, 284 16, 456	15, 284 16, 456	
Oct. 23	300,000	00,001	100, 200	11,011	00,000	22,000	10,110	00,010	10,010	12, 10	10, 200	10, 200	00,000
hanks:	400 6:-	47.00-	150.050	90.010	00 501	14 000	97.000	47 540	10 404	0.016	10.020	10, 275	65 70
Oct. 2 Oct. 9 Oct. 16	460, 315 452, 923	47, 227 56, 649	159, 078 155, 372	39, 012 34, 470		13, 425	28, 477	47, 542 43, 633	12, 424 15, 580	6, 616 6, 711	l 8,750	9,609	65, 590 62, 28
Oct. 16	462, 509	37, 739	160, 284	30, 729	31, 088	15, 596	30, 074	39,875	18, 359	10, 210	14, 105	10,622	63, 828
Oct. 23 Oct. 30	454, 029	39, 253 38, 247	161, 035 163, 625			15, 822 16, 918	28, 092 30, 657		15, 611 13, 406		8, 795 8, 919	10, 787 10, 763	67, 058 61, 770
OC. 80	440, 100	30, 241	100,020	20, 242	21, 300	10, 310	00,001	10,010	10, 100	0, 200	1 0,510	1 .,,,,,,,,	",,,,,,

FEDERAL RESERVE NOTES—FEDERAL RESERVE AGENTS' ACCOUNTS, BY WEEKS

						Fe	deral Re	serve Ba	nk				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
Federal reserve notes received													
from comptroller:	0 510 110	900 400	054 550	044 100	000 050	100.00	007 700	F01 001	104 501	140.045	100 010	00 40=	070 644
Oct. 2- Oct. 9- Oct. 16-	3, 710, 112 3, 648, 718 3, 593, 575	330, 403	954, 576 937, 013	246, 128 234, 855	288, 250	168, 634	297, 786 295, 722	538, 538	124, 551	142, 845	133, 313 130, 977		
Oct. 16	3, 593, 575	302, 833	927, 468	227, 519	289 064	167 300	294, 057	535, 260	129, 597	139, 568			369, 64
Oct. 23	1 3, 524, 3811	298, 704	917, 250	224, 982	271, 506	166, 369	287, 801	526, 678	126, 787	132, 414	124, 837	78, 034	369, 019
Oct. 30 Federal reserve notes held by	3, 524, 381 3, 505, 925	301,066	922, 309	218,006	265, 301	165, 188	285, 942	522, 146	127, 495	129, 206		80, 752	
Federal reserve notes held by	' '	· 1	<u> </u>	ĺ í	,	· '	· '	,	<i>'</i>	,	ĺ .	,	
Federal reserve agent:												~~ ~	
Oct. 2 Oct. 9	1, 398, 630	89, 450	465, 745	61, 820	87, 725	74, 554	116, 260	204, 080	37, 830	68, 029	42,660	20, 377	
Oct. 16	1, 335, 495	80,050	448, 750 433, 215	58, 540 57, 540	92, 825 80, 375	72, 714	114, 140	101 580	34, 590 28, 550	66, 929 61, 829			129, 300
Oct. 10	1, 271, 440	55 650	418, 230	60, 940	72, 520	64 704	110, 590 106, 010	180 120	25, 110	55, 194			126, 900
Oct. 23 Oct. 30	1, 176, 625	54, 450	403, 830	59, 140		61, 714	98, 150	173, 020	25, 870			18, 982	126, 900
												;,	
Federal reserve notes issued to]												i
Federal reserve bank:	0.011.400	0.00	100 001					A** AA*	00 =04		00.000	40.000	
Oct. 2	2, 311, 482	247, 013 259, 851	488, 831	184, 308	200, 525	95, 253	181, 526	357, 221 350, 958	86, 701	74, 816	90,653		
Oct. 2	2, 313, 223	242, 783	488, 263 494, 253	169, 979	200, 324	100,000	181, 582 183, 467	242 680	93, 022 101, 047	74, 349 77, 739	90, 757 97, 039	62, 341 63, 101	
Oct. 23	2, 311, 361	243, 054	499, 020	164, 042	108 086	101, 575	181, 791	346, 558	101, 677	77, 220	91, 917	63, 402	
Oct. 30.	2, 329, 300	246, 616	518, 479	158, 866	196, 481	103, 474	187, 792	349, 126	101, 625	75, 127	92, 366	61, 770	
Oct. 30 Collateral held as security for					,	,	,				1		.,
Federal reserve notes issued to								1					
Federal reserve bank:	i							i					
Gold and gold certificates— Oct. 2	414, 409	35 300	220 704	29,600	28, 900	16, 190	0.500		7, 800	14 157		17, 258	35, 000
Oct. 9	410, 799	35, 300	220, 704 220, 704	29, 600	25, 300	16, 190	9,500		7, 800	14, 157		17, 248	
Oct. 16	405, 590	35, 300	218,015	29, 600	22, 780	16, 190	9, 500		7, 800	14, 157		17, 248	
Oct. 23	1 405 590i	35, 300	218, 015	29,600	22, 780	16, 190	9, 500		7, 800	14, 157		17, 248	35,000
Oct. 30 Gold fund, Federal Reserve	403, 405	35, 300	218, 015	29,600	20,620	16, 190	9, 500		7,800	14, 157		17, 223	35,000
Gold fund, Federal Reserve													
Board—	1, 126, 936	124 617	102 606	97 400	100 000	20. 400	00 000	200 204	10 000	28, 000	70,000	9 500	126, 763
Oct. 2 Oct. 9	1 005 036	130, 617	103, 626 103, 626	87, 400 87, 400	100, 000 85, 000	30, 466 30, 466	92,000	329, 564 299, 564	16, 000 38, 000	23, 000	65, 000	8 500	121, 763
Oct. 16.	1, 141, 936	149, 617	103, 626	87, 400	85, 000	30, 466	100 000	299, 564	46,000		60,000	10, 500	146, 763
Oct. 23.	1, 140, 936	149, 617	153, 626	87, 400	85,000	25, 466	94, 000	279, 564	46,000	23, 000	60,000	10, 500	126, 763
Oct. 23 Oct. 30	1, 140, 436	159, 617	153, 626	70, 400	75,000	25, 466	95, 500	279, 564	46,000	23,000	60,000	10, 500	141, 763
Eligible paper—													
Oct. 2	1, 178, 936	91, 521	237, 232	78, 078	98, 689	59, 195	82, 459	184, 977	72, 475	48, 291	55, 904	45, 536	124, 579
Oct 18	1,110,034	90, 344	193, 914	72, 489 76, 066	120, 556 119, 381	61, 483 63, 011	78, 641 74, 557	167, 533 200, 844	51, 341 48, 033	48, 088 48, 066	59, 056 60, 348		130, 195 113, 928
Oct. 23	1, 083, 125	73, 104	212, 489 172, 223	79, 019	126, 970	66, 566	78 844	141, 727	51, 250	48,000	66, 543	46, 651	133, 047
Oct. 30	1, 275, 869	58, 563	334, 023	88, 825	161, 626	68, 954	83, 357	149, 656	54, 284	40, 036	71, 149	45, 270	120, 126
													
Total collateral:	9 790 901	001 400	F01 F00	105.050	007 700	105.05-	100.050	.,, ,,,	00.05-	00.440	10" 004	71 004	000 010
Oct 9	2, 720, 281	261, 438 265, 261	518 244	195, 078 189, 489	227, 589	105, 851	183, 959 182, 141 184, 057	514, 541 467, 097	96, 275 97, 141	90, 448	125, 904	71, 294 68, 642	
Oct. 16	2, 690, 573	269, 086	534 130	193, 066	227 161	100, 109	184 057	500, 408	101, 833	85 222	124, 056 120, 348	69, 903	286, 958 295, 691
Oct. 2	2, 629, 651	258, 021	543, 864	196, 019	234, 750	108, 222	182, 344	421, 291	105, 050	84, 338	126, 543	74, 399	293, 091
Oct. 30.	2, 819, 710	253, 480		188, 825	257, 246	110, 610	188, 357	429, 220			131, 149	72, 993	296, 889

MATURITY DISTRIBUTION OF BILLS, CERTIFICATES OF INDEBTEDNESS, AND MUNICIPAL WARRANTS

[In thousands of dollars]

	Total	Within 15 days	16 to 30 days	31 to 60 days	61 to 90 days	91 days to 6 months	Over 6 months
Bills discounted:							
Oct. 2.	930, 633	695, 164	66, 416	98, 649	63, 969	5, 997	438
Oct. 9	857, 306	639, 414	67, 629	84, 792	58, 901	6, 102	468
Oct. 16	848, 935	648, 638	59, 738	82, 640	50, 939	6,754	226
Oct. 23	796, 358	603, 173	52, 609	84, 054	48, 596	7,641	283
Oct. 30	991, 038	784, 594	51,616	94, 601	49, 726	10, 170	331
Bills bought in open market:	331, 000	701,001	01,010	01,001	10,120	10, 110	301
Oct. 2.	322, 818	124, 265	37, 089	61, 388	97, 441	2 625	
Oct. 9	333, 151	85, 797	41, 777	84, 964	118, 464	2,000	
Oct. 9	360, 110	94, 021	37, 627	96, 796	130, 028	1 290	
Oct. 23	379, 383	95, 715	37, 294	111, 603	131, 233		
Oct. 23			46, 503				
Certificates of indebtedness:	339,885	70, 968	40, 505	133, 870	86, 755	1, 789	
Jertineates of indeptedness:	00.004	7 100			- 0-4	0.000	1
Oct. 2.	29, 024					2, 230	14, 550
Oct. 9	27,570					917	14, 529
Oct. 16	27, 595			5, 023			14, 821
Oct. 23.	26,374						14, 74
Oct. 30	91, 133	1,300	;	40,964		29, 222	19, 647
Municipal warrants:							
Oct. 2	425	300					
Oct. 9	155				125	30	
Oct. 16	155				125	30	
Oct. 23	1, 161	1		600	436	125	
Oct. 30	1, 131			725	406	1	

GOLD SETTLEMENT FUND-INTERBANK TRANSACTIONS FROM SEPTEMBER 18 TO OCTOBER 23, 1929, INCLUSIVE

[In thousands of dollars]

Federal reserve bank	Transfers f ment a		Transit	clearing	Federal res			ownership rough trans- clearings	Balance in fund at close of
	Debits	Credits	Debits	Credits	Debits	Credits	Decrease	Increase	period
Boston. New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis. Minneapolis. Kansas City. Dallas. San Francisco. Total, 5 weeks ending— Oct. 23, 1929 Sept. 18, 1929 Oct. 24, 1928. Sept. 19, 1928.	9, 500 11, 000 14, 500 12, 500 21, 000 1, 500 5, 000 5, 500 97, 500 129, 200 178, 400	500 70,000 1,500 3,000 1,000 6,000 4,500 500 0,500 1,500 2,500 97,500 129,200 178,400 207,700	1, 390, 583 4, 883, 296 1, 161, 341 1, 164, 658 1, 053, 017 460, 893 2, 022, 579 808, 263 273, 671 660, 455 540, 652 616, 039 15, 035, 447 12, 976, 316 13, 428, 986	1, 397, 598 4, 963, 552 1, 170, 087 1, 128, 138 1, 061, 651 470, 691 2, 028, 057 825, 229 258, 474 624, 245 542, 109 565, 616 15, 035, 447 12, 976, 316 13, 428, 986	5, 901 14, 758 10, 258 11, 651 3, 517 3, 633 15, 210 15, 230 3, 585 3, 067 3, 632 2, 375 4, 634 82, 221 85, 322 71, 303 72, 170	20, 669 6, 539 5, 973 5, 631 4, 659 11, 253 5, 698 2, 419 4, 945 2, 167 3, 791 82, 221 85, 322	2, 973 50, 198 3, 752 676 13, 479 16, 345 29, 897 2, 251 54, 266 173, 837	23, 579	71, 728 22, 428 17, 812 156, 243 46, 005 16, 338 39, 964

WEEKLY REPORTING MEMBER BANKS IN LEADING CITIES

PRINCIPAL RESOURCES AND LIABILITIES, BY WEEKS

[In millions of dollars]

	,							-		· -			
	Total	Boston	New York	Phila- del- phia	Cleve- land	Rich- mond	Atlan- ta	Chica- go	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
													
Loans and investments:													
Oct. 2	22, 829	1.553	8,825	1. 242	2, 200	683	652	3, 397	700	414	696	494	1,973
Oct. 9	22, 673	1,540	8,720	1, 246	2, 184	682	649	3,378	701	414	697	500	1,962
Oct. 16	22,794	1,549	8,786	1, 247	2, 179	680	638	3, 430	702	415	704	495	1,968
Oct. 23	22, 895	1, 553	8, 908	1, 239	2, 179	682	643	3, 417	700	416	701	496	1, 960
Oct. 30	24, 431	1,566	10, 288	1, 261	2, 218	674	643	3, 482	709	416	706	504	1,964
Loans: Oct. 2	17, 428	1, 216	6, 838	937	1,569	525	528	2,739	546	292	468	375	1 202
Oct. 9	17, 425	1, 216	6, 714	942	1,558	524	526	2,739	545	290	469	384	1,393 1,387
Oct. 16	17, 203	1, 220	6. 778	940	1,557	522	516	2,779	546	290	477	380	1, 391
Oct. 23	17, 500	1, 224	6, 889	934	1, 561	525	522	2, 765	546	292	474	381	1, 388
Oct. 30	18, 934	1, 237	8, 170	958	1,593	516	519	2,830	553	293	476	386	1, 404

WEEKLY REPORTING MEMBER BANKS IN LEADING CITIES—Continued PRINCIPAL RESOURCES AND LIABILITIES, BY WEEKS—Continued

[In millions of dollars]

	Total	Boston	New York	Phila- del- phia	Cleve- land	Rich- mond	Atlan- ta	Chica- go	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
Loans—Continued On securities— Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30 All other—	7, 828 7, 687 7, 875 7, 920 9, 179	533 529 547 546 553	3, 390 3, 276 3, 406 3, 471 4, 651	487 491 488 487 512	740 729 724 729 756	204 201 201 204 190	161 163 153 157 151	1, 299 1, 292 1, 344 1, 330 1, 363	241 242 243 243 250	88 87 85 86 87	131 130 133 128 125	105 105 104 102 102	446 443 447 438 439
Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	9, 600 9, 582 9, 522 9, 580 9, 755	682 675 673 677 684	3, 449 3, 437 3, 373 3, 419 3, 519	450 451 453 447 445	829 830 834 832 836	321 323 321 321 321 326	367 362 363 365 369	1, 439 1, 434 1, 435 1, 435 1, 466	305 303 303 303 303	204 203 205 206 206	337 339 343 346 351	271 279 276 279 284	947 945 944 951 965
Investments:	5, 401 5, 403 5, 397 5, 395 5, 496	338 335 329 330 329	1, 986 2, 006 2, 008 2, 019 2, 118	305 304 307 305 303	630 626 622 618 626	157 158 158 157 157	124 123 122 121 123	658 652 651 652 652	154 156 156 155 156	122 124 125 125 124	228 228 227 227 231	119 116 115 115 118	580 575 577 571 559
U. S. Government securities— Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	2, 660 2, 656 2, 652 2, 654 2, 682	172 172 165 166 165	1, 022 1, 033 1, 040 1, 049 1, 090	94 94 94 93 92	305 302 300 296 297	73 73 73 73 73 73	57 57 56 56 57	305 297 300 302 298	47 47 47 47 47	67 69 69 69 168	103 103 102 102 104	77 74 74 73 74	337 333 333 329 317
All other— Oct. 2. Oct. 9. Oct. 16. Oct. 23. Oct. 30. Reserve with Federal reserve	2, 741 2, 747 2, 745 2, 740 2, 814	165 163 165 164 164	964 973 968 970 1,028	210 210 213 212 211	325 324 322 322 329	84 85 85 84 84	66 66 66 66	353 355 352 350 354	107 108 109 108 109	55 55 56 56 56	125 125 125 125 127	42 42 41 42 44	242 242 245 242 242
Dank: Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	1, 727 1, 686 1, 747 1, 725 1, 990	102 98 102 101 105	819 790 818 805 1,045	74 76 76 75 74	128 123 126 126 129	41 39 41 38 44	40 40 40 40 39	257 254 265 269 279	43 44 45 45 44	27 27 27 27 27 30	55 57 60 58 59	32 34 35 34 33	109 104 112 106 111
Cash in vault: Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	230 248 230 238 269	17 18 17 17 17	66 71 65 68 91	13 15 15 14 15	28 30 27 29 31	12 13 12 12 13	9 10 9 10 10	37 38 36 37 40	7 7 7 7 7	6 6 6 6	11 12 11 11 11	7 8 7 8 8	19 20 18 19 20
Net demand deposits:	13, 295 13, 040 13, 406 13, 314 15, 110	948 916 951 940 992	5, 888 5, 702 5, 885 5, 893 7, 458	693 697 698 694 709	1,041 1,011 1,033 1,021 1,056	354 350 354 350 348	325 326 326 319 317	1, 903 1, 895 1, 950 1, 945 2, 025	356 371 380 372 377	234 229 233 231 247	495 496 505 497 496	287 296 303 295 298	771 750 790 758 788
Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	6, 825 6, 803 6, 815 6, 883 6, 868	457 458 458 455 466	1, 794 1, 790 1, 798 1, 843 1, 837	272 269 266 265 263	941 935 937 936 938	245 245 245 245 245 244	230 230 228 229 227	1, 243 1, 234 1, 232 1, 269 1, 265	231 234 233 233 232	131 131 131 131 130	182 182 182 181 180	141 140 139 139 139	957 955 965 957 947
Government deposits: Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	227 209 159 131 127	13 12 9 7 7	70 64 49 40 39	23 21 16 13 13	27 25 19 16 15	8 7 5 4 4	16 14 11 9 9	22 21 16 13 13	4 3 3 2 2	1 1 1 1	3 3 2 2 2 2	17 16 12 10 10	23 22 16 13 13
Due from banks:	1, 217 1, 126 1, 269 1, 144 1, 257	55 57 69 55 65	176 158 185 174 194	64 54 62 59 61	96 87 100 87 108	51 50 57 50 53	75 78 85 77 77	239 196 219 201 239	61 62 68 65 66	54 52 56 54 56	122 120 131 120 123	67 61 71 56 58	159 150 164 146 156
Due to banks:	2, 888 2, 748 2, 967 2, 685 3, 290	123 115 129 122 153	1,027 938 1,062 932 1,444	167 159 170 153 161	211 191 209 184 191	100 98 105 100 101	104 109 118 112 112	447 430 443 409 432	121 129 123 123 126	83 80 79 76 80	207 205 212 199 199	105 113 114 102 104	195 185 198 174 187
Danks: Oct. 2 Oct. 9 Oct. 16 Oct. 23 Oct. 30	672 612 605 554 729	44 43 37 32 24	103 86 85 66 197	39 38 44 40 61	59 68 61 67 97	25 22 25 27 28	46 41 37 38 41	121 97 120 63 70	53 34 31 33 38	38 39 40 40 33	32 32 31 35 39	24 21 22 24 25	88 90 73 88 77

FEDERAL RESERVE BULLETIN

LAND BANKS AND INTERMEDIATE CREDIT BANKS

LOANS OF FEDERAL AND JOINT-STOCK LAND BANKS

[In thousands of dollars]

	Net amou	nt of loans o	utstanding
Date	Total	Federal land banks (12 banks)	Joint-stock land banks
1927			
Sept. 30 Oct. 31	1, 752, 665	1, 143, 130	609, 535
Oct. 31	1, 757, 185	1, 147, 135	610, 050
Nov. 30	1, 758, 834	1, 150, 943	607, 891
Dec. 31	1, 765, 121	1, 155, 644	609, 477
1928		1	
Jan. 31	1, 767, 515	1, 158, 717	608, 798
Feb. 29	1, 778, 338	1, 168, 354	609, 984
Mar. 31	1, 786, 862	1, 175, 858	611, 004
Apr. 30	1, 791, 341	1, 180, 420	610, 921
May 31	1, 793, 035	1, 183, 672	609, 363
June 30	1, 794, 236	1, 184, 656	609, 580
July 31	1, 793, 610	1, 185, 714	607, 896
Aug. 31	1, 796, 591	1, 187, 365	609, 226
Sept. 30	1, 797, 796	1, 189, 345	608, 451
Oct. 31	1, 797, 910	1, 190, 278	607, 632
Nov. 30	1, 797, 319	1, 191, 724	605, 595
Dec. 31	1, 799, 045	1, 193, 846	605, 199
1929		1	
Jan. 31	1, 799, 464	1, 195, 089	604, 375
Feb. 28	1, 803, 593	1, 199, 766	603, 827
Mar. 30	1, 803, 691	1, 202, 570	601, 121
Apr. 30	1, 803, 115	1, 203, 724	599, 391
May 31	1, 802, 160	1, 204, 128	598, 032
June 30	1, 802, 872	1, 204, 916	597, 956
July 31	1, 800, 766	1, 204, 363	596, 403
Aug. 31	1, 798, 682	1, 203, 806	594, 876
Sept. 30	1, 795, 878	1, 202, 490	593, 388

¹ Number of banks, 1927: September-November, 52; December, 51. 1928: January-April, 51; May-November, 50; December, 49. 1929: January to date, 49.

LOANS OF INTERMEDIATE CREDIT BANKS

[In thousands of dollars]

Class of loan		19	29		1928
C. 4ss of loan	Sept. 30	Aug. 31	July 31	June 30	Sept. 30
Direct loans outstanding					
Cotton	5, 513	213	497	2,041	4, 172
Tobacco	84	87	215	288	1, 955
Wheat	2, 311	694	97	184	2, 123
Canned fruits and vege-		000	F0.4	570	0.000
tables	1,546	968	584	570	2, 983
Raisins.	3,348	3, 860	3, 945	4,092	5, 039 946
Wool	3, 859 25	3, 932 30	3, 409 96	1, 364 273	415
All other	174	155	178	219	108
All Other	144	100	1/0	213	103
Total	16, 860	9, 939	9, 021	9, 031	17, 741
Rediscounts outstanding for-					
Agricultural credit cor-					
porations	29, 268	32, 074	32, 513	31, 563	30, 461
National banks	90	100	102	102	. 3
State banks	1,982	1,821	1,627	1, 460	305
Livestock loan com-					
panies	23, 923	24, 868	25, 638	25, 865	19, 992
Other banks and trust companies	80	80	80	80	117
Total	55, 343	58, 943	59, 960	59, 070	50, 878

BANK SUSPENSIONS 1 IN SEPTEMBER, 1929

[Amounts in thousands of dollars]

The description of the description	All	banks		ember inks ³		member anks
Federal reserve district	Num- ber	Total de- posits ?		Total de- posits ?	Num- ber	Total de- posits ²
Boston						
New York						
Philadelphia						
Cleveland					:	
Richmond	5	1, 307			5	1, 307
Atlanta		481			3	481
Chicago	8	2,905	1	510	7	2, 395
St. Louis		599	1	369	3	230
Minneapolis	4 14	1,947		447	13	1, 947
Kansas City Dallas	14	2, 981 22	1	447	13	2, 534 22
San Francisco						
Total	4 39	10, 242	3	1, 326	36	8, 916

¹ Banks closed to the public on account of financial difficulties by order of supervisory authorities or directors of the bank.

² Subject to revision; figures given are for latest available date prior to

BANK DEBITS

[Debits to individual accounts. In thousands of dollars]

	Number of September, 1929		August, 1929	September, 1928	
New York City Outside New York City	1 140	50, 342, 300 27, 313, 948	49, 033, 562 28, 338, 732	38, 725, 290 24, 450, 348	
Federal reserve district: Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas	7 10 13 7 15 21 5 9 15	3, 085, 982 51, 503, 486 2, 502, 512 2, 860, 492 729, 353 1, 089, 642 7, 631, 575 1, 293, 312 974, 084 1, 437, 236 782, 667	3, 301, 522 50, 175, 946 2, 505, 489 2, 989, 197 817, 549 1, 126, 481 7, 968, 062 1, 221, 287 990, 318 1, 576, 588 722, 685	2, 518, 906 39, 609, 970 2, 883, 107 2, 656, 764 672, 403 1, 061, 090 6, 438, 021 1, 186, 385 869, 135 1, 362, 914 739, 429	
San Francisco Total	141	3, 765, 907 77, 656, 248	3, 977, 170 77, 372, 294	3, 677, 514 63, 175, 638	

MEMBERSHIP IN PAR-COLLECTION SYSTEM

[Number of banks at end of September]

	Member banks		Nonmember banks				
Federal reserve district	1929	1928	On par list		Not on par list 1		
			1929	1928	1929	1928	
United States	8, 629	8, 901	12, 221	12, 800	3, 777	3, 954	
Boston New York	408 934	408 935	271 407	251 411			
Philadelphia Cleveland	771 805	784 819	479 999	496 1,021	9	10	
Richmond	524 432 1, 209	554 455	589 257	635 305	553 933 228	581 1, 003 208	
Chicago St. Louis Minneapolis	573 691	1, 261 591 724	3, 515 1, 692 600	3, 602 1, 788 700	475 1, 112	474 1, 132	
Kansas City Dallas	904 762	940 786	2, 161 608	2, 255 637	196 210	286 204	
San Francisco	616	644	643	699	61	50	

 $[\]ensuremath{^{1}}$ Incorporated banks other than mutual savings banks.

suspension.

3 National banks.

4 Includes 1 private bank for which deposit figures are not available.

