FEDERAL RESERVE BULLETIN

APRIL, 1928

ISSUED BY THE
FEDERAL RESERVE BOARD
AT WASHINGTON

Gold Exports and the Banking Situation
Gold Holdings of Principal Countries

E Condition of All Banks in the United States



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² Controller.

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FEDERAL RESERVE BULLETIN

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APRIL, 1928

No. 4

REVIEW OF THE MONTH

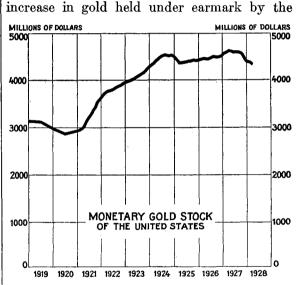
During the month of March exports of gold from the United States to foreign countries were

larger than for any other month Gold exports on record, while gold imports and the bank-ing situation were almost negligible in amount. A substantial part of the gold outflow, however, represented nothing more than the actual shipment of gold that had been previously acquired by foreign countries and held by them under earmark with the Federal reserve banks. To a considerable extent, therefore, the recent gold exports involved no current draft on the banking resources of the United States, but after adjusting the figures for all factors affecting during March the monetary gold stock of the United States there was on final reckoning a net loss of gold for the month approximating \$56,000,000. While loss in a single month of an amount greater than this has occurred several times during recent years, namely, in November and December of last vear and in January and February of 1925, the loss during March was nevertheless of exceptional volume. Provision of a given amount of gold for export or earmark tends to deprive the market of a like amount of reserve funds, or to cause increased indebtedness of member banks at the reserve banks, except to the extent that this influence may be offset by coincident developments of opposite effect, notably purchases of securities by the reserve banks-which did not occur in March—or an inflow of currency from circulation. While there was an inflow of \$20,000,000 currency in the first four weeks of March, there was a subsequent outflow of \$80,000,000, with the consequence that by the end of the month both gold exports and cur-

rency demand had come to be factors making for firmness in the current credit situation.

March was the seventh consecutive month in which gold exports exceeded gold imports, net

cold stock of the United mating \$262,000,000. This figure does not, however, measure the actual loss of gold for the period, chiefly because there was at the same time a net



Federal reserve banks for foreign account. Measured by reduction in the gold stock of the United States, the actual loss of gold for the period from the first of September to the end of March amounted to \$283,000,000, of which \$74,000,000 represented gold lost in the first quarter of the current year. This is in sharp contrast with a gain, indicated by the chart, of more than \$100,000,000 during the first quarter of 1927. The chart also brings out the fact that the loss of gold in the last four months of

1927, amounting to \$209,000,000, represented to the extent of about one-half the transfer to foreign ownership, by export or earmark, of gold acquired by the United States during the early months of the year. Notwithstanding the large and continuous loss of gold from last September to the end of March, the total gold stock of the United States, at \$4,306,000,000, remained at a higher point than had been reached previous to 1924.

At the end of 1927, the latest date for which comprehensive figures are available, the total

Gold holdings of central institutions stock of monetary gold held by governments, central banks, and similar institutions through-

and similar institutions throughout the world, either in their own vaults or under earmark with correspondents, appears to have been not less than \$9,475,000,000 and to have shown an increase for the year of at least \$300,000,000. While the net increase for the year in monetary holdings of all countries combined, including the United States (which lost about \$100,000,000), is estimated at not less than \$300,000,000, the increase for foreign countries as a group was more than \$400,000,000. This increase was considerably greater than that of other recent years, partly because of smaller takings than usual by India, but also because of the release at London during the year, through action by the Bank of France, of \$90,000,000 that had previously been held by the Bank of England as collateral security for a French debt. This had the effect of adding a substantial amount to the supply of gold made available during the year by new production from the mines. The new production, approximately \$400,000,000, was about the same as in other recent years.

In estimating the increase of more than \$400,000,000 in the monetary gold holdings of foreign countries account is taken not only of the increase of \$160,000,000 in gold holdings during the year as actually reported by foreign central banks and governments, which are shown in detail in a table elsewhere in this Bulletin,¹ but also of the fact that the reported increase in gold earmarked in the United

States and elsewhere for foreign account was reflected to but limited extent in the gold holdings separately reported by foreign institutions. The holdings of the Banco de la Nacion of Argentina, which increased by \$54,000,000, are also taken into account.

Analysis based on the figures of gold holdings actually reported by individual foreign coun-

tries indicates that important Gold and increases during 1927 were as monetary reconstruction follows: Argentina (conversion fund and Banco de la Nacion), \$79,000,000; \$45,000,000; Poland, \$31,000,000; Brazil. Italy, \$18,000,000; and Belgium, \$14,000,000. All of these are among the countries which have reestablished their currencies on a gold basis within recent years or were engaged in 1927 in making preparations to do so. While this analysis does not take into account the full growth of gold "held abroad" by foreign countries, it indicates nevertheless that in 1927 an important source of the demand for additional gold was the progressive movement toward the general adoption of the gold standard. This movement began in certain countries at least as early as 1923, but it is since the end of 1924 that it has been of special interest and importance. During the three years from that time to the end of 1927 the net increase in the total monetary holdings of foreign central banks and governments amounted altogether to not less than \$675,000,000, while the gold holdings of the United States Treasury and Federal reserve banks decreased by \$113,000,000. When account is taken of developments since the first of the year, it appears that the increase in the monetary stock of foreign countries since the end of 1924 has exceeded \$775,000,000 and the decrease in the gold stock of the United States has been less than \$200,000,000. Thus the period in which the majority of the important foreign currencies that were deranged by the war have been again brought into definite relation with gold has been characterized by substantial growth in the gold holdings of foreign countries without the accompaniment of much reduction in the large holdings of gold that accumulated in the United States in consequence of the war.

¹ Page 260

Annual Report

The text of the Annual Report of the Federal Reserve Board, covering operations for 1927 was presented to Congress on March 26 and released for publication March 27.

Charts on Bank Credit, Money Rates, and Business Activity

A collection of 24 charts illustrating changes in bank credit, money rates, and business activity has been recently published by the Federal Reserve Board, including the principal graphic material currently prepared by the Division of Research and Statistics for presentation to the board. The charts are on a weekly or monthly basis, illustrating figures published currently in the FEDERAL RESERVE BULLETIN. They are about 7 by 10 inches in size and are ruled to provide for keeping them currently up to date by extension of curves through 1928 and 1929 as data become avail-This collection, in pamphlet form, may be obtained from the Federal Reserve Board at a charge of 50 cents a copy, covering the cost of paper and printing.

CONDITION OF ALL BANKS IN THE UNITED STATES

Bank loans and investments in the United States aggregated about \$55,850,000,000 on December 31, 1927, as shown by figures for all banks in the country recently made available and given in the table below. The increase during the year of approximately \$3,580,000,000, or about 6 per cent, is divided nearly equally between loans and investments. About \$1,400,000,000 of the combined increase of loans and investments of all banks is accounted for in loans of member banks of and are given for back years in Table 72 of the Federal reserve system, although member the board's 1926 annual report.

bank loans fell off by about 2 per cent during the first three months of the year.

LOANS AND INVESTMENTS OF ALL BANKS IN THE UNITED STATES

[In millions of dollars]

	All banks	Member banks	Nonmem- ber banks
Dec. 31, 1927: Loans	38, 395	24, 318	14,076
Investments	17, 455	10, 361	7,095
Total	55, 850	34, 679	21, 171
Change from Dec. 31, 1926: Loans	+1,796 +1,783	+1,412 +1,371	+383 +413
Total	+3,579	+2,783	+796
Change from Oct. 10, 1927: Loans	+760 +410	+826 +402	-67 +9
Total	+1,170	+1,228	58

The net increase of \$1,170,000,000 in total loans and investments during the last quarter of the year, or more precisely as shown by the table, between October 10 and December 31, covers an increase of \$1,228,000,000 for member banks and a decrease of \$58,000,000 for nonmember banks. Member-bank investments increased during this last quarter by about 4 per cent and investments of nonmember banks by 0.1 per cent.

More detailed compilations of the principal resources and liabilities of these banks are given on pages 300-303 of this Bulletin. The figures, compiled by the Federal Reserve Board, reflect the condition of 26,431 member and nonmember banks, including all national, State, and private banks in the United States, except certain nonreporting private banks not under State supervision. Similar data are available for each call date since June 30, 1923,

NEW INDEXES OF SALES OF CHAIN STORES AND MAIL-ORDER HOUSES

Sales data for chain stores and mail-order houses are included with other current information on business conditions assembled by the Federal Reserve Board and the Federal reserve banks and published in the form of monthly index numbers. Heretofore the base period for the sales indexes has been the year 1919. These indexes have now been put upon a new base, making them more easily comparable with other similar series of index numbers computed by the board. The new base period (1923-1925=100) is broader and more recent than the one which it supersedes. The data, moreover, have been adjusted so as to make systematic allowance for differences in the number of business days in the month as well as for customary seasonal variations. These new indexes, covering the period from 1919 to the present time, are presented on pages following, and a brief description of the data upon which they are based and of the method by which they have been computed is given below.

Basic data for chain-store sales are reported to the Federal reserve system by 81 firms now operating approximately 39,000 stores in seven different lines of retail trade—groceries, 5-and-10-cent variety merchandise, wearing apparel, drugs, cigars, shoes, and candy. The reporting firms, including many of the larger companies in each of these seven lines, operate stores in many sections of the country, although from firm to firm the number of stores operated varies widely. Sales of mail-order houses are furnished by four different companies, including two of the largest in the United States. I shows in detail for the years 1919-1927 the number of reporting firms, their annual sales, and, for reporting chain-store companies, the number of stores operated.

Table I.—Number of Reporting Companies, Number of Stores at End of Year, and Annual Sales, 1919–1927

Type of company and year	Number of report- ing com- panies	Number of stores operated	Annual sales
Grocery chains: 1919 1920 1921 1922 1922 1923 1924 1925 1926 1927	28 28 28 28 37 37 37 37 34	7, 801 8, 945 9, 942 13, 572 17, 533 20, 394 25, 001 27, 337 29, 433	\$338, 538, 466 402, 928, 972 438, 945, 854 512, 027, 821 765, 859, 519 925, 395, 725 1, 115, 168, 097 1, 359, 371, 361

Table I.—Number of Reporting Companies, Number of Stores at End of Year, and Annual Sales, 1919-1927—Continued

Type of company and year	Number of report- ing com- panies	Number of stores operated	Annual sales
5-and-10-cent chains:			
1919	7	1, 727	\$209, 276, 659
1920	7	1, 813	\$209, 276, 659 250, 883, 834 260, 993, 102 295, 952, 070 357, 365, 352 491, 700, 389 457, 858, 867 566, 142, 684
1921	8	1,809	260, 993, 102
1922	8 14	1,875	295, 952, 070
1923	14	1,875 2,143 2,316	401 700 380
1925	14	2, 459	457, 858, 867
1926	14	2,664	506, 142, 684
1927	14	2, 944	560, 773, 589
Apparel chains:		1	l
1919	2	230	36, 505, 986
1920	2	350	52, 960, 157 59, 254, 380 64, 120, 272
1921	2 2 5 5 5	358	59, 254, 380
1922	2	421 563	96, 600, 202
1923	5	677	86, 600, 322 102, 849, 341 125, 108, 269
1925	5	783	102, 049, 941
1926	5	887	155, 986, 661
1927	5	1,080	198, 672, 838
Drug chains:		,,,,,,	-50, 51.2, 555
1919	10	404	47, 107, 149
1920	10	414	56, 687, 996 57, 591, 680 59, 977, 626 78, 169, 174 82, 686, 121
1921	10	429	57, 591, 680
1922	10	445	59, 977, 626
1923	16	560	78, 169, 174
1924 1925	16 15	593 681	92, 101, 645
1926	15	828	106, 465, 669
1927	13	936	120, 222, 701
Cigar chains:	1	1	120, 222, 102
1919	3	2, 173	71, 102, 170
1920	. 3	9 106	
1921	3	2, 190 2, 241 2, 767 2, 730 2, 867 3, 282	93, 605, 746
1922	3	2, 767	93, 605, 746 91, 457, 602 97, 714, 607 99, 679, 585
1923	5	2, 730	97, 714, 607
1924	2	2,007	101 057 061
1925 1926	5	3, 455	101, 857, 061 110, 391, 749
1927	3 3 3 5 5 5 5 4	3, 471	110, 119, 595
Shoe chains:	_	3,	1 .
1919	6	281	28, 043, 591
1920	6 6	285	33, 649, 781
1921	6	293	28, 043, 591 33, 649, 781 31, 807, 549 31, 952, 353
1922	6	322	31, 952, 353
1923 1924	4	366 454	35, 166, 416 37, 971, 954
1925	7	523	39, 878, 328
1926	7 7 7 7	578	42, 414, 837
1927	7	625	42, 414, 837 43, 183, 331
Candy chains:			
1919	4	54	11, 385, 142
1920	4	72	15, 698, 267
1921	4	82	16, 181, 032
1922	. 4	102 170	16, 691, 096
1923 1924	5	179	25, 591, 413 27, 670, 484
1925	5	234	28 991 547
1926	5 5 5 5	249	31, 332, 400
1927	4	269	27, 679, 484 28, 991, 547 31, 332, 400 32, 717, 017
Mail-order houses:			
1919	4		438, 827, 998
1920 1921	4		452, 321, 249
INZI	4 4		314, 274, 907
			400 150 516
1922	A		
1922 1923	4		461 046 766
1922 1923 1924	4		461, 046, 766 518, 043, 348
1922 1923	4 4 4		438, 827, 998 452, 321, 249 314, 274, 907 344, 338, 946 433, 176, 515 461, 046, 766 518, 043, 348 541, 325, 885 562, 765, 581

Since complete data covering the total volume of retail sales by all chain stores in the United States are not available, it is impossible

to determine accurately what proportion of total chain-store sales is represented by the figures reported to the Federal reserve system. It has been estimated, however, by Paul H. Nystrom that sales of all chain stores in the United States amounted to \$4,800,000,000 in 1926.1 Of the total so estimated, sales of companies reporting to the Federal reserve system constitute about 40 per cent and provide a fairly representative sample of chainstore trade. A similar estimate of sales for mail-order houses, as amounting to \$1,600,000,-000, indicates that firms reporting to the Federal reserve system and having annual sales of over \$550,000,000 are also fairly representative of their particular branch of retail trade.

Indexes without seasonal adjustment.—In constructing the several series of index numbers without seasonal adjustment, monthly totals of dollar sales for reporting companies in each line were obtained and these totals were converted into percentage relatives by dividing the total for each month by the average monthly sales of identical companies in the base period; i. e., in the three years, 1923, 1924, and 1925. As the number of companies reporting varied from year to year, it was necessary to compute several separate averages for the base period so that the indexes would in each case express the relationship between sales in the given month and average monthly sales in the base period for identical companies. Sales during 1923, 1924, and 1925 of the companies which did not report in the earlier years, for example, were subtracted from total sales of all companies reporting in the base period, and the monthly average for the base period of this reduced sales figure was used in computing relatives for the period in which the particular companies were not reporting. Similar adjustments were made in the base for firms which have discontinued reporting since

Relatives thus derived for each line of retail trade represented by the chain-store reports are the index numbers of sales without adjustment for seasonal variation. They are shown in Table II, together with a similarly computed series covering sales of mail-order houses.

On examination of the sales indexes so computed, it became evident that the course of sales of chain stores was affected (1) by rapid expansion and growth, resulting partly from increases in the number of stores operated by individual companies, and (2) by fairly regular fluctuations attributable to seasonal influences or to conventions that characterize buying at retail stores. The number of stores operated by chain-store companies has increased at widely different rates in the several lines of retail trade and as between individual companies in the same line. For mail-order houses growth in sales is likewise attributable in some measure to increase in the number of branch houses and to the opening of retail stores, but to a smaller degree than in the case of chain-store systems. In computing the indexes, no adjustment has been made to eliminate the influence of increase in the number of stores, and the full growth of the business of these

companies is reflected in the indexes.

Adjustment for seasonal variations.—In adjusting the indexes to eliminate the influence of typical seasonal variations, average daily sales were computed by dividing the total sales for each month by the number of actual business days in the month, making allowance for Sundays and for six national holidays. An index of average daily sales was then constructed by a process similar to that used in computing the unadjusted index, and this index was adjusted for seasonal variations according to the ratio-to-moving-average method. This method which has been used in preparing other Federal Reserve Board indexes of trade and industry, is described in detail on pages 236-242 of this Bulletin. The adjustment factors developed by this method and used in adjusting the indexes of chain-store and mail-order-house sales are given in Table III. In the case of mail-order houses, 5-and-10-cent chains, apparel chains, and shoe chains, special adjustments similar to those made in the index of department-store sales were made in order to eliminate the effects of variation in the date of the Easter trading season. The seasonal adjustment factors for March and April, which are given in Table III, are the average monthly quotas which form the basis for the sliding scale of adjustment factors, varying according to the date of Easter.2

¹ Survey of Retail Trade in the United States, Journal of Commerce, Jan. 28, 1928.

² See pp. 240-241 of this issue.

Table II.—Sales of Mail-Order Houses and Chain Stores

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

		In	dex witl	hout sea	sonal a	djustm	ent			1	ndex wi	th seas	onal ad	justmer	nt	
				Cl	nain sto	res						Cl	hain sto	res		
Year and month	Mail- order houses	Gro- cery	5-and- 10-cent	Wear- ing ap- parel	Drug	Cigar	Shoe	Candy	Mail- order houses	Gro- cery	5-and- 10-cent	Wear- ing ap- parel	Drug	Cigar	Shoe	Candy
ANNUAL INDEXES																
919	93	45	53	36	64	72	76	53	i l				1		1	1
)20	96	66	64	52	78	96	91	73								1
921	67	59	66	59	79	95	86	75								
922	73	69	74	64	82	93	86	77								
923	92	85	88	83	93	98	93	93								
)24)25	98 110	97 118	99 113	98 119	98 109	100 102	101 106	101 106					<u> </u>	-		
26	115	143	125	149	126	111	113	114								-
27	120	174	138	189	143	110	115	119								
MONTHLY INDEXES			-50	-00												
1919						١							1		1	
nuaryebruary	80	40	37	20	59	54	52	40	83 76	39	48 49	31 31	59 58	60	68	1 4
arch	68 77	38 4 3	38 48	20 29	54 62	56 68	46 59	43	76	40 42	55	35	62	65 72	67 66	4
oril	85	42	50	34	61	66	83	50	81	41	50	32	62	67	65	1 7
ay	76	44	51	37	61	74	83 80 72	46	87	42	53	36	60	70	70	1 4
ne	69	41	46	34	60	67	72	43	82	43	53 53 52	36	64	71	68	1 4
y	71	46	47	30	65	71	67	48	93	46	52	36	64	71	73	1 :
igust ptember	77	44	50	34	66	72 69	77	53	101	48	56 54	41 40	68 66	76 70	96 86	
tober	95 145	45 54	49 58	41 53	64 67	80	81 95	53 58	98 111	48 51	52	39	65	75	85	
vember		51	61	48	67	83	96	60	115	52	60	39	73	89	95	
cember	136	56	104	55	87	108	103	99	104	51	54	34	71	77	75	1 7
1920	-50	••		•••				•	"			-		1	1	1
nuary	112	59	46	26	74	77	68	57	116	57	60	41	75	86	89	
bruary	114	57	44	25	70	77	58	58	127	60	67	38	75	89	84	1 1
arch	122	67	60	37	76	87	92	68	112	65	65	42	76	92	94	1 .
ril	100	71	60	44	72	89	102	58 68 70	100	69	64	46	72	90	84	1 .
y	84	69	61	55	76	98	109	69	100	69	66	55	78 77	97	98	
neу	81	71	59	53	76	94	95	66 74	92	71	64	54 59	77	96	87	
gust		72	60	48	81	99 93	92	74	99	73	67 67	60	80	99 98	101 89	
ptember	75 84	65 65	60 60	49 64	78 78	93	71 83	73 74	98 87	71 69	66	62	80 81	100	89	1 7
toper	97	67	70	78	80	109	107	80	87 77	66	66	59	81	107	100	
ovemner	117	65	68	70	74	97	īŏi	72	94	64	. 65	56	78	100	96	1 7
ecember.	91	65	117	81	97	130	114	112	70	59	60	50	79	93	83	-
1921								1 1	1				{		{	1
nuary	64	58	46	40	76	87	67	64	69	59	62	66	79	101	90	1 8
Druary	60	56	49	41	72	84 95	63	62	67	59	64	62	77	98	91	1 3
arch	89	61	64	55	80 79	95	104	83	78	58	66	59	78 79 79	97	101	
oril	72	57	59	57	79	97	104	71	73	55	64	61	79	99	86	1 .
ayne	56	55	60	58	78	93	100	71	67	55	64	58 60	79	93	91	1 :
ly	58 46	55 54	58 58	59 51	78 78 79	92 93	94 72	83 71 71 72 75 76	66 63	56 57	64 66	64	80 81 78	95 96	85 82	
1211ST	52	54 57	61	50	78	92	62	76	66	60	66	58	78	93	74	
Juenner	69	56	60	61	77	92	74	74	70	60	66	59	80	94	79	İ
toper	83	64	75	78	80	100	98	74	66	63	70	60	81	93	91	
ovember	78	63	71	71	75	90	98 88 108	68	62 57	63	68	56	79 77	93	84	1 .
ecember.	75	69	129	84	94	125	108	107	57	64	66	52	77	89	79	1
1922			! !											1	1	İ
nuary	61	64	50	35	75	80	62	61	66	65	67	57	79	93	84	
bruaryarch	55 78	61 71	53 63	37 49	74 80	79 90	61 75	71	62 72	64 66	68 69	57 58	80 77	91 92	87 81	
ΙΠ	78	66	72	61	80 77	90	115	79	71	66	76	61	81	95	93	1
ay	65	66	69	62	80	93	94	63 71 79 75 72 74	75	64	71	60	78	89	82	
Be	64	66	67	61	80	89	90	72	75 73	67	74	62	81	91	82	
LY	54	65	67	50	82	89 92	79	74	74	68	74 77	64	84	95	91	1
igust	53	67	69	52	83	92	64	79	67	70	74	61	83	92	77	i
ptembertober	70	69	72	70	83	98	88	81	72	73	79	68	86	99	94	1
vember	101	72	83	88	86	92	92	79	80	71	78	67	87	90	86	
ovemberecember	103	76 80	81	87	80	92 129	93 123	76	82 80	75 77	77 80	69 70	84 89	95 96	88 93	
	100	80	149	110	105	129	123	116	80	11	80	70	99	90	93	1
1923		BC	ا ــا									mc.	000	1 00		1
nuarybruary	83	78	61	47	82 80	83	65	69	86	76	79	73	83 87	93	85	
bruary arch	78	78 77 89	62	48	80	79 97	55	73 102	86 87 93	81	80	73 78	87	92 99	79	1
oril	105	89 82	86	72 72	93 87	9/	110	102	93	84	90 84	18	90 91	99	109 82	
oril	96 91	82 86	20	81	91	80	95 108	90	105	82	85	78 78	90	95	95	
ne	80	84	86 75 82 83 77	83	96	90 99 99	109	82 89 90 90 94	91	82 83 84	90	84	97	101	99	
ay ne ne ly gust tober tober	69	81	77	62	90	92	78	90	94	85	88	78	93	96	88	
gust	68	82	82	67	90 93 92	98	78 72	94	86	86	88 88 93	78 79	93	99	87	1
otember	85	83	81	90	92	101	96	93	92	93	93	91	93 99	107	107	1 .
tober	125	91	96	115	98	100	105	99	92 96	93 87	87	84	95	95	94	1. 1
ovember	114	92	94	110	90	97	99	95	91	91	90	84 88	95	100	94	1
ecember	110	92	179	145	120	140	129	143	87	l 88	96	93	101	104	1 98	1 1

TABLE II.—SALES OF MAIL-ORDER HOUSES AND CHAIN STORES—Continued

		In	dex wit	hout sea	asonal a	djustm	ent]	nder w	ith seas	onal ad	justmen	t	
Year and month				Cì	nain sto	res					Chain stores					
Teat and month	Mail- order houses	Gro- cery	5-and- 10-cent	Wear- ing ap- parel	Drug	Cigar	Shoe	Candy	Mail- order houses	Gro- cery	5-and- 10-cent	Wear- ing ap- parel	Drug	Cigar	Shoe	Candy
MONTHLY INDEXES—con.																
1924 January February March April May June July August September October November	92 89 98 106 84 83 64 69 99 132 122 138	92 91 91 95 97 90 93 91 94 108 105	67 74 87 95 93 87 87 92 91 109 107 199	58 62 77 94 96 88 74 81 101 130 142 173	91 92 97 95 98 94 96 99 95 103 94 122	86 89 98 94 104 95 93 100 99 104 100 138	75 70 89 135 114 106 86 83 94 105 110	82 89 98 109 99 90 94 95 101 106 99	95 95 95 100 96 97 84 91 102 101 102 105	90 91 89 91 93 94 94 99 101 102 107	87 92 100 97 97 99 97 103 100 98 107 102	90 91 95 91 93 93 91 99 98 95 118	91 96 98 95 97 99 95 103 98 100 104 99	96 100 104 96 99 101 92 105 101 99 107	97 98 100 105 100 101 95 104 101 94 109	100 100 102 102 100 99 97 99 100 101 101 102 106
January February March April May June July August September October November	100 98 111 109 88 95 81 83 106 158 135	113 105 114 116 115 114 116 109 114 136 125	80 83 95 105 102 101 98 105 103 128 119 235	69 72 96 114 112 111 100 123 182 151 211	100 95 104 103 106 107 107 111 109 116 108 146	88 86 95 96 103 96 102 102 109 98 152	82 76 96 134 113 115 93 92 99 124 104	86 93 100 111 104 98 96 107 107 114 104 149	104 109 106 104 105 107 107 109 121 112 119	110 110 111 112 115 115 118 120 122 129 128 133	104 107 107 108 110 110 119 117 113 116 119 121	107 110 115 112 112 113 111 122 119 134 125 130	101 102 104 104 108 109 105 115 113 112 119	99 99 100 98 102 99 97 107 104 104 106 109	106 110 106 106 102 105 102 115 105 111 103 105	105 109 105 104 108 104 99 111 107 108 108 105
1926 Jenuary February March April May June July August September October November December	103 121 112 98 105 91 91 113 140 143	131 129 144 147 140 143 143 131 133 150 155 167	89 92 107 110 116 111 112 111 115 140 135 258	84 88 122 134 150 138 127 122 157 201 200 263	114 111 124 122 122 119 126 123 124 133 128 169	92 102 108 115 109 112 106 109 116 107 159	83 75 109 126 132 116 111 93 108 120 114 163	89 92 110 120 117 108 112 103 116 121 123 161	116 115 107 112 117 119 119 120 111 116 114	133 135 142 140 143 145 143 142 148 153 154	103 118 112 117 125 121 124 124 127 132 130 133	136 134 131 140 151 140 154 149 152 153 159 162	119 119 120 123 125 121 124 128 128 134 135 137	107 106 104 109 114 112 111 111 111 115 111	112 108 108 104 120 106 121 116 115 112 108 119	112 108 111 112 122 115 114 107 115 119 123 113
January February March April May June July August September October November December	103 101 125 120 99 107 93 105 118 147 149	155 148 174 172 171 178 167 170 171 190 189 202	96 104 116 135 123 123 121 130 128 153 146 279	100 114 148 199 171 172 157 165 198 250 250 350	134 129 143 144 134 136 141 140 137 151 144 182	97 99 111 113 113 109 111 106 106 111 105 156	82 84 96 150 109 118 109 101 108 121 118 178	95 103 115 136 115 114 112 110 119 124 125 164	111 112 117 113 118 121 127 133 122 117 119 128	157 155 163 166 172 179 176 179 183 187 186	130 133 128 137 132 135 139 140 141 144 140	163 173 175 192 172 175 199 193 192 191 198 215	140 139 139 144 137 138 144 149 141 152 152 148	113 115 113 115 113 112 114 107 107 109 107 111	111 121 104 117 99 108 124 121 115 112 112	120 121 116 127 120 121 119 110 118 122 124 115
JanuaryFebruary	105 108	188 194	104 115	121 137	146 148	90 96	87 86	100 106	113 116	191 195	140 142	197 201	153 153	105 107	117 120	126 120

Table III.—Seasonal Adjustment Factors Used in Index of Sales of Chain Stores and Mail-Order Houses

	Janu- ary	Febru- ary	March	April	May	June	July	August	Sep- tember	Octo- ber	No- vember	De- cember
Chain stores: Grocery 5-and-10 Apparel Drugs Cigars Shoes Candy Mail-order houses	101 76 63 98 88 76 81	102 83 70 99 92 74 91 96	101 89 85 98 93 93 94	102 94 97 98 97 122 106 101	102 95 102 100 103 113 98 86	98 90 97 97 96 108 93	97 89 81 100 99 90 96 75	90 88 81 95 94 79 95 75	96 93 106 99 101 96 103 99	100 105 129 98 100 106 100	104 107 129 97 99 108 103 128	107 191 160 121 138 135 140

SEASONAL VARIATIONS IN WHOLESALE AND RETAIL TRADE

Many of the Federal Reserve Board's indexes of production and trade are presented in the FEDERAL RESERVE BULLETIN in two forms, as "adjusted for seasonal variations" and "without seasonal adjustment." The "unadjusted" indexes reflect the net composite effect upon industry and trade of seasonal variations, changes in general business conditions, long-time growth, and temporary accidental changes such as those occasioned by strikes. In the "adjusted" index the influence of regular seasonal variations is eliminated. The present article deals in some detail with the simple mathematical processes by which adjustments have been effected for eliminating the particular effects of seasonal influences upon the volume of wholesale and retail sales. any such account descriptive of mathematical processes it is difficult to avoid a somewhat fictitious implication of perfect regularity of incidence and variation in seasonal changes and a further implication of complete adequacy of data for measuring these effects. No such implications are here intended. The adjusted index for sales is presented as being only an approximation in which the margin of error is too small to invalidate the index as a measure of nonseasonal fluctuations and trends in the volume of trade.

Seasonal variations may be described as those fluctuations in the volume of industrywhether agriculture, manufacture, trade, or transportation—which recur regularly at annual intervals, with a periodicity determined by climatic or other seasonal influences or by social conventions. The custom of purchasing new spring wardrobes at Easter time, for instance, regularly occasions during the weeks immediately preceding greater activity in the manufacture and sale of clothing year after year. In the months of February and March the factory output of fabrics, of shoes, and of millinery increases and sales of wholesale clothing firms also are greater. Somewhat laterin March and April, according to the date of Easter—sales of department and apparel stores, mail-order houses, and 5-and-10-cent stores increase in volume. Summer brings recession in almost all lines of business, followed by an expansion of production and trade in the autumn, and by a great increase of retail sales in December, particularly at Christmas time.

A wide seasonal swing exists when the business of the year is concentrated within a few months and other months are very dull in contrast. Lines of industry differ materially in the magnitude of their characteristic seasonal fluctuation. Production and wholesale sales of men's and women's clothing, for example, are commonly described as "highly seasonal," while wholesale sales of such products as meats, groceries, drugs, and hardware are found to be more evenly distributed throughout the year.

Recognition of these seasonal variations has impelled those who interpret the current state of business activity by the use of figures for actual sales, or of index numbers based upon those figures, to take into account the custom-ary seasonal change. But such interpreta-tions made without reference to some mathematical measure of the share of the year's business usually done in the given month are at best of uncertain and unverifiable value. In interpreting the unadjusted index number of 184 for department-store sales in December, 1926, to take a specific instance, it is necessary to know not simply that sales in December are usually above the average for the year, but that sales in this month usually exceed the average by approximately a given percentage. An index number from which the regular seasonal peaks have been eliminated reveals the direction and measures the extent of nonseasonal monthly changes and of long-time trends. In constructing the Federal Reserve Board's new indexes of wholesale and retail trade such a mathematicl measurement in the form of a percentage is substituted for an informal allowance made for months considered "slack" or "busy," and is used as a near approximation to a typical quota of business done in each month in the year. These monthly quotas are used as divisors of current volume index numbers for appropriate months, and the resulting index numbers are "adjusted for seasonal variations.'

Original data.—The original data from which current volume index numbers and their seasonal-adjustment quotas were prepared appear in the Federal Reserve Bulletin for December, 1927, February, 1928, and April, 1928. For the purpose of deriving mathematical measures of seasonal variations these data are in two respects somewhat deficient: (1) The period for which they are available is relatively short, and (2) the dollar values upon which they are based are subject to wide price fluctuations. For lines of wholesale distribution

¹ Descriptions of these index numbers are to be found in the following issues of the FEDERAL RESERVE BULLETIN: Industrial production, February, 1927, pp. 100-103, and March, 1927, pp. 170-177; building contracts, freight-ear loadings, and revised index of automobile production, August, 1927, pp. 562-563; wholesale distribution, December, 1927, pp. 817-828; department-store sales and stocks, February, 1928, pp. 14-124; revised indexes of chain-store and mail-order house sales, this issue.

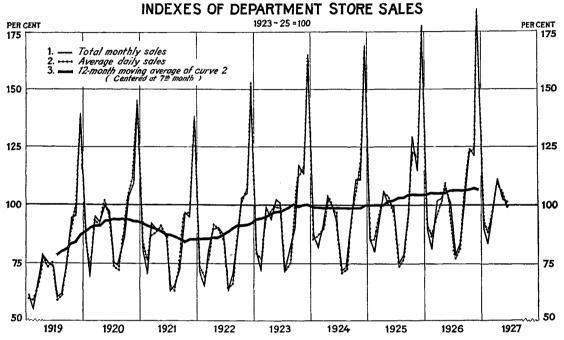
and retail trade data were generally available for about nine years, from 1919 to June, 1927. Sales in three of the nine lines represented by the index of wholesale distribution-meats, furniture, and drugs—had been reported to the Federal reserve banks for a somewhat shorter period-about six or seven years. Computations from the dollar volume of sales at wholesale were complicated by the rise in wholesale prices throughout 1919 and the spring of 1920 and their fall from May of 1920 to 1921. Because of the highly accidental character of changes from

plication to index numbers of wholesale distribution, department-store sales and stocks, chainstore and mail-order house sales are described below and illustrated by the computations for

department-store sales for the United States.

"Average daily" and "monthly total" figures.—A distinctive feature of the new "adiusted" indexes of department and chain store and mail-order-house sales is that they are based on average daily sales, instead of total sales during the calendar month, and are, therefore, not influenced by differences in the number month to month during this period, data for of days in the month or by the occurrence of

CHART I



these early years were given little weight in determining seasonal adjustment factors.

Method of deriving adjustment factors. Various statistical devices are employed in deriving measures of seasonal variations, each device furnishing a mere approximation, which must be revised occasionally to take account of gradual changes, evidently in progress in many lines of trade, which affect their seasonal variations.

The device adopted by the Federal Reserve Board for use in computing its revised indexes is the ratio to moving average.2 Details of its apSundays or holidays. An unadjusted index of monthly sales reflects a lower volume of business for February than is justified by the actual state of trade, largely because February is two or three days shorter than the other months.

A survey made by the Federal Reserve Board to determine the days on which department stores are ordinarily closed indicated that Sundays and the six national holidays— January 1, May 30, July 4, Labor Ďay Thanksgiving Day, and December 25-should be deducted from the total number of days in the month. The observance of other holidays was not sufficiently uniform throughout the United States to make it practicable to take them into account. The adjustment effected

³ See Federal Reserve Bulletin for December, 1922, p. 1416, and March, 1927, p. 172, for descriptions of the use of this device in computing indexes of industrial production.

by dividing monthly total sales by the number of business days is shown by a comparison of the indexes of monthly sales and average daily

sales. (Chart I, curves 1 and 2.)

In the indexes of wholesale distribution no adjustment was made for number of selling days, since variation in the number of business days in different months has a less pronounced effect on the volume of sales than in the case of retail trade. Seasonal adjustments for wholesale trade are therefore computed directly from the unadjusted index, as are also, for obvious reasons, adjustments for departmentstore stocks, for which end-of-month figures

only are reported.

The ratio to moving average.—(1) In estimating the proportion of yearly sales which is customarily made in each month, the simplest method is to obtain an average of sales in each month in the years from 1919 to 1927 and to compute the percentage which each average formed of the average for the 12. Inaccuracy would result from such a procedure because, for example, the upward trend in departmentstore sales subsequent to 1922 (see Chart I) would result in a higher average for each of the late months of the year-December, for instance—than would be warranted by the true seasonal movement. It has therefore been necessary to construct a curve roughly describing this year-to-year growth and other important nonseasonal factors, such as the effect of short-time fluctuations in the industry, in order to obtain a more correct average measure for each month. The device used is a 12-month moving average placed opposite the seventh month of its set of 12. The method of computation is shown in Table 1. The index figures of average daily sales of department stores for the 12 months of 1926, for example, were added and averaged and the average placed opposite July; the next average, for the 12 months from February, 1926, through January, 1927, was placed opposite August of by months, chronologically, in Table 2.

1926, and thus the average moved on throughout the series. Accurate values for the six months at either end of the series were, of necessity, lacking, but approximate figures were estimated.

TABLE 1.-METHOD OF SEASONAL ADJUSTMENT OF DEPARTMENT-STORE SALES

Year and month	Index of average daily sales (1923-25= 100) 1	12-month moving total cen- tered at seventh month	3 12-month moving average centered at seventh month	Ratio of index of average daily sales to moving average [(1÷3)100]
January February March April May June July September October November December	109. 4 99. 3 76. 9	1, 251. 0 1, 254. 0 1, 258. 8 1, 265. 6 1, 267. 6 1, 273. 3 1, 273. 5 1, 273. 5 1, 273. 4 1, 281. 2 1, 276. 5	104. 3 104. 5 104. 9 105. 5 105. 4 106. 1 106. 1 106. 3 106. 1 106. 8	87. 2 82. 9 91. 7 96. 3 103. 8 94. 0 72. 5 76. 7 97. 5 114. 8 116. 2 179. 4

¹ The figures for July through December, 1925, and January through June, 1927, which were necessary to compute the moving totals and averages are as follows: 1925—July, 73.9; August, 76.6; September, 96.8; October, 122.5; November, 121.4; and December, 175.6. 1927—January, 91.2; February, 88.2; March, 94.6; April, 109.4; May, 104.7; and June, 99.8.

The resulting curve (Chart I, curve 3) is a relatively smooth one, which reflects the more important nonseasonal fluctuations in department-store sales—the depression of 1921 and the first half of 1922 and the gradual rise which took place in the succeeding four years.

(2) The influence of the nonseasonal fluctuations measured in this manner was then eliminated by dividing each monthly figure in the index of average daily sales by the moving average placed opposite it (and multiplying by 100 to remove decimals). (See Table 1, column 4.) The ratios derived by this procedure reflect all the seasonal fluctuations, but none of the nonseasonal elements measured by the moving average. These ratios are arranged

TABLE 2.—SEASONAL ADJUSTMENT FACTORS—DEPARTMENT-STORES SALES

	Ratios of index of average daily sales to moving average, monthly ¹											
Years	January	Febru- ary	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber
1919							76. 1	76.4	94. 2	106.9	120. 4	158.0
1920	93. 2	82. 1	102.9	99. 2	110. 3	101.8	78. 3	77.0	92.8	109.4	119. 2	154.9
1921	90.3	83. 6	96.9	98. 3	102. 3	97. 9	74.7	73. 1	87.6	113. 3	114.3	160.8
1922	86.6	81.4	90.2	106. 5	103. 1	97.8	72. 9	74. 1	95. 3	111.5	117.0	166.2
1923	84.1	81.6	98.6	100. 5	103.4	101.8	73. 7	75. 9	95. 5	111.6	116. 1	165. 6
1924	85. 5	87.6	90.0	103. 5	100.0	97. 7	71. 9	73. 3	96.6	106. 1	119. 2	165. 8
1925	84.8	85. 5	93. 4	104.4	100.9	95. 4	71.8	74.0	93. 4	118.0	117. 3	168.7
1926	87.2	82. 9	91. 7	96. 3	103.8	94.0	72.5	76. 7	97.5	114.8	116. 2	170. 4
Total 2 or 3 middle items	259.3	248, 6	282. 0	303. 2	308.8	293. 4	146.6	150.0	189. 5	223. 1	234. 3	331. 4
Average 2 or 3 middle items	86.4	82. 9	94.0	101. 1	102. 9	97.8	73.3	75.0	94.8	111.6	117. 2	165.7
Final seasonal adjustment fac-	1		1			.					ı	
tors	. 86	83	93	101	102	97	74	76	95	111	117	165

¹ Middle ratios are in bold-face type.

(3) The ratios were next arranged in monthly groups in order of size, without regard to chronology. The clustering of the ratios within a narrow range of values in each monthly group (Chart II) indicates that sales in each month approximate the same proportion, year

after year, of the annual total.

(4) An average figure was obtained for each month by computing averages of the two or three middle items of these arrays. (See Table 2.) The number of items composing the average varied according to whether ratios were available for an odd or an even number of years. This average is believed to be a more accurate one for obtaining a typical figure than either a median, which in so small an array of items is likely to be erratic, or a simple arithmetic average, in which large items have an undue influence. In the month of May, for example, a ratio of 110.3 in 1920. when retail prices were at their peak, and a low ratio of 100 during the period of business recession in 1924 were not included in the average. The middle items in each series are shown in bold-face type in Table 2 and indicated on Chart II by dots surrounded by circles. The averages are shown on the chart by cross marks (x).

(5) The 12 average ratios were then rounded off to whole numbers and adjusted to total 1,200 in order that each monthly measure might express the proportionate volume of sales in that month to 100 as the average for the year. (See Table 2.) This adjustment to 1,200 was based in part on the evident tendency of a particular month to increase or decrease in relation to the other months in recent years, or, in other words, to some extent the known change in seasons was taken into

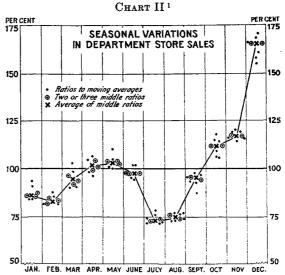
account.

(6) After the averages of the middle items for each of the 12 months had been adjusted to total 1,200, the resultant figures were inspected to determine whether they measured the typical seasonal movement or gave evidence of accidental variations of a nonseasonal character. To test their accuracy a provisional index adjusted for seasonal variations by dividing each monthly relative by the appropriate provisional seasonal factor was constructed. Occasionally the "adjusted" figures so derived showed an increase or decrease between certain consecutive months in nearly every year, indicating a fixed error. When this occurred the seasonal factor in question was raised or lowered by one or two points to

accidents in selection of the two or three middle

items in the original small array.

(7) After a satisfactory set of seasonal adjustment factors had been derived, an index finally adjusted for seasonal variations was obtained by dividing each monthly relative in the index of average daily sales (Table 1, column 1) by the ratio figures representing seasonal variation for the given month. the relative of average daily sales of department stores for January, 1927, 91.2, was divided by



¹ Figures are given in Table 2.

86, the seasonal adjustment factor for January (and multiplied by 100 to remove decimals), to obtain an adjusted relative of 106 per cent, and so on for each month of the year.

For most lines of trade this method gave fair measures of seasonal variations, and adjusted the indexes satisfactorily.3 It was necessary to modify this basic formula in the case of department stores and 5-and-10-cent chain stores and mail-order houses because of Easter fluctuations, and in the case of wholesale sales of men's and women's clothing because

of changes in seasonal fluctuations.

Adjustment for Easter fluctuations in retail sales.—After the adjustments just described were made, sharp peaks in March and April remained in the provisionally adjusted curve of department-store sales, these peaks representing the seasonal increase in sales because of Easter purchases. The fact that Easter, which is second only to Christmas in increasing

correct the error, which usually arose from articles referred to in footnote 1.

the volume of retail trade, may occur as early as March 22 or as late as April 25 makes adjustment by means of a single set of 12 adjustment factors unsatisfactory. When Easter comes in March, retail sales are much greater in that month than they would otherwise be, and if it comes later than the middle of April, April sales are large and those of

March proportionately small. For the sake of accurate comparisons of sales in the spring months, a sliding scale of adjustment factors, varying with the date of Easter, was devised for removing the seasonal influence of Easter from the sales figures. Five different sets of these seasonal factors were derived for the months of March and April and used with constant seasonal adjustment factors for the other 10 months given in Table 2, so that the total was always 1,200. The Easter adjustment factors for department-store sales for the United States are shown in the following table. The figures in parentheses indicate the sliding scale of differences between the adjustment factors used for March and April when Easter falls in the respective periods shown and the average adjustment factors for those two months—i. e., those which are used when Easter comes in the middle period, April 5 to April 8.

Table 3.—Easter Seasonal Adjustment Factors for Department-Store Sales

Date of Factor	Adjustment factors					
Date of Easter	March	April				
Before Mar. 31 Apr. 1-Apr. 4 Apr. 5-Apr. 8 (average) Apr. 9-Apr. 14 After Apr. 15	96 (average+3) 95 (average+2) 93 (average) 91 (average-2) 90 (average-3)	98 (average -3). 99 (average -2). 101 (average). 103 (average +2). 104 (average +3).				

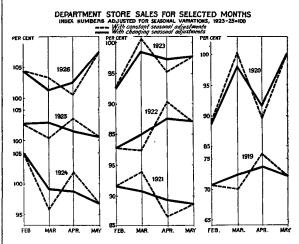
This scale of adjustment factors was derived in the following manner:

(1) One set of 12 monthly seasonal adjustment factors was obtained by the ratio to moving average method described above. The preliminary adjusted curve resulting from the application of these 12 adjustment factors to the index of average daily sales contained, as has been noted, a March or April peak in every year, directly attributable to Easter sales and varying in intensity according to the date of Easter. This is shown on Chart III by the broken-line curves representing the index adjusted by means of constant seasonal factors.

(2) The provisionally adjusted curve was then studied and the differences between the relatives for March and April in each year were calculated and arranged in order according to the date of Easter. For example, in 1924, when Easter was on April 20, the preliminary adjusted relative of department-store sales for March was approximately 96 and for April 102, a difference of 8 points.

(3) From a study of these differences, the amount by which the average adjustment factors (see paragraph (6) above) must be raised or lowered to smooth the provisionally adjusted curve was determined. Within the period under review, for example, Easter has occurred after the 15th of April in four years—1919, 1922, 1924, and 1927. To adjust this group

CHART III



of March and April relatives it was necessary to lower the average March adjustment factor (93) to 90 and raise the average April factor (101) by the same amount to 104. In a similar experimental fashion adjustment factors for the other periods shown in Table 3 were derived.

The length of the periods chosen and changes in the sliding scale are not uniform, since they have been determined with reference to the actual distribution of sales between the two months as affected by the incidence of Easter in different years. For example, if Easter falls in March, all of the Easter trading will presumably be in that month; hence all dates in March are grouped in one period; if in the first four days of April, most of the Easter sales will be in March, and therefore April 1 to April 4 was considered as one period; if between April 5 and April 8, selected as the average period, there are sufficient days in April before

Easter to_permit some Easter trading in that If Easter is later than April 8, a considerably larger portion of the sales is made in April, but the variation of the date by a few days causes a much smaller relative variation in sales than earlier in the month; therefore, the period is made longer, extending to April 14. If Easter comes at any time after April 14, the exact date has practically no significance in respect to the distribution of sales between March and April. Therefore, one set of factors was applied to this period.

(4) Finally, the relatives of average daily sales for March and April were divided by appropriate adjustment factors to obtain the

adjusted index.

The dates of Easter for the years 1919-1930 and the scale of differences to be applied to the average adjustment factors (those used for the period April 5-April 8 and shown for March and April in Table 2) in order to adjust for Easter variations are shown in Table 4, and the newly adjusted indexes are shown by the heavy lines on Chart III.

TABLE 4

Year	Date of	Difference from average adjustment factor		
	Easter	March	April	
1919 1920 1921 1921 1923 1923 1924 1925 1926 1926 1927 1928 1929 1930	Apr. 20 Apr. 4 Mar. 27 Apr. 16 Apr. 1 Apr. 20 Apr. 12 Apr. 4 Apr. 17 Apr. 8 Mar. 31 Apr. 20	-3 +2 +3 -3 +2 -3 -2 +2 -3 Average. +3 -3	+3 -2 -3 +3 -2 +3 +2 -2 +3 A verage. -3 +3	

This sliding scale of adjustment factors is reasonably effective in the elimination of Easter variations in the indexes of departmentstore sales and 5-and-10-cent-chain store and mail-order-house sales for the years 1919-1927, but a wider scale of differences from the average is necessary in the case of sales of shoes and other wearing apparel by chain stores, owing to the fact that Easter purchases are of greater importance in shops whose specialty is clothing.

Changing seasonal variations in wholesale sales of men's and women's clothing.—In most lines of production and trade there is evidence that the seasos nare shifting, and the

distribution of business among the 12 months of the year is changing. As the Christmas trade has grown, for example, the proportion of annual department-store sales made in December has increased year after year. (See Table 2.) In this instance, as in most lines of wholesale and retail trade, the changes have been of such small magnitude from 1919 to 1927 that one fairly typical set of 12 seasonal factors could be derived. In wholesale sales in the clothing trade, however, the changes were so marked during the period that it was necessary to derive changing seasonal adjustment factors, by an adaptation of the ratio to moving average method.

The first two steps in the procedure described above—computation of a 12-month moving average and of ratios of the original index to the corresponding moving average were identical. These ratios were than tabulated and charted in chronological order, in monthly groups, in the manner shown in Table 2. Instead of obtaining one typical figure for each month for all years, a complete set of 12 factors was derived for each year in the following

manner:

(a) A three-year-period moving average of the ratios was computed and tabulated oppo-

site the central year.

(b) The curves obtained by the use of this moving average were then smoothed, free-hand, and projected for the first and last years of each monthly group, and the resulting figures were read off the chart. Each yearly group was adjusted to total 1,200 in the manner described above. Thus the set of 12 adjustment factors was obtained for each year.⁵ These computations are extended annually in order to obtain seasonal factors for the current year.

(c) Adjusted indexes of sales of men's and women's clothing were computed by dividing each unadjusted relative of monthly sales by the seasonal adjustment factor for that par-

ticular month.6

The resulting adjusted indexes of men's and women's clothing appeared to be much more satisfactory than any obtained by other methods. The fact that the period used was so short and that the years of violent price changes (1919-1921) were necessarily given little weight may somewhat invalidate the results, which are accordingly subject to revision as more data accumulate. There can

⁴ These seasonal adjustment factors are available at the Division of Research and Statistics and may be obtained upon request.

See Federal Reserve Bulletin, December, 1927, p. 828.
 Adjustments for changing seasonal variations have been made for several series in the index of industrial production. A detailed description of the method used, together with illustrations, may be obtained from the Division of Research and Statistics.

be little doubt, however, that seasonal variations have changed for the firms reporting sales of men's and women's clothing and that the business of these firms is more unevenly distributed throughout the year now than formerly. Sales in the late winter and early spring reserve district, generalizations for the clothing buying season, as well as that in late summer and | trade as a whole can not be drawn from them.

early fall, have been increased, and the early summer months, when trade is usually dull, have had an ever smaller proportion of yearly sales. Owing to the fact that these clothing firms are all located in the New York Federal

CHANGES IN MEMBERSHIP IN THE FEDERAL RESERVE SYSTEM

Between October 10 and December 31, 1927, there was a further decline of 53 in the number of member banks in active operation in the Federal reserve system, as indicated by the number of banks submitting the required reports of condition on the two dates. The decline in membership represented decreases of 39 in the number of national banks and of 14 in the number of member State banks, and was the result largely of mergers between member banks, suspensions, and insolvencies, and the absorption of member banks by existing nonmember banks. Changes in membership during the last quarter of the year are summarized in the following table:

CHANGES IN MEMBERSHIP IN THE FEDERAL RESERVE System, October 11, 1927, to December 31, 1927

Class of change	Number of banks
Active member banks, Oct. 11, 1927	9, 087
Banks joining the system	26 1 35
Net decrease from banks joining and withdrawing Decrease in membership through mergers between member	9
banks, suspensions, and voluntary liquidations	44
Net decrease for the period	53
Active member banks, Dec. 31, 1927	9, 034

¹ Includes 21 withdrawals which were incidental to the absorption of member banks by existing nonmember banks.

On December 31, 1927, there were 7,759 member national banks and 1,275 member State banks in active operation, making a total of 9,034 member banks in the system. This represents a decline during the year of 147 in the number of member national banks and of 79 in the number of member State banks. That the total decline of 226 in the number of absorbed by existing nonmember banks; the

chiefly of mergers between member banks and of suspensions is shown in the following table:

CHANGES IN MEMBERSHIP IN THE FEDERAL RESERVE System, January 1, 1927, to December 31, 1927

Class of change	Number of banks
Active member banks, Jan. 1, 1927	9, 260
Banks joining the system	15 4 1 101
Net increase from banks joining and withdrawing Decrease in membership through mergers between member banks, suspensions, and voluntary liquidations	5 3 279
Net decrease for the year.	226
Active member banks, Dec. 31, 1927	9, 034

¹ Includes 55 withdrawals which were incidental to the absorption of member banks by existing nonmember banks.

During the year 154 banks joined the system and 101 banks withdrew, with the net result that there was a net voluntary accession of 53 member banks to membership in the system. Of the banks that joined, 83 were newly organized national banks (including one bank organized to succeed a member bank that had previously suspended) and 61 were State banks that entered the system, 32 becoming national banks and 29 being admitted with the status of State institutions. Ten banks, which had previously suspended, resumed operations again. Of the member banks that withdrew from the system, 24 were State banks that withdrew after advance notice to the Federal Reserve Board, two were banks that were dropped from membership in the system at the expiration of their State charters, 20 were banks succeeded by nonmember banks organized for the purpose, 55 were member banks in operation was the result latter, losses to membership through the

absorption of member by nonmember banks, may or may not have reflected the exercise of the banks' option in regard to membership in

The excess of banks joining the system over banks withdrawing was offset by losses incidental to mergers and suspensions. Merger between member banks accounted for the loss of 146 banks (as against 107 in 1926), and suspensions for the loss of 124 (as against 160 in 1926). In addition there were 9 instances in which the existence of banks was terminated

by voluntary liquidation.

Mergers between member banks, which accounted for the loss of 115 national bank members and 31 State bank members, were more numerous in 1927 than in any year since the beginning of the system. The larger number of bank consolidations and absorptions which occurred last year may be in part accounted for as an effect of the act of February 25, 1927, which amended the Federal banking laws with reference particularly to the charter powers of national banks and to the authority for direct consolidations of State banks and trust companies with national banks. Losses to membership resulting from mergers between member banks occurred in all Federal reserve districts. Such mergers were most numerous in the San Francisco district, where the total of 49 for the year reflected largely mergers consummated early in the year by branch banking systems in the State of California. Of the total number of mergers between member banks, 116 were in the New York, Cleveland, Chicago, Kansas City, Dallas, and San Francisco districts.

In the following table changes in member-ship are summarized, by class of member bank, for the year ending December 31, 1927:

CHANGES IN THE NUMBER OF MEMBER BANKS IN THE FEDERAL RESERVE SYSTEM, BY CLASS OF MEMBER, JANUARY 1 TO DECEMBER 31, 1927

	Numl	er of me banks	mber
Class of change	Total	Na- tional	State
Active member banks, Jan. 1, 1927	9, 260	7, 906	1, 354
Additions to membership: Organization of national bank Conversion of nonmember bank to na-	82	82	
tional	32 29	32	29
Resumption following suspension Conversion within the system Other additions	10 i	8 18	1 2
Total additions	154	131	34
Losses to membership: Merger between member banks— Intraclass. Interclass Voluntary liquidation (terminal). Suspension and insolvency. Absorption of member bank by nonmember bank. Conversion of member bank to nonmem-	110 36 9 124 55	* 96 * 19 8 91	14 17 1 33
ber bank	20 26	12	\$ 26 1 8
Total losses	380	278	113
Net change	-266 9, 034	-147 7,759	-79 1, 275

Succession between members of one class and members of the other without effect on the number of banks in the system.
National bank organized to succeed a national bank that previously suspended.
Includes 26 banks that were absorbed by nonmember banks which were in turn absorbed by a national bank.
Includes 2 pational banks which together with a member State bank were succeeded by a single member State bank organized for the purpose.
Includes 2 banks which were dropped from membership in the system at the expiration of their State charters.

NATIONAL SUMMARY OF BUSINESS CONDITIONS

increased further in February, while wholesale commodity prices remained practically unchanged. Commercial loans of member banks showed a larger increase in February and the first half of March than at the same season in

other recent years.

Production -- Production of manufactures in February, as indicated by the Federal Reserve Board's index, increased 4 per cent over January and was 3 per cent larger than a year ago, while production of minerals declined slightly and continued to be substantially smaller than last year. Factory employment and pay rolls showed a seasonal increase in February, but continued at a lower level than a year ago. Output of iron and steel, automobiles, and agricultural machinery has increased considerably since the first of the year. Daily average production of steel ingots in February was larger than in any other month since last March, and current reports indicate that output was sustained in the first three weeks in March. Production of nonferrous metals also increased in February. Activity in the textile industries has shown little change since the first of the year. Production of bituminous coal and crude petroleum, which decreased in February, increased slightly in the first half of March.

Building contracts awarded were larger in February than in the corresponding month of any previous year, reflecting chiefly a large volume of awards for residential construction in the New York and Chicago districts. Contracts let in the first two weeks of March were in approximately the same volume as in the

corresponding period of last year.

Trade.—Sales of wholesale firms in leading lines increased in February and were slightly larger than a year ago, while sales of department stores, after allowance for the customary seasonal changes, were in about the same vol- from 4 to 4-41/4 per cent and there were adume as in January and somewhat smaller than vances in time rates on security loans.

Production and distribution of commodities | a year ago. Stocks of merchandise carried both by wholesale firms and by department stores showed a seasonal increase in February.

Freight-car loadings have shown somewhat more than the usual seasonal increase since the beginning of the year, but have continued to be in smaller volume than in the corresponding period of last year, owing chiefly to much smaller shipments of coal. Loadings of merchandise in less than carload lots and of miscellaneous commodities have been less than in corresponding period of the last two years, while loadings of livestock and grain products

have been larger.

Prices.—The general level of wholesale commodity prices, as indicated by the Bureau of Labor Statistics index, remained practically unchanged in February at approximately 96 per cent of the 1926 average. There were decreases in the prices of cotton, sugar, nonferrous metals, chemicals, and rubber, as well as a seasonal decline in dairy products. Increases occurred in prices of grains, metals, hides and leather products, and steel. In the first two weeks in March, prices of grains, hogs, and cotton advanced while those of cattle and rubber showed further declines.

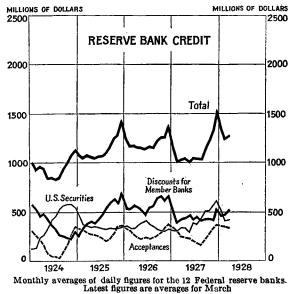
Bank credit.—From the middle of February to the middle of March the loans and investments of member banks in leading cities increased by \$200,000,000, reflecting a growth in the banks' commercial loans. The banks' loans on securities and investments showed little change for the period.

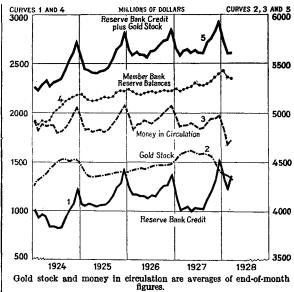
The volume of reserve bank credit outstanding increased somewhat from February to March, chiefly in consequence of increased borrowings by member banks, which in part re-

flected further withdrawals of gold for export.

During the four weeks ending March 21 conditions in the money market were firmer; the rate on prime commercial paper increased

FINANCIAL, INDUSTRIAL, AND COMMERCIAL STATISTICS RESERVE BANK CREDIT





RESERVE BANK CREDIT IN USE

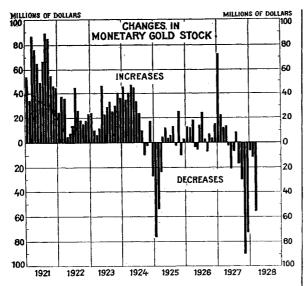
[Monthly averages of daily figures. In thousands of dollars]

	I	Reserve bank	credit in us	•	Deposits of Federal reserve banks			
Month	Total 1	Discounts for member banks	Accept- ances (bills bought)	United States securities	Total	Member bank re- serve bal- ances	Govern- ment deposits	Other deposits
1926—April. May. June. July. August. September. October November. December	1, 158, 891 1, 155, 191 1, 139, 808 1, 166, 564 1, 158, 264 1, 225, 236 1, 269, 356 1, 270, 057 1, 380, 571	539, 594 514, 559 476, 044 548, 966 555, 799 641, 797 665, 566 618, 367 671, 722	235, 956 230, 555 244, 505 241, 132 245, 094 263, 992 294, 296 346, 859 384, 826	369, 779 398, 249 408, 776 379, 745 353, 903 315, 747 306, 413 302, 309 321, 446	2, 251, 846 2, 253, 294 2, 241, 415 2, 262, 420 2, 253, 350 2, 273, 205 2, 280, 180 2, 279, 135 2, 289, 632	2, 183, 479 2, 199, 229 2, 205, 974 2, 211, 545 2, 200, 909 2, 211, 367 2, 219, 023 2, 214, 441 2, 218, 186	42, 143 27, 671 12, 193 26, 246 25, 098 31, 723 34, 284 28, 229 39, 758	26, 22 26, 39 23, 24 24, 62 27, 34 30, 11 26, 89 36, 46 31, 68
1927—January February March April May June July August September October November December	1, 138, 106 1, 005, 923 1, 024, 251 1, 038, 857 999, 504 1, 033, 123 1, 026, 152 1, 021, 830 1, 139, 342 1, 213, 191 1, 331, 008	480, 622 392, 996 424, 543 447, 286 472, 984 428, 563 453, 997 409, 439 422, 192 424, 413 415, 216 528, 624	343, 448 304, 071 252, 722 248, 429 233, 224 205, 273 189, 774 173, 122 215, 926 281, 903 335, 908 377, 712	310, 486 306, 606 344, 922 341, 081 291, 495 397, 754 381, 081 438, 511 500, 637 506, 177 579, 238 605, 841	2, 300, 204 2, 266, 460 2, 284, 809 2, 301, 120 2, 326, 816 2, 355, 428 2, 331, 452 2, 351, 875 2, 380, 856 2, 429, 976 2, 435, 984	2, 242, 854 2, 212, 206 2, 239, 952 2, 248, 302 2, 262, 397 2, 300, 897 2, 288, 948 2, 283, 097 2, 300, 450 2, 326, 009 2, 372, 954 2, 339, 182	24, 132 28, 132 21, 823 29, 622 25, 374 20, 660 17, 420 17, 890 20, 324 20, 426 12, 812 9, 976	33, 21; 26, 12 23, 03 23, 19 39, 04 33, 87 33, 11; 30, 46 30, 10; 34, 42; 44, 21; 26, 82
1928—January February March	1, 350, 322 1, 236, 649 1, 271, 525	465, 275 \$470, 680 513, 233	372, 538 359, 883 342, 790	511, 852 405, 551 41 4, 6 81	2, 472, 428 2, 419, 482 2, 411, 714	2, 426, 360 2, 368, 092 2, 365, 030	19, 438 25, 606 23, 018	26, 630 25, 784 23, 660

¹ Total holdings of bills and securities by all Federal reserve banks, including "other securities" and foreign loans on gold

Revised.

MONETARY GOLD STOCK AND MONEY IN CIRCULATION



NET IMPORTS OR NET EXPORTS (-) OF GOLD

[In thousands of dollars]

Month	1922	2	192	3	192	24	192	5	193	26	192	27	19	28
January	25, 7		24, 3			855				264		465		3, 760
February	27, 0	07	6, 9	984	34,	606				565		895		1, 090
March	32, 5	25	5, 8	559	33,	505	-17,	768	39,	188			1-9	6, 23
April	10, 6	65	8, 4	533	44,	027	-12,	734	-4,	768	11,	911		
May	5, 5	87	45.	332	40.	481	1.	997	-6.	408	31,	702		
June	11.3	76	18. E	385	24.	913	-2.	287	15.	544	12.	771		
July	42, 3		27,			507		787		751				
August	18.1		30. (752		726				353		
September	23. 0		26,			076		656		094				
October	3, 2		28.			577		702		701				
November.	14.8		39. (173				011				
December	23, 7		31.			401		248			-67.			
_ 00011100111			~-, '		,									
Total	238, 2	95 2	04 (073	258	073	134,	367	97	796	6	080		

¹ Preliminary.

INCREASE OR DECREASE (-) IN GOLD STOCK THROUGH CHANGES IN GOLD UNDER EAR-MARK FOR FOREIGN ACCOUNT

[In thousands of dollars]

Month	1922	1923	1924	1925	1926	1927	1928
January February March		-1, 629 4, 329			-6, 043 -11, 000 -22, 988	3, 180	2,868
April May June		1,000		14, 850 12, 725		-1,000 -95,000	
July August		-1,500	-2, 583 -7, 984	-3, 901 8, 725	4, 000 19, 200	184 -2, 501	
September October November	$-1,500 \\ -200$		-17, 000 -500	2,870 2,000	-7,498	-25,001 $-40,000$	
Total	$\frac{-2,000}{-3,700}$		-1,500 $-42,213$		<u> </u>	-8,500 $-160,153$	
	1	í l	1 1			,	1

MONETARY GOLD STOCK OF THE UNITED STATES

[In millions of dollars]

Manah	End of month figures								
Month	1922	1923	1924	1925	1926	1927	1928		
January February March April May June Juny August September October November December	3, 685 3, 723 3, 760 3, 764 3, 771 3, 785 3, 829 3, 855 3, 873 3, 888 3, 906 3, 929	3, 953 3, 963 3, 970 3, 982 4, 028 4, 050 4, 079 4, 111 4, 136 4, 167 4, 207 4, 244	4, 289 4, 323 4, 364 4, 411 4, 455 4, 488 4, 511 4, 521 4, 511 4, 509 4, 527 4, 499	4, 423 4, 369 4, 346 4, 350 4, 361 4, 365 4, 370 4, 383 4, 382 4, 407 4, 397 4, 399	4, 412 4, 423 4, 442 4, 438 4, 433 4, 447 4, 471 4, 473 4, 466 4, 473 4, 477 4, 492	4, 564 4, 586 4, 597 4, 610 4, 608 4, 587 4, 580 4, 588 4, 571 4, 541 4, 451 4, 451 4, 379	4, 373 4, 362 14, 306		

¹ Preliminary.

UNITED STATES MONEY IN CIRCULATION

[In millions of dollars]

3.6	End of month figures								
Month	1922	1923	1924	1925	1926	1927	1928		
January February March April May June July August September October November December	4, 441 4, 491 4, 497 4, 468 4, 455 4, 463 4, 424 4, 480 4, 608 4, 646 4, 704 4, 817	4, 614 4, 703 4, 747 4, 759 4, 797 4, 823 4, 787 4, 876 4, 945 4, 925 5, 018 5, 044	4, 777 4, 887 4, 899 4, 853 4, 905 4, 756 4, 859 4, 863 4, 942 5, 052 5, 047	4, 802 4, 853 4, 818 4, 789 4, 841 4, 795 4, 867 4, 916 4, 969 5, 044 5, 104	4,841 4,904 4,860 4,907 4,923 4,885 4,909 4,930 4,978 5,021 5,037 5,095	4, 846 4, 885 4, 862 4, 891 4, 893 4, 851 4, 854 4, 948 4, 946 4, 952 5, 003	4, 677 4, 690 14, 750		

¹ Preliminary.

KINDS OF MONEY IN CIRCULATION

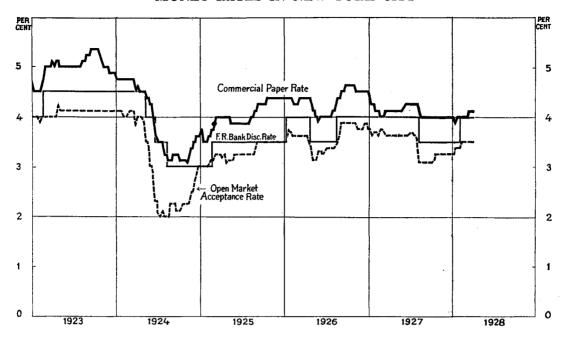
[End of month figures] [In millions of dollars]

Month	Total	Gold coin	Gold certifi- cates	Federal reserve notes	Na- tional bank notes	U. S. notes, silver cer- tificates, and all other money
1927—January February March April May June July August September October November December 1928—January February March !	4, 846 4, 885 4, 862 4, 891 4, 893 4, 851 4, 846 4, 948 4, 948 4, 952 5, 003 4, 677 4, 690 4, 750	396 393 389 387 385 383 382 380 381 383 402 389 386 385	1, 037 1, 035 1, 019 1, 019 1, 004 1, 007 1, 031 1, 045 1, 068 1, 095 1, 074 1, 016 1, 004 1, 004	1, 684 1, 710 1, 707 1, 724 1, 734 1, 703 1, 668 1, 657 1, 715 1, 711 1, 694 1, 763 1, 561 1, 570 1, 588	631 645 648 654 660 652 651 653 648 639 617 639 654	1, 097 1, 102 1, 097 1, 104 1, 109 1, 106 1, 112 1, 119 1, 138 1, 137 1, 141 1, 145 1, 094 1, 098

¹ Preliminary.

**For back figures see Federal Reserve Bulletin, March, 1928, p. 176.

MONEY RATES IN NEW YORK CITY



FEDERAL RESERVE BANK RATES

DISCOUNT RATES

[Rates on all classes and maturities of eligible paper]

Federal reserve bank	Rate in effect on Apr. 1	Date established	Previous rate
Boston. New York. Philadelphia. Cleveland Richmond. Atlanta. Chieago. 8t. Louis. Minneapolis. Kansas City. Dallas. San Francisco.	4 4 4 4	Feb. 8, 1928 Feb. 3, 1928 Feb. 16, 1928 Mar. 1, 1928 Jan. 27, 1928 Feb. 11, 1928 Jan. 25, 1928 Feb. 21, 1928 Feb. 10, 1928 Feb. 10, 1928 Feb. 8, 1928 Feb. 4, 1928	31, 31, 31, 31, 31, 31, 31, 31, 31,

BUYING RATES ON ACCEPTANCES

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

Maturity	Rate in effect on Apr. 1	Date established	Previous rate
1-15 days 16-30 days 31-45 days 46-60 days 61-90 days 91-120 days 121-180 days	31/2 31/2 35/8 35/8 35/8 33/4 4	Mar. 30, 1928dododododododo.	314 314 314 314 314 314 314 314

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	e on—		ige rate n—	Averag on	
Month or week	Prime	Prime		Call	loans 1	U. S. Treas-	
Month of week	com- mercial paper, 4 to 6 nionths	ers' accept- ances 90 days	Time loans, 90 days ³	New	Re- newal	notes and certifi- cates, 3 to 6 months	Treas- ury bonds
January February March April May June July August September October November	4-4)4 4-4)4 4-4)4 4-1/4 4)4 4)4	35/6-35/4 35/6-35/6 35/6 35/6 35/6 35/6 35/6 35/6 35/6	41/2 48/6-41/2 48/6-41/2 48/6-41/2 48/6-41/2 4-41/4 4-41/4 41/4-48/6 41/6-41/4 4-41/4 4-41/4 4-41/4 4-41/4	4. 27 4. 06 4. 13 4. 21 4. 26 3. 95 3. 66 3. 84 3. 88 3. 60 4. 43	4. 32 4. 03 4. 13 4. 18 4. 26 4. 33 4. 05 3. 68 3. 80 3. 60 4. 38	3. 29 4 3. 21 3. 39 3. 33 4 3. 09 2. 96 2. 70 4 2. 81 3. 08	3. 48 3. 47 3. 44 3. 47 3. 44 3. 48 3. 45 3. 43 3. 39
January February March	4 4 4-41⁄4	33/1 31/2 31/2	41/4-41/2 41/2-45/8 41/2-48/4	4. 15 4. 33 4. 47	4. 24 4. 38 4. 48	3.31 3.33 3.23 43.30	3. 35 3. 36 3. 30
Week ending— Mar. 3 Mar. 10	4-41/4	3½ 3½	4½-45/8 4½-45/8	4. 42 4. 25	4. 45 4. 25	3.30 3.25 43.22	3. 33 3. 30
Mar. 17 Mar. 24 Mar. 31	4-41/4 4-41/4 4-41/4	$ \begin{array}{r} 3\frac{1}{2} \\ 3\frac{1}{2} \\ 3\frac{1}{2} \end{array} $	45/8 45/8 45/8-43/4	4. 50 4. 45 4. 65	4. 50 4. 45 4. 73	3. 29 3. 33 3. 33	3.30 3.28 3.29

Stock exchange call loans; new and renewal rates.
 Stock exchange 90-day time loans.
 3 issues—334, 4, and 4½ per cent; yields calculated on basis of last redemption dates—1956, 1954, and 1952.
 Change of issues on which yield is com

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 RESERVE BANK CITIES

Month	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
					Prir	ne comme	rcial loans	1				
1927—March April May June July August September October November December 1928—January February March	4½-4½ 4½ 4½ 4½ 4½-4½ 4-4½ 4-4½ 4-4½ 4-4	41/2 41/2 41/2 41/2 41/2 41/2 41/2 41/2	41/4-43/4 41/2-5 41/6-43/4	41/4-51/2 41/2-51/2 41/2-51/2 4 -51/2 4 -5 41/2-5 41/2-5 41/2-5 41/2-5 41/2-5 41/2-5 41/2-5	514-6 5 -6 5 -6 5 -6 5 -5 5 -5 5 -5 5 -5 4 4 4 4 4 4 4 4 4 5 4 5 4 4 4 4 4 5 5 5 5 5 5 6 6 6 6	41/2-6 5-6 5-6 5-6 5-6 5-6 41/2-6 41/2-6 41/2-6 41/2-6 41/2-6	41/-42/ 41/-5 41/-5 41/-5 41/-5 41/-5 41/-5 41/-5 41/-42/ 41/-42/ 41/-42/ 41/-42/ 41/-42/ 41/-42/ 41/-45/	412-5 412-5 412-5 412-5 412-5 412-5 412-5 4 -5 4 -5 4 -5 4 -5 4 -5	412-512 412-513 412-513 412-513 412-513 414-5 412-5 412-5 412-5 412-5 412-5 412-5 412-5 412-5	55555555555	41/2-6 41/2-6 41/2-6 41/2-6 41/2-6 41/2-6 41/2-6 41/2-6 41/2-6 41/2-6 41/2-6	5 -6 4½-5½-5½ 4½-5½-4½-5½ 4½-5½-4½-5½ 4½-5½-5½ 4½-5½-5½ 5-6 4½-5½-5 4½-5½-5 4½-5½-5 4½-5½-5
Will Co	1/4 1/2	474-172	272-274				!	hange colla			174-0	472-0
1927—September	414-41/2	414-5	±1/_48/	41/4-6	5 -6	5 -6	41/2-5	5	484-6	5 -6	5 -6	5 -6
October	414-414 414-414 414-414 414-414 414-414 414-414	41/2-5 43/4-5 41/2-5 41/2-5 41/2-5 43/4-5	p14-434 414-434 414-412 414-412 414-412 414 414 414-434	4½-6 5 -6 4½-6 4½-6 5 -6 4½-6 4½-6	434-6 414-6 1434-6 434-6 434-6 5 -6	5 -6 5 -6 5 -6 5 -6 5 -6 5 -6	414-5 414-5 414-484 414-5 414-5	41/2-51/2 41/2-51/2 41/2-51/2 41/2-51/2 41/2-51/2	434-6 434-51/2 434-51/2 41/2-51/2 41/2-51/2 41/2-51/2	5 -6 5 -6 5 -6 5 -6	5 -7 5 -7 5 -7 5 -7 5 -7 5 -7	5 -6 5 -8 5 -6 5 -6 5 -6 5 -6
				_ .	Loans se	cured by	warehouse	receipts				
1927—September October November December 1928—January February March	4½-5 5 5 5 -5½ 5 5 5	412-5 412-5 5 412-5 412-6 412-5	412-6 5 -6 5 -6 5 -6 5 -6 5 -6 5 -6	4\$4-6 4\$4-6 4\$4-6 4\$4-6 4\$4-6 4\$4-6 4\$4-6	5 -6 51/2 6 6 6 51/2	5 -6 5 -6 5 -6	41/2-5 41/2-5 41/2-5 41/2-5 41/2-5 41/2-5	414-5 412-5 412-6 412-6 412-512 412-512 414-6	414-5 414-5 414-5 414-5 414-5 414-6 414-514	5 -6 5 -6 5 -6 5 -6 5 -6 5 -6	5 -6 5 -6 5 -6 15 -6 5 -6 5 -6 5 -6	5 -6 5 -6 5 -6 5 -6 5 -6 5 -6 5 -6
						Inter	bank loan	8				
1927—September October November December 1928—January February March	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	414-416 4 -416 4 -416 4 -416 4 -416 414-416 414-416	41/2-5 41/2 41/2-5 41/2-5 41/2-5 41/2-5 41/2-5	5 4\$4-5 4}2-5 5 5 4 -5 412-512	5 5 41/2-5 43/4 43/4 5 -6 5	5 -6 5 -6 5 -6 5 -6 5 -6 5 -6	5 5 5 5 5 4 ¹ / ₂ -5	5 -51/2 48/4-51/4 4 -51/2 41/2-51/2 48/4-51/2 5 -51/2	5 -6 5 -6 5 -6 4 ³ / ₄ -6 1 5 -5 ¹ / ₂ 5 -6 5 -5 ¹ / ₂	6 6 6 6	5 -6 5 5 5 5 5 -6	5 -6 5 -6 5 -6 5 -6 5 -6 5 -6 5 -6

FEDERAL RESERVE BRANCH CITIES

	Prime commercial loans				secured by achange co		Loans se	cured by w	arehouse	Interbank loans		
City	January, 1928	Febru- ary, 1928	March, 1928	January, 1928	Febru- ary, 1928	March, 1928	January, 1928	Febru- ary, 1928	March, 1928	January, 1928	Febru- ary, 1928	March, 1928
Buffalo Cincinnati Pittsburgh Baltimore Charlotte Birmingham Jacksonville Nashville New Orleans Detroit Little Rock Louisville Helena Denver Oklahoma City Omaha El Paso Houston San Antonio Los Angeles Portland Salt Lake City Seattle Spokane	4 ³ / ₄ -6 8 5 -6 4 ¹ / ₄ -6 6 -7	5 13 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	512-6 412-6 5-532-6 5-6 5-6 5-6 5-6 5-6 5-6 5-6 5-6 5-6 5	5 -6 41/2-6 5 -6 5 -8 5 -8 5 -7 5 -6 5 -7 5 -6 6 -8 6 -8 6 -8 6 -8 6 -7 6 -7 6 -7 6 -7	5 41/2 6 5 5 4 6 5 5 6 6 6 5 5 6 8 6 6 6 6 8 6 6 6 6 6	5 -6 412-6 5 -6 5 -8 5 -8 5 -8 5 -8 5 -6 5 -8 5 -6 5 -6 6 -8 6 -8	6 -7 -8 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	6 6—7 6 51/2-8 5 —6 5 —7 51/2-6 51/2-6 6 —7 6 —8 51/2-6 6 —61/2 7 —8 6 —7 6 —7 6 —7 6 —7 7 —7	6 -7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	434-5 5 -6 5 -6 5 -6 5 -6 5 -6 5 -6 5 -6 6 -8 6 -8 6 -8 6 -6 6 -8 6 -6 6 -6	51/2-6 5 -6 6 51/2-6 5 -6 5 -51/2 6 6 -8	5 -6 5 -6 5 -6 5 -6 5 -6 5 -6 6 -8

¹ Revised.

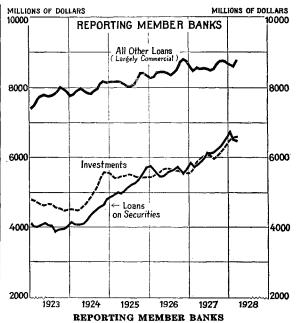
MEMBER BANK CREDIT

ALL MEMBER BANKS

[In millions of dollars]

	[In mil	lions of d	ollars]			
	All	Report		nber ba g cities	nks in	Mem- ber banks
Month	mem- ber banks	Total	New	Other le		out- side lead-
		1000	York City	Total	Chi- cago	ing cities
Borrowings at Federal reserve bank:						
1927—March	419 421	268 270	73 78	195 192	20 20	151 151
May	459	302	80	212	19	157
June July	435 434	271 273	51 59	220 214	20 12	164 161
April May June July August	413	256	74	182	6	157
September October November	417 428	267 283	90 75	177 208	10	150 145
November	421	276	75 73	203	11	145
December	532	388	127	261	21 23	143
February	439 463	315 338	94 78	221 260	13	124 125
March	489	362	75	287	25	127
	2, 265	1, 671	710	961	162	593
1927—March	2, 265 2, 254 2, 290	1, 671 1, 659	689	970	169	595
May	2, 290	1, 697 1, 749	720 776	977 973	175 173	594 593
July August	2, 290 2, 342 2, 299 2, 313 2, 323 2, 355	1, 696 1, 707	776 728	968	167	603
August September	2,313	1,707	724 726	983 983	182 182	605 614
October	2, 355	1,725	728	997	186	630 634
November December	2,400	1, 709 1, 725 1, 767 1, 787	768 769	999 1,018	180 189	634 623
1928—January	2, 400 2, 410 2, 436	1. 800	781	1,024	193	631
February	2, 384	1, 764 1, 7 3 3	754	1,010	186	620
Net demand plus	2, 351	1,733	738	995	[181	618
March Net demand plus time deposits:						
1927—March April May June	30, 257 30, 348	19, 136 19, 166	5, 997 6, 016	13, 139 13, 150	1,779	11, 192 11, 218 11, 253
May	30, 595	19, 400		13, 150 13, 270	1,777 1,833	11, 253
June	30, 693	19, 688 19, 593	6, 400 6, 257 6, 224 6, 228 6, 269	12 988 1	1,839 1,864	11, 252
July August	30, 816 30, 827	19, 616 19, 723	6, 224	13, 336 13, 392 13, 495	1,908	11, 409 11, 567 11, 721 11, 823
September October	21 110	19, 723	6,228	13, 495	1, 914 1, 929	11, 567
November	31, 487 31, 759 32, 263	19, 871 20, 217 20, 395		13, 602 13, 732 13, 791 13, 916 13, 785 13, 776	1, 939	11, 823
November December	32, 263	20, 395	6, 604 6, 732	13, 791	1,931	11, 8 3 2 11, 909
1928—January February March	32, 647 32, 152 32, 159	20, 648 20, 349 20, 323	6,564	13, 785	1, 964 1, 919	11,811
March	32, 159	20, 323	6, 547	13,776	1,923	11,845
Net demand deposits: 1927—March	18, 357	13, 069	5, 068		1, 208	5;294
1927—March A pril May June July August September	18, 357 18, 346	13, 069 13, 069 13, 215	5.066	8,001 8,003	1, 208 1, 203	5, 294 5, 305
June	18, 471 18, 534 18, 555	13, 213	5, 179 5, 390 5, 265	8, 036 8, 059	1, 249 1, 245 1, 260	5, 279 5, 280 5, 355
July	18, 555	13, 449 13, 340 13, 309	5, 265	8,075	1, 260	5, 355
September	18, 493 18, 667	13, 309	5, 213 5, 224	8, 096 8, 150	1, 291 1, 301	5, 329 5, 4 3 7 5, 558
October November	18, 667 18, 960 19, 180	13, 374 13, 447 13, 734	5, 224 5, 255	8, 150 8, 192 8, 304	1, 301 1, 304	5, 558
November December	19, 180	13, 734	5, 430 5, 570		1, 317	5, 6 50 5, 6 27
December 1928—January	19,719	14,014	5, 633 5, 471	8, 381	1, 326 1, 272	5,609
February March	19, 162 19, 104	13, 695 13, 597	5, 467	8, 381 8, 224 8, 130	1, 272	5, 487 5, 466
		1				
1927—March	11, 900 12, 002 12, 124	6, 067 6, 097	929 950	5, 138 5, 147	571 574	5, 899 5, 914
May	12, 124	6 100	956	5, 234	584	5, 974
June July	12, 159 12, 261	6, 239	1,010 992	5,229	594 604	5, 973 5, 051
August September	12, 159 12, 261 12, 384 12, 452	6, 239 6, 253 6, 307 6, 349	1.010	5, 147 5, 234 5, 229 5, 261 5, 297 5, 345	617	5,081
September	12, 452 12, 527	6, 349 6, 424	1,004 1,015	5, 345 5, 409	613 625	5, 130 5, 163
November	12, 579	6,483	1,055	5, 428	625 622	5, 174
September October November December 1928—January February March	12, 579 12, 677 12, 928	6, 491 6, 634	1,034 1,099	5, 457 5, 535	633 638	5, 174 5, 205 6, 300
February	12, 928	6,653	1.093	5,560	647	0.324
March	13, 055	6, 726	1,080	5, 646	661	6, 379

NOTE.—All figures in this table are monthly averages of weekly figures except those for deposits of (1) all member banks, and (2) banks outside leading cities; these are for a single date in the month. See BULLETIN for December, 1927, p. 828.



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

	Total loans		Loans	1	
Month	and in- vest- ments	Total	On se- curi- ties	All other	Invest- ments
Total:				,	
1927—February	19, 847	14, 208	5, 705	8, 503	5, 639
March	20, 261	14, 382	5, 790	8, 592	5, 878
April	20, 333	14, 401	5, 854	8, 547	5, 933
May	20, 542	14, 502	5, 941	8, 562	6,040
June	20,779	14, 685	6, 146	8, 539	6,094
July		14, 616	6, 116	8,500	6,066
August		14,666	6, 125	8, 541	5,975
September	20,946	14, 913	6, 221	8,692	6,033
October	21, 222	15, 108	6,325	8,782	6, 114
November		15, 193	6,410	8, 783	6, 264
December	21,724	15, 328	6, 594	8, 735	6, 396
1928—January	21, 915	15, 394	6,726	8,668	6, 522
February	21, 687	15, 142	6,520	8, 622	6, 545
March	21,873	15, 290	6, 498	8,792	6, 583
New York City:	1 ' 1	1			
1927—February	6, 189	4, 432	2, 047	2, 389	1, 752
March	6, 349	4, 526	2,097	2, 429	1,824
April		4,570	2, 156	2, 414	1,851
May		4,629	2, 201	2, 428	1,906
June		4,767	2, 326	2, 441	1,925
July	6,602	4,720	2, 281	2, 439	1,882
August		4,748	2, 275	2, 473	1,831
September		4, 911	2, 313	2, 598	1,794
October	6, 783	5,009	2,370	2,640	1,773
November		5, 115	2, 465	2,651	1,838
December		5, 228	2,605	2,622	1,897
1928—January	7, 277	5, 312	2,692	2, 619	1,965
February	7, 103	5, 111	2,509	2,602	1,992
March	7, 148	5, 143	2, 429	2,714	2,005
Other leading cities:	10.055	0	0.05-	0 11.	9 000
1927—February		9,771	3, 657	6, 114	3,886
March		9,857	3, 693	6, 163	4,054
April	13, 912	9, 831	3, 698	6, 133	4, 082
May		9,874	3,740	6, 134	4, 134
June		9,918	3,820	6, 097	4, 169
July		9,896	3,833	6,063	4, 184
August		9,918	3,850	6,068	4, 145
September		10,002	3, 908	6,094	4, 239
October		10,098	3,956	6, 142	4,341
November		10,078	3,946	6, 132	4, 426
December		10, 101	3,988	6, 112	4, 499
1928—January		10, 082	4,034	6,048	4, 557
February	14, 584	10,031	4,011	6,020	4, 553
March	14,725	10, 147	4,069	6,078	4, 578

BANKERS' BALANCES OF REPORTING MEMBER BANKS IN LEADING CITIES

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

		1 1	i .											
			New					Other	leading	cit ie s				
		Total	York City	Total	Boston	Phila- delphia	Pitts- burgh	Cleve- land	Chi- cago	St. Louis	Min- neapolis	Kansas City	San Fran- cisco	All
Due to bank	ks:													
	ebruary		1,084		127. 2	179. 1		46.9	377.3	92.0	55.8	103.0	102. 4	
	Iarch		1, 116		130.3	178. 2		45.9	387. 5	84.9	54.8	94.0	94.4	
	pril		1,086		135. 1 131. 2	180. 9 180. 0		47. 5 45. 0	383. 2 379. 9	84. 3 83. 7	47.3	91.0	89.0	
	lay 1ne		1,072 1,098	- 	126.4	179.4		46.3	381.5	81.4	50. 4 48. 6	91. 6 93. 7	87. 8 94. 8	
	ıly.		1,067		130. 2	174.7		49.5	373. 3	83. 9	46.7	108.8		
	ugust		1,040		119, 9	167, 8		48.9	371.7	82.7	43. 1	110.5		
Se	eptember	l	1,062		119, 5	170.0		49.9	374.6	80.3	45.6	103.7	109.0	
O	ctober		1,067		125.8	170.8		48.2	359.7	79.3	50.4	98.4	107. 2	
	ovember		1,052		128.3	165. 6		46.6	349.2	78.9	52.7	97.0	105.8	
	ecember		1,078		126.5	163. 1		45.1	349, 1	79. 5	50.8	96, 7	107.6	
	anuary		1, 107 1, 090	2, 212	136, 8 135, 8	173. 0 173. 1	134. 5	48. 8 53. 6	372. 4 364. 5	88. 5 88. 3	53. 1	101.2	105. 9 127. 1	983. 8
	ebruary Iarch		1, 118	2, 186	134.6	172.5	128.8	54.0	374.1	87.0	55. 5 53. 6	95. 3 90. 3	104. 1	986. 7
A	pril		1, 104	2, 139	142, 2	170.6	128.8	55. 6	364.8	86.1	50.9	86.7	94. 9	958, 2
	lay		1, 117	2, 108	137, 3	169. 1	124. 3	55. 1	374. 4	81.8	47. 5	82.6	98. 4	937. 8
Jυ	une	3, 229	1, 171	2,058	143, 1	164. 2	121. 3	56.1	347.9	81.4	47. 5	82.7	99. 9	913. 8
	uly		1, 164	2, 144	160.7	169. 1	125. 0	60.3	363. 4	81.9	46.5	91.8	108. 4	936. 6
A ¹	ugust	3, 313	1, 160	2, 154	152, 1	167. 9	128.5	60.4	363.9	78.6	45. 5	91. 2	107. 4	958. 2
Se	eptember	3, 379	1, 177	2, 202	141.4	168.6	127.3	61.4	372.0	78. 7	57.6	87.9	105. 7	1,001.5
	ctober		1, 209 1, 324	2, 266 2, 330	146. 8 156. 5	172. 9 173. 5	130. 8 132. 9	61. 2 63. 1	376. 8 368. 1	78. 9 85. 3	63. 8 62. 3	83. 8 83. 8	110. 1 127. 9	1, 040. 8 1, 076. 1
10.	ovember		1, 282	2,306	150. 7	168.0	131. 2	59.6	370.0	86.4	58. 4	88.1	126.3	1, 066. 9
1928—Ja	anuary		1, 373	2,347	167. 5	179.6	131.3	62.0	379.8	88. 5	57. 1	92. 2	117. 7	1, 071. 6
F	ebruary		1, 331	2, 280	148. 9	169. 2	132, 2	62. 9	375.0	85. 9	58. 1	92.9	114. 5	1, 040. 3
	Iarch		1,318	2, 206	141.3	164.7	118.4	61. 2	378.6	77. 9	61.8	89.4	117.1	995. 6
Due from b] '		j '				}						
1926—F	ebruary		97		35. 2	62.7		25.8	149.3	30. 5	19.0	41.7	52. 1	
	larch		97		37. 9			27.4	150.1	28, 2	20.6	39.9	50. 1	
A)	pril lay		108 101		44. 5 42. 6	69. 6 63. 7		28. 6 27. 1	153. 2 165. 4	28. 6 30. 2	21. 8 21. 6	38. 4 39. 5	50. 1 48. 4	
Tu.	ine		101		44.3			30.0	168.3	29.3	21.6	37.8	51.3	
	ıly		105		39. 5			27. 1	157. 1	27. 9	22. 6	47.0	54. 0	
A	ugust		92		38. 7			25. 6	148, 9	26, 2	19.3	46.9	50. 3	
	eptember		102		40.3			25. 1	151.7	25. 6	20.3	44.9	53. 9	
	ctober		111		37.0			27. 6	155. 6	28.0	22. 3	43.7	53. 0	
	ovember		103		41.0	56.8		27. 1	154.6	29. 5	22.8	50.5	50.6	
	ecember		97 100		37.8 40.2	55. 1 55. 2		24. 3	161. 8 154. 2	28. 4	22. 2	43.7	54. 4	
1821—Ja	anuaryebruary	1, 177	93	1.083	39. 1	58.0	35, 5	27. 5 23. 3	144.5	31. 7 29. 9	21. 5	44.6 41.9	50. 8 52. 1	639. 2
	farch		100	1,003	41.0	55.4	43. 2	22. 3	154. 9	29. 9	19.8	40.6	54. 4	632. 5
	pril		107	1.068	48. 2	54. 4	36.8	22. 9	151.8	28. 2	19.8	38.6	50. 8	616. 7
M	Iay	1, 166	102	1,064	42.8	53. 4	38. 4	22. 7	173. 9	27. 3	19.6	33. 5	51. 3	601. 4
Ju	ine	1, 152	95	1,057	45.8	56. 4	40.9	24. 5	150.6	26. 5	19. 9	33. 4	53. 5	605. 9
Ju	uly	1, 148	92	1,056	45, 9	50. 7	36. 1	22, 9	148.3	25. 6	21.7	36.0	52. 3	616. 1
A.	ugust	1, 129	85	1,044	44. 1	52.3	39. 7	24. 2	146.8	27. 0	19.8	33.1	533	603. 8
86	eptemberetober.	1, 194 1, 253	95 111	1,099 1,142	43. 1 52. 6	51, 2 52, 3	38.3 41.0	26. 4 24. 9	152. 2 152. 7	25. 6 28. 0	27. 7 29. 3	32.9	58.8	642.6
	lovember		104	1, 142	45. 7	60.9	37, 3	24. 9	158.1	30, 6	29.3	36. 1 35. 1	56. 8 66. 8	687.
	ecember		103	1, 113	42. 2	52.6	33. 3	22.3	150. 1	33. 1	20.5	36.0	70.5	651. 9
1928Ja	anuary	1, 267	112	1, 155	52, 3	56. 7	36, 7	23.6	147. 7	36.6	21.0	35, 2	68. 8	676. 5
F	ebruary	1, 185	105	1,080	41.2	52. 1	34.6	24.9	145.9	32.9	18.8	33. 1	64. 7	631. 6
	farch	1, 163	110	1,053	36.7	50.3	32.7	23.1	150.8	29.9	19.7	31.8	61.8	616.2

BANKERS' ACCEPTANCES AND COMMERCIAL PAPER OUTSTANDING

[In millions of dollars]

End of—	Banker	s' acceptan	ices outsta	inding 1	Commercial paper outstanding ⁹						
	1925	1926	1927	1928	1922	1923	1924	1925	1926	1927	1928
January February March April May June July August September October November December	835 808 800 757 680 608 569 555 607 674 690 774	788 767 746 721 685 622 600 583 614 682 726 755	774 785 809 811 775 751 741 782 864 975 1,029	1,058	705 718 760 792 791 795 805 807 805 775 748 722	807 838 864 867 888 885 854 831 803 815 799 763	818 867 889 871 852 864 879 911 915 925 888 798	820 820 813 801 776 759 727 722 708 684 666 621	654 655 3 668 3 663 668 652 655 638 612 593 566 526	551 577 3 606 599 582 579 569 591 600 611 603 555	577 567

Figures collected and compiled by American Acceptance Council.
 Paper maturing within 7 months. Figures reported by 25 dealers to the Federal Reserve Bank of New York; prior to January, 1928, 26 dealers reported.
 Revised.

BROKERS' LOANS

BROKERS' BORROWINGS ON COLLATERAL, IN NEW YORK CITY, REPORTED BY THE NEW YORK STOCK EXCHANGE [Net borrowings. In millions of dollars)

	On de	mand and or	time		On demand			On time	
Date	Total	From New York banks and trust com- panies	From private banks, brokers, foreign banking agencies, etc.	Total	From New York banks and trust com- panies	From private banks, brokers, foreign banking agencies, etc.	Total	From New York banks and trust com- panies	From private banks, brokers, foreign banking agencies, etc.
1926—Jan. 30. Feb. 27. Mar. 31. Apr. 30. May 31. June 30. July 31. Sept. 30. Oct. 30. Nov. 30. Dec. 31. 1927—Jan. 31. Apr. 30. May 31 June 30. July 30. Aug. 31 Sept. 30. Oct. 31 Nov. 30. Dec. 31 1928—Jan. 31. Feb. 29. Mar. 31	2, 928 2, 998 3, 142 3, 219 3, 111 3, 129 3, 293 3, 256 3, 290 3, 341 3, 458 3, 569 3, 642 3, 674 3, 946 4, 092	3, 043 3, 081 2, 553 2, 563 2, 593 2, 583 2, 697 2, 745 2, 667 2, 804 2, 771 2, 865 2, 804 2, 771 2, 865 3, 145 3, 140 3, 340 3, 351 3, 519 3,	470 455 447 367 375 417 415 444 474 493 489 469 499 500 476 490 504 575 583 621 615	2, 517 2, 495 2, 033 1, 970 2, 225 2, 253 2, 364 2, 419 2, 289 2, 330 2, 542 2, 232 2, 542 2, 545 2, 547 2, 767 2, 767 2, 765 2, 764 3, 018 3, 018 3, 134 3, 133 3, 393 3, 393 3, 580	2, 123 2, 123 1, 678 1, 699 1, 703 1, 852 1, 918 1, 984 2, 021 1, 924 1, 932 2, 123 2, 124 2, 346 2, 254 2, 346 2, 343 2, 330 2, 539 2, 539 2, 675 2, 963 2, 882 2, 887 3, 016	394 372 355 271 285 374 365 379 398 386 397 414 420 441 421 415 479 475 459 5118 5111	996 1, 041 967 866 780 7781 7715 778 800 822 800 751 810 781 785 800 784 812 877 978 923 958 952 1, 027 1, 028	920 958 875 770 890 657 713 724 743 704 676 707 673 679 719 719 802 840 801 814 844 844 844 849 923	76. 1 83. 0 91. 6 96. 1 96. 1 96. 2 65. 0 75. 8 95. 9 108. 4 106. 6 81. 4 70. 5 88. 8 95. 8 108. 8 108. 4 103. 4 104. 2 97. 7 128. 8

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]

	D	emand and	l time loar	ıs		Deman	d loans			Time :	loans	
Month or date	Total	For own account	For account of out-of-town banks	For account of others	Total	For own account	For account of out-of-town banks	For account of others	Total	For own account	For account of out-of-town banks	For account of others
February March April May June July August September October November December Herring May June July August September October November December July August September October March April May June July August September October November December June July August September October November December June March Mar Mar Mar Mar Mar Mar Mar Mar Mar Mar	3, 126 3, 119 2, 800 2, 462 2, 517 2, 720 2, 783 2, 783 2, 698 2, 615 2, 698 2, 778 2, 615 2, 816 2, 863 3, 116 3, 261 3, 392 3, 441 3, 802 3, 746 3, 746 3, 746 3, 746	1, 259 1, 182 1, 051 905 913 973 960 948 8974 866 819 988 887 933 841 901 1, 077 1, 032 1, 048 1, 061 1, 103 1, 175 1, 282 1, 164 1, 104 1, 109 1, 090 1, 090	1, 281 1, 329 1, 173 1, 035 998 944 1, 000 1, 073 1, 128 1, 106 1, 048 1, 104 1, 117 1, 109 1, 118 1, 125 1, 285 1, 285 1, 285 1, 285 1, 470 1, 500 1, 462 1, 462 1, 462 1, 462 1, 462	585 585 508 576 528 541 600 646 699 682 748 766 741 765 824 806 805 858 877 908 916 990 990 985 990 1, 117 1, 215 1, 215 1, 215 1, 215 1, 225	2, 185 2, 153 1, 878 1, 648 1, 948 1, 938 1, 938 1, 938 1, 938 2, 027 2, 074 1, 975 1, 911 2, 094 2, 154 2, 190 2, 386 2, 386 2, 386 2, 382 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 782 2, 938 2, 861 2, 790 2, 887	782 695 587 472 516 613 605 610 656 549 520 596 639 5748 615 642 639 7772 705 726 726 727 879 948 992 820 741	884 922 785 705 717 689 746 6793 807 773 723 737 799 843 805 830 851 857 849 942 902 981 1,083 1,084 1,036	519 519 536 536 488 536 536 624 611 653 663 679 656 678 734 719 762 774 791 851 853 863 967 1,084	941 967 922 822 823 678 671 693 710 686 685 686 661 677 714 730 760 815 799 809 839 863 900	477 487 464 433 396 359 355 337 318 319 295 293 285 287 297 306 327 322 284 283 296 334 350 347 323	398 408 388 330 282 255 254 280 321 333 320 308 305 284 286 301 310 328 330 376 376 374 373 385 374 418 418 418	65. 6 71. 8 70. 6 59. 6 55. 3 63. 8 62. 1 72. 8 85. 4 71. 0 84. 8 87. 1 89. 9 88. 4 95. 8 102. 9 116. 4 120. 5 120. 6 121. 4 132. 3 142. 8 159. 6 162. 1 163. 8 163. 1 164. 1 165.

COMMODITY PRICES, SECURITY PRICES, AND SECURITY ISSUES

WHOLESALE PRICES, BY COMMODITY GROUPS 1 [1928=100]

				(1000							
Month	All com- modities	Farm products	Foods	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
1927—January February March April May June July August September October November December 1928—January February	94. 5 93. 7 93. 7 93. 8 94. 1 95. 2 96. 5 97. 0 96. 7 96. 8	96. 5 95. 4 94. 2 94. 3 96. 3 96. 5 97. 6 102. 2 105. 9 104. 3 104. 3 104. 5	96. 9 95. 9 94. 5 94. 6 94. 4 93. 9 94. 2 96. 5 100. 0 101. 5 100. 5 98. 5 98. 7	101. 0 100. 2 100. 5 101. 7 103. 7 107. 3 111. 7 112. 5 113. 0 114. 3 116. 9 121. 0	94. 3 94. 6 94. 0 94. 2 93. 9 94. 3 96. 2 98. 5 98. 4 97. 5 97. 2 96. 7	97. 7 95. 8 90. 0 84. 9 83. 9 84. 2 84. 2 84. 1 84. 2 83. 8 82. 9 82. 5 80. 8 81. 2	98. 8 98. 0 98. 2 97. 8 98. 6 98. 2 97. 7 98. 0 97. 1 97. 0 98. 1 98. 3	97. 5 96. 2 95. 3 95. 0 95. 1 94. 6 93. 7 92. 9 92. 1 91. 6 90. 2 90. 2 90. 8 91. 0	97. 6 97. 6 97. 1 97. 8 95. 4 95. 3 95. 4 96. 4 97. 1 97. 4 97. 2 96. 3 95. 8	97. 9 97. 8 97. 8 97. 8 98. 0 98. 6 98. 5 98. 5 98. 8 98. 8	90. 3 90. 6 90. 9 91. 3 91. 3 90. 2 89. 3 89. 9 88. 3 88. 3 89. 0 89. 0

¹ New index of Bureau of Labor Statistics. See Bulletin for October, 1927, pp. 696-699.

PRICES OF FARM PRODUCTS AT THE FARM I

[August, 1909-July, 1914=100]

Month	30 com- mod- ities	Grains	Fruit and vege- tables	Meat animals	Dairy and poultry prod- ucts	Cotton and cotton- seed	Un- classi- fled
1927 January February	126 127	120 122	140 142	140 143	152 142	85 94	87 84
March	126	121	140	144	133	102	81
April	125	119	147	143	133	101	80
May	126	127	158	137	130	113	79
June	130	140	201	129	124	119	82
July	130	139	195	131	125	124	81
August	132	138	172	136	127	136	81
September .	140	134	145	142	137	179	87
October	139	128	138	145	146	169	83
November	137	120	136	141	153	162	86
December	137	123	141	138	158	153	90
1928 January February March	137	125	144	138	154	152	91
	135	128	153	139	144	141	90
	137	136	174	139	137	147	89

¹ Index numbers of Department of Agriculture.

DOMESTIC CAPITAL ISSUES

[In millions of dollars]

	Fob	uary.	J	anuary-F	ebruary		
Class of issue		928	. 19	928	1927		
	New	Re- fund- ing	New	Refund- ing	New	Re- fund- ing	
Total	509. 2	193. 2	941. 6	350. 0	1, 235. 2	352, 2	
Corporate issues Bonds and notes—	376. 1	191. 7	709. 3	346. 7	966. 5	347. 6	
Long-term	240.6	160.3	448. 1	289. 8	590. 7	308. 1	
Short-term	20.8	19.3	37.3	19.8	23. 6	6. 5	
Stocks	114.7	12. 1	223. 9	37. 1	352. 2	33.0	
Farm-loan issues	2. 3		3.8		28. 7		
Municipal issues	130.8	1.5	228.5	3.3	240.0	4.6	
Total new and refunding	70:	2. 4	1, 20	91. 6	1, 587. 4		

SECURITY PRICES

•	Cor	nmon stoc	ks 1	Bonds:
Month or week	197 industrial stocks 2	31 railroad stocks 3	Total 228 stocks	Average
1927—March	165.7	143. 1	159.0	96. 63
April	165.1	147. 4	166. 2	97. 24
May	174.5	150. 5	. 167.5	97. 55
June	175.4	151. 9	168. 5	97. 06
July	179.0	153. 9	171.7	97. 03
August	189.0	156.0	179.3	97. 76
September	197.0	157. 1	191, 1	98.00
October	197.5	158. 9	186. 2	98. 62
November	202.1	158. 6	189. 4	98.98
December	208.7	160. 6	194.6	99. 25
1928—January	210.4	158. 2	195. 2	99. 35
February	207. 6	15 3 . 7	191. 9	99. 31
March	221.0	159.0	202. 9	99. 20
Week ending-	1			
Mar. 3	209. 9	154.8	193. 8	99. 07
Mar. 10	215.4	155.8	198. 0	99.08
Mar. 17	220.6	161.8	203.4	99. 25
Mar. 24	227.6	160. 4	208.0	99. 32
Mar. 31	231.7	16 2 , 1	211.4	99. 29
	()		1	

- Index numbers of Standard Statistics Co.
 Average of 1917-1921 prices=100.
 Average of yearly high and low prices, 1913-1922=100.

FOREIGN CAPITAL ISSUES

	111110112	or don	iarsj				
	Febr	uary.	Ja	nuary-	Februar	У	
Class of issue		28	19	28	1927		
Class of issue	Gov- ern- ment	Corpo-	Gov- ern- ment	Cor- porate	Gov- ern- ment	Cor- po- rate	
Total	103. 8	31. 9	212. 1	95. 9	155. 7	97.8	
New issues	72. 5 19. 0	25. 1 11. 3	168. 4 52. 8	85. 1 50. 0	118. 7 2. 1	86. 2 42. 8	
Canada and Newfound- land	7.0		15. 3	18.8	30. 1	5. 8	
Latin America United States insular	40.0		92. 8	2. 5	62. 1	8. 0	
possessions Miscellaneous	6.5	13. 9	1.0 6.5	13. 9	1. 4 23. 0	4. 6 25. 0	
Refunding issues	31. 2	6.8	43.7	10.7	37.0	11.7	
corporate	134	5. 6	300	3.0	253. 5		

PRODUCTION, EMPLOYMENT, AND TRADE

[Index numbers of the Federal Reserve Board]

				lind	ez numbe	15 01 1116 .	r cuciai 1t	eserve D	oaruj					
	Indus- trial	Produc- tion of manu-	Produc- tion of	Factory employ-	Factory pay	Building awar	contracts	Freight car		sale dis- ution		tment- sales ¹		tment- stocks 1
Year and month	produc- tion 1	fac- tures 1	miner- als 1	ment	rolls	Unad- justed	Ad- justed	load- ings 1	Unad- justed	Ad- justed	Unad- justed	Ad- justed	Unad- justed	Ad- justed
	Mo. a	v. 1923-19	025≈100	Mo. av.	1919=100			М	onthly a	verage 1	923-1925=	100		
ANNUAL INDEX												[
1919	83 87	84	77	100	100	64		84	110		78		79	
1920	87 67	87 67	89 70	103 82	124 84	63 57		91 79	114 87		94 87		105	
1921 1922	85	87	74	90	89	81		86	89		88		89 88	
1923	101	101	105	104	113	84		100	101		98		98	
1924 1925	95 104	94 105	96	95 95	104 107	95 122		98 103	98 101		99 103		101 101	
1926	108	108	107	96	109	129		107	98		106		103	
1927	106	106	107	92	105	128		103	95		106		102	
MONTHLY INDEX	100	100				•••		100						
July August	103 102	102 100	111 110	104 104	113 113	79 75	76 72	102 101	92 115	101 103	71 79	98 99	90 96	97 100
September	100	101	98	104	114	73	76	99	115	99	89	100	105	101
October November	99 98	98 96	104 105	104 103	117 115	91 80	88 90	97 99	123 100	103 100	117 113	100 99	111 114	100 101
December	96	96	99	101	113	76	90	95	82	95	161	100	94	100
1924 January	100	99	102	100	108	76	101	99	94	103	87	99	90	101
Fe br uary	102	102	104	101	114	78	101	103	98	102	82	105	97	102
March	100 95	101 95	99 92	101 99	113 111	109 121	99 96	99 98	102 96	94 99	91 104	99 99	105 107	102 103
May	89	88	93	96	105	108	95	97	87	95	100	97	104	102
June July	85 83	84 82	92 92	93 89	100 92	101 87	91 84	92 92	82 86	91 93	94 72	100 96	97 93	100 100
August	89	88	92	89	96	89	85	95	105	95	74	95	96	100
September October	94 94	93 95	97 89	91 93	99 103	87 103	90 100	99 99	118 118	101 99	93 111	100 95	105 111	101 101
November	97	. 97	96	92	101	95	103	99	97	99	111	101	113	100
December	101	101	100	94	106	83	94	100	88	101	168	100	94	100
1925 January	105	106	104	94	103	75	101	103	93	102	86	98	90	102
February	105	106	100	96	109	76	104	103	97	101	80	103	96	101
March	104 103	106 103	96	96	110 107	120	107	100	109	100	95	103	104	101
April May	103	103	98 104	96 95	107	138 124	112 115	104 105	98 90	100 99	106 100	102 101	106 103	101 100
June	102	102	101	94	105	137	125	101	91	100	99	100	97	100
July August	103 103	103 102	104 108	93 94	102 105	133 149	128 135	101 105	94 113	102 101	75 78	100 101	94 98	101 102
September	102	104	90	95	104	138	135	102	117	100	95	102	106	102
October November	105 106	107 109	91 94	97 97	111 112	129 116	129 127	100 104	124 99	105 100	129 114	110 104	111 115	101 102
December	108	110	93	97	112	129	138	105	89	98	178	106	97	103
1926 January	106	109	92	96	107	111	146	102	94	102	89	106	93	105
February March	107 107	108 108	96 106	97 97	112 113	99 146	136 128	104 105	97 107	101 100	81 102	104 101	98 107	103 104
April	107	107	106	96	110	139	120	107	94	97	103	103	107	103
May June	106 107	107 107	104 106	96 95	109 109	134 133	125 125	108 109	91 91	99 99	107 101	107 102	103 98	101 101
July	107	107	107	93	104	126	124	108	91	97	78	104	94	101
August	111 112	111 112	109	94	108 108	146	129 130	108 109	107	97 100	83	107	97	101
September October	111	110	111 115	96 96	112	137 126	126	109	117 111	94	101 124	109 110	107 114	103 103
November	108 105	106 103	118	95 i 94 i	109 108	119	130	108	97	98	121	106	117	104
December	100	103	119	34	100	131	136	106	84	95	184	110	96	102
January	107 109	105 107	116 118	92 94	102 109	94 96	123 131	105 109	87 91	94 95	89 83	106 106	92 97	103 102
February March	111	110	118	94	110	151	131	109	103	95 95	100	105	106	102
April	108	109	104	93	108	147	128	108	90	93	111	105	106	102
May June	111 108	111 108	108 104	93 92	108 106	135 154	126 144	107 104	87 87	95 93	102 101	103 103	103 97	101 100
Inly	106	106	100	91	101	130	128	101	88	95	75	103	94	101
August September	107 105	107 105	106 105	91 92	104 104	135 127	119 121	104 104	111 112	100 96	89 100	111 108	97 107	101 103
October November	103	102	105	92	105	137	137	101	106	91	119	105	113	103
November	99	98 99	101 103	90 89	101 102	114 116	125 121	96 94	93 82	95 93	122 186	107 111	116 96	103 102
1928	ĺ							i						
January February	106 110	107 111	103 103	88 89	98 104	104 113	137 155	100 102	87 92	95 97	88 85	105 : 105	91 97	103 102
I out uat y	110	111	100	09	104	113	100	102	82	81	00	100	81	102
				·	<u>.</u>					···········				

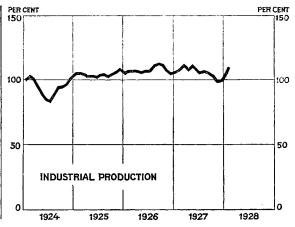
¹ The indexes of production and car loadings are adjusted to allow for seasonal variation; the indexes of building contracts, wholesale distribution, and department-store sales and stocks are shown both with and without seasonal adjustments.

INDUSTRIAL PRODUCTION

INDEX OF INDUSTRIAL PRODUCTION

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

Month	1922	1923	1924	1925	1926	1927	1928
January	73	100	100	105	106	107	100
February	76	100	102	105	107	109	110
March	80	103	100	104	107	111	
April	77	107	95	103	107	108	
May	81	107	89	103	106	111	
June	86	105	85	102	107	108	
July	86	103	83	103	107	106	
August	84	102	89	103	111	107	
September	88	100	94	102	112	105	
October	94	99	94	105	111	103	
November	97	97	97	106	108	99	
December	100	96	101	108	105	99	
Annual index	85	101	95	104	108	106	



INDEX OF PRODUCTION OF MANUFACTURES, BY GROUPS

Year and month	Total	Iron and steel	Textiles	Food prod- ucts	Paper and printing	Lumber	Auto- mobiles	Leather and shoes	Cement, brick, and glass	Non- ferrous metals	Petro- leum refining	Rubber tires	Tobacco manu- factures
MONTHLY INDEX]
January February March April May June July August September October November December	105 107 110 109 111 108 106 107 105 102 98	105 113 114 115 116 104 102 101 97 93 87 92	108 108 114 112 116 121 118 119 118 119 113 112	95 93 99 98 103 102 96 97 93 94 94	113 113 113 114 112 112 114 112 113 111 110	96 95 91 88 95 93 95 95 99 94 96	95 99 104 104 105 93 83 88 81 71 47	99 102 98 98 100 105 113 112 113 108 97	101 107 119 109 108 109 111 115 113 108 107	116 112 108 112 111 108 106 108 107 106 106 106	135 134 135 134 132 134 136 136 139 142 140	118 117 123 131 127 131 124 119 113 116 117	114 113 116 122 122 116 109 119 123 121 122 112
1928 January February	1 107 111	110 114	1 106 107	102 110	117 118	97 98	91 102	98 100	111 115	101 109	135 139	126 136	118 118

INDEX OF PRODUCTION OF MINERALS, BY PRODUCTS

Year and month	Total	Bitumi- nous coal	Anthracite coal	Crude pe- troleum	Iron-ore shipments	Copper	Zine	Lead	Silver
MONTHLY INDEX						i			
1927						***			0=
January	116 118	119 125	101 95	120 123		114 111	113 113	113 112	97 95
February March	118	131	88	123		100	114	115	90
April	104	87	108	119		106	110	120	90
May	108	94	117	120	120	107	108	113	90
June	104	91 87	102 75	120 124	101	105 101	114 109	112 116	93
July August	100 106	92	107	124	99	101	114	112	90 90 90 93 94 94 90
September	105	92	100	124	87	104	iii	iii	90
October	105	90	107	124	95	102	110	105	91
November	101	85	106	124	49	106	107	110	100
December	103	87	92	124	i	105	109	109	95
1928	j							ì	
January	103	92	88	121	[102	104	104	93
February	103	94	88	119		104	107	111	83

¹ Revised.

Nors.—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 and monthly in leass for the above groups were published in the Bulletin for February and March, 1927.

PRODUCTION OF MANUFACTURES, BY INDIVIDUAL LINES

	February, 1928	January, 1928	February, 1927		February, 1928	January, 1928	February, 1927
Iron and steel:				Leather and products:			
Pig iron	100	95	105	Leather, tanning—	i		
Steel ingots	116	111	114	Sole leather I	98	92	100
Textiles:				Upper leather—			1
Cotton consumption	104	104	112	Cattle	68	68	90
Wool-	1			Calf and kipGoat and kid	103	102	93
Consumption.	. 97	92	97	Goat and kid	122	131	120
Machinery activity	. 86	87	89	Boots and shoes	102	99	102
Carpet and rug loom activity 1.	92	93	87	Stone, clay, and glass: Cement			
Silk—	l			Cement	111	129	96
Deliveries Loom activity 1	144	137	127	Brick-			
Loom activity 1	124	119	110	Face brick	109	100	119
Food products:	1 .			Plate glass	122	101	123
Slaughtering and meat packing—				Nonferrous metals:			
Hogs	130	101	79	Copper	112	102	113
Cattle	98	92	107	Lead	111	104	112
Calves.	100	102	105	Zine	107	104	113
Sheep	112	115	111	Tin 1	96	85	105
Flour Sugar meltings	113	101	96	Chemicals and allied products:			
Sugar meitings	. 78	116	95	Petroleum refining—			150
Paper and printing:				Gasoline 1	155	151	150 97
Wood pulp and paper-	0.4	0.4	105	Kerosene	101	100	
Newsprint	94	94	105		120	117	122
Book paper	123	120	116			111	109
Fine paper	129	118	102	Coke production— By-products	100		117
Fine paper Wrapping paper Paper board	121 119	124	103 112	By-products	122	121	117
Paper board	105	118 100	105	Beehive	29	29	99
Wood pulp, mechanical Wood pulp, chemical	105	100	103		139	130	119
Papar barea	119	115	131	Tires, pneumatic Inner tubes	113	97	99
Paper boxes. Newsprint consumption		129	125	Tobacco products:	119	97	39
Lumber:	120	129	120	Cigars	. 90	85	94
Lumber, cut	97	97	94 '	Cigarettes	140	143	129
Flooring.	109	100	109	Manufactured tobacco and snuff		95	97
Transportation againment:		100	109	MADDINGCOUNT TO SHEET SHEET	34	90	31
Transportation equipment: Automobiles	102	91	99				1
Locomotives	39	34	65				1
Shipbuilding		153	164				ſ
ombounding		100	101		i		1

¹ Without seasonal adjustment.

FACTORY EMPLOYMENT AND PAY ROLLS

[Index numbers without seasonal adjustment. Monthly average, 1919=100]

	a dajaco			a rotago,	1010 - 1										
Month		Meta prod		Textile	es and pr	oducts	Lum- ber	Rail-	Auto-	Paper	Foods and	Leather and		To- bacco	Chem- icals
Month	Total	Group	Iron and steel	Group	Fabrics	Prod- ucts	and prod- ucts	vehi- cles	mobiles	and print- ing	prod- ucts	prod- ucts	clay, and glass	prod- ucts	and prod- ucts
Employment: 1927—January. February. March. April. May. June. July. August. September October. November. December. 1928—January. February.	92. 4 93. 6 93. 9 93. 2 92. 4 90. 7 91. 2 91. 9 91. 7 90. 1 89. 0 87. 9	88. 9 90. 1 90. 6 89. 9 88. 7 87. 8 85. 7 85. 1 84. 4 82. 8 81. 8 80. 9	88. 7 90. 1 90. 3 89. 6 88. 4 87. 5 85. 4 85. 0 84. 7 84. 0 82. 3 81. 4 80. 7 82. 7	95. 2 96. 9 96. 6 95. 1 93. 6 93. 1 91. 0 92. 9 94. 5 94. 5 92. 9 93. 8	97. 6 98. 5 98. 3 97. 5 96. 5 96. 3 94. 8 95. 6 97. 0 97. 2 96. 1 95. 1	92. 2 94. 7 94. 5 92. 9 88. 9 86. 2 88. 2 90. 5 91. 4 90. 3 89. 9 92. 3	92. 9 91. 8 91. 2 91. 6 91. 8 91. 2 92. 4 91. 2 88. 5 84. 7	79. 8 79. 2 78. 0 78. 5 78. 9 78. 2 76. 1 75. 5 73. 4 70. 5 70. 4	104. 2 117. 3 122. 4 123. 7 117. 2 109. 9 114. 3 111. 0 109. 9 100. 7 105. 0 114. 0	108. 8 109. 0 109. 0 108. 1 107. 3 106. 9 106. 3 106. 8 109. 7 110. 1 108. 6	85. 1 84. 9 84. 1 83. 7 87. 6 86. 7 85. 8 88. 7 89. 2 87. 7 83. 8 84. 8	88. 5 88. 9 88. 6 84. 2 82. 6 82. 2 85. 3 88. 5 86. 5 81. 5 79. 8 83. 2 84. 6	109. 6 110. 1 115. 9 121. 5 124. 0 124. 2 119. 5 120. 2 119. 3 116. 2 114. 7 109. 6 101. 6	73. 5 79. 0 78. 9 77. 3 78. 2 80. 3 80. 3 80. 3 84. 6 85. 3 84. 6 80. 3 85. 3	77. 6 77. 8 78. 2 78. 1 75. 3 75. 9 75. 0 76. 9 77. 8 78. 5 77. 2
Pay rolls: 1927—January February March April May June July August September October November December 1928—January February	105. 1 101. 0 101. 8 97. 7	94. 1 99. 1 100. 7 99. 5 96. 8 95. 2 87. 4 90. 4 87. 9 88. 9 86. 0 87. 6 84. 8 92. 1	93. 8 98. 7 100. 1 96. 2 94. 7 86. 7 88. 2 87. 3 88. 2 85. 2 86. 1 91. 2	105. 3 111. 0 110. 8 105. 1 103. 3 102. 8 99. 1 102. 8 104. 8 106. 9 101. 6 103. 6 103. 5	107. 6 111. 7 111. 3 108. 1 107. 6 107. 0 102. 8 105. 8 107. 3 108. 9 104. 5 106. 1 100. 3 102. 4	102. 6 110. 3 110. 3 101. 4 98. 1 97. 6 94. 6 98. 9 101. 9 104. 3 98. 1 100. 0 104. 8	101. 6 103. 4 104. 6 103. 2 105. 3 104. 8 101. 1 105. 8 107. 3 109. 1 106. 3 102. 5 91. 2	84. 6 89. 3 87. 0 88. 8 87. 9 83. 0 85. 4 81. 3 83. 6 82. 2 80. 2 75. 1 78. 2	94. 0 140. 2 153. 4 157. 7 158. 7 131. 4 125. 2 136. 3 128. 7 133. 6 117. 6 127. 8 127. 2 160. 0	150. 3 150. 8 152. 2 150. 7 150. 3 148. 2 145. 4 147. 2 151. 0 149. 0 149. 0 148. 8 147. 5	99. 3 99. 3 99. 1 98. 0 100. 7 104. 6 103. 1 101. 7 104. 4 104. 8 103. 0 102. 2 99. 0 100. 8	90. 0 95. 6 93. 2 87. 0 84. 4 85. 1 90. 2 97. 5 95. 2 88. 5 76. 8 77. 8 83. 5	129. 5 136. 8 144. 9 151. 6 157. 6 154. 5 143. 7 145. 0 140. 8 133. 6 132. 1 123. 8	76. 2 79. 2 80. 9 77. 9 83. 6 86. 7 85. 7 90. 5 91. 3 90. 5 87. 0 78. 1 78. 1	107. 0 108. 9 111. 7 109. 9 107. 0 109. 1 103. 6 105. 2 105. 7 110. 0 109. 7 112. 4 106. 2 109. 3

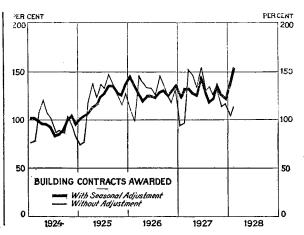
Note.—This table contains for certain months general index numbers of employment and pay rolls, together with group indexes for important industrial components. The general index is a weighted average of relatives for 34 individual industries. The method of construction was described in detail and indexes for the above groups since January, 1919, were published in the Bulletin for May, 1925. See also p. 668 of Bulletin for September, 1925, for certain revisions.

BUILDING

BUILDING CONTRACTS AWARDED

[Index numbers based on value of contracts. Monthly average, 1923-1925=100]

Month	W	ithout adjus	season tment	nal	With seasonal adjustment					
	1925	1926	1927	1928	1925	1926	1927	1928		
January	75	111	94	104	101	146	123	137		
February	76	99	96	113	104	136	131	15		
March	120	146	151	144	107	128	131	124		
April	138	139	147		112	120	128			
May	124	134	135		115	125	126			
June	137	133	154		125	125	144			
July	133	126	130		128	124	128			
August	149	146	135		135	129	119			
September	138	137	127		135	130	121			
October	129	126	137		129	126	137			
November	116	119	114		127	130	125			
December	129	131	116		138	136	121			



BUILDING CONTRACTS AWARDED, BY FEDERAL RESERVE DISTRICTS

[Value of contracts in thousands of dollars]

						Federal R	eserve Di	strict				
Month	Total	Boston	New York 1	Phila- delphia ¹	Cleve- land ¹	Rich- mond	Atlanta	Chicago 1	St. Louis	Minne- apolis ¹	Kansas City	Dallas
1927 February	393, 583 620, 738 604, 391 552, 349 632, 478 534, 390 552, 488 521, 611 562, 816 466, 393 477, 364	20, 298 42, 807 40, 649 39, 023 33, 569 29, 658 37, 461 32, 863 27, 486 40, 070 29, 407	105, 709 156, 074 165, 459 141, 469 177, 235 158, 435 144, 049 107, 448 169, 299 132, 481 130, 346	28, 269 60, 141 52, 652 37, 724 54, 644 33, 982 53, 519 40, 174 34, 211 30, 138 28, 634	50, 808 56, 741 77, 350 70, 938 64, 011 57, 465 62, 447 65, 235 49, 315 39, 136 35, 275	24, 944 34, 694 31, 192 39, 736 35, 502 34, 241 31, 813 57, 464 29, 553 24, 811 37, 285	31, 928 45, 921 31, 004 31, 100 31, 188 28, 093 28, 176 30, 917 26, 023 39, 151 24, 816	70, 905 124, 235 114, 013 105, 089 140, 608 107, 480 109, 646 106, 296 141, 523 84, 182 126, 841	25, 697 42, 704 34, 888 31, 344 44, 171 32, 205 34, 134 32, 573 41, 405 27, 793 33, 352	4, 342 13, 298 12, 001 11, 136 11, 712 13, 111 12, 371 8, 038 9, 305 7, 138 4, 473	16, 173 16, 342 22, 644 21, 528 17, 598 17, 203 19, 061 22, 253 19, 317 16, 516 12, 316	14, 510 27, 781 22, 533 23, 262 22, 240 22, 517 19, 811 18, 356 15, 379 24, 977
1928 January February	427, 169 465, 33 1	33, 410 21, 826	133, 271 140, 227	35, 765 34, 980	26, 40 3 37, 841	27, 607 22, 301	27, 696 23, 376	77, 806 108, 789	29, 187 35, 294	4, 428 3, 968	13, 318 13, 793	18, 27 22, 93

BUILDING CONTRACTS AWARDED, BY TYPES OF BUILDING

[Value of contracts in thousands of dollars]

BUILDING PERMITS ISSUED, BY FEDERAL RESERVE DISTRICTS

[Value of permits in thousands of dollars]

	Desi	Indus-	G	Public works	T3 due	4.33	[Value of pe	rmits in th	ousands o	f dollars]	
Month	Resi- dential	trial	Com- mercial	and public utilities	Educa- tional	All other	Federal reserve district	Number of cities	Febru- ary, 1928	January, 1928	Febru- ary, 1927
1927 February March April May June July August September October November December	163, 088 250, 078 267, 417 219, 980 239, 814 186, 935 209, 456 202, 877 243, 562 214, 963 207, 281	41, 247 48, 077 44, 602 44, 889 33, 879 30, 303 41, 039 48, 546 50, 712 52, 890 29, 989	67, 896 113, 766 80, 754 72, 541 88, 122 83, 010 76, 915 59, 617 79, 720 43, 521 86, 933	52, 180 106, 827 116, 264 111, 368 151, 399 143, 916 119, 741 126, 230 108, 210 76, 089 92, 657	22, 046 36, 522 35, 678 34, 545 42, 122 36, 434 41, 035 29, 244 30, 170 31, 741 23, 248	47, 126 65, 468 59, 676 69, 026 77, 142 53, 792 64, 302 55, 097 50, 442 47, 189 37, 256	United States Boston New York Philadelphis Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City	22 14 12 15 15 19 5	271, 771 7, 347 137, 509 13, 742 14, 643 10, 318 7, 368 37, 226 6, 223 2, 028 6, 502	207, 760 5, 553 83, 846 8, 783 9, 685 14, 014 7, 810 38, 151 5, 385 2, 056 4, 663	244, 696 \$7, 171 94, 603 11, 249 11, 731 10, 004 9, 808 57, 291 7, 435 1, 476 5, 272
January February	193, 189 238, 985	37, 970 57, 695	68, 852 34, 881	72, 039 59, 980	23, 369 18, 651	31, 750 55, 139	Dallas San Francisco	9 20	5, 981 22, 884	6, 856 20, 958	5, 272 5, 778 22, 878

¹ Figures for these districts have been revised. Information for earlier years will be furnished upon request.

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 from 1910 to date given in the BULLETIN for August, 1927, p. 563.

COMMODITY MOVEMENTS

FREIGHT-CAR LOADINGS, BY LINES

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

Month .	Total	Grain and grain prod- uets	Live- stock	Coal	Forest prod- ucts	Mer- chan- dise l. c. l. and miscel- lane- ous
1927—January	105	96	88	114	94	108
February	109	102	87	121	95	109
March	109	98	92	122	91	110
April	108	97	92	107	90	110
May	107	100	95	103	93	108
June	104	105	93	96	91	108
July	101	97	89	89	94	107
August	104	98	91	102	95	109
September	104	108	87	102	95	108
October	101	106	94	94	93	106
November	96	94	87	91	87	102
December	94	94	82	93	82	99
1928-January	100	102	91	94	90	106
February	102	108	101	96	93	106

For description and early figures see p. 562 of August Bulletin.

AGRICULTURAL MOVEMENTS

[Index numbers, without seasonal adjustment. 1919-100]

Month	Total	Live- stock	Ani- mal prod- ucts	Grains	Cot- ton	Vege- tables	Fruits	To- bacco
1927—January	115	99	86	86	152	118	99	404
February	104	81	95	84	118	113	97	383
March	103	91	118	71	117	146	100	212
April	85	82	137	50	74	146	128	31
May	94	95	161	63	58	140	174	8
June	94	91	169	84	32	162	127	i
July	'95	79	149	135	13	133	140	
August	123	93	129	195	80	119	142	50
September	165	87	102	207	205	233	267	255
October	185	111	95	182	284	266	357	323
November	149	105	110	119	244	145	154	328
December	121	95	116	108	155	96	88	317
1928—January	112	110	101	108	87	133	72	4 2 5
February	97	103	102	107	59	140	69	179
]		}	l		1	ļ	

For description and early figures see Bulletin for March, 1924, and for certain revisions see p. 739 of the Bulletin for October, 1925.

WHOLESALE TRADE

INDEX OF WHOLESALE DISTRIBUTION—NINE LINES OF TRADE

[1923-1925 average=100]

35 13	Sales with seasonal adjustment						Sales without seasonal adjustment					
Month	1923	1924	1925	1926	1927	1928	1923	1924	1925	1926	1927	1928
anuary	102	103	102	102	94	95	93	94	93	94	87	
ebruary	100	102	101	101	95	97	96	98	97	97	91	-
March	104	94	100	100	95		114	102	109	107	103	
April	100	99	100	97	93		97	96	98	94	90	
Лау	103	95	99	99	95		94	87	90	91	87	
une	102	91 93	100	99	93		92	82	91	91	87	
uly	101	93	102	97	95		92	86	94	91	88	
ugust	103	95	101	97	100		115	105	113	107	111	
eptember	99	101	100	100	96		115	118	117	117	112	
ctober	103	99	105	94	91		123	118	124	111	106	
lovember	100	99	100	98	95		100	97	99	97	93	
December	95	101	. 98	95	93		82	88	89	84	82	

SALES IN INDIVIDUAL LINES OF TRADE

			W	ith seas	sonal ad	justme	at			Without seasonal adjustment								
Month	Gro- ceries	Meats	Dry goods	Men's cloth- ing	Wom- en's cloth- ing	Boots and shoes	Hard- ware	Drugs	Fur- niture	Gro- ceries	Meats	Dry goods	Men's cloth- ing	Wom- en's cloth- ing	Boots and shoes	Hard- ware	Drugs	Fur- niture
1927 January February March April May June July August September October November December	96	113 112 108 111 109 104 102 109 109 109 105 109	83 87 90 86 87 88 102 91 86 89	84 97 101 87 87 90 90 101 92 81 86 93	77 75 67 68 69 65 79 72 66 54 67	112 110 97 94 110 90 134 111 104 91 105	92 93 98 94 91 92 97 99 94 100	104 103 106 106 104 106 105 112 114 111 112	100 96 96 95 93 100 104 106 104 96 99	86 81 94 90 95 101 92 97 102 102 100 90	113 107 104 104 109 106 104 111 117 122 101 103	79 88 95 76 76 78 81 125 113 99 88 70	65 123 138 85 52 46 78 165 140 101 61 48	71 95 108 64 39 28 43 98 95 87 45 39	92 87 111 100 111 85 107 122 127 114 110 82	82 82 102 96 93 96 90 98 106 105 98	102 95 117 108 98 99 100 110 122 128 113	88 96 109 96 88 85 109 118 114 104 85
1928 January February	93 98	106 114	89 88	101 101	70 70	114 109	92 93	108 109	91 89	85 85	106 108	85 89	76 128	65 88	94 87	82 82	106 101	80 89

Note.—The basic data used and the methods of construction of the index of wholesale distribution were described and monthly indexes from January, 1919, to October, 1927, were published in the Bulletin for December, 1927, pp. 817-828.

RETAIL TRADE

DEPARTMENT STORE SALES AND STOCKS, BY FEDERAL RESERVE DISTRICTS

[Index numbers.1 Monthly average 1923-1925=100]

		Federal Reserve District											
Month	United States	Bos- ton	New York	Phila- delphia	Cleve- land	Rich- mond	At- lanta	Chi- cago	St. Louis	Minne- apolis	Kansas City ³	Dal- las	San Fran- cisco
Sales (unadjusted): 1927—January February December 1928—January February	83 186	103 78 182 98 78	96 85 201 94 88	80 78 174 74 71	85 82 176 85 85	84 78 195 81 82	85 88 191 85 91	84 90 185 85 89	79 83 177 82 85	81 76 155 76 75	80 76 165 79 77	87 86 189 89 88	96 85 195 98 92
Sales (adjusted): 1927—January	106 111	113 104 107 108 100	111 109 115 108 109	96 97 102 88 85	105 104 108 104 103	106 104 108 103 105	107 109 114 107 108	105 114 115 112 115	100 103 106 104 101	98 103 101 90 96		105 108 115 106 105	112 111 117 114 115
Stocks (unadjusted): 1927—January February December 1928—January February	92 97 96 91 97	91 95 101 93 97	98 97 99 96 97	91 95 95 88 91	87 96 93 90 94	91 97 97 89 96	90 100 90 92 101	92 97 93 92 99	90 95 93 84 93	81 87 80 80 88	97 109 102 98 111	77 85 74 75 83	97 102 100 98 105
Stocks (adjusted): 1927—January February December 1928—January February	103 102 102 103 102	101 101 103 102 103	106 105 103 104 104	99 100 99 96 96	103 101 101 106 99	104 102 103 102 101	97 102 101 101 103	104 102 100 103 104	103 101 102 97 99	91 90 89 90 91		89 88 85 86 86	105 106 109 106 109

¹ For description of department store indexes given in this table see BULLETIN for February, 1928.

SALES OF MAIL-ORDER HOUSES AND CHAIN STORES

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

		Sales without seasonal adjustment					Sales with seasonal adjustment									
	Mailorder houses (4)				Chains											
		Gro- cery (34)	5-and- 10-cent (14)	Ap- parel (5)	Drug (13)	Cigar (5)	Shoe (4)	Candy (7)	order	Gro- cery (34)	5-and- 10-cent (14)	Ap- parel (5)	Drug (13)	Cigar (5)	Shoe (4)	Candy (7)
1926-December 1927-January February March December 1928-January February	155 103 101 125 167 105 108	167 155 148 174 202 188 194	258 96 104 116 279 104 115	263 100 114 148 350 121 137	169 134 129 143 182 146 148	159 97 99 111 156 90 96	163 82 84 96 178 87 86	161 95 103 115 164 100 106	118 111 112 117 128 113 116	154 157 155 163 186 191 195	133 130 133 128 147 140 142	162 163 173 175 215 197 201	137 140 139 139 148 153 153	114 113 115 113 111 105 107	119 111 121 104 130 117 120	113 120 121 116 115 126 120

Note.—For description of indexes given in this table and of the data upon which they are based, see pp. 232-235 of this Bulletin. Monthly indexes from 1919 to 1927 are given on pp. 234-235.

¹ Monthly average in 1925=100.

BANK SUSPENSIONS AND COMMERCIAL FAILURES

BANK SUSPENSIONS, BY CLASS OF BANK

[Amounts in thousands of dollars]

	All	banks		mber inks		nember nks
	Num- ber	Total de- posits	Num- ber	Total de- posits	Num- ber	Total de- posits
1926						
JanuaryFebruary	65 52	13, 384 11, 763	11 10	3, 992 2, 861	54 42	9, 392 8, 902
March April May	51 56 68	10, 249 12, 512 16, 324	6 6 10	710 3, 534 4, 234	45 50 58	9, 539 8, 978 12, 090
JuneJuly	77 140	34, 229 48, 618	16 5	5, 318 1, 637	61 135	28, 911 46, 981
August September October	52 37 88	10, 001 12, 050 18, 209	9 8 19	2, 127 4, 317 6, 280	43 29 69	7, 874 7, 733 11, 929
November December	154 116	45, 983 39, 166	33 27	19, 389 14, 413	121 89	26, 594 24, 753
Total	956	272, 488	160	68, 812	796	203, 676
1927						
January February	133 81	32, 038 25, 157	27 16	11, 555 8, 744	106 65	20, 483 16, 413
March	75	31, 222	16	7, 700	59	23, 522
April	49	11,750	ĩŏ	5, 462	39	6, 288
May	47	13, 198	11	6, 434	36	6,764
June		10, 784	9	5, 521	32	5, 263
July	37 27	12, 162 17, 364	2 5	2, 638 8, 881	35	9, 524 8, 483
August	36	8, 988	6	1, 257	30	7, 731
October	44	11, 542	9	3, 729	35	7, 813
November	43	11, 210	6	3, 105	37	8, 105
December	49	8,476	7	1, 310	42	7, 166
Total	662	193, 891	124	66, 336	538	127, 555
_ 1928						
January February	53 50	12, 535 20, 669	8 11	3,456 10,082	45 39	9, 079 10, 587
Total, 2 months	103	33, 204	19	13, 538	84	19, 666

BANK SUSPENSIONS 1 IN FEBRUARY, 1928, BY DISTRICTS

[Amounts in thousands of dollars]

	All	banks		mber nks ²	Nonmember banks		
Federal reserve district	Num- ber	Total de- posits 3	Num- ber	Total de- posits 3	Num- ber	Total de- posits 3	
Boston							
New York							
Philadelphia							
Cleveland							
Richmond	3	530	i	304	2	226	
Atlanta		9, 623	2	5, 558	4	4, 065	
Chicago		1, 753	4	996	6	757	
St. Louis	7	1, 279	l		7	1, 279	
Minneapolis		768			1 7	768	
Kansas City		1, 931	1	292	10	1,639	
Dallas	2	1,616			2	1,616	
San Francisco	4	3, 169	3	2, 932	1	237	
Total	450	20, 669	11	10, 082	39	10, 587	

COMMERCIAL FAILURES, BY CLASS OF ENTERPRISE 1

[Amounts in thousands of dollars]

		Nur	nber			Liab	ilities	
	Total	Manu- factur- ing	Trad- ing	Agents, brokers- etc.	Total	Manu- factur- ing	Trad- ing	Agents, brokers, etc.
1926								
January	2, 296	510	1,696	90	43,651	16,094	21,502	6,055
February _	1,801	447	1, 282	72	34, 176	10, 822	20, 317	
March	1, 984	469		91	30, 623	9,862		2, 138
April	1, 957	494		85	38, 487	16, 734	19,094	2, 659
May	1,730	437	1, 216	77	33, 543	16, 157	15, 710	1, 676
June	1,708	435	1, 160			10,092		
July	1,605	396			29,680			
August	1, 593			73		12, 516		
September	1, 437	374						
October	1, 763	450				11,650		
November	1,830	440				16,097		2, 439
December.	2,069	494	1,471		45, 620	16, 759		
Total	21, 773	5 205	15, 268	1 710	400 922	158, 044	201 225	
1 Otal	41, 713	3, 393	10, 200	1, 110	409, 200	100, 044	201, 550	49, 004
1927								
January	2,465	501	1,842	122	51, 290	19, 996	24, 530	6, 764
February.	2, 035	411	1,508		46, 941	10, 518	23, 406	
March	2, 143	569	1,468			22, 368	28, 191	7, 332
April	1,968	492	1, 342			25, 278	22, 308	
May	1,852	444	1, 292			13, 802	19, 978	
June	1, 833	427	1, 310			13, 587	17, 856	
July	1,756	448	1, 187			16, 743		9, 575
August	1,708	438						9, 573
September	1, 573	389				15, 349		5, 385
October	1, 787	488					14, 657	4, 445
November	1,864	478				12, 786		
December.			1, 430			29, 024	16, 733	
Total	23, 146		16, 082	1 389	520, 105	211, 506	228, 194	
10001	20, 110	0,002	10, 002	1,001		211, 000	220, 101	
1928		li				1		
January	2,643	553	1,946	144	47,634	14.870	26, 446	6, 318
February _	2, 176					12, 751		
Total, 2								
mos	4, 819	1,021	3, 527	271	92, 705	27, 621	51, 398	13, 686
11100	1,010	1,021	0, 021	""	32, .00	2., 021	01,000	10,000

COMMERCIAL FAILURES, BY DISTRICTS 1

[Amounts in thousands of dollars]

	:	Number		Liabilities				
Federal reserve district	Feb., 1928	Jan., 1928	Feb., 1927	Feb., 1928	Jan., 1928	Feb., 1927		
Boston	238	272	210	3, 950	4, 909	3, 41		
New York	369	587	276	9, 285	14, 371	9, 72		
Philadelphia	99	103	68	2, 297	1, 436	8, 27		
Cleveland	186	269	162	4, 728	5, 995	3, 49		
Richmond	158	197	156	4, 304	3, 193	4, 24		
Atlanta	294	137	191	7, 254	1. 204	1, 68		
Chicago	128	384	260	2, 205	5, 629	3, 73		
St. Louis	105	148	127	1,853	3, 859	2,00		
Minneapolis	72	94	77	384	553	1, 11		
Kansas City	144	131	143	2, 284	1,606	2, 13		
Dallas	47	104	103	1,637	1,768	2,02		
San Francisco	336	217	262	4, 890	3, 111	5, 08		
Total	2, 176	2, 643	2, 035	45, 071	47, 634	46, 94		

¹ Figures furnished by R. G. Dun & Co.

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

2 Comprise 7 national banks with deposits of \$3,809,000 and 4 State member banks with deposits of \$6,273,000.

3 Figures represent deposits for the latest available date prior to the suspensions and are subject to revision when information for the dates of suspension becomes available.

4 Includes 3 banks for which deposit figures are not available.

FOREIGN BANKING AND BUSINESS CONDITIONS

GOLD HOLDINGS OF PRINCIPAL COUNTRIES AT THE END OF 1927

A table is presented herewith showing for the end of 1927, with comparative figures back to 1913, gold holdings of all the countries for which satisfactory figures are available. The figures represent actual gold officially reported as held by central banks and public treasuries, whether held at home or held abroad. They do not include gold technically known as "in circulation," that is, gold held by commercial banks, business concerns, and private individuals; no items are included, furthermore, that are understood to represent, to any extent whatever, holdings of any foreign assets other than ear-marked gold. The exclusion of gold in circulation is unavoidable for the reason that satisfactory figures for such gold are not available for any country.1

Reported gold holdings of the 40 countries included in the table amounted at the end of 1927 to about \$9,200,000,000, of which the United States Treasury and Federal reserve banks held about 43 per cent. Holdings of the United States Treasury and Federal reserve banks decreased during the year by \$106,000,000, and reported holdings of foreign countries increased by \$161,000,000. Changes during 1927 in the holdings of central banks and governments, as indicated by the reported figures,2 are shown in the table in the adjoining

Holdings of commercial banks.—At the end of 1927 the gold held by national banks in the

¹ The table includes, for the United States as well as for foreign countries, all metallic gold in central holdings and excludes all classes of paper money (e. g., gold certificates). See BULLETIN for April, 1927, p. 276.
² Changes occurred also in holdings not separately reported by individual countries; see Review of the Month, p. 230.

United States amounted to \$17,000,000; by Canadian banks, about \$75,000,000; by the commercial banks of Australia (September 30, 1927), \$125,000,000 (including a small amount of silver); and by Argentine banks, \$79,000,000 (of which \$68,000,000 was held by the Banco de la Nacion, or \$54,000,000 more than at the end of 1926).

CHANGES IN GOLD HOLDINGS OF CENTRAL BANKS AND GOVERNMENTS

[In millions of dollars]

Country		ngs at f year	Changes during	
•	1926	1927	1927	
Countries in which holdings decreased: United States. Japan Java. Denmark. Canada. Netherlands. 6 other countries showing decrease.	4, 083 562 79 56 158 166 887	3, 977 542 72 49 152 161 879	106 20 7 7 6 5	
Total decreases			159	
Countries in which holdings increased: Brazil Poland Argentina Italy Belgium Russia India Switzerland Spain Germany England Austria 28 other countries showing increase	27 436 221 86 85 109 91 493 436 735	101 58 461 239 100 97 119 100 502 444 742 12 396	45 31 25 18 14 12 10 9 9 8 7 5	
Total increases			214	

GOLD HOLDINGS OF CENTRAL BANKS AND GOVERNMENTS 1913-1927

[In thousands of dollars, converted at par of exchange]

						[[]	uousanus	Of GOIL			11 OI 0.101	1411201					
									1	European	countrie	es (centra	al banks)				
End of yo			otal 1	Sta	nited ates 2	Total 1	land	Franc	Ger- many	Italy	Austria	Austria Hun- gary	Bel- gium	Bul- garia	Czech- oslovak- ia 4	Den- mark	Estonia
1913 1914 1915 1916 1917 1918 1919 1920 1921 1921 1922 1923 1924 1925 1926 1927		4, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	771, 492 283, 565 219, 282 486, 818 078, 160 756, 725 664, 068 117, 049 930, 981 570, 026 908, 153 870, 026 148, 432 203, 597	1, 2 1, 7 2, 1 2, 5 2, 6 2, 5 4, 2 3, 5 3, 8 4, 0 3, 9 4, 0 3, 9	90, 420 06, 487 06, 922 93, 531 20, 155, 55, 898 24, 679 34, 168 21, 215 05, 551 33, 735 90, 067 85, 399 83, 380 77, 181	2, 830, 90 3, 484, 00 3, 803, 85 3, 503, 25 3, 572, 22 3, 081, 34 2, 890, 70 3, 033, 98 3, 032, 94 3, 043, 40 2, 993, 88 3, 183, 55 3, 363, 14 3, 472, 60	0 170, 24 428, 22 8 389, 20 44 402, 97 95, 5 523, 63 31 583, 21 762, 91 10 751, 59 754, 40 17 757, 03 12 703, 48 11 735, 42 736, 92 17 741, 69	9 690, 1 7 708, 4 0 709, 4 3 710, 3 2 710, 9	599, 83 572, 76 17 538, 86 47 259, 51 17 260, 02 41 237, 16 327, 43 79 111, 24 94 180, 93 68 287, 76 06 436, 23	3 218, 82 5 220, 73	5l 2.08	251, 42 213, 75 138, 75 58, 75 53, 71 53, 07 45, 01 51 51 51 51 51 51 51 51 51 51 51 51 51	70 56, 61 50, 75 99 50, 75 74 57, 14 1 51, 41 1 51, 43 6 51, 45 9 51, 90 52, 20 52, 85 86, 21	99 10, 615 99 11, 773 99 13, 124 12, 159 55 12, 352 77 7, 141 77, 415 77, 792 80 7, 792 81 7, 792 82 7, 792 83 7, 792 84 8, 464	4, 053 12, 545 20, 874 22, 574 31, 745 30, 575	29, 833 42, 847 46, 611 52, 159 60, 807 60, 992 61, 192 61, 173 56, 171 56, 145	1, 384 1, 279 1, 312
F-1.6							E	uropean	countrie	s (central	banks)-	-Continu	ied			-	
End of ye	1		and Gre	ece1	Hun gary	Latvi	a Lithu- ania	Nethe	r- Nor- way	Poland	Por- tugal	Ru- mania	Russia	Spain	Swe- den	Switz- erland	Yugo- slavia 6
1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927		6,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8	229 10 371 5 242 7 354 7 357 7 250 8	, 825 , 527 , 194 , 580 , 159 , 769 , 769 , 769 , 944 , 180 , 527 , 833 , 729 , 890	7, 4 10, 3 29, 5	2, 1 2, 5 3, 2 60 4, 5 65 4, 5	23 1, 64 55 3, 08 55 3, 23 55 3, 13	243, 6 243, 8 0 233, 8 0 202, 8 0 178, 0 6 166, 2	32, 03 39, 59 29 39, 47 00 39, 47 80 39, 47 76 39, 45 54 39, 45 31 39, 45	5, 956 4 9, 769 2 13, 078 7 19, 949 6 25, 793 7 26, 67	9, 26, 26, 26, 26, 26, 26, 26, 26, 26, 26	1 36, 26 1 22 3 20 6 32 7 7, 58 7 24, 56 7 26, 02 7 26, 73 7 27, 78	4 803, 40 4 831, 20 758, 39 667, 04 (7) (7) (7) (7) (7) (7) (7) (7)	0 110, 444 166, 414 6 241, 424 1 379, 597 430, 072 474, 228 484, 984 7 487, 278 3 487, 841 0 489, 292	29, 088 33, 385 49, 183 65, 513 76, 532 75, 350 73, 428 72, 853 63, 508 61, 647	66, 585 69, 025 80, 041 99, 779 104, 780 106, 058 103, 283 103, 669 97, 642 90, 140 91, 050	12, 381 12, 321 12, 310 12, 306 12, 233 12, 352 14, 282 12, 354 13, 286 13, 965 14, 657 16, 620
									Othe	r countri	es						·
End of year	Tot	al	Can- ada: Minis- ter of Fi- nance	Go	rgen- tine overn- nent onver- sion und	Bank of Brazil 9	tral Bank of Chile 10	Columbia: Bank of the Republic	Reserve Bank of Peru	public	eserves		India: Gov- ern- ment rupee	Domestic holdings of the Bank of Japan and of the Govern- ment	Bank of Java	Na- tional Bank of Egypt	South Africa: Reserve Bank
1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927	650 1 593 708 790 985 1, 019 1, 248 1, 648 1, 676 1, 741 1, 742 11, 734 11, 754 11, 751 11, 753	, 172 , 039 , 522 , 053 , 745 , 482 , 686 , 899 , 825 , 962 , 406 , 189 , 739 , 901 , 811	115, 89 98, 81 126, 32 131, 09 139, 45 129, 43 129, 32 112, 64 94, 63 146, 43 126, 88 151, 20 156, 58 158, 10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	224, 989 213, 906 228, 939 251, 158 252, 390 269, 628 299, 119 150, 057 150, 057 150, 057 154, 035 335, 880 335, 880 460, 771	14, 598 14, 598 14, 598 15, 571 15, 571 19, 464 25, 303 27, 401 48, 665 53, 799 54, 300 56, 325	34, 025	1, 849 6, 910 14, 599 16, 495 19, 962	19, 646 20, 736 19, 753 19, 164 20, 084 19, 437	10, 826 13, 483 22, 530 33, 251 42, 003 46, 718 56, 756 57, 307 56, 812 56, 812 56, 811 56, 811 56, 819 56, 819 56, 819	21, 899 38, 932 73, 484 78, 351 85, 650 104, 143 116, 796 115, 336 116, 499 121, 088 121, 200 127, 838 106, 975 105, 121	25, 306 27, 739 33, 092 36, 012 39, 419 38, 932 37, 472 38, 367 38, 294 37, 581 37, 667 1 38, 007 38, 280	72, 780 30, 202 41, 361 38, 636 86, 712 63, 842 96, 205 116, 249 118, 341 118, 341 108, 609 108, 609 108, 609	64, 963 64, 062 68, 187 113, 411 229, 981 225, 821 349, 947 551, 840 610, 663 605, 678 600, 194 585, 738 575, 768 561, 810 541, 739	10, 027 12, 418 18, 804 28, 984 37, 051 51, 600 69, 817 88, 214 35, 728 61, 306 61, 62, 869 62, 869 63, 726 63, 726 64, 77, 640	29, 164 19, 278 16, 312 16, 312 16, 807 16, 619 16, 510 16, 510 16, 510	34, 966 30, 172 33, 579 35, 525 50, 612 57, 911 50, 782 51, 838 52, 441 43, 594 36, 703

¹ Revised figures.
2 Treasury and Federal reserve banks; revised figures.
3 Gold held by Bank of England in both issue and banking departments; the latter (\$4,576,525 in 1927) includes some silver. Figures include currency note reserve, which prior to 1925 was held by exchequer.
4 Prior to 1926, Banking Office of Minister of Finance.
5 Austrian account only.
6 Prior to 1920, National Bank of Serbia.
7 Figures not available.
8 Includes government reserve against Dominion notes, savings banks account, and such gold as is held in deposit by chartered banks in the Central Reserve.

• Prior to 1923, guarantee of currency fund.
10 Prior to 1926, Government conversion fund.
11 Includes gold in gold standard reserve (\$10,473,000).

ANNUAL REPORT OF THE BANK OF BELGIUM FOR 1927

The annual report of the National Bank of the Belgium for 1927, presented to the meeting of shareholders on February 27, 1928, contains the following account of economic conditions in Belgium and of the operations of the bank:

The important financial events, which were the subject of our preceding report, have acquired sufficient perspective to make possible to-day an appraisal of the influences which they have exerted on the situation of

the country.

Stabilization and currency reform.—Currency stabilization, made effective on October 25, 1926, has been working out its effects during the past 14 months without causing any crisis in the national economy. belga has been remarkably stable, and at no time has the ease of the money market been disturbed. Abundance of short-time funds has been evidenced by the moderate rates charged for discounts in the open market and for day-to-day loans.

The ratio of total reserves to aggregate demand liabilities of the bank was constantly above 50 per cent, rising gradually throughout the year to 55 per cent, the proportion shown on the last balance sheet for 1927. The bank has not found any occasion to use its foreign exchange reserve, the creation of which was considered advisable at the time of stabilization. On the contrary, the influx of foreign exchange following upon stabilization has made these holdings still larger.

The methods adopted for monetary reform were intended so far as possible to prevent a too rapid adjustment of domestic prices to prices abroad, such as might have caused a serious crisis. No disturbance of this kind was experienced. The index of wholesale prices, reflecting changes in the great international markets for raw materials, declined from, 865 in November, 1926, to 841 in December, 1927, a fall of 24 points. On the other hand, the index of retail prices recorded a moderate advance—from 730 on November 15, 1926, to 812 on December 15, 1927. Converted to a gold basis, this index rose during the period under review from 105 to 117½, an increase of 11.9 per cent. The country was the better able to support this increase for the reason that it was very gradually effected.

If, on the whole, short-term credit has been

true that the capital market has absorbed the issues of shares floated by well-established or by new enterprises. On the other hand, the high rate charged has had a restrictive effect upon bond issues and mortgage loans. This condition of affairs has also been experienced in other countries following monetary stabilization. It is only temporary and should pass as the difficulties which Belgian finances have known since the war are forgotten. It is, nevertheless, one which has during the past year weighed heavily on securities with fixed yield. May one not fairly anticipate that the reasons which led the public to reject these investment opportunities while the currency was depreciating will disappear as soon as the monetary unit, having again become firm and steady, assures to such securities a continuance of their full value?

Balance of payments.—It may be well to emphasize the fact that this country, besides having an abundance of funds available in the domestic market, is a creditor for very considerable amounts in the more important foreign markets.

The balance of payments is certainly favor-The movement of our foreign commerce, which constitutes the principal item in this balance, has been very satisfactory during the year in spite of the steady disappearance of those advantages, for the most part deceptive, which our exporters formerly derived from currency depreciation. When one remembers that in 1913 the proportion of exports to imports was 73.6 per cent according to official statistics, and that in 1927 it was in the neighborhood of 90 per cent, the success of our effort at recovery is obvious.

Industrial conditions.—Examination of the condition of our principal industries confirms this impression. On the whole, the first year following our currency stabilization has been characterized by a measure of prosperity which promises well for the future, and by great The export trades are almost all in activity. excellent condition. With respect to concerns which produce exclusively for the domestic market and for local trade, if they have experienced some difficulty, this has resulted chiefly from decrease in expenditures and revival of a spirit of economy, under the stimulus of restoration of the currency to a stable basis.

It is true that some serious problems, quite inexpensive during the past year, long-term independent of the monetary question, are credits have been less easily available. It is still to be solved. Coal mining, after the temporary advantage afforded by the English strike, suffered again from difficulties which certainly are not limited to our own country. Stocks of coal have begun once more to accumulate at the mine heads, and international competition has made itself keenly felt. Thebuilding industry also finds itself still in a difficult position. The struggle over prices, in which a number of mill and factory owners have engaged on foreign markets, is harmful to the general welfare in that it causes a considerable lowering of our export profits. Consolidation and the abandonment of old-fashioned methods in favor of a policy of cooperation would strengthen the position of our manufacturers relative to that of their foreign competitors by increasing appreciably their range of activity and the margin of their profits.

Manufacturers of matches and chocolate manufacturers have gone through a crisis owing to lack of markets. The building industry, since the completion of reconstruction in the devasted regions, has had a period of inactivity. Stone quarries have suffered from a lack of orders. In a majority of the other branches of our national industry, however, the situation is satisfactory. The steel and iron industries experienced a period of genuine prosperity. Working conditions and prospects in the zinc industry have improved. The construction of a great copper refinery, which is ready to begin operations, promises to give to Belgium, in this interesting field, the place to which, in view of the rich deposits of Katanga, she may fairly aspire. To strengthen its position and to enable it more effectively to meet foreign competition, the chemical industry has been extensively "rationalized." The glass The glass works continued during the year to enjoy a satisfactory volume of business. In this industry establishments using machinery have been very busy, although activity at old-fashioned factories for blown glass continued to decline. In all branches of our textile industry, so important for this country, conditions are favorable. Artificial cement factories and brick kilns, the output of which is for the most part exported, have been in flourishing condition. Business has been excellent also for the marble works. The diamond-cutting industry in Antwerp has continued to maintain a leading position. The output of the Kongo mines has further strengthened the position which this industry holds on the international

vigorous tendency toward concentration has effected in our more important industries. This movement, facilitated by the terms of the law of July 23, 1927, has been particularly evident in the metallurgical industries, in the production of rolling stock, in bolt making, in the automobile industry, in coal mining, in electrical undertakings, in the chemical industry, and finally in the match industry.

Although unfavorable weather prevailed during the summer, agriculture has on the basis of results little reason to complain. unequaled activity, great ingenuity, and rare adaptability, our agriculturists, our kitchen gardeners, and our cattle breeders have developed their foreign markets and contributed much to the improvement of our trade balance. In this respect the business of exporting eggs furnishes a characteristic example; it has been of real benefit to the country.

As indications of satisfactory activity in business, it may be noted that unemployment has been exceedingly small and that labor troubles have been few. Salaries have gradually come into line with the new economic conditions. These changes have been made with caution. Our working class is well aware that the maintenance and development of exports are of the highest importance to them.

Increasing activity at our seaports is indicated by tonnage statistics, as shown by the following figures for the port of Antwerp:

Year	Number of vessels cleared	Tonnage
1913.	7,056	14, 147, 000
1926.	11,599	22, 793, 000
1927.	11,418	23, 490, 000

The cession by the Government to the city of Antwerp of a considerable tract of land north of the city is in line with the growth of our

shipping and guarantees its future.

Financial conditions.—The fiscal efforts of the country, which are the essential basis of financial recovery, have been nobly supported by all classes of the people. Owing to the favorable return of emergency taxes, the yield of which was allocated to the amortization fund, this fund was able to realize without change the program which had been outlined for it by the legislature. In 18 months, if we include amortization payments charged to the market.

It is with satisfaction that we have observed the very apparent development which a large capital sums to the money market. Public saving, by virtue of habits of economy so firmly implanted in the country that even currency disorders were not able to destroy them completely, increased in a very striking manner.

Average of monthly excess of deposits over withdrawals at the General Savings and Pension Office:

7, 436, 000

The bourses of Antwerp and Brussels have been very active. As might have been expected, part of the available funds accruing from repatriation of capital and redemption of treasury bonds found its way into the market for speculative securities. A readjustment of security prices was sure to follow the return to stable money; certain circumstances have even accelerated it. On the one hand, foreigners wishing to profit by the favorable level of security prices made large purchases of Belgian securities. Among our own people, on the other hand, the state of mind created by the monetary troubles of recent years has persisted since stabilization. A speculative movement developed as a result of the confusion wrought in properties by the war and its financial consequences. Certain classes of people, unfamiliar with this kind of business, were drawn into stock-market specu-

At the present time the security market has not yet become normal. Although in all countries on a stable money basis interest rates on long-term investments have declined, permitting a higher valuation of securities with fixed yield, we must admit that in Belgium, in spite of the strength of the monetary situation, government, municipal, industrial, and mortgage securities have not sufficiently regained favor with the public, which is still too ready to sacrifice safety and the certainty of a good return to the gambler's chances inherent in the pursuit of supervalues.

The importance of the market for public issues in our national economy can not be disregarded. Furthermore, the bank of issue is only performing its duty in reestablishing the savings habit on the basis of sound financial principles and wise traditions.

Having drawn for you in broad outline the picture of our economic situation during the first year following the monetary reform, we may repeat that, by restoring sound monetary conditions for our enterprises and by giving to those directing these enterprises that peace of the reforms which you have seen accomplished, stabilization of the currency has fortified the country for its economic struggle.

Policy of the bank in aid of exports.—It seems fitting at this point to explain to you what has been the policy adopted by our institution in regard to those serious questions which it is the special duty of the bank to solve.

You realize, of course, that the monetary problem is not a problem purely of technique. The capacity for expansion of our industry and commerce, the possibilities of development of our agriculture, the ability and initiative of our financial establishments determine in large measure our balance of payments, and therefore the condition of our exchanges and the ease of our money market.

Shortly after the armistice the National Bank, in its desire to encourage exports, brought about the creation of the National Society for Credits to Industry, which was organized chiefly to obtain for establishments seeking foreign markets intermediate or even long-term credits similar to those enjoyed by their foreign competitors, such credits being often a condition of success. In the beginning we gave the new institution the benefit of our experience, and the results obtained during the first years have been excellent. We are happy to say that the National Society, strengthened by the cooperation of our great institutions of credit, has no further need today of such close collaboration with us. It has been able to develop into an independent organization, and at the end of the past year it left our premises to establish itself in its own offices. Our most cordial good wishes go with it in the new course which it has undertaken. The discount department of the bank will continue business relations with the society.

It goes without saying that our various departments will in every way continue to encourage the development of our export business, which is so essential for Belgium. We are giving our utmost support at home and abroad to the Belgian banks specializing along this line.

Our foreign commerce statistics indicate the progress achieved in foreign markets since the war by our more important industries. But the smaller industries, too, and particularly those which produce luxury commodities and works of art, incorporating a great deal of handwork, can contribute materially to this progress. During recent times new and satisfactory developments in this connection, which we have taken pains to assist, have been in evidence. Hosiery, toilet articles, ready-made mind which is indispensable to business and to | clothing, lingerie, carpets, furniture, fabrics for

covering furniture, articles of morocco leather, gloves, embroidery, laces, and many other such articles are entering in larger and larger volume into our exports. This, however, is only a beginning. On the occasion of his visit to the United States the governor of the bank had occasion to call the attention of interested Americans to the great opportunities offered by these industries of which we have just spoken.

Furthermore, in cooperation with the Minister of Foreign Affairs, we have organized a mission to make a study in America of possible outlets for these industries in that immense and rich market. At our request the Chamber of Commerce at Brussels has undertaken to welcome and advise foreign agents and commercial travelers who visit Belgium for the purpose of buying stocks of commodities for their houses. Likewise, on our recommendations, closer relations have been established between chambers of commerce throughout the country and the National Department of Commerce, whose organization has been greatly extended of late and whose useful and practical activity is not yet sufficiently known; also, a consulting committee of the chambers of commerce has been appointed at the Department of Commerce by the Minister of Foreign Affairs. For our part we have compiled an interesting amount of material concerning the smaller industries not only in Belgium but in the principal countries of Europe. We expect to use this material for publication. Our staff has already prepared a pamphlet explaining concisely what every exporter ought to know about financing the operations of foreign commerce. Along the same line we have tried to reestablish at our institution those financing operations of the bank which are connected with the con-This business, which was trol of imports. much in request before the war, has completely died out in our country following the enemy occupation and the serious difficulties from which our currency suffered. Being convinced of its importance, we have granted special facilities to those banks, manufacturers, and merchants who were in a position to resume dealings of this character. Some results have been obtained, but the development will be slow and only by degrees will this type of business regain its former importance.

Credit policy of the bank.—After the monetary reform it was to be expected that there might be an enormous influx of capital on our market. This influx took place and brought about a considerable increase in the fiduciary c irculation, while the rest of the circulation was maximum circulation.

covered by a parallel increase in gold values. We have applied various suitable means to lessen the effects of this phenomenon and to restrict it within the narrowest possible limits.

By maintaining its rates at a high level for several months, the bank reduced the total of its Belgian portfolio and of its advances. These rates could be maintained for a considerable period because the abundance of capital and the great prosperity of Belgian industries enabled them to support the high When these costs began to be too heavy costs. the bank gradually reduced its discount rate to $4\frac{1}{2}$ per cent. In order, however, not to stimulate speculation, the rate on advances secured by Government funds was not re-

duced below 6 per cent.

It is true that this restrictive policy would not have been sufficient if the bank had not been able at the same time to concentrate under its management large capital sums belonging not only to the treasury but also to various official or semiofficial organizations. According to the principles of modern financial science, it is essential that available funds of public or semipublic institutions shall be deposited in the central bank, which finds its position on the money market thereby strengthened. A large part of these available funds we invested in foreign exchange bills. This permitted us at the same time to guard against an excessive growth of the fiduciary circulation and still to increase the gold reserve against our notes; the bank, in fact, does not liquidate these investments unless it is able at the same time to substitute for the foreign exchange in question other assets, and especially drafts on Belgium and loans and advances.

The building up by the treasury, working in cooperation with the bank, of a gold reserve in the ratio of 50 per cent against the liabilities of the postal check department, is also in line with the policy which we have outlined. This is a wise measure of security, which does credit to the Government. Similar arrangements have been made with regard to the small notes of 5 and 20 francs, which are in circulation for Government account under the terms of the royal decree of October 26, 1926. Following an agreement made between the Government and the bank, these small notes, which in the aggregate can not exceed 750,000,000, and which, as you know, are to be replaced by metallic currency, have a cover of 300,000,000 belgas in gold exchanges and in silver reckoned at gold value, an amount equal to 40 per cent of the

A very effective measure clearly recommended by the aims which we were following, and one to which we have not failed to call the Government's attention, would have been to start, on the day after stabilization, the redemption of treasury bonds still held by the bank. Having in mind the strength of the monetary situation, however, we have had to admit that it was necessary before everything else to pay off those holders of 5 per cent bonds who had not availed themselves of the privilege of converting their old securities into preferred shares of the National Society of Belgian Railways.

It was not until the end of the past year that a repayment of 30,000,000 francs was made to the bank. Since the 1st of January, 1928, these repayments have been continued at the rate of 20,000,000 francs each month, which will amount to almost a quarter of a billion per annum. These funds will be invested in Government obligations or in Belgian or foreign commercial securities, and the income accruing from them, added to the principal, will reduce the debt of the State still further. If, however, it should be necessary, the bank of issue will dispose of a sufficient amount to maintain the fiduciary circulation within reasonable limits and in accord with the needs of the national economy. No one is unaware how important it is to avoid any extreme rise in prices—a danger more serious perhaps for us than for others because it threatens our power of competing in the world market.

Most certainly the policy followed along this line has borne fruit. If in the period from the 22d of December, 1926, to the 22d of December, 1927, the total of our demand liabilities rose from 10,036,739,000 to 10,783,294,000 francs, this increase has been in proportion to the rise of domestic prices.

Gold policy of the bank.-While the bank sought to keep the fiduciary circulation within reasonable limits, it likewise pursued the policy of progressively building up its gold reserve. Thus we were led to conclude arrangements with the Society of Gold Mines of Kilo-Moto and with other Belgian colonial societies, which secured for us practically all the gold produced by them. However, as we were not satisfied with these supplies, we made a strong demand for gold in the world market. Since November 25, 1926, we have held the 30 per cent of gold which the law requires. The amount of our metallic reserve on that date was 3,100,923,459 francs. By December 22, 1927, the gold had risen to 3,592,155,054 francs, an increase of 491,231,595 francs. This total has increased

bank has at its disposal, especially in London and in New York, will permit it to increase the metallic part of its reserve whenever the need may arise. Under these conditions the National Bank is in a position to exchange its notes for gold. Convertibility of the Belgian fiduciary currency is thus assured.

But it is well to bear in mind that the bank is not obligated to purchase gold except within the limits of the metallic reserve prescribed by law. Otherwise, the reserve would increase enormously whether or not the monetary situation called for these additions. Experience shows that this freedom of purchase is entirely The bank of issue has not hesitated to import gold when the position of the exchanges rendered that advisable, but it is always free to choose its own time with regard to conditions on the international market.

During the past year, and especially during the second half, the far-sighted policy of the Federal reserve banks of the United States has helped in the reconstruction of gold reserves of European central banks. By refraining from expanding the volume of credit to the extent made possible by accumulation of an enormous metallic reserve, these American banks of issue have not only helped to maintain extraordinary economic stability in the United States since 1921 but have also been of great assistance in effecting_monetary recovery in Europe. Bank of England has been no less active in this

Recently certain distinguished experts have been asking whether the world is not threatened with a scarcity of gold, in the sense that it may become more and more difficult to provide for currency requirements. They believe that they have discovered in the rate of production at the mines premonitory signs of an approaching insufficiency and of a consequent general decline in prices. Other authorities do not hesitate to prophecy, on the contrary, a still greater abundance of the precious metal. This is not the place to analyze this problem. We feel less called upon to do so because, in our opinion, the banks of issue are able to meet either one or the other of the eventualities apprehended. On the one hand, experience has shown how to neutralize the effects of any actual superabundance of the yellow metal. On the other hand, if it is true that the production of gold has not recovered its pre-war level and the decline in the purchasing power of gold has a proportionally depressing effect, it would appear that central banks can bring about further notable economics in the use of since then, and the foreign exchange which the the metal, both by general application of the principles of the "gold exchange standard" and by intelligent cooperation for the best interest of all nations.

Exchange policy of the bank.—It remains to discuss the policy which we have adopted in the exchange market. This policy has been dictated by our statutes, which intrust to our institution the task of maintaining currency stability.

From this point of view, it is necessary to the public welfare that the National Bank shall exercise control over the money market in a way to prevent either excess or stringency of credit, and thus to assist in maintaining equilibrium in the country's balance of payments. But it does not by any means follow that the bank of issue shall restrain the free action of economic forces; that is what it would be doing if it were to fix the course of the exchange in any rigid fashion or manage it arbitrarily. It is, in fact, normal for exchanges to fluctuate between the gold points, and we never intervene to prevent these natural fluctuations. By following changes in the exchange rates, the country should be able to see for itself what influence its economic activity is exerting on the balance of payments; so it may be apprized in time, and often by very slight fluctuations, of mistakes which it was about to commit. The belga has been maintained constantly near, often rising above, gold par.

General policies of the bank.—On the eve of financial reforms which a number of countries are preparing, and in the presence of the extreme difficulties which still dominate the economic life of many nations, the counsels of moderation and prudence with which we closed our report last year are still pertinent. It is true that our monetary situation is firmly established to-day and secure from danger. The bank of issue holds a quantity of gold values such as it has never before possessed in the course of its history. Nevertheless, one should not forget that money is in the last analysis only an instrument. However important its part, it does not comprise the entire national economy, and its stability alone is not is more than ever to be commended.

sufficient to make a country prosperous. For years to come a vigorous policy of financial wisdom will continue to be necessary for individuals as well as for public authorities.

Belgium can live only by exporting. Private enterprises, therefore, should maintain that low cost of production which even by the admission of their competitors constitutes one of their more valuable advantages. Therefore, economy and work are equally indispensable; by aiding the development of capital and of national equipment, by maintaining within the country a cost of living below the level of other countries, we shall be able to compete on advantageous terms in the world's markets.

The war left us a heavy domestic debt and in addition a very large foreign debt. We must decrease the former and repatriate the latter. The Government is to be congratulated on having abstained from floating any loan, even for the execution of its program of public works. Furthermore, it is absolutely necessary to continue the policy of amortization which was courageously adopted at a very difficult time. In other countries well-informed people are following with sustained attention the progress, painful but beneficial, which we are making along the path of debt repayment.

Participation of the bank in Polish and Italian credits.—After having benefited now for more than a year by the international agreement in aid of our currency stablization, it was pleasant for us to be able in our turn, and in collaboration with the principal banks of issue of the world, to give our support to the monetary reforms undertaken under excellent auspices by Italy and by Poland. During the course of the past year, moreover, the heads of the central banks in neighboring countries repaid the visits of courtesy which the governor of our bank had made to them, thus strengthening the cordial relations which we have entered into with these distinguished men. The collaboration and the solidarity of the central banks thus becomes closer all the time. It is a development full of happy omens which

ANNUAL REPORT OF THE BANK OF SWITZERLAND

land for 1927, presented at the meeting of stockholders on February 10, 1928, deals as follows with the economic and financial situation of the country during the past year and with the operations of the bank:

The year 1927 was not characterized to the same degree as other recent years have been, by great events in the domain of international politics. It was, nevertheless, a year of important achievement in the long task of economic recovery throughout the world and in the establishment of peace.

Further progress in the way of strengthening the political, social, economic, and financial situation was clearly registered by that very sensitive barometer, the exchange market.

Additions to list of countries on gold basis. In the matter of monetary stabilization the year just past was marked by new successes. The economic conference at Geneva in 1922, where the gold problem formed, as it were, the pivot of the discussions, established a program for a general return to the gold standard. At that time the situation did not permit an immediate return in all countries to the complete gold standard. In fact, no country has as yet fully returned to gold, with exception of the United States, which has always maintained the convertibility of its bank notes into legal money. If in the beginning the Geneva resolutions had on the wohle only an academic value, they have since acquired a practical influence, for a series of countries have now adopted gold as the basis for their monetary systems and the list of European nations on a stable monetary basis has been further extended during the course of the year. We noted in our last report that Hungary and Denmark had reorganized their currency as from January 1, 1926 and 1927, respectively. With the assistance of credits extended not only by banks of issue under the leadership of the Bank of England and of the Federal Reserve Bank of New York—but also by private banks, two other European Governments, Poland and Italy, have stabilized their currency on the basis of a gold-exchange standard, following a plan of reorganization similar to that carried out so successfully by Belgium in 1926. In Poland stabilization was made effective on the basis in the business world is manifest. It finds

The annual report of the Bank of Switzer- 19 lire for \$1, or 0.27277 Swiss franc for 1 lira. The National Bank of Switzerland took part in both these revaluation operations. In the case of the Italian credit the participating banks made our institution fiduciary agent for administration of the exchange securities which the Bank of Italy must furnish if it makes use of the credit.

> French exchange, which in 1926 was subject to severe fluctuations, was this year as stable as the exchanges based on gold. It remains still to make legally effective this de facto stabilization which was brought about by the wise financial policy of the Government and the bank of issue.

> Outside of Europe another important country, the Argentine Republic, has reestablished convertibility of its notes on the basis of the pre-war parity of 1 paper peso equal to 0.44 gold peso, without by such procedure, in this country any more than in other countries, putting gold coins again into circulation. India, likewise, has taken action of the highest importance by adoption in March of the currency act, which is a first step in the way of gradual introduction of the gold standard in that country. This act fixes the legal value of the rupee at 1s. 6d. and definitely demonetizes silver.

> International movements of capital.—Stability of the exchange market has been greatly assisted by international movements of capital, representing principally a flow of funds from the United States to Europe, to the great advantage of both continents. This stability helped in turn to reestablish relations between the several financial markets which, under the injurious influence of excessive exchange fluctuations, had been isolated from one another since the war. Interest rates still show far greater divergencies, comparing one country with another, than in pre-war times. In this respect equilibrium is reestablished slowly; it would not be desirable to have it otherwise, since a too rapid leveling might bring about disturbances in the money and capital market of creditor countries and might create in those countries which have need of capital a fictitious and therefore unhealthy prosperity.

The necessity for international agreement and cooperation both among nations as such and of 1.72 zlotys for 1 gold franc; and in Italy on the basis of 7.919 grams of fine gold for 100 conferences looking toward the conclusion of paper lire, thereby establishing gold parity at general agreements, the carrying out of which,

unfortunately, is still too often effected in a spirit of protectionism more extreme than that of the war or postwar periods. It has even happened on occasion that the proclamation of free-trade principles has led to the paradoxical result that customs barriers have been made still higher. In this respect the commercial treaty concluded last summer between France and Germany, with its most-favored-nation clause, is particularly important for our country. In itself the conclusion of this treaty is certainly a happy event, in that it sets forth a larger conception of international economic relations. Its value, however, has been rendered illusory to some extent through the simultaneous withdrawal by both contracting parties of the right of entry of a whole series of articles. Thus indirectly the agreement has had an unfavorable effect on the commercial relations of France with a number of other countries, and particularly on those of France with Switzerland. The negotiations entered upon between these two latter countries, following an increase greatly prejudicial to our commerce in French customs duties, are long and difficult; the point which they had reached at the end of the year, however, permits us to hope that they will lead to an arrangement as desired in harmony with Switzerland's essential requirements. It is advisable at present not to exaggerate the influence of the proclamation of free-trade principles by the economic conference which met at Geneva in May, since the practical application of these principles is blocked by great difficulties. Even the diplomatic conference held at Geneva in October and November to study the problem of removing import and export prohibitions still in force with respect to a number of products and raw materials has only a moderate success to record. One must nevertheless recognize the value of these efforts as preparation for moral disarmament in the matter of international economic relations.

Revival of economic activity.—The economic activity of Switzerland revived during the past year in an encouraging way, although, unfortunately, not all branches of industry participated in the revival. Certain lines—for example, the ribbon industry and to a less degree embroidery-continue to be depressed, and their immediate prospects seem by no means favorable. Others, however, have transacted a satisfactory business; among these are the textile, the metallurgical, and the chemical industries. In watchmaking no improvement was felt until the second half of the year. 212,600,000 francs as compared with 141,600,-Agriculture has not yet emerged from its 000 francs in 1926. The Confederation had

period of crisis, and the unfavorable weather, accompanied by hail storms and cyclones which ravaged the entire country, seriously injured the crops. Some slight progress, however, is to be recorded in exportation of dairy products and in cattle breeding; an advance in the price of milk, slight as it was, had nevertheless a favorable effect on the income from agricultural products. In spite of the variable weather, and although hopes aroused in the spring were not fully realized, it was a good year for those who derive their principal income from the tourist business. The revival of economic activity has been well supported by the stability of interest rates at a relatively favorable level, and we can state with satisfaction that it has been possible to meet increased demands for funds without any considerable raising of the rates.

Financial situation.—The financial situation of the country may be characterized as sound, It is true that the budgets of the Confederation and of the various Cantons are not yet wholly in balance. But the deficits are exceedingly small and in a majority of cases are more apparent than real, because as a rule the budgets provide for regular amortization of the debts. However that may be, the Confederation, the Cantons, and the communes will still find it necessary to make prolonged efforts in order that they may, by gradually paying off their unproductive debts which have greatly increased since the war, lighten the heavy burden of imports and so remove one cause working in the international market to weaken the competitive power of Swiss ecomony.

The financial situation of the Federal railways, also, which since the war have experienced an era of deficits, is improving. auxiliary enterprise of the S. E. S. A. (Swiss Express Joint Stock Co.) at Zurich, which was organized last year, has contributed to this improvement. If traffic develops favorably, and if the administration continues the wise policy of economy which it has undertaken, it may be hoped that the financial situation of our greatest state enterprise will become normal again.

Capital market.—Revival of economic activity brought about heavy demands on the capital market. Thus the issues of Swiss Government loans absorbed 205,200,000 francs of new money as against only 45,000,000 francs the year before, which year, it is true, showed a particularly low figure. Public issues of shares also were in a larger amount, reaching

occasion to place only one conversion loan, by which in the spring it converted the 151,400,000 francs of 1923 4½ per cent treasury bonds into a loan of the same character to mature in 15 years, issued at 97 per cent. In September the Federal railways floated a loan of 100,000,-000 francs for the purpose of funding their floating debt and covering their current expenses. In spite of a rise in the price of money during the interval, they succeeded in obtaining capital at 4½ per cent interest, although they made certain concessions as to the price of issue, which was set at 95 per cent; thus the yield of this loan, which is payable in 18 years, comes to about 5 per cent. During the course of the summer the great banks one after another adopted a rate of 5 per cent for their cash loans; a certain number of banks in the cantons found themselves obliged nolens volens to follow this example, although others succeeded in maintaining a rate of $4\frac{3}{4}$ or even 4½ per cent, or in bringing the rate down to these levels. This increase in the rate on loans occasioned some apprehension of a rise in mortgage rates, which, however, was fortunately avoided. On our mortgage market the abnormal supply of short-term obligations, which were exposed to constant fluctuations in interest rates, clearly showed an unhealthy situation in our capital market, for which there was perhaps no remedy except in creating mortgage bonds. The higher price of money has affected only new loans and has not exercised any marked influence on general rates of interest; the yield of gilt-edged securities, moreover, remained at about 434 per cent throughout the entire year.

Money market.—The Swiss money market was influenced again by a vigorous international circulation of capital. On the one hand, the market was strongly supported by an influx of foreign funds seeking a refuge either in Swiss investments or in foreign securities quoted in our currency or in operations on the stock exchange. On the other hand, the market continued to be drawn upon by the public issue of foreign loans and by private investment in securities of other countries. Under these conditions the problem of capital outflow was in the highest degree one involving the public welfare; it will continue to be such until in the application of the modus vivendi which is coming to be established with the banks, sufficient account is taken of the possible influence of operations of this kind on our money market and on our rate of exchange. There is no question here of hindering the activity of the banks, but it is

directors of the bank are perfectly aware that the active balance of revenue arising from investments abroad is a necessary element in the equilibrium of our general balance of payments, which is heavily burdened by the deficit in our commercial balance properly so called; the bank of issue, however, can not imagine that anyone would, without consulting it, float great loans abroad at the risk of thwarting its policy, which aims to assure to the greatest possible extent stability of exchange and of interest rates. But it is good to record the fact that the great financial establishments, almost without exception, have formed the habit of informing the bank regularly of whatever operations they have under way; it is to be hoped that in future this habit will become universal.

The Swiss money market was greatly influenced also by the inflow and outflow of shortterm funds occasioned by differences of interest rates in the various foreign money markets. The abundance of funds which prevailed at the beginning of the year increased as a result of retiring from circulation gold coins of the Latin Union minted in other countries, of which some had been hoarded up to that time and now reappeared seeking investment. Foreseeing the economic needs of the country, the bank of issue tried to keep these available funds which were not immediately invested, within the country by rediscounting money orders for the banks without charging interest, in order to give opportunity for investment. In spite of everything, this measure proved ineffectual for preventing the exportation of funds, which began to flow toward countries with higher interest rates. By favor of the stability of her exchange rates and of the extensive foreign relations of her financial establishments, Switzerland in larger measure than ever before functioned as international collector and distributor of funds. As the higher rates abroad attracted funds thither and the possibility of investing capital within the country remained very limited, important capital sums found their way abroad particularly during the first half year, taking with them a considerable proportion of Swiss money. The consequent tightening of our market was not slow in bringing about a higher discount rate, which at times rose almost to the level of the official rate. As a result and during the second half of the year the private rate was generally maintained at only a fraction below the official rate.

of exchange. There is no question here of hindering the activity of the banks, but it is highly important to control foreign issues. The ception of France, where an abnormal abund-

ance of short-term money prevails in strong contrast to the high rates for long-term capital. This state of things is the more remarkable because, as we have said before, the high rates abroad were favorable to exportation of capital from Switzerland and because the recent revival of economic activity in Switzerland called for larger financial resources. The cautious policy of the banks in the matter of new engagements abroad—a caution dictated by the attitude of the central bank in admitting to discount bank acceptances in favor of foreign customers—has checked the tendency of these foreign discounts to increase to the same degree as they have done on other markets where a similar situation has sometimes brought about increases in the official discount rates. The National Bank has been able throughout the year to maintain the discount rate at 3½ per cent, effective since October 19, 1925. Certain groups have indeed insisted, first in June and then in September and October, upon an increase in the rate. A measure of this kind would not have been justified unless it had been dictated by the situation in the domestic market. The close relation which the bank maintained with the market showed, however, that the stringency which was making itself felt was not caused by needs of Swiss economic enterprises for money. The bank was soon convinced that it could give up any idea of a rise in the discount rate, especially since other means still remained at its disposal. Thus an increase in the price of money was avoided as well as those unfavorable influences which from the first might have retarded the revival of activity already becoming manifest in commerce and industry. This decision was made easier by the strong situation of the bank. The rate of 4½ per cent for advances on securities, which was lower than the yield of gilt-edged securities, was maintained in spite of intense activity on the stock exchange. For the rest, the bank made use of an efficient measure of defense against being drawn upon for Lombard credit, which, like its discount credit, was short term, and differed in this respect from business of the same kind at the commercial banks; it had only to refuse unjustifiable demands, in particular those of a speculative character. Accordingly advances granted this year have scarcely exceeded those of the preceding years. In this connection the bank has more and more given preference to collateral consisting of government obligations properly so called, as offering greater security than shares of private enterprises with higher yield.

The official discount rate in Switzerland averaged $3\frac{1}{2}$ per cent in 1927, as also in 1926, against 3.9 per cent in 1925. The average of rates on advances on securities rose to $4\frac{1}{2}$ per cent, while in 1926 and 1925 it was $4\frac{1}{2}$ and 4.9 per cent respectively.

and 4.9 per cent, respectively. Movement of the exchanges.-During the year the movement of the Swiss franc was closely involved with fluctuations on the national money and capital market. For foreign bills the demand was already strong in January and continued through the first half year to the point of exerting at times a slight pressure on the course of our exchange. The Swiss franc, which at the beginning of the year was slightly above par in comparison with the dollar, weakened during January to a fraction of a point below parity, while the dollar was at a premium over our money of about 0.3 per cent—but without ever reaching the "gold point." During several months the rate of exchange fluctuated around this level. Even at the higher rates the market was not always in a position to meet the demand for foreign bills. That is why the bank of issue, upon which rests among other responsibilities that of stabilizing the franc to the full measure possible, found itself obliged from time to time to intervene with sales of foreign exchange. During the course of the second half year, the demand for foreign bills having slackened somewhat, the discount in comparison with the dollar declined gradually and gave place toward the end of the year to a slight premium of the Swiss franc over the dollar. During the closing months of the year the English pound, the Dutch florin, and several other currencies showed a premium over the Swiss franc and also over the dollar, which resulted from the high level of interest rates in these countries in comparison with rates in effect in the United States and in Switzerland. This development even caused a flow of the yellow metal from America to Europe in the form of exports of gold from the United States to England and Hollanda thing which had not happened since 1915.

Note circulation.—Note circulation during the past year rose in comparison with that of the previous year for the first time since 1920—always excepting the year 1923, during which the fiduciary circulation still showed the effects of the disturbance caused the year before by the suggestion of a capital levy. It reached at that time an abnormal level not at all in accord with the economic situation. The yearly average of the circulation for 1927 exceeded by

30,000,000 francs that for 1926. This increase, already noticeable in February, was accentuated as a result of demonetizing gold coins of other countries of the former Latin Union, part of which were exchanged for notes. The notes issued under these circumstances found their way but slowly to the National Bank; some of them were hoarded in place of the gold against which they had been exchanged; some of them replaced gold in circulation; some of them were required to satisfy the increasing need for currency consequent upon the revival of economic activity

Retirement of gold coins of the Latin Monetary Union.—The dissolution of the Latin Monetary Union, of which we spoke in our last annual report, has resulted in the retirement from circulation in Switzerland of gold coins of other countries belonging to the union. This was decreed by the Federal Council on February 8, 1927. The time for their withdrawal was extended from February 8 to the end of March in order to permit the public, without losing thereby, to convert into legaltender coins of the union minted in other countries, some of which had been circulating as legal tender in Switzerland since 1860. After the date agreed upon foreign coins were not accepted by the National Bank or by the Federal treasuries except at only 99 per cent of their face value. Conversion was made by order of and for account of the Confederation, through the good offices of the National Bank assisted by the Federal treasuries. It was made either in the form of an addition to deposit accounts or by the delivery of bank notes and specie. At the beginning of these operations conversion into Swiss gold coins was limited to a maximum of 500 francs for deliveries not exceeding 2,000 francs and to a quarter of any sum offered for conversion in excess of the latter amount. To holders of foreign gold pieces presented for conversion, however, the privilege was extended of demanding a total equivalent in Swiss gold money after making deduction of 1 per cent of the

It does not seem to be understood in certain quarters how great a sacrifice these conversion operations represented both for the Confederation and for the bank of issue. According to the terms of an agreement entered into before the demonetization of foreign gold coins, the intrinsic value and their nominal value might

face value of the delivery for wear and tear of

the coins and for the costs of reminting. In

fact, very moderate use was made of this

conversion privilege.

weight and costs of reminting for all the gold pieces of this kind in its possession at the time of their demonetization. To this charge a further loss was added by the end of the year on the 3,000,000 francs returned by France in exchange for French 5-franc pieces which had been demonetized in Switzerland. The bank was obligated, furthermore, to assume the costs of reminting all coins turned in during the conversion period. On the other hand, the Confederation charged to its own account the loss of weight on these latter coins. It is still further burdened with minting costs for an amount of 100,000,000 francs which it turned over the the National Bank. The total conversion of foreign gold pieces of the Latin Union amounted to about 111,300,000 francs. Of this amount 53,000,000 francs were simply added to deposit accounts, while 26,500,000 francs were exchanged for bank notes and 31,800,000 francs for Swiss gold coins. The loss assumed on these foreign coins by the Confederation, including the minting costs on 100,000,000 francs mentioned above, amounted to 670,226.75 francs, and the loss suffered by the National Bank amounted to 437,958.15 francs. The loss resulting to the Federal treasury was met by funds from the currency reserve.

It is true that during the course of the year the National Bank succeeded in getting rid of a small part of these coins without loss. It is to be expected, however, that the bank will receive other payments in coins of this character and that it must undergo further losses until these operations of repatriating foreign coin, are finished, the time allowed being until the beginning of 1932.

The amount of the losses mentioned above shows that the withdrawal of gold coins of other countries of the old Latin Monetary Union, a measure which would not have been legal before the dissolution of the union, was necessary to insure the soundness of our own monetary system. If the free circulation of these gold coins had been continued they would have come into Switzerland in large amounts whenever our exchange reached or passed the gold-import point—just as happened in 1920 with the 5-franc pieces of the Latin Union—and we should have been compelled to accept them as Swiss money so long as they were not abraded in excess of the legal tolerance. If one estimates that the total of these coins reached 12,800,000,000 Swiss francs and that the margin of profit between their National Bank absorbed charges for loss in have been as much as 1 per cent it is easy to

see how large the business of importing these coins might have become and what losses it might have occasioned to the Federal treasury and to the bank of issue. These coins would in the end have been left in the Federal treasury or in the vaults of the National Bank, which could have done nothing with them except sell them as bullion or remint them into Swiss coins of full weight, as was done with some of the coins which were left with us after their

withdrawal from circulation.

By the withdrawal of these gold coins from circulation, following upon the withdrawal of the silver coins, the Swiss monetary system has been completely nationalized. Swiss gold coins at the end of 1927 amounted to 379,573,560 francs (of which 180,794,270 francs are in the vaults of the National Bank and 198,779,290 francs in circulation or in the commercial banks), so that the country is thoroughly prepared for the adoption of gold monometalism; the only thing left to do is to restore the 5-franc pieces to the status of subsidiary currency. It is estimated that before the war the total amount of gold coins in circulation or in the commercial banks reached a maximum of 100,-000,000 francs; at the end of 1927 the circulation of 20-franc notes amounted to 122,000,000

On many previous occasions the board of directors and the authorities of the bank have taken part in the reform of Swiss monetary legislation. Reform has again been made necessary as a result of the dissolution of the Latin Union. The bank has undertaken the necessary studies in collaboration with the the withdrawal of foreign 5-franc coins. Federal Department of Finance.

Metallic reserves.—The metallic cover for notes in circulation fluctuated during the year between 59.23 per cent and 72.12 per cent (compared with 61.17 per cent and 73.07 per cent in 1926), and has averaged 65.06 per cent for the year (compared with 66.96 per cent the year before). The gold cover alone reached a maximum of 61.54 per cent, a minimum of 51.55 per cent, and a yearly average of 56.39 per cent (compared with 55.79 per cent in 1926). The slight decline in the ratio between our metallic reserve and the note circulation is explained by the increase of the latter, for in actual figures the metallic reserve has averaged higher than during 1926.

General condition of the bank.—The condition of the bank has been perfectly liquid throughout the year. Its total liabilities have been covered on the average in the ratio of 79.68 per cent by the metallic reserve and the holdings of foreign exchange in gold currencies. The note circulation has been covered in the ratio of 90.74 per cent. The total cover (metal, bill portfolio, holdings at sight, and advances on security) has been maintained throughout the year at a figure so high that, even without including advances on security, it has always stood at 100 per cent of the note circulation.

The demands on the National Bank made by the Confederation and the State railways have been limited to the discount of small amounts for the temporary cover of shortterm needs. At the end of the year the bank no longer held any Government bills in its portfolio, with exception of those providing for

FINANCIAL STATISTICS FOR FOREIGN COUNTRIES

CONDITION OF CENTRAL BANKS

[Figures are for the last report date of month]

	19	28	19	927		19	28	19	27
	Febru- ary	Jan- uary	Decem- ber	Febru- ary		Febru- ary	Jan- uary	Decem- ber	Febru- ary
Bank of England (millions of pounds sterling): Issue department—	150.4	155.0		140.0	National Bank of Bulgaria (millions of leva):	1, 283	1, 279	1,277	1, 205
Gold coin and bullion Notes issued	156. 4 176. 2 .9 40. 8	155. 3 175. 0 . 9 40. 4	151. 5 171. 2 .9 32. 5	148. 8 168. 6 1. 3	Foreign bills, etc. Loans and discounts. Advances to State. Note circulation. Deposits.	513 788 4, 471 3, 494 2, 723	374 832 4, 471 3, 588 2, 775	477 948 4, 514 3, 727 2, 957	213 1, 072 4, 512 3, 246 3, 260
Government securities Other securities Public deposits Other deposits. Ratio of gold and note reserve to deposit liabilities	30. 7 54. 6 10. 1 98. 5	35, 3 56, 7 16, 5 98, 7	48. 6 74. 4 14. 6 124. 0	30. 0 71. 3 17. 8 98. 5	Central Bank of Chile (millions of pesos): Gold at home Gold abroad Loans and discounts	61 471	61 408	61 402	85 579
serve to deposit liabilities (per cent) Bank notes in circulation 1 Currency notes and certificates	38. 3 79. 1 287. 5	35. 8 -78. 4 288. 0	24. 1 82. 5 299. 8	28. 6 80. 4 281. 5	Note circulation Deposits	36 276 173	270 123	45 274 107	20 259 236
Bank of France (millions of francs): Gold reserve 2 Silver reserve. Gold, silver, and foreign exchange	3, 680 343	3, 680 343	3, 681 343	3, 684 342	Bank of the Republic of Colombia (thousands of pesos): Gold at home Gold abroad	21, 305 26, 724	21, 009 25, 613	20, 510 23, 711	19, 815 23, 446
Credits abroad Loans and discounts Advances to the Government Miscellaneous assets	3, 408 22, 400	2, 406 56 3, 316 23, 500	2,373 53 3,840 24,550	1,827 86 5,195 29,600	Gold at home Gold abroad Loans and discounts Note circulation Deposits	14, 601 46, 092 8, 651	15, 677 45, 510 8, 612	18, 237 46, 370 7, 109	12, 591 40, 508 8, 735
Note circulation	26, 365 57, 702 8, 372	27, 302 57, 128 10, 932	26, 551 56, 551 10, 507	9, 075 51, 697 4, 845	Czechoslovak National Bank (millions of Czechoslovak crowns): Gold and silver Foreign balances and currency	1,118 1,963	1, 108 2, 052	1, 108 2, 424	1, 048 2, 021
reichsmarks): Gold reserve Gold abroad Reserves in foreign exchange	1, 803 86 282	1,782 84 296	1,783 81 282	1, 741 93 204	Loans and advances Assets of banking office in liquidation Note circulation Deposits	68 491 7, 075	495 7,099	126 498 8,417	571 6, 917
Bills of exchange and checks Miscellaneous assets Deposits Reichsmarks in circulation	2,336 552 491 4,268	2,373 599 498 4,251	3, 129 499 779 4, 564	1, 644 506 539 3, 465	Deposits	813	949	690	1, 726
Rentenmarks in circulation Bank of Italy (millions of lire³): Gold at home. Credits and balances abroad Loans and discounts	4, 547 7, 927 4, 053	4, 547 7, 570 4, 355	740	1, 149 4 4, 197 3, 031 7, 604	Gold Balances with Bank of England. Foreign bills, etc. Loans and discounts. Note circulation Deposits.	30 452	2, 595 15, 019 32, 284 20, 417 34, 824 3, 461	2,381 14,139 34,605 22,238 36,008 2,920	2, 842 13, 944 13, 498 21, 321 34, 702 2, 755
Advances to Treasury Total note circulation Public deposits Other deposits	17, 270 352 3, 653	17, 381 114 3, 636		4, 229 17, 816 248 2, 332	National Bank of Denmark (millions of kroner):				
Bank of Japan (millions of yen): Gold. Advances and discounts. Advances on foreign bills. Government bonds. Notes issued.	1,063 795 10 174 1,240	1,062 831 23 205 1,397	1,063 888 78 228 1,682	1, 058 330 56 270 1, 232	Gold. Foreign bills, etc. Loans and discounts. Note circulation Deposits.	182 68 79 336 22	182 76 81 336 24	182 97 95 354 45	202 36 127 356 25
Total deposits Austrian National Bank (millions of schillings):	919	844	702		National Bank of Egypt (thousands of Egyptian pounds sterling): Gold				3, 613
Gold Foreign bills of the reserve Other foreign bills Domestic bills Treasury bills Note circulation	117 314 262 94 173	84 337 264 105 173	84 379 274 132 173	57 458 144 59 176	English Government securities Egyptian Government securities Note circulation Government deposits Other deposits				24, 005 25, 135 27, 086 20, 817 5 16, 194
Note circulation	917 44	920 47	1,005 40	874 27	Bank of Estonia (thousands of krones):	10.001	10.005		* 000
lions of belgas): Gold Foreign bills and balances in gold Domestic and foreign bills	743 454 537	741 475 559	719 525 585	624 425 481	Gold. Net foreign exchange. Loans and discounts. Note circulation. Deposits—	10, 281 29, 822 28, 862 38, 529	10, 285 30, 843 29, 281 37, 106		5, 060 5, 674 57, 884 19, 520
Loans to State	386 2,066 110	394 2,056 155	4 394 2, 043 214	400 1, 823 146	Government Bankers Other	13, 102 2, 048 6, 715	15, 237 2, 111 7, 094	}	39, 147 8, 543

Notes issued, less amounts held in banking department and in currency note account.
 Not including gold held abroad.

New par.
Not including 1,535 million lire of gold pledged abroad.
Revised.

CONDITION OF CENTRAL BANKS—Continued

	19	28	19	27		19	928	19	27
	Febru- ary	Jan- uary	Decem- ber	Febru- ary		Febru- ary	Jan- uary	Decem- ber	Febru- ary
Bank of Finland (millions of Finnish marks): Gold Balances abroad and foreign credits. Foreign bills. Domestic bills. State debts.	315 1, 202 46 753	316 1, 312 43 692 107	317 1,360 48 640 122	326 1, 127 63 533 124	Bank of Portugal (millions of escudos): Gold Balances abroad Bills Note circulation Deposits		9 175 226 1,834 79	9 161 213 1,832 96	186 213 1,783
Note circulation Demand liabilities	1,593 428	1,503 665	1,514 634	1,447 408	National Bank of Rumania (millions of lei):	150		4.150	
National Bank of Hungary (millions of pengö): Gold	106	197 106 313 111	197 114 332 111	169 110 190 122	Gold 1 Bills. Advances to State. Note circulation. Deposits. State Bank of Russia (note-issuing	21,026	21,027	² 150 ² 8, 878 ² 16, 359 ² 21, 025 ² 10, 590	145 8, 982 10, 679 20, 990 9, 130
Other assets. Note circulation Deposits. Miscellaneous liabilities. Bank of Java (millions of florins):		217 467 295 159	244 487 309 179	262 416 260 149	department; thousands of chervontsi): Gold	17,745 6,985 68,536	19, 183 6, 710 70, 373	18, 858 7, 350 77, 445	16, 442 8, 186 61, 067
Gold	309	176 30 109 315 44	178 24 128 320 54	195 19 85 305 57	Bank notes	94, 121	97, 489	104, 404	85, 851
Bank of Latvia (millions of lats): Gold Foreign exchange reserve Bills Loans Note circulation Government deposits	24 61 80 47 39	24 50 79 53 37 98	24 49 79 53 40 97	24 29 71 53 28 81	Gold Foreign notes and credits Loans and discounts Advances to State Note circulation Deposits	1.570	89 316 1, 613 2, 966 5, 382 1, 198	89 346 1, 683 2, 966 5, 743 1, 087	324 1, 346 2, 966 5, 502 716
Other deposits. Bank of Lithuania (millions of litas): Gold. Foreign currency. Loans and discounts. Note circulation Deposits.	65	33 57 82 101 65	33 52 81 97 65	31 39 57 90 36	South African Reserve Bank (thousands of pounds sterling): Gold	8, 638 6, 986 602 7, 638 1, 696	8, 145 7, 039 821 8, 152 1, 603	8, 226 7, 702 1, 197 9, 309	8, 151 6, 294 1, 028 8, 158
Netherlands Bank (millions of florins): Gold	435 182	433 183 221 788 91	400 168 247 797 99	414 141 243 814 31	Bankers Others Bank of Spain (millions of pesetas): Gold Silver Balances abroad Loans and discounts	6, 626 346 2, 606	5, 014 505 2, 606 695 41	4, 923 164 2, 604 685 37	2, 583 691 31
Bank of Norway (millions of kroner): Gold Foreign balances and bills Domestic credits Note circulation Foreign deposits		147 10 309 325 4	147 47 261 331	147 49 398 319 16	Loans and discounts Note circulation Deposits Bank of Sweden (millions of kronor): Gold	4,170 991	1, 673 4, 157 1, 077	1,730 4,202 1,079	2, 069 4, 309 992
Total deposits Reserve Bank of Peru (thousands of libras): Gold	4, 171	4. 154	95 3,994	4:091	Foreign bills, etc	233 217 274 478 179	240 260 473 195	264 374 526 268	18/ 25/ 48/ 10/
Gold against demand deposits Foreign exchange reserve Bills Note circulation Deposits	806	262 719 1, 760 5, 897 525	422 785 1,865 6,036 843	325 709 2,052 5,998 655	Swiss National Bank (millions of francs): Gold	378	451 63 357	517 29 449	44 2 35
Bank of Poland (millions of zlotys): Gold at home	353 173 646	353 173 637	353 164 688	} 149	Note circulation. Deposits	819	814 114	917 153	80
All other Loans and discounts Note circulation Current account of the Treasury Other current accounts	206 515 1,048 400 234	200 502 1,003 406 231	207 497 1,003 361 299	369 634 64 149	Gold		60, 258 97, 344 70, 730 78, 132	57, 357 99, 638 71, 787 79, 023	54, 94 100, 90 68, 91 70, 61

¹ Not including gold held abroad.

³ Figures for Dec. 24, 1927.

^{*} Revised.

CONDITION OF COMMERCIAL BANKS

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

	19	28	1	927		1928		1927	
	Febru- ary	Janu- ary	De- cember	Febru- ary		Janu- ary	De- cember	No- vember	Janu- ary
Nine London clearing banks (millions of pounds sterling): Money at call and short notice Advances and discounts	244	146 1, 179 245 1, 747	155 1, 149 234 1, 729	117 1, 122 243 1, 653	Three commercial banks of France (millions of francs): Bills and national defense bonds Loans and advances Demand deposits. Time deposits.		5, 682 25, 543	14, 863 5, 527 24, 642 432	15, 030 5, 099 21, 954
Tokyo banks (millions of yen): ¹ Cash on hand Total loans. Total deposits Total clearings.	2, 191 1, 548	266 2, 262 1, 932 2, 407	273 2, 292 1, 932 2, 943	123 2, 628 1, 975 2, 807	Six Berlin banks (millions of reichs- marks): Bills and treasury notes. Due from other banks. Miscellaneous loans. Deposits. Acceptances.		1, 914 1, 074 5, 218 7, 785 422		3 1, 556 3 787 3 4, 024 3 5, 967 3 324
	Janu- ary	De- cember	No- vember	Janu- ary	Four private banks of Italy (millions of lire): Cash Bills discounted. Due from correspondents				³ 1, 240 ³ 9, 130 ³ 5, 169
Chartered banks of Canada (millions of dollars): 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	70 1,356 480 552 162 2,454	69 1, 347 533 529 183 2, 503	69 1, 329 522 488 181 2, 521	72 1, 255 432 496 160 2, 273	Due to correspondents Deposits Joint-stock banks of Norway (millions of kroner): Loans and discounts Due from foreign banks Due to foreign banks Rediscounts Deposits			1,599	1,723 76 227 1,925
notes	96 179	128 221	135 214	93 172	Joint-stock banks of Sweden (millions of kronor): Loans and discounts	4, 096 303	4, 044 321	4, 116 303	4, 2 60
lions of kroner): Loans and discounts Due from foreign banks Due to foreign banks Deposits and current accounts	1,872 59 110 2,029	1,890 60 122 2,028	1,882 53 102 2,059	1, 953 53 155 2, 011	Due to foreign banks	133 111 3, 541	144 186 3,484	147 70 3, 553	132 91 3, 534
Joint-stock banks of Finland (millions of Finnish marks): Loans and discounts Due from abroad Due to abroad Deposits.	405	8, 118 367 359 6, 982	8,066 391 372 6,868	7, 199 372 317 6, 390	Loans and discounts Mortgages Foreign bills Due from banks and correspondents Commercial deposits Savings deposits	1, 808 2, 908 22 324 755 1, 621	1, 803 2, 885 23 295 738 1, 567	1,789 2,867 21 313 738 1,562	1, 731 2, 787 263 687 1, 532

Beginning in November figures are included for 10 banks not previously covered by the reports.
 Not including gold held abroad.
 Figures are for December, 1926.

DISCOUNT RATES OF 33 CENTRAL BANKS

[Prevailing rates, with date of last change]

Country	Rate	In effect since—	Country	Rate	In effect since	Country	Rate	In effect since—	Country	Rate	In effect since—
Austria Belgium Bulgaria Colombia Czechoslovakia Danzig Denmark England	6 4½ 10 6½ 7 5 6 5 4½	Aug. 31, 1924	Estonia Finland France Germany. Greece Hungary India Italy	6 3½ 7 10	Jan. 2, 1928 Nov. 24, 1927 Jan. 19, 1928 Oct. 4, 1927 June 6, 1927 Aug. 26, 1926 Dec. 22, 1927 Apr. 3, 1928	Japan. Java. Latvia. Lithuania. Netherlands. Norway. Peru. Poland.	5. 48 6 7 6 41/2 51/2 7	Oct. 10, 1927 May 3, 1925 Jan. 1, 1927 Nov. 9, 1927 Oct. 13, 1927 Mar. 27, 1928 Jan. 31, 1928 May 13, 1927	Portugal Rumania Russia South Africa Spain Sweden Switzerland Yugoslavia	8 6 8 51/2 5 1/2 31/2 6	Mar. 23, 1923 Jan. 1, 1928

Changes: Bank of Norway from 6 to 51/2 per cent on March 27, 1928; Bank of Italy from 61/2 to 6 per cent on April 3, 1928.

MONEY RATES IN FOREIGN COUNTRIES

		England	(London)		Ge	ermany (Berl	lin)		nds (Am- dam)	Switzer- land
Month	Bankers' accept- ances, 3 months	Treasury bills, 3 months	Day-to-day money	Bankers' allow- ance on deposits	Private discount rate	Money for 1 month	Day-to-day money	Private discount rate	Money for 1 month	Private discount rate
1926										
January February	4. 76	4.78	4.00	3	6. 28	8. 07	7.04	2.95	2.93	2.44
Moreh	4.31 4.37	4. 25 4. 34	4. 00 4. 26	3	5. 46 5. 00	6. 66 6. 73	6. 03 5. 63	2. 19	2. 40 2. 82	2. 22 2. 18 2. 36 2. 33 2. 33 2. 34 2. 55 2. 58 2. 96
Anril	4. 33	4.34	3. 92		4. 88	6.02	4.77	2, 67 2, 90	2.02	2.10
May	4. 37	4. 43	4. 18	3	4. 69	5. 53	4.80	2. 95	2.94	2. 3
March April May June July August September October November	4. 27	4. 29	3. 82 3. 86	3 3 3	4. 53	5. 81	4. 76	2. 95 2. 83 2. 74	2. 92 2. 93 2. 94 3. 00 2. 72 2. 50 2. 81 2. 73	2. 3
July	4. 26	4. 29	3.86	3	4. 54	5, 73	4. 93	2. 74	2.72	2. 3
August Santambar	4. 45 4. 54	4. 55 4. 65	3. 99 3. 99	3 3	4. 61 4. 88	5. 80 6. 21	4. 85 4. 77	2. 63 2. 78	2.00	2, 5
October	4. 69	4.80	4. 07	3	4. 82	6. 14	4. 75	2. 83	2.01	2.0.
November	4. 57	4. 80	3. 95	3	4. 63	6. 12	4. 45	3. 21	3. 23	2. 9
December	4. 53	4.60	3. 78	3	4. 72	7. 13	5. 88	3. 39	3. 96	3. 3
January	4. 16	4. 21	3. 76	3	4. 21	5, 82	3. 78	2. 97	2, 92	3. 16
		4. 21	3. 93	3	4. 21	5. 77	5. 19	3. 46	3.66	2, 87
reoruary March April May June June July August September October November	4. 34	4.36	4.09	3	4. 59	6.91	4.87	3.48	3.53	2, 9
April	4.11	4.04	3.64	3-21/6	4. 59	6. 57	5. 63	3. 46	3.78	3. 13
Мау	3.90	3.84	3. 54	23/2	4.90	6. 95	5. 99	3. 45	3. 78	3. 19
June	4. 34 4. 34	4. 36 4. 33	3. 44 3. 50	232	5. 39 5. 90	7. 73 8. 49	5. 79 7. 06	3. 57 3. 52	3. 87 3. 25	3. 42 3. 47
Angust.	4, 34	4.35	3.61	216	5.83	8. 37	5. 81	3. 45	3. 40	3. 44
September	4. 32	4.33	3. 57	213	5. 90	8. 30	6.00	3. 55	3. 82	3, 39
October	4.33	4.33	3, 58	2)-2 2)-4 2)-4 2)-2 2)-2 2)-2 2)-2 2)-3	6. 74	8.72	7. 19	4.08	4. 29	3. 38
November	4.34	4, 34	3, 65	21/2	6. 76	8. 72	6.03	4. 47	4. 72	3. 39
D'0001111001	4. 31	4. 31	3. 43	21/2	7. 24	9. 10	6.87	4. 50	4.84	3. 40
1928									1	
January	4, 19 4, 19	4. 13 4. 18	3. 48 3. 62	2½ 2½	6. 25 6. 20	7. 66 7. 30	5. 16 6. 66	4. 26 3. 94	4.11 3.79	3. 29 3. 12
February	4.15	4. 10	3.02	272	0. 20	1.50	0.00	3. 94	5, 15	0. 12
										
	Belgium (Brussels)	France (Paris)	Italy (Milan)	Austria (Vienna)	Hur	ngary	Sweden (Stock- holm)	Japan (Tokyo)
Month	(Brussels)		(Milan)			Hur	ngary	(Stock-		
Month				Austria (Money for 1 month	Prime commercial paper	Day-to-day money	(Stock-	Japan (Discounted bills	Call money overnight
	(Brussels) Private discount	(Paris) Private discount	Private discount	Private discount	Money for 1 month	Prime commer- cial paper	Day-to-day	(Stock- holm) Loans up to 3	Dis- counted	Call money
	Private discount rate	Private discount rate	Private discount rate	Private discount rate	Money for 1 month	Prime commer- cial paper	Day-to-day money	(Stock-holm) Loans up to 3 months	Dis- counted bills	Call money overnight
1926	Private discount rate	Private discount rate	Private discount rate 8.18 8.00	Private discount rate	Money for 1 month	Prime commer- cial paper	Day-to-day money	(Stock-holm) Loans up to 3 months	Dis- counted bills	Call money overnigh t
	Private discount rate	Private discount rate 4. 57 4. 27 4. 27 4. 25	Private discount rate 8. 18 8. 00 8. 00	Private discount rate	Money for 1 month	Prime commer- cial paper	Day-to-day money	(Stock-holm) Loans up to 3 months	Dis- counted bills	Call money overnigh t
	Private discount rate	Private discount rate 4.57 4.27 4.25 4.25	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00	Private discount rate	Money for 1 month	Prime commer- cial paper	7 -101/2 7 -11 61/2 7	(Stock-holm) Loans up to 3 months	Dis- counted bills	Call money overnigh t
	Private discount rate	Private discount rate 4.57 4.27 4.25 4.25 5.15	Private discount rate 8.18 8.00 8.00 8.00 8.00	Private discount rate	Money for 1 month	Prime commer- cial paper	7 -101/2 7 -11 61/2 7	(Stock-holm) Loans up to 3 months	Dis- counted bills	Call money overnight 4. 56-8. 03 4. 38-7. 34 4. 75-7. 6 6. 02-7. 34 4. 75-7. 3 5. 11-8. 7
1926	Private discount rate	Private discount rate 4.57 4.27 4.25 4.25 5.13 5.73 6.00	Private discount rate 8.18 8.00 8.00 8.00 8.00 8.17 8.50	Private discount rate	Money for 1 month	Prime commer- cial paper	7 -101/2 7 -11 61/2 7	(Stock-holm) Loans up to 3 months	Dis- counted bills	Call money overnight 4. 56-8. 03 4. 38-7. 33 4. 75-7. 66 6. 02-7. 36 4. 75-7. 35 5. 11-8. 76
1926	Private discount rate	Private discount rate 4.57 4.27 4.25 5.15 5.73 6.00 7.00	Private discount rate	Private discount rate	Money for 1 month	Prime commer- cial paper	7 -101/2 7 -11 61/2 7	(Stock-holm) Loans up to 3 months	Dis- counted bills	Call money overnight 4. 56-8. 03 4. 38-7. 33 4. 75-7. 66 6. 02-7. 36 4. 75-7. 35 5. 11-8. 76
	Private discount rate	Private discount rate 4.57 4.27 4.25 5.15 5.73 6.00 7.00 6.98	Private discount rate 8.18 8.00 8.00 8.00 8.00 8.00 8.00 8.0	Private discount rate	Money for 1 month	Prime commer- cial paper	7 -101/2 7 -11 61/2 7	(Stock-holm) Loans up to 3 months	Dis- counted bills	Call money overnight 4. 56-8. 03 4. 38-7. 33 4. 75-7. 63 6. 02-7. 33 4. 75-7. 31 5. 11-8. 03 5. 84-7. 44 93-7. 37
1926	Private discount rate	Private discount rate 4.57 4.27 4.25 4.25 5.15 5.73 6.00 6.98 7.25	Private discount rate 8.18 8.00 8.00 8.00 8.00 8.00 8.00 8.50 8.5	Private discount rate	Money for 1 month	Prime commer- cial paper	7 -101/2 7 -11 61/2 7	(Stock-holm) Loans up to 3 months	Dis- counted bills	Call money overnight 4. 56-8. 03 4. 75-7. 66. 02-7. 36 4. 75-7. 35. 11-8. 76 5. 18-8. 05 5. 84-7. 44 4. 93-7. 36 5. 11-7. 12
January February March April May June July August September October November	Private discount rate	Private discount rate 4.57 4.27 4.25 5.15 5.73 6.00 7.00 6.98	Private discount rate 8.18 8.00 8.00 8.00 8.00 8.00 8.00 8.0	Private discount rate	Money for 1 month	Prime commer- cial paper	7 -101/2 7 -11 61/2 7	(Stock- holm) Loans up to 3	Dis- counted bills	Call money overnight 4. 56-8. 03 4. 38-7. 34 4. 75-7. 36 6. 02-7. 34 4. 75-7. 35 5. 11-8. 05 5. 84-7. 44 93-7. 30 5. 11-7. 12 4. 75-7. 44
January February March April May June July August September October November December	Private discount rate 6. 71 6. 59 6. 75 6. 65 6. 65 6. 67 6. 72 6. 74 6. 74 4. 34	Private discount rate 4.57 4.27 4.25 4.25 5.15 5.73 6.00 7.00 6.98 7.25 6.69 5.77	Private discount rate 8.18 8.00 8.00 8.00 8.00 8.17 8.50 8.50 8.50 8.96 9.25	Private discount rate 71-834 714-734 714-734 714-734 634-634 64-634 634-634 634-634 634-634	Money for 1 month 8 -1178 774-1012 734-1012 634	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-514-54-44-54-44-54-6 414-6-44-6-6	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 75-8. 40 6. 75-8. 76 7. 12-8. 76 6. 75-8. 40 6. 39-8. 40 6. 21-8. 40 6. 39-8. 40 6. 75-8. 76	Call money overnight 4. 56-8. 03 4. 75-7. 6. 02-7. 34 4. 75-7. 35 5. 11-8. 03 5. 84-7. 4 93-7. 36 5. 11-7. 15 4. 75-7. 4 5. 11-8. 03
January. January. February. March. April May June July. August September October November. December	Private discount rate 6.71 6.59 6.75 6.75 6.65 6.65 6.70 6.72 6.44 5.77 4.34	Private discount rate 4.57 4.27 4.25 4.25 5.15 5.73 6.00 7.00 6.98 7.25 6.69 5.77	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00 8. 17 8. 50 8. 50 8. 50 8. 50 9. 25 9. 25	Private discount rate 71-834 714-734 714-734 714-734 634-634 64-634 634-634 634-634 634-634	Money for 1 month 8 -1178 774-1012 734-1012 634	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-514-54-44-54-44-54-6 414-6-44-6-6	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 57-8. 40 6. 75-8. 76 7. 12-8. 76 6. 75-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 75-8. 76 6. 75-8. 76	Call money overnight 4. 56-8. 03 4. 75-7. 66 6. 02-7. 36 4. 75-7. 31 5. 11-8. 03 5. 84-7. 44 4. 93-7. 36 5. 11-7. 12 4. 75-7. 46 5. 11-8. 03
January February March April May June July August September October November December 1927 January February	Private discount rate 6. 71 6. 59 6. 75 6. 65 6. 65 6. 65 6. 72 6. 64 5. 77 4. 34	Private discount rate 4.57 4.27 4.25 4.25 5.16 5.73 6.00 7.00 6.98 7.25 6.69 5.77	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00 8. 17 8. 50 8. 50 8. 50 9. 25 9. 25	Private discount rate 74-834 714-734 714-734 614-714 634-634 63-634 634-634 634-634 634-634 634-634	Money for 1 month 8 -1174 1012 774 1012 634 1012 634 912 634 912 634 912 634 912 634 912 634 912 634 834 63 - 722 934	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-514-54-44-54-44-54-6 414-6-44-6-6	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 75-8. 76 6. 75-8. 76 6. 75-8. 76 6. 94-8. 76 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40	Call money overnight 4. 56-8. 04. 38-7. 34. 75-7. 6. 02-7. 34. 75-7. 45. 11-8. 05. 84-7. 44. 93-7. 36. 11-7. 11-8. 05. 84-7. 44. 93-7. 36. 11-7. 12. 92-7. 30. 2. 92-7. 30. 2. 92-7. 30. 2. 92-7. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30
January February March April May June July August September October November December 1927 January February	Private discount rate 6.71 6.59 6.75 6.65 6.65 6.65 6.70 6.75 6.72 4.34 3.90 3.90 3.99	Private discount rate 4.57 4.27 4.25 5.15 5.73 6.09 7.00 6.98 7.25 6.69 5.77	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00 8. 00 8. 50 8. 50 8. 50 8. 50 9. 25 9. 25	Private discount rate 74-834 714-734 714-734 614-714 634-634 63-634 634-634 634-634 634-634 634-634	Money for 1 month 8 -1174 1012 774 1012 634 1012 634 912 634 912 634 912 634 912 634 912 634 912 634 834 63 - 722 934	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-5142-5445-5144-5144-5144-6444-6444-6444-6444	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 75-8. 76 6. 75-8. 76 6. 75-8. 76 6. 94-8. 76 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40	Call money overnight 4. 56-8.03 4. 75-7.6 6. 02-7.34 4. 75-7.31 5. 11-8.03 5. 84-7.4 4. 93-7.33 5. 11-7.15 4. 75-7.46 4. 93-7.33 4. 38-6.2 4. 56-7.3 4. 38-6.2
1926 January February March April May June July August September October November December 1927 January February March April	Private discount rate 6. 71 6. 59 6. 75 6. 65 6. 65 6. 65 6. 67 6. 75 6	Private discount rate 4.57 4.27 4.25 4.25 5.13 5.73 6.00 7.00 6.98 7.25 6.69 5.77	Private discount rate 8.18 8.00 8.00 8.00 8.00 8.00 8.50 8.50 8.5	Private discount rate 74-834 714-734 714-734 614-714 634-634 63-634 634-634 634-634 634-634 634-634	Money for 1 month 8 -1174 1012 774 1012 634 1012 634 912 634 912 634 912 634 912 634 912 634 912 634 834 63 - 722 934	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-514-54-44-54-54-54-64-6-64-6-64-6-64	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 75-8. 76 6. 75-8. 76 6. 75-8. 76 6. 94-8. 76 6. 39-8. 40 6. 21-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 35-8. 76 75-8. 76 75-8. 76 75-8. 76 75-8. 76 75-8. 76 75-8. 76	Call money overnight 4. 56-8.03 4. 75-7.6 6. 02-7.34 4. 75-7.31 5. 11-8.03 5. 84-7.4 4. 93-7.33 5. 11-7.15 4. 75-7.46 4. 93-7.33 4. 38-6.2 4. 56-7.3 4. 38-6.2
January. February. March. April. May June July August. September. October. November. December. January February March April	6.71 6.59 6.75 6.75 6.75 6.75 6.75 6.74 3.4 3.90 3.90 4.19 4.33 4.23 4.17	Private discount rate 4.57 4.27 4.25 4.25 5.15 5.73 6.00 7.00 6.98 7.25 6.69 5.77 4.49 4.45 3.17 2.46 2.25	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00 8. 17 8. 50 8. 50 8. 50 8. 50 8. 50 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 8. 50 7. 60	Private discount rate 74-834 714-734 714-734 614-714 634-634 63-634 634-634 634-634 634-634 634-634	Money for 1 month 8 -1174 1012 774 1012 634 1012 634 912 634 912 634 912 634 912 634 912 634 912 634 834 63 - 722 934	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-514-514-414-514-6 414-6-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6 414-6	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 75-8. 76 6. 75-8. 76 6. 75-8. 76 6. 94-8. 76 6. 39-8. 40 6. 21-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 35-8. 76 75-8. 76 75-8. 76 75-8. 76 75-8. 76 75-8. 76 75-8. 76	Call money overnight 4. 56-8.03 4. 75-7.6 6. 02-7.34 4. 75-7.31 5. 11-8.03 5. 84-7.4 4. 93-7.33 5. 11-7.15 4. 75-7.46 4. 93-7.33 4. 38-6.2 4. 56-7.3 4. 38-6.2
January February March April May June July August September October November December 1927 January February March May June May June June June June June June June June	Private discount rate 6. 71 6. 59 6. 75 6. 65 6. 65 6. 65 72 6. 64 5. 77 4. 34 3. 90 3. 99 4. 19 4. 33 4. 23 4. 17 3. 84	Private discount rate 4.57 4.27 4.25 5.15 5.73 6.00 7.00 6.98 7.25 6.69 7.25 6.77 4.99 4.45 3.89 3.17 2.46 2.25 2.13	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00 8. 17 8. 50 8. 50 8. 50 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 26 7. 60	Private discount rate 74-834 714-734 714-734 614-714 634-634 63-634 634-634 634-634 634-634 634-634	Money for 1 month 8 -1174 1012 774 1012 634 1012 634 912 634 912 634 912 634 912 634 912 634 912 634 834 63 - 722 934	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414 514 514 514 514 514 514 514 514 514	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 75-8. 76 6. 75-8. 76 6. 75-8. 76 6. 75-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 40 6. 39-8. 60 6. 39-8. 60 6. 39-8. 60 6. 39-8. 76 6. 39-8. 76 6. 39-8. 76 6. 39-8. 76 6. 39-8. 78	Call money overnight 4. 56-8.0 4. 38-7.3 4. 75-7.6 6. 02-7.3 4. 75-7.3 5. 11-8.0 5. 84-7.4 4. 93-7.3 5. 11-7.1 4. 75-7.4 5. 11-8.0 4. 56-7.3 2. 92-7.3 4. 38-6.2
January February March April May June July August September October November December 1927 January February March May June May June June June June June June June June	Private discount rate 6. 71 6. 75 6. 75 6. 75 6. 75 6. 75 6. 75 6. 75 6. 77 4. 34 3. 90 3. 99 4. 19 4. 33 4. 17 3. 84 3. 84	Private discount rate 4.57 4.27 4.25 4.25 5.15 5.73 6.69 5.77 4.99 4.46 3.89 3.17 2.25 2.13 2.04	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00 8. 50 8. 50 8. 50 8. 50 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 27 0. 7. 60 7. 00	Private discount rate 74-834 714-734 714-734 614-714 634-634 63-634 634-634 634-634 634-634 634-634	Money for 1 month 8 -1174 1012 774 1012 634 1012 634 912 634 912 634 912 634 912 634 912 634 912 634 834 63 - 722 934	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-5142-5444-5144-5144-6444-6 41-6 41	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 57-8. 76 6. 75-8. 76 7. 12-8. 76 6. 75-8. 40 6. 21-8. 40 6. 21-8. 40 6. 39-8. 40 6. 21-8. 40 6. 39-8. 76 6. 39-8. 76 6. 21-8. 63 6. 57-7. 67 5. 84-8. 63 6. 57-8. 76 6. 21-8. 40 6. 57-8. 76 6. 57-8. 76 6. 21-8. 40 6. 57-8. 76 6. 21-8. 40 6. 57-8. 76 6. 21-8. 40 6. 57-8. 76 6. 21-8. 40 6. 57-8. 76 6. 21-8. 40 6. 48-8. 40	Call money overnight 4. 56-8.0 4. 38-7.3 4. 75-7.6 6. 02-7.3 4. 75-7.3 5. 11-8.0 5. 84-7.4 4. 93-7.3 5. 11-7.1 4. 75-7.4 5. 11-8.0 4. 56-7.3 2. 92-7.3 4. 38-6.2
January February March April May June July August September October November December J927 January February March April May June June June June June June June June	Private discount rate 6. 71 6. 59 6. 75 6. 65 6. 65 6. 65 6. 72 6. 64 5. 77 4. 34 3. 90 4. 19 4. 33 4. 23 4. 17 3. 84 3. 84 3. 75	Private discount rate 4. 57 4. 25 4. 25 4. 25 5. 16 5. 73 6. 00 7. 00 6. 98 7. 25 6. 69 5. 77 4. 99 4. 45 3. 89 3. 17 2. 46 2. 25 2. 13 2. 04 2. 01	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00 8. 00 8. 17 8. 50 8. 50 8. 50 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 20 7. 00 7. 00 6. 81	Private discount rate 74-834 714-734 714-734 614-714 634-634 63-634 634-634 634-634 634-634 634-634	Money for 1 month 8 -1174 1012 774 1012 634 1012 634 912 634 912 634 912 634 912 634 912 634 912 634 834 63 - 722 934	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 412 512 412 512 412 512 412 6 412 6 412 6 412 6 412 6 412 6 412 6 412 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 57-8. 76 6. 75-8. 76 6. 75-8. 76 6. 94-8. 76 6. 39-8. 40 6. 75-8. 76 6. 39-8. 7	Call money overnight 4. 56-8.0 4. 38-7.3 4. 75-7.6 6. 02-7.3 4. 75-7.3 5. 11-8.0 5. 84-7.4 4. 93-7.3 5. 11-7.1 4. 75-7.4 5. 11-8.0 4. 56-7.3 2. 92-7.3 4. 38-6.2
1926 January February March April May July August September Doctober November 1927 January February March April May June June July August Jebruary Jebruary March April May June July August Jebruary Je	Private discount rate 6. 71 6. 75 6. 75 6. 75 6. 75 6. 75 6. 75 6. 75 6. 77 4. 34 3. 90 3. 99 4. 19 4. 33 4. 17 3. 84 3. 84	Private discount rate 4.57 4.27 4.25 4.25 5.16 5.73 6.00 7.00 6.98 7.25 6.69 5.77 4.99 4.45 3.89 3.17 2.46 2.25 2.13 2.04 2.01 1.82 2.75	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00 8. 50 8. 50 8. 50 8. 50 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 27 0. 7. 60 7. 00	Private discount rate 74-834 714-734 714-734 614-714 634-634 63-634 634-634 634-634 634-634 634-634	Money for 1 month 8 -1174 1012 774 1012 634 1012 634 912 634 912 634 912 634 912 634 912 634 912 634 834 63 - 722 934	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-5142-5444-5144-5144-6444-6 41-6 41	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 75-8. 40 6. 75-8. 76 7. 12-8. 76 6. 75-8. 40 6. 39-8. 40 6. 21-8. 40 6. 39-8. 40 6. 21-8. 40 6. 55-8. 76 7. 12-8. 76 7. 12-8. 76 6. 57-7. 67 6. 58-8. 76 6. 58-7. 67 6. 58-8. 76 6. 18-8. 63 5. 11-7. 67 6. 57-8. 76 5. 48-8. 63 5. 11-7. 67 6. 48-8. 63 5. 11-7. 67 6. 48-8. 63 5. 11-7. 67 6. 48-8. 63	Call money overnight 4. 56-8. 03 4. 38-7. 33 4. 75-7. 66. 02-7. 37 4. 75-7. 35. 11-8. 07 5. 14-7. 11-8. 07 5. 14-7. 11-8. 03 4. 56-7. 37 4. 38-6. 21 4. 38-6. 21 4. 38-5. 22 4. 38-4. 77 4. 38-5. 21 4. 38-5. 22 4. 38-4. 77 2. 19-4. 38 2. 19-4. 38 2. 74-4. 36
January. February. March. April. May June. July. August. September. Doctober. November. 1927 January. February. March. April. May June. June. June. June. June. June. June. June. June. September. October.	Private discount rate 6. 71 6. 59 6. 75 6. 65 6. 65 6. 65 6. 67 6. 75 6	Private discount rate 4.57 4.25 4.25 5.15 5.73 6.09 6.98 6.98 5.77 4.99 4.45 3.89 3.17 2.46 2.25 2.13 2.04 2.01 1.82	Private discount rate 8.18 8.00 8.00 8.00 8.00 8.50 8.50 8.50 8.5	Private discount rate 71-834 714-734 714-734 714-734 634-634 64-634 634-634 634-634 634-634	Money for 1 month 8 -1178 774-1012 734-1012 634	Prime commercial paper (9/4) 10/4-11/2 10 -11/2 9/4-10/2 9/4-10 8/4-10 8/4-10 8/4-10 7/2- 9/2 7 - 8/2 7 - 8/2 6/4-8 6/4-8	Day-to-day money 7 -10/2 7 -11 61/2 7 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-514-514-514-514-514-514-514-514-614-614	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 57-8. 76 6. 75-8. 76 6. 75-8. 76 6. 94-8. 76 6. 39-8. 40 6. 75-8. 76 6. 39-8. 7	Call money overnight 4. 56-8. 03 4. 38-7. 34 4. 75-7. 6. 02-7. 34 4. 75-7. 35 5. 11-8. 70 5. 14-7. 11-8. 70 5. 14-7. 14 5. 11-8. 03 4. 56-7. 33 4. 38-6. 24 4. 38-4. 73 4. 38-6. 25 4. 38-4. 73 4. 38-6. 21 4. 38-4. 73 4. 38-6. 21 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 73 4. 38-4. 74 4. 38
January February March April May June July August September October November December January February March April May June July August September October November December Joecmber Joecmber Joecmber Joecmber Joecmber Joecmber July August September October November December	Private discount rate 6. 71 6. 59 6. 75 6. 65 6. 65 6. 65 6. 72 6. 72 6. 64 5. 77 4. 34 3. 90 3. 99 4. 19 4. 33 4. 37 4. 38 4. 37 5. 3. 87 4. 09 4. 15	Private discount rate 4. 57 4. 25 4. 25 4. 25 5. 15 5. 73 6. 00 7. 00 6. 98 7. 25 6. 69 5. 77 4. 99 4. 45 3. 89 3. 17 2. 46 2. 25 2. 13 2. 04 2. 01 1. 82 2. 75 2. 95	Private discount rate	Private discount rate 7.4-834 7.4-734 7.4-736 6.4-636 6.4-636 5.34-6 5.34-6 5.34-6 5.34-6 5.34-6 5.34-6 6.	Money for 1 month 8 -11/2 10/2 62/4 10/2 63/4	Prime commercial paper (9/4) 10/4-11/2 10 -11/2 9/4-10/2 8/4-10	Day-to-day money 7 -101/2 7 -11 61/2 - 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 412 512 412 512 412 512 412 512 412 612 612 612 612 612 612 612 612 612 6	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 57-8. 76 6. 75-8. 76 6. 75-8. 76 6. 94-8. 76 6. 39-8. 40 6. 39-8. 40 6. 75-8. 76 6. 39-8. 40 6. 75-8. 76 6. 39-8. 76 6. 21-8. 40 6. 75-8. 76 5. 48-8. 03 6. 57-7. 67 6. 57-8. 76 5. 48-8. 03 6. 57-7. 67 6. 57-8. 76 5. 54-8. 40 5. 48-8. 03 5. 11-7. 67 6. 57-7. 30 5. 11-7. 67	Call money overnight 4. 56-8. 04. 38-7. 34. 75-7. 6. 6. 6. 11-8. 7. 5. 11-8. 05. 11-7. 12. 11-8. 05. 11-7. 12. 11-8. 05. 11-7. 12. 11-8. 05. 11-7. 12. 11-8. 05. 11-7. 12. 11-8. 05. 11-8
January. February. March. April. May June July. August. September October November. December January February. March April. May June July June July August September October November. Jeen January February March April May June July Aly June July Aly October November December October November December	Private discount rate 6. 71 6. 59 6. 75 6. 65 6. 65 6. 70 6. 75 6. 72 6. 43 4. 13 4. 17 3. 84 3. 75 3. 37 4. 09	Private discount rate 4.57 4.27 4.25 4.25 5.16 5.73 6.00 7.00 6.98 7.25 6.69 5.77 4.99 4.45 3.89 3.17 2.46 2.25 2.13 2.04 2.01 1.82 2.75	Private discount rate 8. 18 8. 00 8. 00 8. 00 8. 00 8. 00 8. 50 8. 50 8. 50 8. 50 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 9. 25 8. 50 7. 60 7. 00 6. 81 6. 50 6. 27	Private discount rate 74-834 714-734 714-734 614-714 634-634 63-634 634-634 634-634 634-634 634-634	Money for 1 month 8 -1174 1012 774 1012 634 1012 634 912 634 912 634 912 634 912 634 912 634 912 634 834 63 - 722 934	Prime commercial paper (914) 1015-1115 10 -1115 915-1015 915-1015 814-10 715-9 715-815 7 - 815 7 - 815	Day-to-day money 7 -101/2 7 -11 61/2 - 7 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 6 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Stock-holm) Loans up to 3 months 414-51/2 414-51/2 414-51/2 414-51/2 414-61/2 6 41/	Dis- counted bills 6. 75-9. 13 6. 57-8. 76 6. 57-8. 76 6. 75-8. 78 6. 75-8. 78 6. 75-8. 40 6. 39-8. 40 6. 21-8. 40 6. 75-8. 76 6. 21-8. 63 6. 39-8. 76 6. 21-8. 63 6. 57-8. 76 6. 21-8. 63 6. 57-8. 76 6. 21-8. 63 6. 57-7. 67 6. 21-8. 40 6. 54-8. 63 6. 57-7. 67 6. 21-8. 40 6. 54-8. 63 6. 57-7. 67 6. 21-8. 40 6. 57-7. 67 6. 57-7. 67 6. 51-8. 70 6. 51-7. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-8. 70 6. 51-7. 70 6. 51-8. 7	Call money

NOTE.—For sources used, methods of quotation, and back figures, see the FEDERAL RESERVE BULLETINS for November, 1926, and April, 1927.

GOLD MOVEMENTS

[In thousands of dollars]

	Ur	ited Sta	tes	•	Germany	,	Gr	eat Brit	in	N	etherlan	ds	South Africa	India
Month	Im- ports	Ex- ports	Net imports or exports ()	Im- ports	Ex- ports	Net imports or exports (—)	Im- ports	Ex- ports	Net imports or exports (—)	Im- ports	Ex- ports	Net imports or exports ()	Net imports or exports (—)	Net imports or exports (—)
1926 July	19, 820 11, 979 15, 987 8, 857 16, 738 17, 004	5, 069 29, 743 23, 081 1, 156 7, 727 7, 196	-17, 764 -7, 094 7, 701 9, 011	626 10, 631 23, 608 36, 343 16, 462 18, 407	634 702 869	15, 560	18, 867 12, 137 16, 916 18, 561	6, 210 8, 959 5, 017 21, 262 24, 590 18, 609	9, 908 7, 120 -4, 346 -6, 029	136 800 580 464	60 656 150 174	76 144 430 290	-15, 723 -8, 686 -29, 082 -13, 376	4, 404 4, 839 4, 004 3, 466
Total (12 months)	213, 504	115, 708	97, 796	137, 987	8, 720	129, 267	187, 608	132, 140	55, 468	11, 174	6, 483	4, 691	-212, 152	83, 627
January February March April May June July August September October November Total	16, 382 14, 503 34, 212 14, 611 10, 738 7, 877 12, 979 2, 056	2, 414 5, 625 2, 592 2, 510 1, 840 1, 803 1, 524 24, 444 10, 698 55, 266 77, 849	19, 895 10, 757 11, 911 31, 702 12, 771 8, 935 6, 353 -11, 465 -8, 642 -53, 184 -67, 418	6, 231 6, 576 935 705 711 705 11, 259 1, 483 1, 668 1, 627 1, 635	659 840 666 673 662 685 680 876 969 975 925	5, 572 5, 736 269 32 49 20 10, 579 607 699 652 710	15, 742 7, 526 24, 678 16, 464 8, 435 13, 071 21, 469 8, 381 6, 126 15, 012	15, 480 6, 894 3, 735 26, 580 9, 674 6, 061 5, 782 7, 637 4, 726 21, 709 10, 546	262 632 20, 943 -10, 116 -1, 239 7, 010 15, 687 744 1, 400 -6, 696 -1, 060	411 488 281 46 2, 653 202 103 125 189 433 4, 264	39 1, 334 3, 015 5, 190 4, 623 2, 477 47 35 102	411 449 -1, 053 -2, 969 -2, 537 -4, 421 -2, 373 78 154 331 4, 262	-14,079 -20,718 -23,146 -15,717 -17,470	6, 543 10, 041 4, 941 4, 890 7, 122 5, 936 2, 860 3, 315 2, 685 4, 408
1928														
JanuaryFebruary						1 409 5, 293	20, 042 13, 026			12, 725 227		12, 716 -920		8,590

¹ Revised.

MOVEMENTS TO AND FROM UNITED STATES

[In thousands of dollars]

	19	28		19	27	
Country of origin or destination	Febr	uary	Janu Febr	ary- uary	Calend	ar year
	Imports	Exports	Imports	Exports	Imports	Exports
Belgium England				2,000	1	2, 200
England	2		2		39, 396	8,562
France		7,500	1	15,000	21,048	10,000
Germany		210		315	1	13, 994
Netherlands				4,000		8,055
Canada		34	45, 241	75		29,698
Central America			204		1, 224	253
Mexico	312	602	909	1,019	6,001	6,984
Argentina		12,000		31,750	23	61,499
Brazil				11,800		34, 351
Chile	14		75		7,021	
Colombia	62		185		1,489	1,001
Ecuador	137		239		2, 247	
Peru	80		311		2, 266	
Uruguay		3,000		6,000		2,000
Venezuela	19	1, 200	56	1,900		1,530
Australia	l	-, -00			21,920	-,000
British India		67		1,408		2,974
British Malaya		81		238		3,064
China and Hong						0,001
Kong		1,014		2,045	1,674	7, 166
Dutch East Indies	111	-, 011	215	230		1, 960
Japan		62	210	62		21
Philippine Islands	68	52	190	0.2	1,667	21
All other countries	5, 302	5	5, 375	20		6, 141
Omoi Countillos	0,002		0,010	20	000	0, 141
Total	14, 686	25, 776	53, 005	77, 862	207, 535	201, 455

MOVEMENTS TO AND FROM GREAT BRITAIN

	19	28		19	27	
Country of origin or destination	Febr	uary		iary- uary	Calend	ar year
	Imports	Exports	Imports	Exports	Imports	Exports
France		15, 064		15, 734	627	4,718
Netherlands		226	32	4, 943	2, 313	6,486
Russia	. 88		5, 483		1,049	7,732
Spain and Canaries.		81		106		7, 445
Switzerland		762		1,780		6, 213
United States			15		8, 567	28,042
South America			3		2,017	6, 959
British India		1,460		2, 561		12, 462
British Malaya		391		547		3, 452
Egypt		277		279		3, 799
Rhodesia	430		868		5,958	
Transvaal			22, 255		124, 348	
West Africa	399	5	703	5	4,705	20
All other countries	24	991	3, 708	4, 177	8,320	49,680
Total	13, 026	19, 257	33, 067	30, 132	157, 905	137, 008

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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 (pengo)
Par value	14.07	13, 90	19. 30		26.80	486. 65	2. 52	19. 30	23. 82	19. 30	17.49
1927—March August September October November December September March March March March	14. 0629 14. 0816 14. 0820 14. 0874 14. 0946 14. 0936 14. 0823	13. 9000 13. 9107 13. 9220 13. 9260 13. 9467 13. 9885 13. 9444 13. 9232 13. 9387	.7246 .7230 .7246 .7229 .7230 .7235 .7234 .7214	2. 9616 2. 9627 2. 9626 2. 9627 2. 9629 2. 9630 2. 9628 2. 9625 2. 9622	26. 6456 26. 7785 26. 7680 26. 7932 26. 7988 26. 8192 26. 7829 26. 7733 26. 7912	485. 4025 486. 0233 486. 3528 486. 9676 487. 4012 488. 2542 487. 5330 487. 4840 487. 9944	2. 5205 2. 5189 2. 5189 2. 5187 2. 5191 2. 5191 2. 5187 2. 5179 2. 5176	3. 9126 3. 9193 3. 9200 3. 9236 3. 9288 3. 9396 3. 9308 3. 9304 3. 9343	23. 7137 23. 7859 23. 8004 23. 8624 23. 8629 23. 8904 23. 8264 23. 8577 23. 9047	1. 2898 1. 3083 1. 3243 1. 3262 1. 3242 1. 3294 1. 3255 1. 3229 1. 3237	17. 507- 17. 436: 17. 468- 17. 462- 17. 465- 17. 477- 17. 474- 17. 466- 17. 468
	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	19. 30	514. 60	19. 30	26.80	19.30	19. 30
1927—March	5. 4396 5. 4432 5. 4616 5. 4458 5. 3800 5. 2881 5. 2930	40. 0137 40. 0719 40. 0776 40. 1920 40. 3612 40. 4381 40. 2550 40. 2501	26. 0474 25. 9374 26. 3620 26. 3404 26. 4871 26. 6169 26. 5985 26. 6098 26. 6634	11. 3703 11. 2240 11. 2168 11. 2096 11. 2063 11. 2204 11. 2402 11. 2312 11. 2255	5. 1170 4. 9574 4. 9288 4. 9456 4. 9396 4. 9550 4. 9285 4. 7573 4. 2572	.6128 .6163 .6181 .6193 .6155 .6188 .6177 .6145	3 515. 0000 3 515. 0000	17. 4088 16. 9000 17. 1504 17. 2540 16. 9400 16. 6623 17. 0975 16. 9782 16. 8212	26. 7452 26. 8203 26. 8752 26. 9236 26. 9246 27. 0015 26. 8780 26. 8371 26. 8388	19. 2359 19. 2759 19. 2816 19. 2868 19. 2850 19. 3150 19. 2695 19. 2389 19. 2561	1. 7596 1. 7596 1. 7606 1. 7607 1. 7616 1. 7616 1. 7596 1. 7596
	NO	ORTH AMER	CA				SOUTH	AMERICA			-
	Canada (dollar)	Cuba (peso)	Mexico (peso)	Argentina (peso-gold)	Bolivia ² (boliviano)	Brazil (milreis)	Chile (peso)	Colombia ² (peso)	Ecuador s (sucre)	Peru i (libra)	Uruguay (peso)
Par value	100.00	100.00	49. 85	96. 48	38. 93	32. 44	12. 17	97. 33	20.00	486.65	103. 42
1927—March	100. 0497 100. 1099 100. 1369 99. 8974 99. 8159 99. 8126	100. 0265 100. 0073 99. 9524 99. 9387 99. 9154 99. 9157 100. 0428 100. 0644	47. 0084 47. 3931 47. 7219 47. 6667 47. 9125 48. 4506 48. 6946 48. 6710 48. 7436	95. 9811 96. 8448 97. 1248 97. 1572 97. 0521 97. 2304 97. 1136 97. 1376 97. 2547	34. 0000 34. 7546 34. 8000 34. 8000 34. 8000 34. 8000 34. 8000 34. 8000 34. 8000	11. 8452 11. 8237 11. 8596 11. 9172 11. 9333 11. 9677 11. 9977 12. 0088 12. 0265	12. 0041 12. 0292 12. 0736 12. 1712 12. 1763 12. 2062 12. 2098 12. 2065 12. 2115	97. 5663 98. 2798 97. 9872 97. 4736 97. 4950 97. 7381 98. 0036 98. 0400 97. 7944	18. 3125 19. 3750 19. 3750 19. 3750 19. 3750 19. 3750 19. 3750 19. 5870 19. 9537	366. 5926 374. 9626 388. 5600 384. 1600 376. 1458 389. 8500 390. 3400 390. 1600 391. 0925	101. 2763 100. 138 100. 405; 101. 879 103. 3659 103. 869; 102. 773- 102. 935; 103. 677.
	SOUTH AMERICA— continued					ASIA					AFRICA
	Vene- zuela ² (bolivar)	China (Mexican dollar)	China (Shanghai tael)	China (Yuan dollar)	Hong Kong 4 (dollar)	India (rupee)	Japan (yen)	Java ; (florin)	Straits Settle- ments (Singapore dollar)	Turkey (Turkish pound)	Egypt (Egyptian pound)
Par value	19. 30	48. 11	66. 85	47. 50	47. 77	36. 50	49.85	40. 20	56. 78	439. 65	494. 31
1927—March	19, 1700 19, 1700 19, 1700 19, 1700 19, 1700 19, 1943	44, 1341 43, 3807 43, 9572 44, 7376 45, 5958 45, 9092 45, 7410 45, 3620 45, 6106	60. 5048 60. 3781 61. 2068 61. 8328 63. 2663 63. 7884 63. 7548 63. 1137 63. 0545	42. 8956 42. 6259 43. 2164 44. 0600 44. 8638 45. 1877 45. 1408 44. 9818 45. 3688	48. 6855 48. 1600 48. 4980 48. 8552 49. 7917 50. 3085 50. 4096 49. 8564 49. 8008	36. 3004 36. 1252 36. 3356 36. 4992 36. 4504 36. 7369 36. 7224 36. 5189 36. 5280	49. 1411 47. 3322 46. 8248 46. 5664 45. 9796 46. 1881 46. 8784 46. 8740 47. 1463	40. 1702 40. 1740 40. 1675 40. 2618 40. 4090 40. 5319 40. 5596 40. 5243 40. 3498	55. 9556 55. 9711 55. 9908 56. 0332 56. 7269 56. 7269 56. 7650 56. 7038 56. 3469	50. 3122 49. 9774 50. 9640 52. 9624 52. 4871 51. 7846 51. 5040 50. 4843	497, 667/ 498, 284- 499, 290/ 499, 688/ 500, 571/ 499, 831/ 499, 751

¹ 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 pursuance of the provisions of sec. 522 of the tariff act of 1921. For back figures see Bulletin for January, 1923, pp. 56-62.

2 Averages based on daily quotations of closing rates as published by New York Journal of Commerce.

Nominal.

4 Silver currency. Parity represents gold value of unit in 1913 computed by multiplying silver content of unit by New York average price of silver for 1913. This average price was \$0.61241 per fine ounce, which compares with an average price of \$0.57557 for March, 1928, \$0.57328 for February, 1928, and \$0.55620 for March, 1927. The corresponding London prices (converted at average rate of exchange) were \$0.57875, \$0.57522, and \$0.56096.

PRICE MOVEMENTS IN PRINCIPAL COUNTRIES

WHOLESALE PRICES

ALL COMMODITIES

								EUR	OPE						
Month	United States (Bureau	Aus-					Eng-	Fin-	Fre	nce	Ger-	Hun-			
	of Labor Statis- ties) 1	tria (gold basis)	Bel- gium	Bul- garia	Czecho- slo- vakia ²	Den- mark 3	land (Board of Trade)	land (gold basis)	Statis- tical Bureau	Treser ve	(Fed- eral Statisti- cal Bu- reau)	gary (gold basis)	Italy 1 (Bachi)	Nether- lands	Nor- way (Oslo
1926															
lugust	99 100	126 123	836 859	2, 759 2, 723 2, 716 2, 739 2, 718	962 973	162 162	149 151	143 143	770 787	691 691	134 135	122 122	633 622	140 140	1
October	99	125	856	2,716	972	178	152	143	752	695	136	125	597	143	1
lovember	98	128	865	2,739	978	170	152	143	684	662	137	127	594	147	1
December	98	127	860	2,718	978	158	146	144	627	592	137	126	574	146	1
₹ 1927 anuary	97	130	856	2, 706	979	157	144	144	622	591	136	127	558	146	1
ebruary Larch	96 95	130 133	854 858	2, 688 2, 649	975 976	156 153	143 141	144 143	632 641	595 600	136 135	129 128	556 545	145 144	
pril		135	846	2, 592	970	152	141	143	636	610	135	130	521	143	1
ſау	94	137	848	2, 592 2, 751	988	152	141	142	629	618	137	133	496	146	
ineily.	94 94	142 140	851 845	2, 823 2, 775	990 992	152 152	142 141	144 144	623 617	605 590	138 138	133 133	473 467	148 150	
ugust		133	850	2, 745 2, 736	983	153	141	147	618	578	138	134	465	149	:
ugusteptember	97	130	837	2, 736	975	153	142	148	601	574	140	133	465	150	
ctober	97 97	129 127	839 838	2,747	966 967	154 154	141 141	148 149	587 595	554 545	140 140	133 133	468 466	150 152	
ecember		127	841		975	154	140	148	604	567	140	135	463	152	
1928	96	100	851	0.700	982	150	141	144	007		139	105	463	154	
anuary ebruary	96	129 128	848	2, 782	982	153	141 140	144 143	607 609	569 569	139	135	461	154 151	
farch															
		EURO	PE-conf	inued	<u></u>					ASIA AND	OCBANI	<u> </u>	<u>'</u> -	AFI	RICA
Month	Po-	Russia ¹	Spain	Sweden	Switzer- land ³	Canada	Peru	Aus- tralia	China (Shang-	Dutch East	India (Cal-	Japan (To-	New Zea-	Egypt (Cairo)	Sout
	iand.				lanu.			LIAIIB	hai)	Indies	cutta)	kyo)	land	(Сапо)	AIRIC
1926															
ugusteptember	188 190	182 180	180 178	147 146	146 146	154 153	204 202	162 158	161 164	155 156	147 146	177 175	154 153	129 129	
ctober	192	179	179	148	145	151	202	154	171	158	144	174	153	129	
ovemberecember	193 195	178 178	185 186	148 150	147 148	152	198 199	155 155	174 172	157	146	171	151	130 130	
	195	110	130	150	140	151	199	199	172	156	146	170	153	130	
1927 muary	195	177	184	146	147	151	200	154	173	156	146	170	151	126	
ebruary	197	179	180	146	145	150	204	153	172	156	148	171	147	124	
larchpril	200 206	179 177	179 177	145 143	147 147	149 149	206 201	150 151	175 173	154 154	146 145	171 170	- 147 147	124 122	
av	208	175	172	145	147	152	207	152	171	155	146	171	145	124	
nely	206	174	171	146	147	154	206	155	169	155	149	173	146	123	
ugust	207 207	173 171	168 168	146 146	147 147	152 152	205 204	161 165	171 171	153 154	150 151	170 167	148 146	118 117	}
	206	170	169	148	148	151	205	170	172	153	150	169	146	120	
ptember	206	170	169	147	148	152	200	173	169	152	147	170	146	118	
optember ctober		170	168	148 148	149 150	152 152	200 199	166 162	166 164	151	148 148	168 168	147 148	115 114	
ptember ctober ovember	208 205	170	169	140											
optember ctoberovember	205	170				}			1						
ctober covember ovember 1928 anuary	205	170	169	148		151	199	163	163		145	169	150	114	
eptember ctober ovember	205	170				151 151	199 195 193	163 160	163 164		145 144	169 169	150	114 114	

¹ New index—1926=100.

Note.—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, viz, France, Netherlands, Japan, New Zealand, and South Africa, they have been recomputed from original bases (1901-1910; 1910-1910; 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 769-770 of the November, 1927, Bulletin.

First of month figures.

New index.

WHOLESALE PRICES—Continued

GROUPS OF COMMODITIES

[Pre-war=100]

ENGLAND-BOARD	\mathbf{or}	TRADI
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	19	28		19	27	
	Feb- ruary	Jan- uary	De- cem- ber	No- vem- ber	Octo- ber	Feb- ruary
All commodities	140	141	140	141	141	143
Total food	152	153	151	152	153	152
Cereals	151	152	151	152	156	149
Meat and fish	136	144	140	138	138	141
Other foods	167	164	161	166	164	166
Industrial products	134	134	135	135	136	137
Iron and steel	113	113	114	114	115	127
Other minerals and						
metals	112	113	114	114	113	134
Cotton	157	158	161	167	172	137
Other textiles	167	164	162	161	159	152
Miscellaneous	146	147	146	144	144	142

FRANCE-STATISTICAL BUREAU

	- 1					
All commodities	609	607	604	595	587	632
All foods	577	568	564	543	530	630
Animal foods	548	534	546	505	486	583
Vegetable foods	575	575	558	551	547	641
Sugar, coffee, cocoa	624	611	604	594	577	689
All industrial material	636	639	636	636	633	634
Minerals	517	531	540	535	530	621
Textiles	796	777	756	773	790	696
Sundries	637	643	644	638	625	619
					- 1	

GERMANY-FEDERAL STATISTICAL BUREAU

All commodities	138	139	140	140	140	136
Total agricultural products	130	132	136	137	138	139
Vegetable foods	141	145	144	142	144	156
Cattle	103	102	105	109	115	111
Animal products	143	147	158	163	154	147
Fodder	141	141	141	142	142	144
Provisions	130	130	130	132	131	128
Total industrial raw mate-						
rials and semi-finished					l	
products	134	134	134	134	134	129
Coal	131	131	131	131	131	135
Iron	127	126	125	124	124	125
Nonferrous metals	104	106	107	105	104	109
Textiles	1.59	159	159	162	163	141
Hides and leather	160	167	161	153	145	122
Chemicals	126	126	124	124	124	125
Artificial fertilizers	82	82	81	80	83	87
Technical oils and fats.	113	115	119	120	121	133
Rubber	40	48	50	46	42	47
Paper materials and			,			
paper	150	152	152	152	151	149
Building material	158	158	158	161	162	151
Total industrial finished		1				
products	157	156	156	155	153	142
Producers' goods	135	134	134	132	131	129
Consumers' goods	173	173	172	172	169	151
						1

SWITZERLAND 1-DR. J. LORENZ

All commodities Consumers' goods	150	149	148	145
	162	160	159	157
	128	126	124	118
	143	144	145	142

^{1 1}st-of-month figures.

ITALY-CHAMBER OF COMMERCE OF MILAN

	19	28	1927							
	Feb- ruary	Jan- uary	De- cem- ber	No- vem- ber	Octo- ber	Feb- ruary				
All commodities	489	490	483	484	484	601				
Total food	548	540	525	525	520	643				
Vegetable foods	579	569	550	549	541	681				
Animal foods	509	505	493	496	495	596				
All industrial products	466	470	466	468	470	584				
Textiles	437	439	434	441	447	551				
Chemicals	450	451	445	446	450	552				
Minerals and metals	426	433	435	441	447	593				
Building materials Other vegetable prod-	522	531	532	535	537	653				
ucts	509	511	503	495	474	603				
Sundries	566	574	563	553	548	618				

SWEDEN-BOARD OF TRADE

			1			
All commodities	147	148	148	148	347	146
Vegetable products	142	143	142	141	144	147
Animal products	137	137	142	146	143	136
Fuels and oils	112	116	113	113	114	125
Raw materials for manu-						
facture in iron and metal				- 1		
industry	112	114	115	115	115	122
Paper pulp and paper	160	160	157	157	157	166
	100	100	101	101	197	100
Raw materials for manu-		1			ļ	
facture in leather indus-	1					
try	146	149	144	140	135	120
Raw and manufactured	1		t	į.	Į.	
chemicals	165	166	166	166	167	170
Raw materials	142	143	142	142	140	138
Semifinished materials	149	150	150	149	149	146
Finished materials	149	149	149	150	150	151
	138	138	137	137	137	135
Producers' goods						
Consumers' goods	156	156	156	156	156	155
1	J	1		- 1		

AUSTRALIA-BUREAU OF CENSUS AND STATISTICS

All commodities	160	163	162	166	173	153
Metals and coal	175	176	175	176	176	180
Textiles	170	169	167	168	164	138
Agricultural products	166	174	176	180	195	170
Dairy products	140	143	145	147	153	145
Groceries and tobacco	166	168	169	169	168	165
Meat	136	136	128	148	168	105
Building materials	157	156	148	141	143	147
Chemicals	190	186	186	186	. 186	180
The state of the s					1 1	

INDIA (CALCUTTA)-DEPARTMENT OF STATISTICS

	1928			1927		
	Jan- uary	De- cem- ber	No- vem- ber	Octo- ber	Sep- tem- ber	Jan- uary
All commodities	145	148	148	147	150	146
Cereals	135	137	139	133	136	143
Pulses	149	155	154	155	155	155
Tea	175	185	192	180	181	140
Other foods	165	166	167	172	170	165
Oil seeds	139	141	138	142	145	141
Raw jute	89	91	86	87	92	93
Jute manufactures	143	151	146	146	156	139
Raw cotton	170	170	180	180	201	127
Cotton manufactures	158	157	158	161	163	156
Other textiles	131	123	127	127	123	122
Hides and skins	153	152	141	121	109	117
Metals	125	127	126	129	133	138
Other articles	136	149	148	148	152	149

RETAIL FOOD PRICES AND COST OF LIVING

RETAIL FOOD PRICES

[Pre-war = 100]

	T7-44-4						EUR	PEAN C	OUNTE	IES							OTHE	COUN	TRIES	3
Month	United States (51 cit- ies)	Aus- tria (Vi- enna)	Bel- gium i	Bul- garia	Czecho- slovakia			France (París)		Greece (Ath- ens)	Italy (Mi- lan)	Neth- er- lands	Nor- way	Rus-	Swit- zer- land	Can- ada 3	Aus- tra- lia	(Bom-	New Zea- land	South
1926 August September. October November. December.	153 156 157 158 159	117 116 117 117 118	187 184 194 204 206	2, 637 2, 641 2, 597 2, 618 2, 598	878 878 888 902 912	161 162 163 169 169	138 128 127 127 127	587 590 624 628 599	146 145 145 148 150	1, 871 1, 890 1, 933 1, 986 1, 973	660 652 654 630 631	146 145 146 147 146	196 193 191 186 184	234 231 230 234 235	157 158 160 159 159	150 147 147 148 151	157 155 153 155 158	153 152 153 152 154	149 148 147 146 149	117 117 120 119 117
1927 January February March April May June July August September October November December	156 153 151 151 152 155 150 149 151 153 153	119 119 118 119 119 122 122 120 126 127 126 128	207 210 201 200 196 201 205 202 206 210 211 212	2, 586 2, 569 2, 533 2, 478 2, 630 2, 653 2, 653 2, 625 2, 615 2, 626	914 915 923 930 949 962 914 910 907 905 913	167 164 162 154 154 159 156 157 161 163 163	131 132 129 130 130 131 134 130 122 123 124 124	592 585 581 580 589 589 557 539 532 520 500 523	151 152 151 150 151 153 156 150 151 152 152	2, 002 1, 995 1, 997 2, 021 2, 063 2, 063 2, 059 2, 044 2, 070 2, 071 2, 086 2, 101	625 642 635 617 565 541 524 518 509 509 510 513	147 146 146 145 145 144 143 143 143 146 148	180 177 173 169 169 172 175 175 174 173 171	208 208 205 203 201 199 199 198 198 198 199 200	158 157 156 156 156 157 157 157 158 158 161 160	153 151 149 146 145 147 147 147 147 148 149	158 153 151 151 152 153 152 155 157 159 157	155 152 152 151 150 151 154 155 151 148 147	148 146 146 145 145 144 144 143 143 143 144 146	116 117 118 119 121 120 119 118 117 119
1928 January February March	152 149	129	211 207		913	162 159 155		530	152 151 151	2, 127		148 149	170 170	201 202 203	159	151 149	154 152	151 146 142	146	117 115

COST OF LIVING

[Pre-war=100]

	Mas-						EUF	ROPEAN	COUNT	RIES							от	HER C	OUNTR	IES
Month	sa- chu- setts		Czecho- slovakia		Fin- land	France (Paris)		Greece (Ath- ens)	Hun- gary	Italy (Mi- lan)	Neth- er- lands	1401-	Po- land	Spain	Swe- den	Swit- zer- land	Can- ada ²	Aus- tra- lia	India (Bom- bay)	South Africa
1926 August September. October November. December.	158 158 158 159 159	175 174 184 191 195	728 727 732 740 741	170 172 174 179 179	1, 213 1, 203 1, 197 1, 193 1, 197	539	143 142 142 144 144	1, 818 1, 833 1, 862 1, 895 1, 889	116 114 114 116 116	652 647 672 657 657	164	217	182 189 193 197 199	178 187 190 191 193	171	159 159 160 159 159	150 149 149 150 151	158	155 155 155 154 156	130 130 131 131 129
January February March March March June June April May Cotober November December	158 157 156 156 157 156 155 155 155 155 157	198 200 195 195 193 196 199 198 202 207 208 208	747 746 744 749 756 761 753 739 736 734 735 740	175 172 171 165 164 163 166 164 165 167 169	1, 187 1, 189 1, 183 1, 173 1, 166 1, 184 1, 203 1, 237 1, 230 1, 237 1, 243	524 525 507 498	145 145 146 147 148 150 147 147 150 151	1, 900 1, 896 1, 898 1, 911 1, 938 1, 951 1, 960 1, 955 1, 956 1, 964 1, 978	119 120 119 119 121 119 119 119 120 120	655 667 663 651 612 586 548 543 537 536 536	166 	203 201 197	202 201 200 203 205 205 199 201 202 205 210 205	196 190 194 196 179 179 189 221 226 227 225 229	171 170 169	160 160 159 158 159 160 160 161 161 162 162	152 151 150 148 148 149 149 149 150 150	156	156 155 153 153 152 154 156 157 154 151 150	130 130 131 131 132 132 132 131 131 132 132
1928 January February March	157 156	210 207	741	168 166 164	1, 216 1, 206		151 151 151	1, 986	121				207 204	178	171	161	151 150		154 148 145	132

^{&#}x27; 1921≈100. The cost of living index for Belgium has been changed from an average of 7 provinces, on April, 1914, base, to a workingman's budget in 59 cities, on a 1921 base.

First of the month figures.

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, 1926, issue of the Bulletin.

LAW DEPARTMENT

Amendment to law regarding interlocking bank directorates.

There is published below the text of an act of Congress approved March 9, 1928, amending section 8 of the Clayton Antitrust Act in such a manner as to broaden the power of the Federal Reserve Board to grant permits for interlocking directorates between banks in the classes affected by that section. Previous to this amendment the board could grant such permits only (1) if the banks were not in substantial competition, and (2) if a member bank of the Federal reserve system was involved. Under the amendment the board is authorized to grant such permits if in the judgment of the board the issuance of such a permit is not incompatible with the public interest, and such permits may be granted even though no member bank of the Federal reserve system is involved. As heretofore, the Federal Reserve Board is authorized to grant permits to serve not more than three banks in the prohibited classes.

An Act To amend section 8 of the Act entitled "An Act to supplement existing laws against unlawful restraints and monopolies, and for other purposes," approved October 15, 1914, as amended.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the last proviso of the second paragraph of section 8 of the Act entitled "An Act to supplement existing laws against unlawful restraints and monopolies, and for other purposes," found in title 15, chapter 1, section 19, United States Code, approved October 15, 1914, as amended, is amended to read as follows:

"And provided further, That nothing in this Act shall prohibit any private banker from being an officer, director, or employee of not more than two banks, banking associations, or trust companies, or prohibit any officer, director, or employee of any bank, banking association, or trust company, or any class A director of a Federal reserve bank, from being an officer, director, or employee of not more than two other banks, banking associations, or trust companies, whether organized under the laws of the United States or any State, if in any such case there is in force a permit therefor issued by the Federal Reserve Board; and the Federal Reserve Board is authorized to issue such permit if in its judgment it is not incompatible with the public interest,

and to revoke any such permit whenever it finds, after reasonable notice and opportunity to be heard, that the public interest requires its revocation."

Approved, March 9, 1928.

Revision of board's regulations regarding interlocking bank directorates.

The Federal Reserve Board has revised its Regulation L on the subject of interlocking bank directorates under the Clayton Act so as to conform to the change in the law made by the amendment of March 9, 1928, which is set out above. The text of the board's Regulation L as revised is as follows:

REGULATION L, SECOND SERIES OF 1928

(Superseding Regulation L of 1928)

INTERLOCKING BANK DIRECTORATES UNDER THE CLAYTON ACT

SECTION I .- Definitions

Within the meaning of this regulation—

The term "bank" shall include any bank, banking association, or trust company organized or operating under the laws of the United States or of any State thereof.

The term "national bank" shall be construed to apply not only to national banking associations but also to banks, banking associations, and trust companies organized or operating under the laws of the United States, including all banks and trust companies doing business in the District of Columbia, regardless of the sources of their charters.

The term "resources" shall be construed to mean an amount equal to the sum of the deposits, capital, surplus, and undivided profits.

The term "State bank" shall include any bank, banking association, or trust company incorporated under State law.

The term "private banker" shall apply to any unincorporated individual engaging in one or more phases of the banking business as that term is generally understood and to any member of an unincorporated firm engaging in such business.

The term "Edge corporation" shall mean any corporation organized under the provisions of section 25 (a) of the Federal reserve act, as amended.

The term "city of over 200,000 inhabitants" includes any city, incorporated town, or village of more than 200,000 inhabitants, as shown by the last preceding

decennial census of the United States. Any bank located anywhere within the corporate limits of such city is located in a city of over 200,000 inhabitants within the meaning of the Clayton Act, even though it is located in a suburb or an outlying district at some distance from the principal part of the city.

SECTION II.—Prohibitions of Clayton Act

Under section 8 of the Clayton Antitrust Act-

- (1) No person who is a director or other officer or employee of a national bank having resources aggregating more than \$5,000,000, can legally serve at the same time as director, officer, or employee of any other national bank, regardless of its location.
- (2) No person who is a director in a State bank or trust company having resources aggregating more than \$5,000,000 or who is a private banker having resources aggregating more than \$5,000,000 can legally serve at the same time as director of any national bank, regardless of its location.
- (3) No person can legally be a director, officer, or employee of a national bank located in a city of more than 200,000 inhabitants who is at the same time a private banker in the same city or a director, officer, or employee of any other bank (State or national) located in the same city, regardless of the size of such bank.

The eligibility of a director, officer, or employee under the foregoing provisions is determined by the average amount of deposits, capital, surplus, and undivided profits as shown in the official statements of such bank, banking association, or trust company filed as provided by law during the fiscal year next preceding the date set for the annual election of directors, and when a director, officer, or employee has been elected or selected in accordance with the provisions of the Clayton Act it is lawful for him to continue as such for one year thereafter under said election or employment.

When any person elected or chosen as a director, officer, or employee of any bank is eligible at the time of his election or selection to act for such bank in such capacity his eligibility to act in such capacity is not affected by reason of any change in the affairs of such bank from whatsoever cause until the expiration of one year from the date of his election or employment.

SECTION III .- Exceptions

The provisions of section 8 of the Clayton Act-

- (1) Do not apply to mutual savings banks not having a capital stock represented by shares.
- (2) Do not prohibit a person from being at the same time a director, officer, or employee of a national bank and not more than one other national bank, State bank, or trust company, where the entire capital stock of one is owned by the stockholders of the other.

- (3) Do not prohibit a person from being at the same time a class A director of a Federal reserve bank and also an officer or director, or both an officer and a director, in one member bank.
- (4) Do not prohibit a person who is serving as director, officer, or employee of a national bank, even though it has resources aggregating over \$5,000,000, from serving at the same time as director, officer, or employee of any number of State banks and trust companies, provided such State institutions are not located in the same city of over 200,000 inhabitants as the national bank and do not have resources aggregating in the case of any one bank more than \$5,000,000.
- (5) Do not prohibit a person from serving at the same time as director, officer, or employee of any number of national banks, provided no two of them are located in the same city of over 200,000 inhabitants and no one of them has resources aggregating over \$5,000,000.
- (6) Do not prohibit a person who is not a director, officer, or employee of any national bank from serving at the same time as officer, director, or employee of any number of State banks or trust companies, regardless of their locations and resources.
- (7) Do not prohibit a person who is an officer or employee but not a director of a State bank from serving as director, officer, or employee of a national bank, even though either or both of such banks have resources aggregating over \$5,000,000, provided both banks are not located in the same city of over 200,000 inhabitants.
- (8) Do not prohibit a person who is an officer or employee but not a director of a national bank from serving at the same time as director, officer, or employee of a State bank, even though either or both of such banks have resources aggregating over \$5,000,000, provided both banks are not located in the same city of over 200,000 inhabitants.
- (9) Do not prohibit a private banker or an officer, director, or employee of any bank or a class A director of a Federal reserve bank from being at the same time an officer, director, or employee of not more than two other banks within the prohibitions of the Clayton Act, if there is in force a permit therefor issued by the Federal Reserve Board.

Exceptions cumulative.—The above exceptions are cumulative.

Section IV .- Permission of the Federal Reserve Board

(a) In general.—Section 8 of the Clayton Antitrust Act, as amended by the acts of May 15, 1916, May 26, 1920, and March 9, 1928, authorizes the Federal Reserve Board to permit any private banker or any officer, director, or employee of any bank, banking association, or trust company, or any class A director of a Federal reserve bank to serve as director, officer, or employee of not more than two other banks, banking

associations, or trust companies coming within the prohibitions of the Clayton Act, if in the judgment of the Federal Reserve Board it is not incompatible with the public interest.

- (b) When obtained.—Inasmuch as this exception to the prohibitions of the Clayton Act applies only when "there is in force a permit therefor issued by the Federal Reserve Board," it is a violation of the law to serve two or more banks in the prohibited classes before such a permit has been obtained. A permit should be obtained, therefore, before becoming an officer, director, or employee of more than one bank in the prohibited classes. It may be procured before the person applying therefor has been elected as a director or appointed an officer or employee of any bank in the prohibited classes.
- (c) Applications for permission.—A person wishing to obtain a permit from the Federal Reserve Board to serve banks coming within the prohibitions of the Clayton Act should—
- (1) Make formal application on F. R. B. Form 94, or, if a private banker, on F. R. B. Form 94d. Each of these forms is made a part of this regulation.
- (2) Obtain from each of the banks involved a statement on F. R. B. Form 94a, which is made a part of this regulation, showing the character of its business, together with a copy of its last published statement of condition, and, if a private banker, make a statement on F. R. B. Form 94e showing the character of his or his firm's business.
- (3) Forward all these papers to the Federal reserve agent of his district, who will attach his recommendation on F. R. B. Form 94b, which is made a part of this regulation, and forward them in due course to the Federal Reserve Board.
- (d) Compatibility with the public interest.—In determining whether the issuance of such a permit would be compatible with the public interest, the Federal Reserve Board will consider:
- (1) Whether the banks involved are natural competitors:
- (2) Whether their having the same directors, officers, or employees would tend to lessen competiton or to restrict credit; and
- (3) Any other facts having a bearing upon the interest of the public in such banks as affected by their having the same directors, officers, or employees.
- (e) Approval or disapproval.—As soon as an application is acted upon by the board, the applicant will be vised of the action taken.

If the board approves the application, a formal permit to serve on the banks involved will be issued to the applicant.

- (f) Hearing.—If it appears to the board that it would be incompatible with the public interest to grant such permit the board will so notify the applicant and will afford him every opportunity to present any additional facts or arguments bearing on the subject before making any final decision in the case.
- (g) Effect of permits.—A permit once granted continues in force until revoked, and need not be renewed.
- (h) Revocation.—All permits, however, are subject to revocation whenever the Federal Reserve Board, after giving reasonable notice to the persons to whom they were issued and affording them an opportunity to be heard, finds that the public interest requires their revocation.

Section V.—Permits under section 25 of the Federal reserve act

With the approval of the Federal Reserve Board, any director, officer, or employee of a member bank which has invested in the stock of any corporation principally engaged in international or foreign banking or financial operations or banking in a dependency or insular possession of the United States, under the provisions of section 25 of the Federal reserve act, may serve as director, officer, or employee of any such foreign bank or financial corporation.

Applications for approval.—The approval of the Federal Reserve Board for such interlocking directorates may be obtained through an informal application in the form of a letter addressed to the Federal Reserve Board either by the officer, director, or employee involved, or in his behalf by one of the banks which he is serving. Such application should be sent directly to the Federal Reserve Board.

SECTION VI.—Permits to serve Edge corporations

With the approval of the Federal Reserve Board—
(1) Any officer, director, or employee of any member bank may serve at the same time as director, officer, or employee of any Edge corporation in whose capital stock the member bank shall have invested.

(2) Any officer, director, or employee of any Edge corporation may serve at the same time as officer, director, or employee of any other corporation in whose capital stock such Edge corporation shall have invested under the provisions of the Edge Act.

Applications for approval.—Such approval may be obtained through an informal application in the form of a letter addressed to the Federal Reserve Board either by the director, officer, or employee involved, or in his behalf by one of the banks or corporations involved. Such applications should be sent directly to the Federal Reserve Board.

Changes in State Bank Membership

The following list shows the changes affecting State bank membership during the month ended March 21, 1928, on which date 1,267 State institutions were members of the system:

ADMISSIONS

	Capital	Surplus	Total resources
District No. 3			
Wildwood Title & Trust Co., Wildwood, N. J.	\$100,000	\$150,000	\$1, 499, 784
Lansdale Title & Trust Co., Lansdale, Pa	125, 000	37, 500	162, 500
District No. 11			
First State Bank, Wolfe City, Tex District No. 12	25, 000		128, 893
First Security Bank, Pocatello, Idaho	100, 000	50, 000	1, 701, 146

CHANGES

		·	
District No. 2			
East Orange Bank, East Orange, N. J., member. Central Trust Co. of Essex County, East Orange, N. J., nonmember. (Above banks merged into Savings In- vestment & Trust Co., East Orange, N. J., a member.)	\$250, 000 250, 000	\$150, 000 125, 000	\$4, 603, 000 375, 000
District No. 4			İ
West Lafayette Bank Co., West Lafayette, Ohio (reopened) Farmers & Merchants Bank Co., Metamora, Ohio (closed)	100, 000 25, 000	50, 000 9, 000	1, 130, 000 362, 994
District No. 6			
Douglasville Banking Co., Douglasville, Ga. (closed)	75, 000	25,000	567, 208
District No. 7			
Farmers Savings Bank, Lytton, Iowa (closed)	30, 000	8, 500	2 87, 64 8
District No. 9			
Enderlin State Bank, Enderlin, N. Dak. (consolidated with nonmember)	50, 000	3, 500	356, 494
District No. 10			
Farmers State Bank, St. Edward, Nebr. (withdrawal) Bank of Chelsea, Chelsea, Okla. (vol-	25, 000	4, 500	261, 862
untary withdrawal)	50, 000		461, 361
District No. 11			
First State Bank, Rice, Tex. (succeeded by First State Bank, Rice, Tex., non-member)	50, 000	1,000	286, 464
District No. 12			
Security State Bank, Ashton, Idaho (closed)	50, 000		335, 734

Fiduciary Powers Granted to National Banks

During the month ended March 21, 1928, the Federal Reserve Board approved applications of the national banks listed below for permission to exercise one or more of the fiduciary powers named in section 11 (k) of the Federal reserve act as amended, as follows:

(1) Trustee; (2) executor; (3) administrator; (4) registrar of stocks and bonds; (5) guardian of estates; (6) assignee; (7) receiver; (8) committee of estates of lunatics; (9) in any other fiduciary capacity in which State banks, trust companies, or other corporations which come into competition with national banks are permitted to act under the laws of the State in which the national bank is located.

Location	Dis- trict No.	Name of bank	Powers granted
Boston, Mass Orange, Mass Orange, Mass South Norwalk, Conn. Passaic, N. J. Lynbrook, N. Y White Plains, N. Y Berwick, Pa Kennett Square, Pa Philadelphia, Pa Strasburg, Va Woodstock, Ill. Kokomo, Ind Lebanon, Ind Martinsville, Ind Vincennes, Ind Deer Lodge, Mont Superior, Wis. Independence, Mo.	1 2 2 2 2 3 3 3 3 5 7 7 7 7 7 8	Boston National Bank Orange National Bank City National Bank Lincoln National Bank Lynbrook National Bank Peoples National Bank National Bank of City National Bank and Trust Co. First National Bank and Trust Co. First National Bank American National Bank Citizens National Bank Citizens National Bank Citizens National Bank Citizens National Bank Citizens National Bank Citizens National Bank National Bank National Bank Oriemmeree First National Bank National Bank of Commercee First National Bank Sank National Bank Sank Sank Sank Sank Sank Sank Sank S	1 to 9. 5.1 1 to 9. 1 to 9. 1 to 9.

¹ Supplemental.

Changes in National Bank Membership

The Comptroller of the Currency reports the following increases and reductions in the number and capital of national banks during the period from February 25 to March 23, 1928, inclusive:

	Num- ber of banks	Amount of capital
New charters issued	10 0 25	\$1,060,000 0 14,015,000
Aggregate of new charters, banks restored to solvency, and banks increasing capital	35	15 , 075, 000
LiquidationsReducing capital	19	1, 475, 000 50, 000
Total liquidations and reductions of capital	20	1, 525, 000
Consolidation of national banks under act of Nov. 7, 1918. Consolidation of a national bank and a State bank	2	5, 050, 000
under act of Feb. 25, 1927	3	215,000
Total consolidations	5	5, 265, 000
Aggregate increased capital for period		15, 075, 000 1, 525, 000
Net increase		13, 550, 000

¹ Includes 3 increases in capital aggregating \$90,000 incident to consolidations of State banks under act of Feb. 25, 1927.

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]

						Fede	eral Res	erve Bank	:				
	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:								-					
1927—February March	393. 0 424. 5	29. 0 35. 8	91. 2 112. 2	35.7 41.0	38. 9 31. 7	23. 4 22. 1	26. 8 31. 7	78. 5 71. 1	14. 6 14. 4	4.0	9. 3 8. 6	3. 1 3. 2	38. 6 48. 3
April	447.3	23. 2	121. 6	43.7	53. 9	22, 5	34. 1	56. 3	16. 2	6. 1	11.9	4, 4	53. 3
April May June	473.0	37.1	137.8	45.8	43.6	25. 5	34.6	52.7	24.0	6.7	17.3	4.7	43. 1
July	428. 6 454. 0	33. 8 29. 7	91. 9 122. 9	45. 2 46. 8	41.8 35.4	22. 4 21. 8	32. 6 36. 3	63. 9 59. 7	26. 3 29. 8	6. 5 6. 0	16. 5 12. 5	6. 2 7. 4	41. 4 45. 8
August September	409.4	29. 9	118.4	39.6	27.8	19.7	34. 7	40.5	24.7	6.1	9.3	12.7	46. 1
October	422. 2 424. 4	28. 4 33. 3	142. 4 126. 9	38. 2 38. 4	34. 8 43. 7	26, 3 28, 9	31. 1 26. 0	31. 4 36. 5	28.0 21.5	4.4 2.7	10. 7 15. 7	11.0 7.2	35. (43. '
November	415. 2	36. 4	106. 5	38.1	46.8	21, 5	32. 7	46.9	18. 1	2.6	18. 1	8. 4	39.
December	528. 6	40. 2	171. 1	47. 9	58. 6	24.4	36. 1	65.0	19.3	3.0	15. 2	5, 4	42.
1928—January February	465. 3 470. 7	23. 5 45. 2	152. 9 119. 3	44. 4 53. 1	51. 0 50. 8	26. 9 27. 3	29. 3 28. 3	59. 0 50. 9	16. 6 24. 0	3.7 4.0	12. 7 11. 4	4.3 4.1	41. 52.
February March	513. 2	49. 5	130. 0	49. 2	57. 0	27.8	25. 2	67. 9	26. 1	3.3	10.5	3.8	63.
otal deposits:	0.000.5		050.1	100.4	100.0		50.5	000 =	00.0]	01.4	20.0	1-4
1927—February	2, 266. 5 2, 284. 8	149. 1 146. 2	856. 1 878. 3	139. 4 138. 9	183. 0 188. 4	72. 3 70. 5	72. 5 71, 1	329. 7 328. 2	83. 8 82. 8	50. 8 51. 5	91. 4 90. 8	63. 8 63. 2	174. ° 175. °
March	2, 301. 1	148. 4	882. 4	140. 5	188. 1	71. 2	72.8	332. 4	83.8	50. 4	90.8	62. 6	177.
May	2, 326. 8	148.0	908. 2	139. 0	188. 4	72.6	71. 1	339. 0	83. 2	49. 2	89.4	61.6	177.
July	2, 355. 4 2, 339. 5	149. 8 152. 6	941. 9 918. 9	137. 9 138. 0	190. 2 189. 6	71. 7 74. 3	68. 8 68. 5	338. 5 337. 9	82. 4 82. 6	49. 7 50. 6	88. 3 90. 9	59. 8 60. 2	176. : 175. :
August	2, 331. 5	152.0	902. 1	138. 6	192. 1	74.5	67. 5	345. 5	81.6	49.7	91.6	59. 8	176.
September	2, 350. 9	153.4	911.1	140. 9	190. 5	74.6	68.8	344.0	81.6	52.6	90. 2	63.0	180. 2
Vctober	2, 380. 9 2, 430. 0	157. 2 161. 7	921. 3 946. 3	141. 5 142. 3	190. 1 192. 8	74. 7 76. 7	70. 8 70. 4	346. 8 345. 7	84. 7 87. 9	55. 6 57. 8	90. 5 94. 2	66. 4 69. 2	181. 1 184. 9
December		156. 8	959. 1	140. 1	188. 8	75. 1	70. 5	350.0	87. 9	56.4	93. 3	69. 8	188.
1928—January	2, 472. 4	158.4	974. 4	143.8	192. 0	76.0	72.6	355.8	87.6	55. 1	94.3	70.6	191.
February	2, 419. 5 2, 411. 7	154. 1 153. 7	942. 7 948. 8	140. 4 140. 7	192. 2 189. 5	75. 1 72. 9	72. 5 71. 2	349. 7 349. 7	87. 5 84. 5	54. 6 55. 3	95. 0 94. 4	70. 6 68. 5	185. (182. :
March Iember bank reserve bal-	2, 411. /	199, 1	940.0	140.7	109. 0	12.9	11. 2	349.7	04. 0	30.3	04. 1	00. 5	102.
ances:		[ا ا			
1927—February	2, 212. 2 2, 240. 0	144. 5 144. 1	838. 3 856. 6	136. 7 136. 9	179. 9 185. 7	69. 4 68. 9	69. 8 69. 5	324. 6 325. 1	81. 2 81. 4	49. 2 50. 3	89. 1 89. 6	62. 4 62. 2	167. 1 169. 7
April	2, 248. 3	145.6	863. 3	137. 4	184. 7	68.3	69. 4	328. 0	81.6	48.9	89. 0	60. 9	171. 8
May	2, 262. 4	146.2	875.3	136. 1	185. 2	68.8	68.4	335. 1	81. 1	47.7	87.4	59.7	171. 3
June	2, 300. 9 2, 288. 9	147. 9 151. 1	913, 3 894, 8	135. 8 136. 4	187. 2 187. 1	69. 5 71. 6	67. 1	334. 5 333. 9	80. 8 81. 0	48. 5 49. 1	87. 2 88. 8	58. 5 58. 8	170. 3 169. (
August	2, 283. 1	150. 2	880. 9	136. 8	189. 3	72.0	66. 7 65. 6	341. 2	80. 0	48.3	89. 9	58. 3	170.
September	2, 300. 5	151.0	888. 7	138.6	187. 4	72.1	67.6	339.7	80. 1	51.0	88.9	61.7	173.
October	2, 326. 0 2, 373. 0	155.0 157.4	895. 9 922. 5	139. 4 139. 8	187. 4 188. 5	71.8	68. 5 68. 6	343. 0 342. 5	82. 5 85. 3	54. 0 56. 3	88. 8 91. 0	64.8 67.7	174. 9 179. 3
ances: 1927—February	2, 399. 2	155. 1	944. 9	138. 7	186. 3	73.5	69. 3	347. 2	86. 3	55, 2	91. 3	69.0	182.
1928—January	2, 426. 4	155.9	957. 9	141.7	188.9	73.8	70.7	352, 1	86. 1	53.3	92.1	68.8	185.
February	2, 368. 1 2, 365. 0	151. 0 151. 2	924. 4 931. 6	138. 5 138. 6	188. 1 186. 0	72. 4 70. 6	70. 0 69. 4	345. 8 345. 7	85. 0 82. 8	53, 1 53, 9	92. 4 92. 4	69. 3 67. 1	178. 2 175. 8
overnment deposits:	2, 300. 0	101. 2	501.0	100.0	100.0	10.0	05. 4	343.7	02.0	00.5	32. 4	1	
1007 Fohmenses	28. 1	2.9	5. 2	2.1	1.7	2.6	2. 2	3.7	1.5	1, 2	1.6	1.2	2.
Marcn	21. 8 29. 6	1. 4 2. 3	10. 4 7. 8	1. 2 2. 3	.9 1.5	1. 2 2. 5	1. 2 3. 0	1. 3 2. 4	. 8 1. 7	.8 1.1	1.4	1.4	1. : 2. :
May	25.4	1.3	4.7	2.3	1.6	3.4	2. 1	2, 2	1.6	1,1	1.6	1.7	1.3
March April May June July August September October November December	20.7	1.2	5.9	1.4	1.2	1.8	1.4	2.2	1.0	.9	.8	1.1	1.
Angust	17. 4 17. 9	1.0	2. 4 2. 0	. 9 1. 2	1.1	2. 3 2. 2	1. 4 1. 6	2. 1 2. 6	1.1 1.1	1.2 1.1	1.7 1.3	1.0 1.2	1. (1. (
September	20.3	1.4	4. 2	1.6	1.3	2.1	. 9	2.4	1.0	1.3	.9	1.1	2.
October	20.4	1.1	5.4	1.3	.9	2.4	1.6	1.7	1.2	1.0	.9	1.3 1.0	1.
December	12. 8 10. 0	.9	2. 9 2. 2	1.2	.9	1.3 1.0	.8 .7	.9	.6	.7	.6	.5	:
1928-January	19. 4	1.9	2.6	1.4	1.4	1.8	1.5	1.9	1.0	1.3	1.3	1.4	2. (
December 1928—January February March	25. 6 23. 0	2. 0 2. 0	6.8	1.3	2. 2 1. 9	2.3	1. 9	2.3 2.2	1.4 1.2	1. 2 1. 0	1. 4 1. 1	$\begin{array}{c c} 1.0 \\ 1.2 \end{array}$	1. 8 1. 8
ll other deposits:	20.0	2.0	5. 9	1.6	1.8	2. 0	1.5	2.2	1, 2	1.0	1.1	1. 2	1
1927—February	26.1	1.7	12. 5	. 5	1.4	.3	.6	1.4	1.1	.3	.7	.2	5. 2
March	23.0	.7	11.3	.7	1.8	.4	.4	1.8	.6	1.4	.4	.3	4. 1 4. 2
April May	23. 2 39. 0	.6	11.3	.8	1.9 1.6	.4	.4	2.0 1.6	.6	.4	.4	.2	4. 2
June	33. 9	.6	28. 2 22. 7	.6	1.9	.4 .3 .4 .3	.3	1.8	R	.3	.3	.2	4. 1
July	33.1	.7	21.7	.7	1.6	.4	.3 .3 .3	1.8	.6	.3	.3	.4	4. 2 4. 4
August September	30. 5 30. 1	1,0	19. 3 18. 2	. 0	1.7 1.8	. 3	. 3	1.7 1.8	. 5	. 3	4	. 2	4. 4
October	34. 4	1.1	20. 0	.6 .7 .9	1.8	. 5	.7	2.0	.6 .5 .5	.6	.8	.3	4. 8
November	44. 2	3. 4	20.0 20.9	1.4	3.4	1.3	1.0	2.3	1. 7 1. 0	.3 .3 .3 .3 .6 .8	.4 .4 .8 2.6	- 5	4. 8
December 1928—January	26. 8 26. 6	.6	12. 1 13. 9	.8	1. 9 1. 8	.7	.4	2.0 1.8	1.0	.6	1.3	.3	4. 9 4. 7
February	25.8	1. 2	11.5	. 6	1.9	.4	. 6	1, 7	1.0	.4	1.2	.3 .5 .3 .2 .2	5. 0
March	23. 7	.5	11.3	.6	1.6		. 3	1.8	.5	.4	0	- 0	5. 2

FEDERAL RESERVE BANKS-RESOURCES AND LIABILITIES AT THE END OF EACH MONTH

[In millions of dollars]

				и шино	ns or de	maisj				_				
						19	27						19	28
	Janu- ary	Feb- ruary	March	April	Мау	June	July	Au- gust	Sep- tem- ber	Octo- ber	No- vem- ber	De- cem- ber	Janu- ary	Feb- ruary
RESOURCES													•	
Total gold reserves	2, 957 160	2, 976 154	3, 010 157	3, 029 157	2, 982 156	2, 998 158	3, 002 149	2, 998 148	2, 964 131	2, 922 131	2, 805 135	2, 733 134	2, 797 169	2, 808 166
Total reserves Nonreserve cash Federal reserve notes of other Federal	3, 117 70	3, 130 63	3, 168 60	3, 187 56	3, 138 51	3, 156 52	3, 152 51	3, 146 48	3, 095 42	3, 054 52	2, 940 58	2, 867 77	2, 966 85	2, 974 70
reserve banks	19	16	16	18	13	17	19	17	18	22	20	24	20	17
Bills discounted	425	470	451	477	459	443	442	401	437	412	477	582	423	493
Bills bought: OutrightUnder resale agreement	272 49	230 67	185 54	197 41	159 69	181 30	153 19	118 67	174 76	266 76	288 66	310 82	333 46	303 41
Total bills bought	321	296	239	238	228	211	172	185	250	342	355	392	379	344
United States securities: Bought outright Under resale agreement	303 1. 2	305 10.8	317 31. 0	322 4, 5	336 7. 5	367 3. 1	385 7. 5	470 2. 9	487 19. 5	519 2, 9	544 4. 1	560 56. 6	431 6. 1	399
Total United States securitiesOther securities	304 2. 5	316 2.0	348 2. 5	327 1.8	343 1.8	370 1.3	392 1. 3	473	506	522 . 6	548	617	437	408 1.
Total bills and securities	1, 053	1, 084	1,040	1,044	1, 032	1,025	1,008	1, 059	1, 194	1, 276	1, 381	1, 591	1, 240	1, 245
Gold held abroad Due from foreign banks Uncollected items ¹	513 58 12	580 58 14	. 7 599 58 13	. 7 600 59 13	547 59 14	23 28. 8 631 59 14	48.7 550 59 15	12. 2 586 59 18	641 60 13	. 6 595 60 14	672 60 14	714 58 15	577 59 10	598 59 11
Total resources.	4, 842	4, 946	4, 955	4, 976	4, 914	5, 006	4, 903	4, 945	5, 065	5, 072	5, 145	5, 346	4, 957	4,975
LIABILITIES Federal reserve notes in actual circula- tion	1, 704	1, 727	1, 724	1,744	1,748	1, 721	1, 688	1, 676	1,736	1, 734	1,717	1, 790	1, 581	1, 588
Deposits: Member bank—reserve account Government Foreign bank Other deposits	<u> </u>	2, 229 43. 3	2, 237 37. 9	2, 257 22, 8	2, 197 32. 2	2, 249 30. 7	2, 277 25. 1	2, 299 12. 7	2, 293 27. 4	2, 324 21. 2	2, 379 2. 1	2, 487 18. 4	2, 391 19. 9	2, 375 27.
Total deposits	2, 278	2, 296	2, 296	2, 302	2, 262	2, 313	2, 330	2, 341	2, 349	2, 386	2, 413	2, 531	2, 435	2, 426
Deferred availability items	496 126 229 10, 0	557 127 229 10. 9	567 128 229 12, 1	560 129 229 12, 8	533 129 229 13. 8	603 129 229 11. 3	514 130 229 11, 8	555 131 229 13. 2	605 131 229 14. 5	576 131 229 16. 1	638 132 229 17. 5	651 132 233 8, 2	563 134 233 10. 4	580 137 233 11.
Total liabilities	4,842	4, 946	4, 955	4, 976	4, 914	5, 006	4, 903	4, 945	5, 065	5, 072	5, 145	5, 346	4, 957	4, 975
Contingent liability on bills purchased for foreign correspondents	94	93	148	147	160	146	151	166	188	189	186	229	237	239

¹ Exclusive of Federal reserve notes of other Federal reserve banks, which are shown separately.

FEDERAL RESERVE BANKS—AVERAGE DAILY RESERVES AND DEMAND LIABILITIES IN MARCH AND FEBRUARY, 1928 [In thousands of dollars]

Federal reserve bank	Total cas	h reserves	Total d	leposits	Federal res	serve notes lation	Reserve percentage		
	March	February	March	February	March	February	March	February	
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dalias San Francisco	174, 812 1, 026, 295 182, 678 273, 731 93, 538 175, 659 79, 400 83, 171 103, 302 70, 656 228, 980	186, 086 1, 045, 300 170, 774 279, 495 89, 458 169, 171 450, 875 77, 680 80, 891 103, 487 71, 619 246, 932	153, 675 948, 778 140, 742 189, 480 72, 942 71, 203 349, 665 84, 549 55, 308 94, 366 68, 536 182, 470	154, 128 942, 739 140, 367 192, 224 75, 069 72, 537 349, 723 87, 461 54, 608 95, 010 70, 597 185, 019	121, 056 349, 408 127, 469 194, 176 62, 508 142, 976 239, 140 52, 712 56, 340 58, 447 36, 305 151, 078	123, 124 350, 921 124, 984 195, 782 66, 738 141, 445 233, 784 52, 976 55, 998 60, 680 38, 658 151, 953	63. 6 79. 1 68. 1 71. 3 69. 1 82. 0 76. 2 57. 8 74. 5 67. 6 67. 4 68. 6	67. 1 80. 8 64. 4 72. 0 63. 1 79. 1 77. 3 55. 3 73. 1 66. 5 65. 6	
Total	2, 940, 725	2, 971, 768	2, 411, 714	2, 419, 482	1, 591, 615	1, 597, 043	73. 5	74. 0	

FEDERAL RESERVE BANKS—RESOURCES AND LIABILITIES, BY WEEKS

RESOURCES

				,		Fed	eral Res	erve Ban	k				-
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago ·	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
Gold with Federal reserve agents: Mar. 7. Mar. 14. Mar. 21. Mar. 28. Gold redemption fund with United States Treasury: Mar. 7.	1, 345, 440 1, 369, 178 1, 393, 893 1, 331, 263	86, 648 84, 482 82, 025 80, 254	298, 887 298, 813 328, 813 248, 722	98, 826 106, 555 102, 548	159, 128 160, 026 161, 549	44, 656 47, 003	142, 575 135, 451	226, 508	25, 720 26, 802 28, 732 35, 424 2, 968	52, 874 52, 140	51, 736 50, 906 50, 107 2, 008	29, 865 29, 021 1, 152	151, 851 140, 300
Mar. 14 Mar. 21 Mar. 28	48, 560	8, 151 4, 797 5, 869	11, 640 14, 974 13, 494 11, 918	6,042	4, 153 5, 823 3, 585 3, 465	1, 946 2, 266 1, 446	1,877 1,879	3, 282 5, 176	2, 968 3, 333 3, 134 3, 997	2, 059 769 1, 219	2, 528 2, 968	1,325 1,268	2, 937 3, 182 2, 663
Gold held exclusively against Federal reserve notes: Mar. 7	1, 427, 754 1, 442, 453	86, 822	310, 527 313, 787 342, 307 260, 640	99, 444 109, 167 112, 597 111, 502	163, 611	46, 922	140, 001 144, 477 144, 454 137, 533	231, 089 229, 911 231, 742 230, 648	28, 688 30, 135 31, 866 39, 421	53, 933	54, 264 53, 874	31,796 31,133	138, 828 154, 788 143, 482 165, 199
Mar. 7	735, 014 684, 561 714, 989	42, 910 40, 626 52, 744 36, 286	291, 717 297, 027 276, 797 290, 510	39, 212	50, 110 51, 182 39, 844 52, 410	26, 132 22, 248 23, 499 24, 965	6,675	150, 083 157, 038 120, 652 137, 907	25, 797 23, 204 19, 740 18, 433	23, 919 17, 945 15, 790 17, 837	32, 279	20, 796 19, 779 20, 134 20, 101	41, 505 32, 853 37, 195 33, 353
by banks: Mar. 7 Mar. 14 Mar. 21 Mar. 28	625, 649 648, 757	26, 500 26, 524 24, 823 23, 869	416, 001 391, 597 416, 013 432, 382	26, 151	46, 123 44, 937 44, 700 45, 423	9, 712 9, 902 9, 964 10, 067	9,328	54, 133	11, 784 12, 353	5,008	6, 942 6, 768	8, 408 8, 574 8, 663 8, 747	31, 014 30, 853
Total gold reserves: Mar. 7. Mar. 14. Mar. 21. Mar. 28. Reserves other than gold:	2,812,218 2,788,417 2,775,771 2,759,963	162, 762 159, 783 164, 389 146, 278	1, 035, 117	171, 636 165, 068 177, 960 178, 882	248, 155	80, 385	160, 879	435, 918 441, 798 406, 527 421, 731	66, 099 65, 123 63, 959 69, 880	77, 013 74, 441	96, 406 92, 921	60, 149 59, 930	218, 655 211, 530
Mar. 7	163, 442 168, 300 170, 060	15, 392	31, 767 34, 843 34, 766 34, 725	8,772 8,141 8,709 8,488	13, 853 14, 854 15, 382 14, 019	10, 793 10, 635 11, 151 11, 450	15, 039 15, 547	20, 597 20, 787	14, 493 14, 825 14, 541 14, 559	4, 201	7,357 7,573	10, 021 10, 071 10, 216 10, 541	11, 795
Total reserves:	2, 975, 660 2, 956, 717 2, 945, 831 2, 930, 507	177, 963 175, 259 179, 781 161, 828	1, 050, 012 1, 037, 254 1, 069, 883 1, 018, 257	180, 408 173, 209 186, 669 187, 370	274, 301 275, 924 263, 537 276, 866	95, 627 90, 697 91, 536 94, 931	175, 918 176, 004	456, 081 462, 395 427, 314 443, 028	78, 500	81, 474 78, 642	105, 610 103, 763 100, 494 102, 116	70, 220 70, 146	221, 356 230, 656 223, 325 241, 453

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

 ${\bf RESOURCES-} Continued$

						Fede	ral Rese	rve Banl	ς .				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
Nonreserve cash: Mar. 7. Mar. 14. Mar. 21. Mar. 28. Bills discounted: Secured by U. S. Government obligations—	70, 084 70, 013 68, 045 67, 786	6, 585 6, 422 6, 104 5, 499	21, 626 22, 174 21, 426 21, 393	2, 377 2, 369 2, 400 2, 329	5, 077 5, 597 5, 665 4, 918	6, 966 6, 347 6, 069 5, 786		7, 360 6, 924	4, 214 4, 373 4, 168 4, 129	1, 245 1, 408 1, 069 1, 443	2, 158 2, 203	3, 155 3, 406 3, 142 3, 652	4, 366 4, 052 4, 525 4, 402
Mar. 7	289, 784 285, 255 285, 371 322, 034	22, 781 22, 933 23, 864 24, 279	85, 029 82, 837 55, 250 113, 422	27, 876 35, 081 30, 432 29, 484	28, 725 31, 300 30, 955 29, 945	6, 886 6, 730 7, 448 6, 498	4, 257 2, 605 3, 972 2, 422	63, 203	10, 268 10, 123 12, 240 12, 924	236 482 4, 090 2, 533	4, 505	1, 490 539 367 807	59, 789 52, 212 48, 352 42, 893
Mar. 7	192, 324 187, 041 191, 607 202, 062	22, 957 25, 249 22, 149 34, 293	39, 359 28, 199 27, 152 40, 596	16, 281 15, 192	24, 895 19, 888 25, 901 23, 051	17, 489 21, 115 19, 810 19, 114		20, 694 15, 150 20, 554 22, 0 01	14, 508 15, 646 16, 450 10, 841	1, 355 1, 386 1, 351 1, 309	5, 660 6, 557 6, 794 6, 961	1, 952 3, 215 2, 786 3, 508	6, 360 14, 146 15, 107 6, 062
Total bills discounted: Mar. 7. Mar. 14 Mar. 21. Mar. 28 Bills bought in open market: Mar. 7. Mar. 14 Mar. 21 Mar. 22 U.S. Government securities: Bonds—	482, 108 472, 296 476, 978 524, 096	45, 738 48, 182 46, 013 58, 572	124, 388 111, 036 82, 402 154, 018	45,624	56, 856	24, 375 27, 845 27, 258 25, 612	22, 814 22, 333	60, 957 51, 058 83, 757 73, 960	24, 776 25, 769 28, 690 23, 765	1,868 5,441	11,062 11,992	3, 442 3, 754 3, 153 4, 315	66, 149 66, 358 63, 459 48, 955
Mar. 7. Mar. 14. Mar. 21. Mar. 28. U. S. Government securities: Bonds—	338, 495 343, 326 332, 728 346, 103	42, 183 46, 953 43, 641 49, 243	93, 240 100, 815 92, 589 104, 034	30, 596 27, 504	30, 154 28, 691 29, 333 30, 905	14, 726 14, 929 13, 942 12, 851	9, 803 9, 754	41, 508 39, 914 38, 672 39, 033	10, 762 9, 671 8, 120 6, 372	10, 648 13, 767	12, 098 12, 388	13, 677 13, 344	26, 842 25, 531 29, 674 26, 236
O. S. Government securities: Bonds—	57, 047 58, 807 57, 330 55, 711	708 708 767 707	3, 384 4, 384 1, 384 1, 384	585 585	755 505	1, 153 1, 153 1, 153 1, 153	19 62 47	20, 297 21, 517 19, 927	7, 125 7, 125 7, 125 7, 125	4, 519 4, 519 4, 519	11, 390 11, 590 11, 890	7, 815	53 53 54 54
Mar. 7. Mar. 14. Mar. 21. Mar. 28. Certificates of indebtedness—	205, 633 193, 421 171, 767 163, 612	11, 246 10, 319 8, 579 8, 202	38, 678 35, 492 29, 502 26, 847	17, 028 15, 403	36, 200 34, 420	3, 890 3, 570 2, 968 2, 700	4, 777 5, 243	20, 967	16, 916 16, 305 15, 156 14, 648	8, 228 7, 356	9, 972 8, 441	8 204	22, 167 21, 135 19, 195 18, 336
Mar. 7. Mar. 14. Mar. 21. Mar. 28.	140 032	9, 845 10, 482 11, 386 12, 300	33, 856 36, 047 39, 069 41, 783	16, 980 17, 802	12, 472 12, 912	3, 405 3, 626 3, 929 4, 203	4, 974 3, 478	21, 845 22, 914	7, 878 8, 299 7, 495 8, 015	4, 925 5, 243 5, 684 6, 079	9, 652 10, 425	8,418	12,652
Total U. S. Government securities: Mar. 7 Mar. 14 Mar. 21 Mar. 28 Other securities: Mar. 7	1.000	21, 799 21, 509 20, 732 21, 209	75, 918 75, 923 69, 955 70, 014	34, 593 33, 790 33, 806	49, 427 48, 087 47, 856	8, 448 8, 349 8, 050 8, 056	9, 770 8, 783 8, 724	63, 109 61, 731 61, 746	31, 729 29, 776 29, 788	17, 990 17, 559 17, 568	31, 014 30, 456 30, 771	24, 613 24, 441 24, 374	31, 901 31, 920
Mar. 14 Mar. 21 Mar. 28	1,000 500									1,000 500 990			
Total bills and securities: Mar. 7- Mar. 14- Mar. 21- Mar. 28- Due from foreign banks:	1, 224, 315 1, 217, 509 1, 195, 467 1, 257, 021	109, 720 116, 644 110, 386 129, 024	293, 546 287, 774 244, 946 328, 066	106, 918	133, 513 129, 306 134, 276 131, 757	47, 549 51, 123 49, 250 46, 519	42, 387 40, 870	165, 460 154, 081 184, 160 174, 739	67, 169 66, 586	31, 506 37, 267	54, 174 54, 836	42, 044 40, 938	126, 175 124, 750 125, 034 107, 111
Mar. 7	569 570 569 570	37	217 218 217 218	46 46 46	51 51 51	25 25 25	21 21 21	68 68 68	21 21	13 13	18 18	17 17	35
Mar. 14	609, 762 744, 469 676, 209 595, 975		150, 962 204, 314 182, 144 154, 175	61, 844 57, 406 50, 997	68, 717 64, 757 56, 723	58, 377 53, 787 49, 260	29, 491 27, 824 24, 130	90, 545 82, 277 71, 130	34, 239 29, 489	13, 736 12, 750 10, 896	39, 278 36, 080 34, 058	29, 677 26, 855 21, 938	42, 815 39, 100
Mar. 7. Mar. 14. Mar. 21. Mar. 28.	59, 078 59, 265 59, 264 59, 266	3, 824	16, 522 16, 543 16, 543 16, 543	1,756 1,756	6, 865 6, 865	3, 147 3, 148	2, 829 2, 829	8, 646 8, 726 8, 720 8, 720	3, 891 3, 892	2, 202	4, 308 4, 308 4, 308 4, 308	1,800 1,803	3,374

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

RESOURCES-Continued

	! 1	i							····			*****	
						Fed	eral Res	erve Ban	k				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
All other resources: Mar. 7. Mar. 14. Mar. 21. Mar. 28.	11, 548 12, 159 9, 222 9, 826	83 89 84 86	3, 141 3, 551 1, 387 1, 743	281 294 113 117	1, 177 1, 194 1, 095 1, 121	401 409 398 406	1, 431 1, 395 1, 340 1, 485	1, 307	773 775 718 725	1, 009 1, 301 973 970	520 511 486 540	557 564 576 578	816 748 745 772
Total resources: Mar. 7. Mar. 14. Mar. 21. Mar. 28.	4, 951, 016 5, 060, 702 4, 954, 607 4, 920, 951	357, 135 373, 711 363, 956 359, 654	1, 536, 026 1, 571, 828 1, 536, 546 1, 540, 395	346, 636 356, 069 355, 308 343, 709	473, 416 487, 654 476, 246 478, 301	203, 119 210, 125 204, 213 200, 075	255, 844 256, 388 253, 238 250, 950	713, 115 724, 503 710, 770 706, 028	186, 998 190, 416 183, 374 181, 527	135, 520 131, 640 132, 916 131, 101	204, 361 204, 210 198, 425 197, 690	147, 692 147, 728 143, 477 139, 459	391, 154 406, 430 396, 138 392, 062
		<u> </u>		LIA	BILITI	ES							110-14
Tedanal resource notes in air]		-		1		
Federal reserve notes in cir- culation: Mar. 7		119, 223 119, 021 119, 161	342, 668 343, 352	123, 569 125, 495 124, 043 126, 110	194, 174 189, 137	62, 151 60, 692	143, 426 142, 001 142, 291 141, 451	236, 246	52, 886 52, 585 52, 194 52, 115	56, 011 56, 087	58, 396 58, 119	35, 958 35, 812	153, 337 150, 274 148, 430 148, 460
count— Mar. 7. Mar. 14. Mar. 21. Mar. 28.	2, 361, 464 2, 362, 424 2, 322, 237 2, 357, 143	147, 517 155, 337 153, 564 150, 186	919, 622 902, 604 943, 494		184, 436 183, 446 185, 833	71, 855 69, 964 69, 887 69, 072	69, 538 68, 016	340, 607 339, 488	84, 931 82, 000 81, 486	51, 734 53, 125 52, 598	92, 759 94, 440 91, 335 93, 055	67, 792	167, 725 179, 911 173, 086 175, 459
Government—	25, 037 18, 975 14, 863 24, 757	2, 160 28 227 3, 012	7, 515 12, 990 10, 559 2, 432	340 39	1, 950 647 360 3, 560	978 417 586 2, 845			1, 679 979 58 1, 100	448 932	421 289	848 661 297 2, 359	1, 210 772 288 1, 461
Mar. 7	6, 116 4, 305 4, 502 5, 007	323 323 338 338	3, 027 1, 216 1, 271 1, 774	409 409 427 428	447 447 468 468	219 219 229 230	181 189	598 626	185 185 194 194	122	155	151 151 158 158	305 305 318 319
Other deposits: Mar. 7	17, 222 18, 102	81 91 84 98	8, 983 8, 370 9, 099 8, 380	102 168 191 67	951 1, 165 1, 171 1, 203	115 155 72 87	84	1, 108 1, 122	353 267 270 346			65 31 28 28	
Total deposits: Mar. 7. Mar. 14. Mar. 21. Mar. 28. Deferred availability items:	2, 410, 738 2, 402, 926 2, 359, 704 2, 404, 215	150, 081 155, 779 154, 213 153, 634	954, 145 942, 198 923, 533 956, 080	138, 846 137, 346 140, 704 134, 594	186, 695 185, 445	73, 167 70, 755 70, 774 72, 234	70, 704 68, 493	350, 367	86, 170 86, 362 82, 522 83, 126	52, 568	95, 916 92, 510	68, 635 65, 003	174, 311 185, 601 178, 706 181, 941
Deferred availability items: Mar. 7 Mar. 14 Mar. 21 Mar. 28 Capital paid in: Mar. 7 Mar. 14 Mar. 21 Mar. 22 Surplus:	566, 760 701, 004 646, 319 566, 358	58, 202 70, 718	127, 006 178, 242 160, 903 133, 556	48.355	67, 033	47, 714 57, 782 53, 283 48, 123	28, 089 26, 855	68, 775 84, 532 76, 654 71, 997	31, 419 34, 905 32, 087 29, 685	12, 144 11, 459	36, 080 33, 963	29, 426	36, 998 44, 270 42, 633 35, 248
Mar. 7	136, 605 136, 456 136, 642 136, 150	9, 468 9, 586	42, 367 42, 381 42, 413 42, 468	13, 641 13, 690 13, 700 13, 700	14, 224	6, 249 6, 251 6, 251 6, 251	5, 166 5, 166	19, 118 19, 122	5, 340 5, 340 5, 340 5, 340	3, 027 3, 027 3, 021 3, 024	4, 252	4, 304 4, 301 4, 313 4, 311	9, 476 9, 241 9, 254 9, 255
Mar. 7	233, 319 233, 319 233, 319 233, 319	17, 893 17, 893	63, 007 63, 007 63, 007 63, 007	21,662	24, 021 24, 021	12, 324 12, 324 12, 324 12, 324	9, 996 9, 996	32, 778 32, 778	10, 397 10, 397 10, 397 10, 397	7, 039 7, 039	9, 046 9, 046	8, 527 8, 527	16, 629 16, 629 16, 629 16, 629
Mar. 7	12, 224 12, 883 13, 199 13, 857	630 660	3,338	568 627	1, 518	877 862 889 877	432 437	2, 530 2, 603	786 827 834 864		523 535	406 396	403 415 486 529
Total liabilities: Mar. 7. Mar. 14 Mar. 21. Mar. 28.	4, 951, 016 5, 060, 702 4, 954, 607 4, 920, 951	357, 135 373, 711 363, 956 359, 654	1, 536, 026 1, 571, 828 1, 536, 546 1, 540, 395	346, 636 356, 069 355, 308 343, 709	473, 416 487, 654 476, 246 478, 301	203, 119 210, 125 204, 213 200, 075	255, 844 256, 388 253, 238 250, 950	713, 115 724, 503 710, 770 706, 028	186, 998 190, 416 183, 374 181, 527	135, 520 131, 640 132, 916 131, 101	204, 361 204, 210 198, 425 197, 690	147, 692 147, 728 143, 477 139, 459	391, 154 406, 430 396, 138 392, 062

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

LIABILITIES-Continued

[In thousands of dollars]

						Fed	leral Res	erve Bai	ık				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dellas	San Fran- cisco
MEMORANDA													·
Ratio of total reserves to Fed-								ļ					
eral reserve note and deposit						1							
liabilities combined (per										1			
cent): Mar. 7	74. 4	65.7	80.7	68.7	71.3	70.3	80. 7	77.3	58.0	77.6	68.4	66. 8	67. 6
Mar. 14	74.3	63.7	80. 7	65. 9	72.4	68. 2	82. 7	79.0	57.5	75.0	67. 2	67. 1	68. 7
Mar. 21 Mar. 28	75. 1 73. 8	65, 8 59, 3	84. 4 78. 4	70. 5 71. 9	70. 4 72. 3	69. 6 71. 6	83. 5 80. 1	73. 7 76. 4	58. 3 62. 4	71. 2 72. 6	66. 7 67. 0	69. 6 67. 7	68. 3 73. 1
Contingent liability on bills	10.0	00.0	10.1	,	12.0	1	00.1		02.1	.2.0	01.0	0	
purchased for foreign corre- spondents:			,										
Mar. 7	238, 553	17, 911	67,082	22, 688	24, 837	12, 180	10,030	33, 196	10, 269	6, 448	8, 597	8, 359	16, 956
Mar. 14	239, 660	17, 911	68, 189	22,688	24, 837	12, 180	10,030	33, 196	10, 269	6, 448	8, 597	8, 359	16, 956
Mar. 21 Mar. 28	243, 975 243, 009	18, 280 18, 280	68, 975 68, 008	23, 155 23, 155	25, 348 25, 348	12, 429 12, 430	10, 237 10, 237	33, 879 33, 879	10, 481 10, 481	6, 581 6, 581	8,774 8,774	8, 531 8, 531	17, 305 17, 305
Own Federal reserve notes	210,000	20,200	00,000	20, 100	20,010	12, 100	10, 201	00,010	10, 101	0,001	0,	0,001	11,000
held by Federal reserve bank: Mar. 7	397, 750	25, 232	124, 049	26 152	22 246	21, 298	30, 788	43, 151	6 440	5, 035	7, 905	8, 177	56, 267
Mar. 14	396, 684	24, 776	123, 547	36, 153 32, 331	33, 246 30, 966	20, 399	32, 228	43, 714	6, 449 6, 972	5, 730	7, 767	8, 933	59, 321
Mar. 21	400, 104	23, 121	119, 993	35, 512	34, 901	21, 087	31, 343	44, 384	7, 993	5, 629	7, 214	8, 473	60, 454
Mar. 28	387, 208	21, 210	119, 833	31, 638	29, 826	20, 221	31, 169	43, 126	8, 064	5, 528	7,848	8, 685	60, 060

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

			L	ın tnous	ands or (ionarsj							
						Fee	deral Re	serve Ba	nk		•••		
	Total	Boston	New York	Phila- delphia		Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
Federal reserve notes received from comptroller: Mar. 7	2, 866, 160	232, 935	755, 928	187, 017	271, 055	110, 290	235, 804	449, 623	76, 545	81, 024	106, 101	66, 734	293, 104
Mar. 14	2, 840, 840	230, 769 228, 312 226, 541	751, 575 748, 705 747, 099	183, 196 181, 855 177, 848	267, 120 266, 018 262, 841	108, 754 107, 845 106, 691	236, 369 234, 544 234, 820	449, 623 447, 692 443, 530 439, 979	76, 507 77, 897 78, 349	80, 540	105, 173 104, 343 103, 544	66, 273 65, 667 64, 822	301, 584
Federal reserve agent: Mar. 7. Mar. 14. Mar. 21. Mar. 28.	877, 040 879, 465	86, 170	285, 360 285, 360 285, 360 285, 360	27, 295 25, 370 22, 300 20, 100	41,980	26, 204 26, 204	60, 910	167, 700 168, 800 162, 900 158, 700	17, 710	18,824	39, 010 39, 010	21, 382 21, 382 21, 382 21, 382	83, 500 86, 700 92, 700 92, 700
Federal reserve notes issued to Federal reserve bank: Mar. 7	1, 989, 120	146, 165	470, 568	159, 722	229, 075	84, 086	174, 214	281, 923	59, 335	61, 985	67, 091	45, 352	209, 604
Mar. 7. Mar. 14. Mar. 21. Mar. 28. Collateral held as security for Federal reserve notes issued to Federal reserve bank:	1, 970, 798 1, 965, 390 1, 954, 260	143, 999 142, 142 140, 371	466, 215 463, 345 461, 739	157, 826 159, 555 157, 748	225, 140 224, 038 221, 861	82, 550 81, 641 80, 487	173, 634	281, 923 278, 892 280, 630 281, 279	60, 187	61, 741 61, 716	66, 163 65, 333	44, 891 44, 285	209, 595
Gold and gold certificates— Mar. 74 Mar. 14 Mar. 21 Mar. 28 Gold redemption fund—	414, 841 414, 840 414, 140 414, 140	35, 300 35, 300	205, 150 205, 150 205, 150 205, 150		42, 600 42, 600 42, 600 42, 600		20,000		9, 300 9, 300 8, 600 8, 600	14, 167 14, 167		17, 303 17, 303 17, 303 17, 303	40, 000 40, 000 40, 000 40, 000
Mar. 7	90, 736 88, 454 91, 366 99, 152	11, 182	18, 663 18, 663	12, 119	12, 462 11, 528 12, 426 13, 949	2, 481 3, 946 2, 636 6, 483	7, 054 6, 400 4, 575 8, 951	1, 629	1, 920 1, 002 2, 632 1, 324	707	3, 876 3, 046	3, 630 3, 168 2, 562 2, 718	14, 539 14, 234 14, 050 13, 702
Mar. 7 Mar. 14 Mar. 21 Mar. 28	865, 884 888, 387	38, 000 38, 000 28, 000 28, 000	75, 000 105, 000	86, 707 97, 777	105, 000 105, 000	11,000 11,000	111, 000 116, 200 118, 000 106, 500	225,000	14, 500 16, 500 17, 500 25, 500	37, 000 37, 000	47, 860 47, 860	10,000 10,000 10,000 9,000	80, 721 97, 617 86, 250 108, 834
Eligible paper— Mar. 7- Mar. 14. Mar. 21. Mar. 28.	780, 579	89, 654	199, 044 192, 576 160, 750 241, 559	68, 668 71, 890 66, 041 60, 989	82, 971 78, 537 84, 811 82, 618	38, 705 38, 961 37, 771 35, 708	36, 386 31, 756 31, 201 37, 482	102, 333 90, 821 122, 277 112, 849	34, 990 34, 809 36, 170 29, 237	12, 270	24,079	17, 181 16, 992 15, 949 16, 573	92, 803 91, 683 92, 913 74, 449
Total collateral: Mar. 7. Mar. 14. Mar. 21. Mar. 28.	2, 137, 844 2, 147, 530 2, 174, 472 2, 170, 645	174, 569 179, 617 171, 679 188, 069	497, 931 491, 389 489, 563 490, 281	160, 391 170, 716 172, 596 163, 537	243, 033 237, 665 244, 837 244, 167	86, 207 84, 927 82, 427 82, 711	174, 356 173, 776	328, 962 317, 450 348, 843 339, 357	60, 710 61, 611 64, 902 64, 661	63, 857 64, 144 71, 837 69, 00 6	74, 658 74, 985	47, 463 45, 814	228, 063 243, 534 233, 213 236, 985

${\bf MATURITY\ DISTRIBUTION\ OF\ BILLS\ AND\ CERTIFICATES\ OF\ INDEBTEDNESS\ HELD\ BY\ FEDERAL\ RESERVE\ BANKS$

[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:	482, 108 472, 296 476, 978 524, 928 338, 495 343, 326 332, 728 346, 103 140, 659 156, 164 166, 509	405, 499 399, 259 400, 982 442, 096 124, 030 151, 818 167, 981 14, 630 10, 732 460 509		31, 045 31, 442 32, 557 32, 801 92, 079 75, 281 64, 963 58, 788	20, 479 15, 152 16, 911 20, 294 27, 230 30, 661 31, 771 35, 457 5, 820 1, 892	4, 530 5, 619 5, 748 5, 698 3, 236 4, 644 4, 919 5, 901 83, 582 107, 893	

GOLD SETTLEMENT FUND—INTERBANK TRANSACTIONS FROM FEBRUARY 16 TO MARCH 21, 1928, INCLUSIVE

Federal reserve bank	Transfers f ment a	or Govern- ecount	Transit	clearing	Federal res			ownership ough 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	26, 500 27, 000 19, 000 14, 000 34, 500 2, 000 2, 000	3, 000 3, 500 2, 700 1, 000 1, 000	1, 196, 932 4, 162, 878 913, 630 925, 721 855, 454 399, 97 1, 736, 069 683, 395 215, 646 527, 165 399, 321 641, 730	1, 217, 253 4, 083, 844 960, 478 946, 524 869, 432 416, 837 1, 734, 260 675, 110 212, 398 520, 154 396, 920 624, 728	5, 720 10, 089 6, 857 9, 571 2, 824 3, 662 8, 710 2, 282 1, 861 2, 514 1, 740 3, 008	3, 462 18, 392 4, 968 4, 114 3, 973 4, 843 7, 071 3, 443 1, 357 2, 741 1, 836 2, 638	6, 137 11, 654 3, 873 34, 948 5, 624 3, 052 7, 784 4, 805 37, 372	90, 769 20, 459	52, 744 276, 797 39, 212 39, 844 23, 499 6, 674 120, 652 19, 741 15, 790 32, 280 20, 134 37, 195
Total 5 weeks ending— Mar. 21, 1928. Feb. 15, 1928. Mar. 23, 1927. Feb. 16, 1927	26, 500	182, 400 26, 500 193, 500 14, 500	12, 657, 938 12, 616, 160 11, 758, 216 11, 175, 318	12, 657, 938 12, 616, 160 11, 758, 216 11, 175, 318	58, 838 71, 014 54, 253 70, 646	58, 838 71, 014 54, 253 70, 646		115, 249	684, 562 763, 846 608, 962 616, 853

FEDERAL RESERVE BANKS-HOLDINGS OF BILLS DISCOUNTED, BY STATES IN WHICH BORROWING BANKS ARE LOCATED

[End of month figures. In thousands of dollars]

						1927						19	28
State	Febru- ary	March	April	May	June	July	August	Septem- ber	October	Novem- ber	Decem- ber	Janu- ary	Febru- ary
United States	469, 558	451, 183	476, 647	459, 086	443, 450	442, 158	400, 524	437, 425	411, 525	477, 025	581, 503	423, 310	492, 568
New England:										1			
Maine	1, 969	1,781	1, 155	1,319	2, 300	733	951	2, 394	1, 808	1, 473	909	752	71
Maine New Hampshire	1,779	1,644	1, 225	2, 113	2, 231	1,366	927	875	730	636	805	1, 112	1,30
Vermont	1,370	1,530	1, 248	1,041	1,375	1,078	884	783	1, 128	649	558	534	69
Massachusetts	33, 330	40, 281	16, 966	45, 293	35, 360	33, 511	28, 760	25, 520	20, 388	33, 404	24, 314	33,751	49, 91 39
Rhode Island	93	394	30	4, 263	487	1,304	2, 047	1,772	787	552	304	102	3, 26
Connecticut	4,004	5, 088	3, 443	3,005	4, 354	3, 343	4, 439	2, 530	2, 504	3, 096	3, 083	2, 196	3, 20
Middle Atlantic:	120, 431	53, 083	127, 888	72, 497	72 550	76, 794	04 449	104 479	69 170	100 700	000 007	103, 025	69,06
New York			25, 012		73, 559 25, 548	30, 156	84, 443	104, 472	83, 170 22, 225	129, 769 22, 140	266, 687	19, 923	19, 64
New Jersey	22, 226 48, 122	24, 434 80, 587	57, 341	24, 989 77, 521	66, 089	49, 741	24, 924 45, 242	25, 258 51, 733	46, 622	57, 920	19, 150 104, 217	59,006	83, 27
Pennsylvania East North Central:	40, 122	00,001	01,041	77,021	00,003	10, 111	10, 212	01, 100	10,022	31, 520	101, 211	00,000	00, 21
Ohio	15, 860	17, 136	17, 458	15, 633	20, 777	21, 992	13, 485	21, 483	24, 403	15, 868	15, 535	12, 783	34, 40
Indiana	7,890	4, 302	3, 522	4,055	4, 975	5, 189	3, 321	3, 545	3, 577	1,686	2 115	3, 587	6, 20
Illinois	29, 492	51, 134	24, 408	26, 334	18, 996	19,662	9,712	17, 639	25, 266	23, 797	14, 203	15, 356	18, 64
Illinois Michigan Wisconsin	31, 267	20, 585	11, 122	14, 864	24, 644	18, 445	13, 751	10, 691	21, 582	27,696	27, 231	17 884	23, 09
Wisconsin	7, 103	9, 228	9,030	8, 980	11,008	7, 513	4,679	3, 944	4, 132	3, 320	6, 658	2,735	12, 93
west North Central:						''					[1
Minnesota	2,669	3,772	3,754	3, 471	876	1,547	3, 461	1,416	1,033	2, 375	722	2,408	2, 89
Iowa	6, 532	5, 303	6, 280 17, 232	5,810	3, 463	3,509	2, 913	2,888	4, 555	6,870	4,023	4, 586	3, 77
Missouri	9, 621	17, 137	17, 232	23, 104	27, 646	17, 141	17,850	16, 947	9, 913	11, 837	11,475	16, 228	20, 27
North Dakota	826	791	1,082	1, 199	1, 171	1, 554	1,761	830	427	312	319	472	369
South Dakota	929	953	1,037	1,095	1, 262	1, 479	1, 283	794	570	695	640	619	50
Nebraska	3, 252	2, 434	7, 467	6, 745	2, 289	1,674	1,310	1, 697	5, 167	9, 119	4, 705	4, 182	2, 94
Kansas	1, 312	1, 493	2,078	2, 927	2, 314	1, 794	1,338	1,417	3, 639	2, 980	1, 246	1, 199	1,06
South Atlantic:	644	857	813	949	836	646	532	317	711	783	474	620	71
Delaware Maryland	5, 126	2, 545	3, 163	4, 342	8, 629	2,742	1,477	5, 150	5, 547	7, 098	5, 498	11,744	5, 31
District of Columbia	438	1,070	1, 020	704	81	485	1115	1, 315	1.465	500	920	320	0, 01
Virginia	6, 269	5, 167	6, 491	7, 349	5, 278	5,002	7,520	11, 267	11, 289	5,877	11, 894	9, 297	11, 86
West Virginia	2, 317	2, 134	2, 984	2,954	3, 441	2, 281	2,455	3, 227	2, 497	1,631	5, 363	3,367	2,71
North Carolina	4, 586	5, 758	6, 484	7, 447	6, 338	6, 802	2, 455 7, 856	6, 977	5, 293	2, 429	1,998	4,738	7, 60
South Carolina	4, 576	4.612	4, 242	2, 636	2,030	2,800	2,607	1, 529	1, 323	1,671	1, 425	2, 172	2,61
Georgia	4, 461	5, 332	5, 374	5, 505	6, 571	5,882	6, 457	5, 467	4,722	6, 575	3, 582	4,013	5, 22
Florida East South Central:	4, 982	3, 448	2, 441	1, 955	1,817	2,504	3, 445	4, 142	4,406	3, 502	2,619	1,799	1,94
East South Central:			ì				1		1]		1
Kentucky	3, 112	2, 500	4, 231	2, 283	7,799	8, 199	6, 593	9, 575	9, 667	6, 911	6, 663	2, 177	3, 58
Tennessee	5, 537	3, 057	3, 033	3, 633	2, 314	4, 028	5, 276	6, 879	3, 914	3,096	2,845	1,842	2,80
Alabama	5, 507	7, 514	8, 557	7, 139	6, 107	6, 177	5, 310	3, 670	2,830	5, 380	2, 411	4,641	4, 96
Mississippi	1, 573	1, 382	1,869	2, 520	2, 189	3, 045	4, 028	3, 725	1, 945	1, 563	1, 239	1, 225	1, 63
West South Central:	1, 277	1, 283	1 105	1 540	1 250	2, 343	3, 306	4 550	0.220	0.001	010	0.000	2, 01 12, 92
Arkansas	10, 100	12, 146	1, 185 19, 688	1, 542 13, 961	1,353 11,125	20, 169	12,612	4, 550 8, 736	2, 332 11, 156	2,001 21,557	210 16, 620	2, 688 13, 853	12, 92
LouisianaOklahoma	1, 095	1,546	1,787	2,094	2,316	1, 995	2, 583	4, 695	2, 388	1, 245	688	1,325	1, 94
Texas	2,827	3, 130	3, 531	5, 147	5, 481	9, 393	12, 574	4, 767	10, 323	6, 436	848	4, 960	1, 3
Mountain:	2,02.	0, 200	0,002	0,	0, 101	0,000	12,011	2,.01	10,020	0, 100	0.0	2,000	"
Montana	115	165	303	534	604	761	768	393	79	30	21	41	23
Idaho Wyoming	540	604	770	1, 184	1, 217	1,582	1, 328	779	551	351	161	199	
Wyoming	71	48	87	152	192	278	427	230	104		48	48	2, 56
Colorado New Mexico	1, 501	1, 325	1, 702	2, 729	1, 503	3, 568	1, 366	1, 388	1, 938	1, 282	1,018	1,542	12
New Mexico	105	146	144	96	170	258	186	200	99	10		129	18
Arizona	323	175	198	534	240	346	389	325	284	180	190	164	36
Utah	753	541	1, 938	1,719	995	2, 201	1,977	1, 171	952	198	168	255	
Nevada Pacific:													
Washington	2, 304	1, 782	855	2, 116	1, 946	3, 271	2, 421	1, 613	2, 254	1,788	330	1,543	1 101
Oregon	2, 304 4, 957	4, 254	2, 332	1,850	1, 684	1,811	672	492	2, 254 875	1, 788	393	958	1, 31 1, 94
California	44, 385	35, 572	52, 647	29, 754	30, 470	44, 064	38, 763	46, 218	38, 955	38, 490	3,978	45, 210	60, 86
Caminima	11,000	00,012	02,011	20, 104	20, 110	22,002	00,100	70, 210	1 00,000	30, 130	0,010	10, 210	1 00,00

ALL MEMBER BANKS—DEPOSITS, BY SIZE OF CITY, MARCH 7, 1928

		Net d	emands de	posits			Т	ime deposit	s	
Federal reserve district or State	In pla	ces having	a populatio	n of—		In pla	ces having a	a population	ı of—	
	Less than 5,000	5,000 to 15,000	15,000 to 100,000	100,000 and over	Total	Less than 5,000	5,000 to 15,000	15,000 to 100,000	100,000 and over	Total
United States.	1, 689, 669	1, 148, 259	2, 362, 893	13, 902, 990	19, 103, 811	1, 948, 655	1, 315, 611	2, 518, 876	7, 271, 436	13, 054, 578
DISTRICT										
Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis Kansas City Dallas San Francisco	46, 213 206, 629 139, 773 139, 899 95, 009 88, 127 195, 294 102, 597 104, 982 213, 250 210, 675 147, 221	73, 341 124, 256 72, 561 129, 022 69, 302 79, 133 134, 002 73, 873 86, 154 121, 326 107, 243 78, 046	205, 087 318, 938 151, 663 193, 451 172, 653 207, 353 412, 739 98, 151 81, 241 239, 532 137, 085 145, 000	1, 082, 797 6, 352, 701 829, 877 1, 066, 574 246, 435 1, 866, 315 467, 108 189, 594 324, 836 255, 429 944, 090	1, 407, 438 7,002, 524 1, 193, 874 1, 528, 946 614, 198 621, 048 2, 608, 350 741, 729 461, 971 898, 944 710, 432 1, 314, 357	74, 347 399, 524 299, 658 216, 982 154, 645 66, 607 254, 838 93, 947 153, 239 99, 462 21, 105 114, 301	98, 681 205, 810 151, 165 167, 609 101, 630 70, 469 187, 378 60, 286 112, 930 64, 613 32, 593 62, 447	220, 491 543, 680 277, 979 244, 908 169, 345 182, 527 451, 038 89, 286 84, 180 97, 927 57, 402 100, 113	594, 083 1, 790, 222 339, 228 991, 574 176, 675 146, 154 1, 277, 914 298, 300 107, 693 97, 631 82, 719 1, 369, 243	987, 60: 2, 939, 236 1, 068, 036 1, 621, 07: 602, 29; 465, 75: 2, 171, 166 541, 81: 458, 04: 359, 63: 193, 61: 1, 646, 10:
STATE		Í		İ				į		
New England: Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	6,588 11,803 1,011	6, 399 12, 041 8, 284 34, 295	26, 439 16, 919 2, 333 118, 154 3, 494 47, 639	861, 048 126, 270 109, 205	43, 943 37, 400 17, 205 1, 025, 300 130, 775 178, 760	36, 592 6, 606 17, 946 7, 785 6 8, 456	28, 339 6, 979 18, 701 35, 198	44, 257 7, 884 2, 170 128, 268 6, 495 43, 342	381, 478 184, 784 42, 581	109, 188 21, 469 38, 817 552, 729 191, 285 103, 843
Middle Atlantic: New York New Jersey Pennsylvania East North Central:	153, 283 76, 815 163, 315	62, 398 80, 309 108, 289	194, 505 131, 230 206, 518	6,067,791 321,383 1,200,514	6, 477, 977 609, 737 1, 678, 636	293, 792 140, 411 367, 076	125, 998 105, 325 230, 789	330, 893 220, 472 373, 177	1, 538, 735 277, 820 491, 270	2, 289, 418 744, 028 1, 462, 312
Ohio	62, 099 30, 274 91, 846 38, 070 24, 227	63, 295 27, 829 61, 028 44, 890 23, 397	94, 650 85, 736 154, 892 93, 008 63, 926	609, 529 61, 696 1, 310, 053 340, 585 120, 656	829, 573 205, 535 1, 617, 819 516, 553 232, 206	77, 176 30, 182 94, 794 87, 300 50, 506	54, 449 24, 758 70, 398 96, 485 41, 439	102, 746 93, 048 118, 215 148, 497 70, 658	793, 755 23, 633 685, 425 489, 711 69, 313	1, 028, 126 171, 621 968, 832 821, 993 231, 916
Minnesota Lowa Missouri North Dakota South Dakota Nebraska Kansas South Atlantic:	62, 033 24, 374 20, 476	23, 936 22, 889 17, 385 9, 885 12, 173 14, 029 35, 256	31, 853 70, 780 36, 863 6, 364 6, 248 18, 199 51, 894	189, 594 33, 325 512, 480 	282, 128 189, 027 591, 102 36, 725 39, 036 133, 367 146, 795	76, 235 62, 618 16, 430 24, 768 17, 840 24, 973 24, 091	36, 102 26, 319 10, 491 10, 973 9, 638 8, 408 16, 983	31, 267 84, 819 15, 294 6, 463 2, 345 3, 690 15, 732	107, 693 9, 832 235, 537 	251, 297 183, 588 277, 753 42, 204 29, 824 52, 245 59, 964
South Atlantic: Delaware Maryland District of Columbia Virginia West Virginia North Carolina South Carolina Georgia Florida East South Central: Kentucky	16, 729	6, 145 15, 376 9, 755 27, 894 10, 505 13, 184	3, 620 34, 162 48, 437 68, 163 26, 910 45, 401	36, 209 103, 486 82, 745 91, 003	39, 539 129, 980 82, 745 167, 645 89, 439 112, 321 44, 888 130, 051	9, 795 41, 125 53, 631 36, 679 18, 987 10, 129 11, 583	18, 106 25, 442 12, 466 29, 312 16, 623 13, 435	12, 023 41, 754 44, 639 43, 492 39, 208 39, 410	4, 684 77, 536 44, 647 54, 492 	14, 479 148, 790 44, 64' 175, 319 93, 78 91, 79 65, 96
Florida East South Central: Kentucky. Tennessee. Alabama. Mississippi. West South Central:	26, 022 36, 526 19, 707 25, 436 4, 929	19, 609 10, 597 11, 018 22, 339	75, 324 23, 701 36, 032 36, 846 14, 703	78, 406 70, 652 45, 518	123, 534 158, 242 136, 988 118, 818 41, 971	17, 068 32, 925 21, 947 15, 064 3, 049	16, 637 13, 369 7, 993 12, 368 17, 448	71, 569 23, 523 38, 654 22, 130 14, 042	52, 251 53, 202 26, 233	105, 274 122, 064 121, 796 75, 793 34, 533
Louisiana Oklahoma Texas	. 44.412	12, 833 12, 739 37, 826 96, 237	34, 826 23, 046 122, 142 113, 722	117, 814 255, 429	70, 071 159, 397 246, 191 662, 302	15, 808 3, 776 24, 807 16, 906	7, 359 8, 164 15, 779 28, 481	27, 842 9, 051 54, 807 45, 810	54, 445 82, 719	51, 005 75, 436 95, 395 173, 916
Mountain: Montana	14, 198 7, 981 30, 650 8 734	22, 787 11, 514 13, 293 14, 456 8, 147 2, 956 3, 607 4, 268	25, 189 8, 773 15, 402 5, 461 23, 207 5, 149	81, 737	63, 480 34, 485 21, 274 142, 245 22, 342 29, 655 49, 376 8, 219	10, 148 7, 488 5, 353 17, 762 2, 112 1, 975 7, 230 5, 043	17, 598 6, 858 9, 693 11, 373 2, 203 2, 079 4, 517 2, 639	24, 379 7, 892 10, 391 3, 759 11, 135 1, 814	59, 851	52, 12 22, 23 15, 04 99, 37 8, 07 15, 18 33, 19 7, 68
Pacific: WashingtonOregonCalifornia	30, 639 32, 399	14, 888 18, 287 25, 482	26, 887 2, 577 81, 569	116, 768 62, 884 730, 855	189, 182 116, 147 893, 685	27, 542 19, 673 45, 467	9, 032 15, 119 24, 282	24, 514 1, 498 55, 808	72, 382 64, 628 1, 212, 595	133, 47 100, 91 1, 338, 15

WEEKLY REPORTING MEMBER BANKS

REPORTING MEMBER BANKS IN LEADING CITIES

PRINCIPAL RESOURCES AND LIABILITIES BY WEEKS

						Fede	ral Rese	rve Distri	ct				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	At- lanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
Loans and investments—total:													
total: Mar. 7. Mar. 14. Mar. 21. Mar. 28. Loans and discounts—	21, 682, 243 21, 864, 012 21, 924, 746 22, 021, 588	1, 521, 138 1, 554, 782 1, 582, 582 1, 582, 897	8, 249, 171 8, 368, 534 8, 307, 289 8, 428, 656	1, 214, 810 1, 216, 119 1, 222, 226 1, 226, 111	2, 146, 235 2, 142, 623 2, 174, 967 2, 180, 602	685, 479 687, 037 689, 707 688, 403	605, 171 609, 235 618, 862 623, 117	3, 165, 121 3, 173, 688 3, 194, 704 3, 174, 507	723, 515 723, 510 724, 022 719, 552	388, 230		446,600	1, 891, 292 1, 900, 239 1, 906, 328 1, 900, 294
total:	15, 153, 148 15, 325, 701 15, 270, 210 15, 409, 779	1, 052, 632 1, 086, 909 1, 094, 847 1, 096, 583	5, 773, 893 5, 886, 738 5, 839, 795 5, 981, 794	793, 475 800, 350 804, 954 810, 370	1, 436, 453 1, 429, 835 1, 432, 162 1, 430, 846		485, 806 490, 368 488, 879 494, 278	2, 264, 662 2, 277, 222 2, 276, 378 2, 275, 045	506, 897 506, 604 504, 272 499, 380	250, 782 253, 094 254, 237 251, 948	440, 346 443, 485 440, 273 439, 521	336, 391 337, 021 337, 787 336, 509	1, 296, 854 1, 298, 748 1, 284, 684 1, 281, 583
Mar. 14 Mar. 21 Mar. 28	143, 630 122, 235 143, 840	4, 580	62, 606 42, 432		15, 369 15, 004 15, 237	3, 068 3, 158 3, 298	5, 583	25, 038 26, 148 24, 344	4, 224 4, 183 4, 126 4, 081	2, 451	3, 582 3, 540 3, 603 3, 581	3, 440 3, 434	4, 547 4, 478 4, 312 4, 161
Mar. 7	6, 282, 854 6, 382, 688 6, 334, 274 6, 443, 710	392, 989 418, 153 424, 539 424, 852	2, 695, 875 2, 766, 492 2, 708, 411 2, 812, 902	430, 806 436, 290 440, 844 449, 960	645, 962 637, 967 641, 446 640, 759	161, 815 161, 555 159, 753 159, 901	120, 661 122, 246 119, 817 121, 750	992, 223 985, 787 996, 467 999, 362	201, 747 199, 246 199, 156 196, 282	76, 353 75, 774	131, 622 135, 031 135, 134 133, 877	88, 683 86, 448	345, 936 354, 885 346, 485 344, 659
counts— Mar. 7. Mar. 14. Mar. 21. Mar. 28. Investments—total:	8, 731, 419 8, 799, 383 8, 813, 701 8, 822, 229	664, 176 664, 959 666, 272	3, 019, 214 3, 057, 640 3, 088, 952 3, 104, 035	355, 209 355, 898 352, 268	776, 864 775, 479 774, 936			1, 247, 401 1, 265, 287 1, 255, 567 1, 251, 807		172, 892 174, 562 176, 012 175, 730	304, 914 301, 536 302, 063	244, 898 247, 905	939, 385 933, 887 932, 763
Mar. 7 Mar. 14 Mar. 21 Mar. 28 United States Govern-	6, 529, 095 6, 538, 311 6, 654, 536 6, 611, 809	468, 506 467, 873 487, 735 486, 314	2, 475, 278 2, 481, 796 2, 467, 494 2, 446, 862	421, 335 415, 769 417, 272 415, 741	709, 782 712, 788 742, 805 749, 756	170, 522 171, 710 177, 765 176, 481	119, 365 118, 867 129, 983 128, 839	900, 459 896, 466 918, 326 899, 462	216, 618 216, 906 219, 750 220, 172	131, 423 132, 588 133, 993 134, 196	221, 747 222, 398 228, 956 227, 215	99, 622 99, 659 108, 813 108, 060	601, 491 621, 644
Mar. 7 Mar. 14 Mar. 28 Investments—total: Mar. 28 Mar. 14 Mar. 14 Mar. 21 Mar. 21 Mar. 28 United States Government securities— Mar. 7 Mar. 14 Mar. 21 Mar. 21 Mar. 28 Other bonds, stocks, and securities— Mar. 7 Mar. 14 Mar. 21 Mar. 14 Mar. 21 Mar. 21 Mar. 21 Mar. 21 Mar. 21 Mar. 21 Mar. 21 Mar. 21 Mar. 21 Mar. 21 Mar. 21 Mar. 22 Reserve balances with Fed-	2, 922, 206 2, 911, 590 3, 016, 681 2, 972, 853	170, 161 163, 988 182, 555 182, 085	1, 188, 790 1, 187, 463 1, 191, 352 1, 172, 200	112, 922 107, 797 108, 202 108, 652	309, 682 323, 454	73, 443 78, 233	54, 061 63, 974	361, 852	83, 689 84, 015 86, 149 85, 916	69, 284	104, 968 105, 290 109, 345 106, 040	70, 055 78, 492	324, 660
Mar. 7	3, 606, 889 3, 626, 721 3, 637, 855 3, 638, 956	298, 345 303, 885 305, 180 304, 229	1, 286, 488 1, 294, 333 1, 276, 142 1, 274, 662	308, 413 307, 972 309, 070 307, 089	400, 394 403, 106 419, 351 416, 725	98, 267 99, 532	64,806	535 , 12 3	132, 891 133, 601	62, 075 63, 304 63, 528 63, 978	116, 779 117, 108 119, 611 121, 175	29, 518 29, 604 30, 321 30, 662	276, 831 280, 387
Mar. 28. Reserve balances with Federal reserve bank: Mar. 7. Mar. 14. Mar. 21. Mar. 28. Cash in vault: Mar. 7. Mar. 14. Mar. 21. Mar. 28. Net demand deposits: Mar. 7. Mar. 14. Mar. 28. See the demand deposits: Mar. 7. Mar. 14. Mar. 28. Time deposits: Mar. 7. Mar. 14. Mar. 28. Government deposits: Mar. 7. Mar. 14. Mar. 28. Government deposits: Mar. 7. Mar. 14. Mar. 28. Government deposits: Mar. 7. Mar. 14. Mar. 21. Mar. 21. Mar. 23.	1, 742, 905 1, 735, 951 1, 707, 746 1, 743, 475	99, 616 106, 419 105, 850 100, 673	797, 487 781, 704 821, 310	81, 209 84, 162 78, 987	128, 880 125, 717 127, 138 129, 385	42, 758 42, 111 41, 447 41, 594	41, 684 40, 465 40, 328	261, 409 254, 064 251, 796	48, 615 50, 090 47, 847 47, 2 83	25, 075	58, 796 57, 051	35, 037 31, 950	110, 917 110, 290
Mar. 7. Mar. 14 Mar. 21 Mar. 28 Net demand deposits:	247, 671 248, 115 242, 261 242, 495	18, 920 18, 967 18, 784 18, 873	66, 236 65, 664 63, 773 63, 745	13, 973 14, 508 14, 674 14, 280	30, 000 29, 730 30, 063 28, 604	11, 891 11, 810	11, 085 11, 510 10, 985 11, 302	39, 907 40, 077 39, 338 39, 311	7, 277 7, 375 7, 092 7, 038	5, 488 5, 621 5, 500 5, 679	11, 885 11, 150	9, 199 8, 916 8, 643 8, 781	21, 971 20, 449
Mar. 7 Mar. 14 Mar. 21 Mar. 28 Time deposits:	13, 637, 592 13, 793, 512 13, 448, 683 13, 509, 686	933, 047 937, 396 935, 785 926, 507	6, 079, 431 6, 187, 725 5, 963, 586 6, 044, 862	771, 892 763, 430 786, 264 762, 189	1, 038, 185 1, 032, 273 1, 025, 850 1, 032, 036	371, 723 373, 280 365, 2 73 365, 91 2	347, 806 332, 894 334, 166	1, 864, 841 1, 874, 351 1, 820, 169 1, 821, 726	414, 501 398, 801 400, 885	235, 073 229, 644	511, 296 504, 284	308, 186	808, 195 786, 511
Mar. 7 Mar. 14 Mar. 21 Mar. 28 Government deposits:	6, 675, 744 6, 700, 584 6, 750, 524 6, 777, 752	493, 242 520, 419 524, 250 531, 276	1, 586, 451 1, 584, 036 1, 612, 872 1, 643, 960	287, 983 287, 970 295, 140	953, 102 967, 502	247, 322 246, 274 246, 681 247, 361	239, 596 238, 507 239, 209 239, 062	1, 224, 269 1, 227, 562 1, 236, 887 1, 224, 381	247, 994 248, 354 249, 115 248, 799	133, 473 133, 433 133, 590 133, 707	168, 076 168, 090 168, 089 169, 062	117, 409	975, 415 966, 016
Mar. 7. Mar. 14. Mar. 21. Mar. 28.	10, 342 10, 343 281, 446 280, 793	915 915 21,033 21,033	3, 482 94, 436	903 15,772	1, 056 20, 682	366 360 9, 585 9, 585	531 531 21, 234 21, 234	902 902 32, 650 32, 650	195	3, 456	225		1, 134

REPORTING MEMBER BANKS IN LEADING CITIES—Continued

PRINCIPAL RESOURCES AND LIABILITIES BY WEEKS—Continued

						Fede	ral Rese	rve Distri	ct				
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	At- lanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
Due from banks:													
Mar. 7	1, 143, 386	50, 191	136, 402		90, 613			222, 127	53, 736		125, 533		165, 37
Mar. 14	1, 194, 120	57, 902	148, 606	54, 061	98, 829		77, 811		53, 802		126, 469		157, 91
Mar. 14 Mar. 21 Mar. 28	1, 171, 857	47, 779	158, 559	75,056	98, 112	50, 468		227, 212	52,066	45, 889	116, 122	55, 718	170, 98
Mar. 28 Due to banks:	1, 143, 175	50,032	157, 488	60, 540	100, 406	51, 850	71, 325	228, 943	50, 851	42, 649	118, 521	53, 933	156, 63
Mar. 7	3, 630, 959	155 443	1, 394, 906	171, 083	251 532	114, 352	126 015	551, 399	146 776	112, 500	247, 368	112, 217	247, 368
Mar. 14	3, 595, 546		1, 424, 604		251, 924	109, 753	124, 461	540, 228			236, 704		227, 35
Mar. 21	3, 435, 444	151, 998	1, 350, 734		238, 035	109, 164	119, 225	520, 176			219.754		213, 49
Mar. 28	3, 435, 386	146, 752	1, 369, 713	172, 231	231, 588	104, 351	117, 972	520, 998	129, 890	104, 901	217, 303	93, 957	225, 73
Borrowings from Federal	, , , l	1 1		'	ŕ	· 1	'	'	,		1	'	,
reserve bank—total:	250 251	0.00	-0- 000				4- 4-0						-0.00
Mar. 7	359, 854	31, 959	101, 303	22, 603	45, 030	13, 654	15, 419	44, 685	16, 987		3, 104	2, 028	63, 083
Mar. 14 Mar. 21	351, 895 353, 201		88, 115 60, 109		43, 833 46, 447	17, 590 16, 529	11, 441 10, 594			3, 500	6, 400 7, 495		
Mar 98	382, 800	40, 282		23, 376	41, 998	14, 108				2, 354	7, 354		
Mar. 28. Secured by U. S. Gov-	302, 300	10, 202	120, 221	20,510	11, 550	14, 100	10,001	00, 100	10, 101	2,001	1,002	2, 220	33,01
ernment obliga-										1			
tions											1		
Mar. 7	228, 967	13, 953		13, 961	25, 409	2,670	2, 807	32, 215	6, 140		1, 100		55, 98
Mar. 14	229, 976	13, 788	69, 525		26, 074	3, 075	1, 308	28, 388	6, 213		3, 400	300	56, 76
Mar. 21 Mar. 28	224, 817	13, 386			22, 536	3, 560	3,074	57, 258	8, 343 7, 868	3,500	4, 345	100	50, 39
	248, 413	11,356	98, 341	15, 920	22, 830	2,714	1,504	39, 335	7,868	2,300	3, 950	350	41, 94
All other— Mar. 7	130, 887	18,006	27, 828	8, 642	19, 621	10, 984	12, 612	12, 470	10, 847	1	2,004	771	7, 10
Mar. 14	121, 919		18, 590			14, 515					3,000		6, 12
Mar. 21	128, 384		18, 134			12, 969	7, 520		12, 561		3, 150		9, 93
Mar, 28	134, 387						9, 347						2, 12
Number of reporting banks:				'	,			,	., .		.,	· 1	,
Mar. 7	650		82	50	71	66	33	92	30	24	65		50
Mar. 14	649				71	66			30		65		
Mar. 21					71	66							. 5 5
Mar. 28	649	36	80	51	71	66	33	92	30	1 24	1 69	45	Ð

REPORTING MEMBER BANKS IN FEDERAL RESERVE BANK CITIES¹

PRINCIPAL RESOURCES AND LIABILITIES, BY WEEKS

							Cit	ty					
	Total	Boston	New York	Phila- delphia	Cleve- land	Rich- mond	Atlanta	Chicago	St. Louis	Minne- apolis	Kansas City	Dallas	San Fran- cisco
Loans and investments:													
Mar. 7	13, 777, 132	1,015,458	7, 066, 087	1,041,389	791, 554	115,877	92, 396	1, 978, 803	448, 143	185, 739 187, 148	184, 914	119, 359	737, 413
Mar. 21	13, 940, 009	1,049,808	7, 104, 100	1, 041, 555	791, 089	115, 544 115, 512	101 336	1, 981, 602 1, 992, 329	447, 821 450, 430		184, 814	121, 343 127, 276	740, 576 734, 596
Mar. 28	14, 017, 341	1,078,640	7, 230, 740	1,042,161	790, 175	115, 714	104, 599	1, 978, 838	447, 105	188, 236	183, 100	127, 475	730, 558
Loans:								' '		1		,	,
Mar. 7	9, 966, 251	790, 642	5, 048, 966	691, 364 696, 945	618, 858	94, 052 93, 945	64,652	1, 474, 534 1, 483, 929	320, 333 320, 247	124, 304 125, 517	119, 558 119, 740	91, 203	527, 785
Mar 21	10, 120, 210	820, 919	5, 160, 052 5, 109, 998			93, 945	67 534	1, 482, 574	320, 247	125, 317	117, 498		522, 772 511, 368
Mar. 28	10, 000, 765	837, 963	5, 251, 137	698, 660			71.203	1, 481, 765	317, 833	123, 485	119,065		509, 747
Mar. 7							1	` `	,	'		,	
Mar. 7	4, 492, 853	283, 254	2, 382, 268	382, 870	232, 879 224, 805	23, 703	17, 535	774, 747	145, 733 142, 972	34, 248	36, 141	21, 417	158, 058
Mar. 21	4,579,777	309, 240	2,404,910 2 275 467	388, 637 390, 213	224,000	23, 025 23, 513	18, 157 17, 160	765, 566 769, 774	142, 972	34,673	36, 247 36, 051	21, 519 21, 542	
Mar. 7	4, 641, 796	318, 110	2, 382, 268 2, 454, 976 2, 375, 467 2, 503, 514	390, 213 392, 777	223, 528 223, 301	24,086	19, 333	774, 021	140, 535	34, 870 33, 282	36, 826	21,600	154, 411
All other—	,						i				1		
Mar. 7	5, 473, 398	507, 388	2, 666, 698	308, 494				699, 787	174, 600	90, 056		69, 786	
Mar 21	5 550 824	518 808	2, 705, 076	308, 308 309, 675	388, 370 386, 950	70, 920 68, 822		712 800	177, 275 177, 887	90, 844 90, 453		71, 772 73, 217	362, 818 354, 770
Mar. 28	5, 569, 455	519, 853	2, 734, 531 2, 747, 623	305, 883	388, 818	68, 599	51,870	707, 744	177, 298	90, 203	82, 239	73, 989	355, 336
Investments:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			}			1	1				1	
Mar. 7	3, 810, 881	224, 816	2, 017, 121	350, 025	172, 696	21, 825	27, 744 27, 668	504, 269	127, 810	61, 435	65, 356	28, 156	209, 628
Mar. 21	3,814,399	222, 889	2, 024, 078 2, 000, 375	344,010	175, 246 180, 611	21, 599 23, 177	33,802	497, 673 509, 755	127, 574 128, 854	61, 631	65, 575 67, 316	28, 052 32, 517	217, 804 223, 228
Mar. 7	3, 806, 090	240, 677	1, 979, 603	343, 501	178, 056		33, 396		129, 272	64, 726 64, 751	64, 035	31, 886	220, 811
Reserve with Federal reserve	1		, ,	, ,	· ·	,		1	, í	ĺ .	,	· 1	.,
		l)	747, 254	72, 990	41, 103	0 114	7, 431	183, 211	30, 491	14, 123	17, 276	9, 807	35, 484
Mar. 14	1, 243, 567 1, 233, 929	80, 624			39, 193	8, 114 7, 749		187, 178	31,776	12, 423	16, 890	9, 858	38, 567
Mar. 21	1, 214, 094	82, 461	717, 451	74, 113	40,466	7,461	6, 453	177, 505	30,618	13,037	16,902	9, 284	38, 343
Mar. 7	1, 251, 070	78, 105	757, 352	69, 710	42,033	7, 239	6, 595	177, 031	29, 921	13, 777	18, 303	9, 563	41, 441
Cash in vauit:	112 024	8, 329	51, 833	11 251	8, 710	801	1, 101	17, 057	3, 545	1, 695	2, 113	1, 366	5, 333
Mar. 14	113, 234 114, 998	8, 318			9, 349	747		16, 864	3, 549	1, 857	2, 334	1,300	5, 682
Mar. 21	110, 788	8,304	49,955	11,884	8, 546	745	1, 107	16,771	3, 569 3, 290	1, 652	2,080	1, 291 1, 310	5, 144
Mar. 7. Mar. 14. Mar. 21. Mar. 28. Net demand deposits:	110, 567	8, 123	50, 182	11, 567	8, 444	839	1, 142	16, 391	3, 310	1,772	2, 181	1, 278	5, 338
Mar. 7	9, 454, 374	699 669	5, 481, 802	681, 191	265, 206	66, 644	52 878	1, 283, 893	266 580	118, 709	167, 551	86, 031	294, 212
Mar. 14	9, 554, 740	694, 355	5, 576, 679	670, 229	263, 778		57, 034	1, 274, 895	269, 973	118,609	164, 492		
Mar. 21	9, 259, 988	697, 261	5, 358, 916 5, 451, 253	665, 465 657, 405	258, 218	63, 026	52, 712	1, 242, 045 1, 245, 713	261, 354	114, 682	159,077	86, 489	300, 743
Mar. 28	9, 371, 910	692, 198	5, 451, 253	657, 405	268, 614	64, 744	54, 035	1, 245, 713	263, 580	116, 377	159,059	86, 705	312, 227
Mar. 7	3 316 666	258 652	1, 061, 567	226, 048	494, 480	33, 860	37, 296	658, 414	140, 482	60, 305	20, 124	21, 057	304, 381
Mar. 14	3, 316, 666 3, 345, 032 3, 373, 442 3, 396, 275	285, 043	1, 060, 160	225, 042	497, 058		37, 273	661, 403	140, 525	60, 234		20, 972	303, 917
Mar. 21	3, 373, 442	288, 682	1,084,050	224, 950	499, 063		37, 358	668, 659	140, 028	60, 523	19, 487	20, 761	296, 145
Mar. 7 Mar. 14 Mar. 21 Mar. 28 Government deposits:	3, 396, 275	295, 414	1, 114, 310	231, 920	492, 592	34,007	37, 311	656, 125	140, 036	60, 567	19,828	20, 733	293, 432
Mar. 7.	7, 421	877	3, 161	870	348	45	125	516	157	26	157	345	794
Mar. 14	7, 441	877	3, 161	869		45	125	516	157	26	157	345	794
Mar. 7. Mar. 14. Mar. 21. Mar. 28.	201, 259	20, 145	84, 855	15, 345	6, 222 6, 222			21, 934	6, 247	2, 909 2, 256	4,872	7, 377 7, 377	23, 230 23, 230
Dues from banks:	200, 606	20, 145	84, 855	15, 345	0, 222	1,947	6, 176	21, 934	6, 247	2, 200	4,872	1,011	23, 230
Mar. 7	521, 603		98, 845				11, 312						
Mar. 14	556, 497	41, 311	100, 087	49, 112	22, 943		12, 033	161, 374	31, 432	22, 420	33,008	17, 340	59, 557
Mar 28	563, 582 550, 020	34, 610 35, 581		49, 933 54, 807	24, 722 23, 692	5, 543	11, 117 9, 004	152, 123 150, 327	29, 632 27, 857	18, 953 17, 351	31, 030 31, 505	17, 371 15, 114	
Dues from banks: Mar. 7. Mar. 14. Mar. 21. Mar. 28. Due to banks:	330, 020	11				0,040	, e, ou	100, 321	21,001	11,301	01,000	10, 114	00,091
Mar. 7	2, 544, 700 2, 539, 260 2, 423, 645 2, 430, 747	144, 432	1, 326, 879 1, 357, 391 1, 283, 237	163, 919 167, 261	60, 296			395, 934					
Mar. 14	2, 539, 260	142, 626	1, 357, 391	167, 261	63, 336		16, 802	382, 949	78, 665	62, 055	93, 307		
Mar 28	2, 423, 645	141, 536	1, 283, 237 1, 303, 108	165, 698 162, 016	61, 385 59, 612	28, 745 26, 497		366, 556 369, 080		61, 835 59, 755	83, 441 84, 602	29, 699 27, 792	110, 408 112, 005
Borrowings from Federal re-	2, 100, 141	100, 191	1, 000, 100	102,010	00,012	20, 201	10, 120	500,000	12,000	00, 100	02,002	21,102	112,000
serve bank:				1		1)		1				
Mar. 7	240, 691				17, 984		652		13, 962		1, 315		
Mar 21	243, 904 236, 951		66, 685 44, 300	27, 772 23, 438	13, 909 17, 009		920 2, 475		12, 763 14, 913	3, 500	3, 217	1,078	59, 798 56, 400
serve bank: Mar. 7. Mar. 14. Mar. 21. Mar. 28.	260, 866	37, 710	108, 079	20, 473	10, 573			27, 825	8, 723		2, 660		40, 350
	250,000	()	{	1 -5, 2,0	1,	1 ,,,,,,,	1	-:,520	, ,,,,,,,,	1 .,			1

¹ Total number of reporting member banks Mar. 23, 213; Boston, 17; New York, 47; Philadelphia, 39; Cleveland, 8; Richmond, 8; Atlanta, 5; Chicago, 43; St. Louis, 12; Minneapolis, 5; Kansas City, 13; Dallas, 7; San Francisco, 9. Changes since Feb. 29: New York City—decrease of 2 banks, 1 in week ending Mar. 4, 1 in week ending Mar. 21; Philadelphia—increase of 1 bank in week ending Mar. 28.

LAND BANKS AND INTERMEDIATE CREDIT BANKS

LOANS OF FEDERAL AND JOINT-STOCK LAND BANKS

[In thousands of dollars]

	Net amou	nt of loans ou	itstanding
Date	Total	Federal land banks (12 banks)	Joint-stock land banks (54 banks)
1926 May 31. June 30. July 31. Aug. 31. Sept. 30. Oct. 31. Nov. 30. Dec. 31.	1, 632, 413 1, 644, 105 1, 653, 902 1, 664, 130 1, 671, 856 1, 682, 273 1, 692, 826 1, 710, 295	1, 038, 385 1, 043, 965 1, 048, 184 1, 053, 336 1, 057, 217 1, 063, 056 1, 068, 596 1, 077, 819	594, 028 600, 150 605, 718 610, 794 614, 639 619, 217 624, 230 632, 476
Jan. 31. Feb. 28. Mar 31. Apr. 30. May 31. June 30. July 31. Aug. 31. Sept. 30. Oct. 31. Nov. 30. Dec. 31.	1, 724, 821 1, 745, 404 1, 765, 365 1, 732, 395 1, 741, 275 1, 738, 165 1, 742, 575 1, 749, 393 1, 752, 665 1, 757, 185 1, 758, 834 1, 768, 834	1, 085, 170 1, 097, 642 1, 109, 354 1, 117, 914 1, 124, 055 1, 130, 648 1, 134, 896 1, 139, 502 1, 143, 130 1, 147, 135 1, 150, 943 1, 156, 644	639, 651 647, 762 656, 011 614, 481 617, 220 607, 517 607, 679 609, 891 609, 535 610, 050 607, 891 609, 477
1928 Jan. 31 Feb. 29	1, 767, 515 1, 778, 338	1, 158, 717 1, 168, 354	608, 798 609, 984

LOANS OF INTERMEDIATE CREDIT BANKS

[In thousands of dollars]

	İ		1928			1927
Class of loan	Mar.	Mar. 10	Mar. 17	Mar. 24	Mar. 31	Mar. 26
Direct loans outstanding						
Cotton	13, 407	12, 957	11, 732	11, 567	11, 266	17, 121
Tobacco	3, 414	3, 227	3, 196	3, 080	3, 057	6,072
Wheat	1,942	1,785	1, 578	1,440	1, 364	3, 269
Canned fruits and				Ī	1	
_ vegetables	835	788	800	706	630	1, 235
Raisins	5, 766	5, 863	5, 762	5, 588	5, 549	5,000
Wool	133	131	90	82	43	62
Rice	1, 571	1,562	1,560	1,540	1, 515	1, 985
All other	811	673	353	263	263	291
Total	27, 879	26, 986	25, 071	24, 275	23, 687	35, 035
Rediscounts outstanding for-						
Agricultural credit cor-						
	25, 014	25 915	26, 725	27, 690	28, 111	24.714
National banks	7	7	7	7	7	18
State banks	350	367	406	415	418	556
Livestock loan compa-	•••	•••			1	000
nies.	21, 885	21, 898	21, 733	21, 821	21, 877	19, 157
Savings banks and	-1, 500		,	,	,	10, 10.
trust companies	20	20	20	20	20	37
Total	47, 276	48, 207	48, 891	49, 953	50, 433	44, 482

BANK DEBITS

DEBITS TO INDIVIDUAL ACCOUNT, BY FEDERAL RESERVE DISTRICTS

[In thousands of dollars]

	Num- ber of cen- ters	February, 1928	January, 1928	February, 1927
New York City Outside New York City	1 140	32, 739, 886 21, 756, 731	37, 883, 574 25, 006, 992	27, 439, 403 20, 781, 144
Federal reserve district: Boston New York Philadelphia Cleveland Richmond Atlanta Chicago St. Louis Minneapolis	7 10 13 7 15 21	2, 399, 661 33, 532, 207 2, 042, 399 2, 375, 108 682, 387 1, 043, 215 5, 461, 309 1, 154, 840 604, 875	3, 126, 582 38, 799, 064 2, 458, 387 2, 796, 099 780, 278 1, 184, 396 6, 279, 842 1, 307, 032 667, 275	2, 400, 783 28, 167, 635 2, 028, 504 2, 440, 874 672, 295 1, 074, 168 5, 031, 903 1, 104, 596 558, 166
Kansas City Dallas San Francisco Total	15	1, 166, 147 615, 235 3, 419, 234 54, 496, 617	1, 304, 893 688, 048 3, 498, 670 62, 890, 566	1, 094, 038 594, 894 3, 052, 691 48, 220 547

PAR COLLECTION SYSTEM¹

MEMBERSHIP, BY FEDERAL RESERVE DISTRICTS

[Number of banks at end of February]

			1	Nonmem	ber bank	s	
Federal reserve district	Member	r banks	Onp	ar list	Not on par lis		
ļ	1928	1927	1928	1927	1928	1927	
United States	8, 986	9, 168	13, 101	13, 781	3, 905	3, 833	
Boston	413	416	247	245			
New York	934	921	407	408			
Philadelphia	779	771	501	510			
Cleveland	834	848	1,030	1,061	10	1	
Richmond	562	574	648	674 319	575 1, 011	61	
Atlanta Chicago	460 1, 276	475 1, 323	308 3, 673	3,771	1,011	1, 03: 17	
St. Louis	593	606	1,874	1,978	447	42	
Minneapolis	732	747	733	892	1, 136	1, 09	
Kansas City	960	984	2, 327	2.498	271	21	
Dallas	794	817	652	683	205	20	
San Francisco	649	686	701	742	59	6	

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

CONDITION OF ALL BANKS IN THE UNITED STATES

TABLE 1.—ALL BANKS IN THE UNITED STATES !—PRINCIPAL RESOURCES AND LIABILITIES, ON CALL DATES, BY FEDERAL RESERVE DISTRICTS

[In millions of dollars. Figures are for the dates indicated or nearest dates thereto for which figures are available]

	Total l	oans and ments	invest-	•	Loans		In	vestmer	nts		its, exclu nk depos			scount: ls paya	
Federal reserve dis- tricts and call dates	All banks	Mem- ber	Non- mem- ber	All banks	Mem- ber	Non- mem- ber	All banks	Mem- ber	Non- mem- ber	All banks	Mem- ber	Non- mem- ber	All banks	Mem- ber	Non- mem ber
All districts: 1926—Dec. 31	52, 667 53, 934	31, 896 32, 154 32, 967 33, 451 34, 679	20, 376 20, 513 20, 967 221, 229 21, 171	36, 599 36, 304 37, 131 237, 635 38, 395	22, 906 22, 532 23, 149 23, 492 24, 318	13, 693 13, 772 13, 982 214, 143 14, 077	15, 672 16, 363 16, 803 217, 045 17, 455	8, 990 9, 622 9, 818 9, 959 10, 361	6, 682 6, 741 6, 985 2 7, 086 7, 094	50,009 49,777 51,612 252,117 52,872	30, 454 29, 844 31, 227 31, 247 32, 041	19, 555 19, 933 20, 385 2 20, 870 20, 830	1, 084 805 816 2 804 893	760 546 541 528 663	324 259 275 276 230
Boston: 1926—Dec. 31 1927—Mar. 23 June 30 Oct. 10 Dec. 31	6, 220	2, 458 2, 460 2, 557 2, 621 2, 618	3, 512 3, 544 3, 663 2 3, 745 3, 784	3, 847 3, 834 3, 951 2 4, 044 4, 057	1, 738 1, 710 1, 765 1, 810 1, 801	2, 109 2, 124 2, 186 2, 234 2, 256	2, 123 2, 169 2, 269 2, 322 2, 345	720 750 792 811 817	1, 403 1, 420 1, 477 1, 511 1, 528	5, 593 5, 583 5, 810 3 5, 958 6, 008	2, 285 2, 260 2, 358 2, 425 2, 443	3, 308 3, 322 3, 452 2 3, 534 3, 565	91 47 70 45 40	84 38 60 38 32	7 9 10 7 8
New York: 1926—Dec. 31 1927—Mar. 23 June 30 Oct. 10 Dec. 31	16, 064 16, 851 216, 991	9, 849 9, 743 10, 284 10, 341 11, 294	6, 061 6, 321 6, 567 2 6, 650 6, 555	10, 976 10, 928 11, 546 211, 732 12, 513	7, 044 6, 748 7, 184 7, 317 8, 136	3, 932 4, 180 4, 362 24, 416 4, 377	4, 934 5, 136 5, 305 2 5, 258 5, 336	2, 805 2, 995 3, 100 3, 024 3, 158	2, 129 2, 141 2, 205 2, 234 2, 178	15, 153 15, 071 16, 233 216, 081 16, 297	9, 686 9, 051 9, 971 9, 587 10, 006	5, 467 6, 020 6, 262 2 6, 495 6, 291	253 176 136 2 242 328	212 161 113 185 314	41 15 23 1 57 14
Philadelphia: 1926—Dec. 31 1927—Mar. 23 June 30 Oct. 10 Dec. 31	4, 120	2, 482 2, 520 2, 536 2, 593 2, 592	1,556 1,569 1,584 1,613 1,653	2, 551 2, 523 2, 509 2, 573 2, 595	1, 620 1, 596 1, 609 1, 623 1, 620	931 927 900 950 976	1, 487 1, 567 1, 611 1, 633 1, 650	862 924 927 970 972	625 642 684 663 678	3, 602 3, 587 3, 645 3, 713 3, 787	2, 166 2, 163 2, 186 2, 230 2, 243	1, 436 1, 424 1, 459 1, 483 1, 543	111 83 93 58 101	75 53 66 39 73	36 30 27 19 29
Cleveland: 1926—Dec. 31	4, 601 4, 640 2 4, 704	3, 139 3, 243 3, 274 3, 333 3, 303	1, 348 1, 358 1, 366 2 1, 371 1, 390	3, 074 3, 094 3, 104 3, 137 3, 106	2, 151 2, 170 2, 186 2, 208 2, 168	923 924 918 929 938	1, 413 1, 507 1, 536 2 1, 568 1, 587	988 1,073 1,088 1,125 1,135	425 434 448 2 443 452	4, 145 4, 281 4, 325 2 4, 371 4, 349	2, 882 3, 002 3, 031 3, 055 3, 026	1, 263 1, 279 1, 294 2 1, 316 1, 324	120 70 69 2 70 93	91 45 49 61 68	29 25 20 2 9 25
Richmond: 1926—Dec. 31 1927—Mar. 23 June 30 Oct. 10 Dec. 31	2, 385 2, 424 2 2, 472	1, 278 1, 290 1, 312 1, 361 1, 367	1, 120 1, 095 1, 112 2 1, 111 1, 150	1, 868 1, 829 1, 842 21, 860 1, 875	1, 014 1, 009 1, 015 1, 037 1, 033	854 820 827 2 824 842	530 556 582 2 612 642	264 281 297 324 334	266 275 285 287 308	2, 222 2, 194 2, 244 2, 301 2, 371	1, 164 1, 153 1, 193 1, 232 1, 242	1, 058 1, 041 1, 051 2 1, 069 1, 129	73 56 67 2 62 47	37 27 35 35 31	36 29 32 227 16
Atlanta: 1926—Dec. 31 1927—Mar. 23 June 30 Oct. 10 Dec. 31	1,749 1,729 2 1,748	1, 163 1, 159 1, 144 1, 161 1, 167	629 590 585 2 587 589	1, 462 1, 404 1, 376 2 1, 386 1, 371	931 907 888 901 890	531 497 488 2 485 481	330 345 353 2 363 385	232 252 256 260 277	98 93 97 2 102 108	1, 741 1, 687 1, 674 2 1, 701 1, 736	1, 092 1, 074 1, 066 1, 076 1, 104	649 613 608 2 625 632	89 69 69 2 64 56	53 47 42 37 34	36 22 27 27 27 22
Chicago: 1926—Dec. 31 1927—Mar. 23 June 30 Oct. 10 Dec. 31	7, 241 7, 415 7, 486	4, 552 4, 597 4, 720 4, 757 4, 871	2, 631 2, 644 2, 695 2, 729 2, 636	5, 102 5, 043 5, 174 5, 211 5, 183	3, 398 3, 335 3, 469 3, 495 3, 532	1,704 1,708 1,705 1,716 1,650	2, 081 2, 198 2, 241 2, 275 2, 324	1, 154 1, 262 1, 251 1, 262 1, 339	927 936 990 1,013 985	6, 970 6, 906 7, 167 7, 246 7, 325	4, 316 4, 246 4, 462 4, 504 4, 647	2, 654 2, 660 2, 705 2 2, 741 2, 679	182 133 131 89 123	108 72 68 34 68	74 61 63 55 55
St. Louis: 1926—Dec. 31 1927—Mar. 23 June 30 Oct. 10 Dec. 31	2,066 2,071 2,090	1,314 1,332 1,337 1,359 1,377	746 734 734 2 731 727	1, 543 1, 518 1, 517 2 1, 529 1, 525	948 934 931 949 954	595 584 586 2 580 571	517 548 554 2 561 579	366 398 406 410 423	151 150 148 2 151 156	1, 965 1, 979 1, 970 2 1, 997 2, 047	1, 186 1, 197 1, 187 1, 229 1, 250	779 782 783 2 768 797	67 49 63 2 57 47	36 19 38 20 21	31 30 25 37 26
Minneapolis: 1926—Dec. 31	1, 496 1, 485 1, 519	862 862 851 882 897	633 634 634 637 630	987 960 948 968 947	554 541 531 553 547	433 419 417 415 400	508 536 537 551 579	308 321 320 329 350	200 215 217 222 230	1, 526 1, 504 1, 507 1, 571 1, 560	847 827 842 885 886	679 677 665 686 674	19 17 18 13 12	5 7 5 3 3	14 10 13 10 9
Kansas City: 1926—Dec. 31 1927—Mar. 23 June 30 Oct. 10 Dec. 31	1,838 1,832 1,856	1, 136 1, 160 1, 154 1, 168 1, 192	692 678 678 688 677	1, 374 1, 372 1, 355 1, 359 1, 353	777 787 776 776 783	597 585 579 583 570	454 466 477 497 515	359 373 378 392 408	95 93 99 105 107	1, 924 1, 916 1, 916 1, 940 1, 957	1, 148 1, 142 1, 158 1, 166 1, 185	776 775 758 774 773	21 22 27 28 22	7 12 12 15 10	14 11 15 13 12
Dallas: 1926—Dec. 31	1,075 1,064	808 842 831 877 899	222 233 233 240 238	841 866 853 2 890 892	652 669 654 689 695	189 197 199 202 197	189 209 211 2 227 245	156 173 177 188 204	33 36 34 238 41	1, 053 1, 069 1, 049 1, 134 1, 182	800 815 800 862 897	253 254 249 272 285	15 13 19 13 4	10 8 12 9 2	5 5 7 4 2
San Francisco: 1926—Dec. 31	4, 081 4, 059 4, 083 4, 124	2, 855 2, 946 2, 967 2, 998 3, 102	1, 226 1, 113 1, 116 1, 126 1, 143	2, 974 2, 933 2, 956 2, 945 2, 976	2, 079 2, 126 2, 141 2, 134 2, 159	895 807 815 811 818	1, 107 1, 126 1, 127 1, 179 1, 267	776 820 826 864 943	331 306 301 315 325	4, 115 4, 000 4, 072 4, 105 4, 252	2, 882 2, 914 2, 973 2, 996 3, 113	1, 233 1, 086 1, 099 1, 109 1, 139	43 70 54 63 20	42 58 41 52 7	1 12 13 11 13

¹ Includes all National, State, and private banks in the United States except a certain number of nonreporting private banks not under State supervision.

¹ Revised figures.

TABLE 2.—ALL BANKS IN THE UNITED STATES !—PRINCIPAL RESOURCES AND LIABILITIES ON DECEMBER 31 AND OCTOBER 10, 1927,2 BY STATES

		I	oans and i	nvestment:	3		Deposits.	exclusive	Rediscor	ints and	Numbe	r of re-
State	То	tal	Loa	ns 8	Invest	ments	of bank	deposits	bills p		porting	
	Decem- ber	October	Decem- ber	October	Decem- ber	October	Decem- ber	October	Decem- ber	Octo- ber	Decem- ber	Octo- ber
New England:												
Maine Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut Middle Atlantic	411, 483	416, 619	194, 472	198, 793	217, 011	217, 826	389, 293	390,009	3, 193	4, 497	142	143
New Hampshire	283, 645	283, 385	140, 032	140, 381	143, 613	143, 004	259, 692	258, 367 223, 950	1, 285	1,681	123	12
Massachusetts	239, 269	237, 249	151, 551	153, 401	87,718	83, 848	230, 768 3, 728, 654	223, 950	1,468	2, 107	105	10 44
Rhode Island	595 112	516 979	2, 726, 468 276, 500	2, 720, 488 275, 193	1, 268, 880 248, 613	1, 264, 392 241, 085	508, 521	3, 715, 098 497, 617	29, 697 303	30, 720 563	444 37	44
Connecticut	1 220, 110	4 1 901 789	702, 529	4 688, 210	522, 111	4 513 579	1, 151, 485	4 1 136 204		5,717	233	3 23
						- 010, 012	1, 101, 100	- 1, 100,201	1,001	0, 111	200	20
New York	15, 637, 524	14, 838, 681	11, 134, 813	10, 410, 110	4, 502, 711	4, 428, 571	14, 173, 096	14, 034, 053	302, 957	214, 335	1, 152	1, 15
New Jersey	2, 351, 712	2, 286, 849	1, 535, 990	1, 472, 852	4, 502, 711 815, 722	813, 997	2, 257, 378	2, 165, 270	33, 705	4 35, 752	575	57
New York New Jersey Pennsylvania East North Central:	5, 560, 632	5, 501, 594	3, 210, 106	3, 209, 339	2, 350, 526	2, 292, 255	4, 912, 989	4, 833, 485	137, 889	74, 579	1, 623	1, 62
East North Central:											i	-
			1, 912, 758	1, 935, 866	656, 372	675, 727	2, 466, 975	2, 511, 444	40,014	4 541, 392	1,059	1,06
Indiana	876, 353	882, 155	659, 132	669, 866	217, 221	212, 289	839, 958	833, 268	44,009	47, 087 21, 954	1,050	1,06
Michigan	3, 722, 589	3, 712, 360 1, 849, 604	2, 726, 476 909, 677	2, 758, 177 895, 513	996, 113	954, 183 954, 091	3, 578, 417 1, 816, 683	3, 519, 509 1, 804, 911	34, 736	21, 954 18, 573	1, 834 748	1, 83 74
Wisconsin	1,000,942	898, 220	618, 352	622, 487	951, 265 287, 569	275, 733	905, 044	901, 933		6, 335	970	97
Indiana	300, 341	090, 220	010, 302	044, 401	201, 000	210, 100	303, 044	301, 300	0,104	0, 500	910	911
			549, 930	562, 728	372, 504	354, 916	895, 075	895, 416	7,872	7, 999	1, 163	1, 17
Iowa Missouri Missouri North Dakota South Dakota	786, 805	792, 562	678 185	680, 326	108, 620	112, 236	6 825, 439 6 1, 225,857	6 825, 143	10, 150	7, 482	1, 355	1, 37
Missouri	1, 269, 820	1, 246, 584 132, 770 125, 237	902, 898 93, 262	894, 638	366, 922	351, 946	6 1, 225,857	5 1, 181,726	22, 290	24, 287 2, 117	1, 416	1, 43
North Dakota	127, 950	132, 770	93, 262	101, 935	34, 688	1 30.533	144, 100	107, 104	991	2, 117	512	52
South Dakota	126, 786	125, 237	93, 316	93, 487	33, 470 75, 711	31, 750	142, 055	144, 578	1, 621	1, 845 7, 064	415	41
South Dakota Nebraska Kansas	410, 974		335, 263	339, 021	75, 711	74, 827	421, 880	428, 857 6 417, 099	9,065	7,064	1,012	1,02
South Atlantic:	400, 574	399, 043	303, 001	305, 153	97, 573	93, 890	8 416, 499	417,099	5, 393	5, 389	1, 153	1, 16
Delawara	136, 212	135, 981	83, 158	80, 508	53, 054	55, 473	120, 371	118, 380	1, 179	1,073	49	4
Maryland	839, 739	4 804, 624	495, 135	4 480, 705	344, 604	323, 919	794, 531	750, 272	8, 998		243	24
District of Columbia	236, 472	241, 269	176, 672	181, 635	59, 800	59, 634	232, 115	240, 547	2, 466		42	4
Delaware	557, 361	4 552, 097	176, 672 471, 127	4 464, 606	86, 234	487,491	465, 255	4 460, 929	18, 404	4 20, 048	496	4 49
West Virginia	364, 562	364, 737	299, 928	298, 173	64, 634	66, 564	336, 199	342.075	13, 267	9, 168	335	33
NOLLI CALUMINA	1 400.042	403, 758	348, 594	352, 358	59, 448	51, 400	413, 163	391, 462 189, 723	4,715	18, 384	458	46
South Carolina	190, 228	184, 322	144, 445	143, 548	45, 783	40, 774	201, 495	189, 723	1,967	2,898	271	27
Georgia Florida East South Central:	360, 602	366, 892	295, 317	308, 461	65, 285	58, 431	342, 081	346, 789	9, 555	10, 145	466 317	46 32
Fact South Central	376, 564	385, 100	251, 983	258, 384	124, 581	126, 716	385, 927	383, 285	13, 621	16, 846	917	34
Kentucky	487, 269	484, 528	374, 064	371, 984	113, 205	112, 544	426, 699	422, 340	10, 788	9,600	602	60
Tennessee	400, 649		344, 693	4 340, 718	55, 956	4 53, 485	6 411, 208	4 6 402, 401	7.852	4 9, 529		
Alabama	289, 569	284, 803	231,689	231, 478	57, 880	53, 325	6 298, 149	6 293, 235	4,468	5, 052	356	35
Kentucky Tennessee Alabama Mississippi West South Central:	225, 090	226, 502	172, 322	176, 770	52, 768	49, 732	241, 924	236, 303	5, 638	10, 753	325	32
West South Central:					00.000							٠.,
Arkansas	199, 331	203, 914	166, 652		32,679	30, 605 65, 577		205, 328	2, 276 21, 506	9,886		45 23
Oklahoma	415, 498 380, 008	400, 049 373, 966	338, 453 246, 372	334, 472 245, 999	77, 045 133, 636	127, 967	419, 788	376, 548 414, 109	1,365	23, 167 6, 275	679	
Arkansas Louisiana Oklahoma Texas	1,008,660	991, 611	794, 032	791, 973	214, 628	199, 638	1, 038, 074	1, 000, 330	2,666	9, 542	1, 391	1,41
Mountain:	1,000,000	001,011	.01,002	101,010	211,020	100,000	' '		2,000	0,012	1,001	-,
Montana	140, 848	135, 510	88, 063	86, 949	52, 785	48, 561	160, 433 91, 700 61, 229	157, 196	145			
Idaho	78, 290	75,074	48, 615 38, 442	47, 738 37, 059	29,675	27, 336	91,700	86, 286	331	1, 116	143	
Wyoming	54, 609	51,768	38, 442	37,059	16, 167	14, 709	61, 229	59, 378				8
Colorado	264, 150	265, 204	164, 285 22, 783	166, 676	99,870	98, 528	289, 672	283, 591	1,371	3, 376	293	
Montana. Idaho Wyoming Colorado New Mexico Arizona Utah Nevada Pacific:	35, 426 67, 028		22, 783 44, 849	421, 494 42, 377	12, 643 22, 179	4 10, 821 20, 021	42, 493 6 81, 378	4 35, 579 6 72, 767	7 805	7 1, 512		
Utah	152, 219			114, 199	29, 698	29, 804	136, 691	124, 544		2, 585	107	10
Nevada	35, 894	36, 278	27, 817	28, 302	8,077	7, 976	39, 892	38, 416		426	35	
		1		1		1	1	1		1	1	
Washington	423, 181	419, 778	262, 578		160, 603	153, 894		436, 228		2, 543	357	35
Washington Oregon California	260, 746	260, 563	149, 696	161, 517	111, 050	99, 046		276, 620	1,466	1.758	247	25
California	3, 251, 848	3, 149, 789	2, 335, 537	2, 299, 622	916, 311	850, 167	3, 217, 638	3, 097, 048	16, 242	53, 474	511	53
Total	55 840 744	54 670 072	38 304 522	37 634 969	17 455 911	17 045 111	52 871 545	52 116 969	893, 290	804, 221	26, 431	26, 65
1 UVAL	. UU, 048, 149	r 0 2 , 0 1 3 , 3 1 0	ესთ, ითა, მმმ	101,002,002	111, 200, 411	120,020,111	. [04, 011, 021	000 001	1 000 AU	1 002, 221	40, 201	ں رن س

¹ Includes all national, State, and private banks in the United States except a certain number of nonreporting private banks not under State supervision.

¹ Figures for State institutions are taken from the table on p. 303 and represent in some cases the condition of banks as of dates other than Dec. 31 and Oct. 10.

¹ Includes acceptances of other banks and foreign bills of exchange sold with indorsement by member banks,

¹ Revised figures.

¹ Includes 'ords borrowed.

¹ Includes 'doed borrowed.

¹ Includes due to banks.

¹ Includes other liabilities.

TABLE 3.—NATIONAL BANKS—PRINCIPAL RESOURCES AND LIABILITIES ON DECEMBER 31, 1927, AND OCTOBER 10, 1927 [In thouands of dollars]

New England: Maine					<u> </u>								
December December		Loans and investments										Number of re-	
New England: 144, 901 146, 799 72, 496 74, 712 72, 475 71, 997 133, 954 135, 998 1, 394 1, 890 57 75 75 75 75 75 75 7	State	Total		Loans		Investments		of bank deposits				porting banks	
Maile			October		October		October		October		October	Decem- ber	October
Verticulninesetts	New England:										}		
Verticulninesetts	Maine	144, 901	146, 709	72, 426	74,712	72, 475	71, 997	133, 954	135, 928	1,394			57
Rhode Island	Vermont	65, 557	64, 947	37, 705	37, 685	27, 852	27, 262	57, 326	56, 310	882			
Connecticut. 222, 365 261, 466 179, 821 179, 579 82, 544 81, 877 244, 665 246, 637 3, 030 2, 701 6.5 6.5 New York. 5, 089, 707 4, 607, 861 3, 573, 241 3, 513, 648 3, 573, 241 4, 576, 613 4, 106, 886 4, 660, 983 247, 988 69, 389 563 New Jersey. 842, 528 822, 302 524, 648 502, 488 317, 889 318, 924 806, 978 782, 664 18, 337 144, 653 293 New Jersey. 7, 717, 977 777, 181	Massachusetts	1, 206, 188	1, 218, 573	851, 207	865, 033	354, 981	353, 540	1,086,419	1,097,256	14, 822	19, 935	153	153
Middle Atlantic:	Rhode Island	57,058	56, 443	33, 537	34, 518	23, 521	21,925	47,081	45,615		2 701		
New York	Br: Jala Atlantia:			1	119,019		!	1	240, 037	3,030	2, 701	69	L Co
Ordina	New York	5, 089, 707	4,607,861	3, 573, 247	3, 150, 248	1, 516, 460	1, 457, 613	4, 106, 886	4,060,983	247, 958	69, 389		
Ordina	New Jersey	842, 528	822, 362	524, 648	502, 438	317, 880	319,924	806, 978	782,664	18, 337	14,653		294
Ordina	Fost North Central:	2, 573, 091	2, 587, 188	1, 510, 829	1, 347, 800	1,000,202	1,009,020	2, 230, 429	, 2, 222, 190	60, 322	40,955	807	867
Minesota	Ohio	717, 977	727, 181	470, 621	476, 376	247, 356	250, 805	669,012	672, 266	13, 854	14, 334		338
Minesota	Indiana	352, 123	343, 521	237, 118	232, 219	115,005	111, 302	1 329, 207	317, 640	2,520	3, 129		
Minesota	Michigan	1,526,050	1,414,088	202 368	1,064,740 205 124	415, 773	349, 348 147 838	1,377,896	1,263,672	16,432	8,369 7 704		122
Minesota	Wisconsin	375, 765	370, 780	249, 623	251, 162	126, 142	119, 618	354, 643	352, 033	5, 627	2, 454		
Missouri	west North Central.	1	'	1		j '	·	· ·	(,	1 1		
Missouri	Minnesota	530, 078	520, 662	329, 337	332, 903	200, 741	187,759	495, 863	492,758	920		281	281
North Dakota			506, 762	399, 818	374, 800	134, 369	131, 962	446, 919	422, 086	7, 723	6, 402		280 135
Delaware	North Dakota	74, 537	74, 254	47, 361	49,830	27, 176	24, 424	79, 397	84, 545	384	745	141	142
Delaware	South Dakota	58,650	57, 882	35, 208	35, 804	23, 442	22,078	61,731	63,011			97	
Delaware	Kansas	194, 967	191, 280	129, 354	132, 938	61,460	58, 339	199, 359	191, 646	1, 340	2, 745	257	
Tennessee 206,484 200,088 172,031 168,066 34,453 31,982 190,185 181,378 2,620 4,207 104 104 Alabama 186,301 182,038 140,662 139,788 45,639 42,250 181,471 176,752 2,357 106 106 106 106 106 106 106 106 106 106	South Atlantic:	102,000] ' [, ,		,		,		· ·	'		
Tennessee 206, 484 200, 088 172, 031 168, 056 34, 453 31, 982 190, 185 181, 378 2, 620 4, 297 104 104 104 104 104 105 105 105 105 105 105 105 105 105 105	Delaware	22, 767	22, 683		12, 402		10, 281	19,309	19, 241				
Tennessee 206, 484 200, 088 172, 031 168, 056 34, 453 31, 982 190, 185 181, 378 2, 620 4, 297 104 104 Alabama 186, 301 182, 038 140, 662 139, 788 45, 639 42, 250 181, 471 176, 752 2, 357 2, 305 106 106 106 106 106 106 106 106 106 106	Maryland	122, 195	126 278				99, 492 31 934			1 670	1 017		
Tennessee 206, 484 200, 088 172, 031 168, 056 34, 453 31, 982 190, 185 181, 378 2, 620 4, 297 104 104 Alabama 186, 301 182, 038 140, 662 139, 788 45, 639 42, 250 181, 471 176, 752 2, 357 2, 305 106 106 106 106 106 106 106 106 106 106	Virginia	337, 512	333, 186		271, 261	60,668	61, 925	285, 885	281, 559	10, 334	11. 978	167	
Tennessee 206, 484 200, 088 172, 031 168, 056 34, 453 31, 982 190, 185 181, 378 2, 620 4, 297 104 104 Alabama 186, 301 182, 038 140, 662 139, 788 45, 639 42, 250 181, 471 176, 752 2, 357 2, 305 106 106 106 106 106 106 106 106 106 106	West Virginia	165, 885	167, 738	129, 747	129, 591	36, 138	38, 147	149, 328	154, 380	5, 830	3, 406		122
Tennessee 206, 484 200, 088 172, 031 168, 056 34, 453 31, 982 190, 185 181, 378 2, 620 4, 297 104 104 Alabama 186, 301 182, 038 140, 662 139, 788 45, 639 42, 250 181, 471 176, 752 2, 357 2, 305 106 106 106 106 106 106 106 106 106 106	North Carolina	157,036		126, 883	129, 566		24, 354		141, 238	1,783	7, 201		76
Tennessee 206, 484 200, 088 172, 031 168, 056 34, 453 31, 982 190, 185 181, 378 2, 620 4, 297 104 104 Alabama 186, 301 182, 038 140, 662 139, 788 45, 639 42, 250 181, 471 176, 752 2, 357 2, 305 106 106 106 106 106 106 106 106 106 106	Georgia	212, 756	220, 462		180, 913	46, 699	39, 549		204, 445	2, 836	2, 364	83	83
Tennessee 206, 484 200, 088 172, 031 168, 056 34, 453 31, 982 190, 185 181, 378 2, 620 4, 297 104 104 Alabama 186, 301 182, 038 140, 662 139, 788 45, 639 42, 250 181, 471 176, 752 2, 357 2, 305 106 106 106 106 106 106 106 106 106 106	Florida	197, 935	203, 173	120, 705		77, 230	79, 370	193, 018	193, 205	5, 479	6, 567		
Tennessee 206, 484 200, 088 172, 031 168, 056 34, 453 31, 982 190, 185 181, 378 2, 620 4, 297 104 104 Alabama 186, 301 182, 038 140, 662 139, 788 45, 639 42, 250 181, 471 176, 752 2, 357 2, 305 106 106 106 106 106 106 106 106 106 106	East South Central:	050 707	954 950	100 450	170 272	70 944	75 600	200 007	015 700	6 101	4 012	7.41	141
Attausaa 97, 228 94, 320 81, 639 81, 632 15, 589 13, 228 9, 757 86, 364 808 3, 468 32 Texas 794, 675 774, 758 612, 440 604, 959 182, 235 169, 799 781, 388 753, 754 1, 244 6, 229 643 Mountain: Montana 73, 801 70, 205 47, 283 45, 438 26, 518 24, 767 81, 688 32, 241 211 771 74 Idaho 44, 785 43, 655 28, 926 28, 216 15, 859 14, 839 51, 581 48, 053 114 677 52 Wyoming 32, 858 32, 421 21, 074 21, 388 11, 784 11, 633 35, 359 36, 144 48 245 29 Colorado 266, 424 207, 411 244, 717 126, 528 81, 707 80, 883 222, 456 220, 574 1, 057 2, 438 124 New Mexico 26, 307 23, 537 16, 884 15, 282 9, 423 8, 255 30, 803 25, 754 366 29 Arizona 22, 057 20, 864 13, 943 13, 617 8, 114 7, 247 27, 460 24, 275 311 668 15 15 Nevada 15, 111 15, 685 10, 250 10, 854 4, 861 4, 831 15, 563 15, 562 426 10 10	Tennessee	206, 797		172,031	168, 056	70, 344 34, 453	31, 982		181, 378	2, 620	4, 913		
Attausaa 97, 228 94, 320 81, 639 81, 632 15, 589 13, 228 9, 757 86, 364 808 3, 468 32 Texas 794, 675 774, 758 612, 440 604, 959 182, 235 169, 799 781, 388 753, 754 1, 244 6, 229 643 Mountain: Montana 73, 801 70, 205 47, 283 45, 438 26, 518 24, 767 81, 688 32, 241 211 771 74 Idaho 44, 785 43, 655 28, 926 28, 216 15, 859 14, 839 51, 581 48, 053 114 677 52 Wyoming 32, 858 32, 421 21, 074 21, 388 11, 784 11, 633 35, 359 36, 144 48 245 29 Colorado 266, 424 207, 411 244, 717 126, 528 81, 707 80, 883 222, 456 220, 574 1, 057 2, 438 124 New Mexico 26, 307 23, 537 16, 884 15, 282 9, 423 8, 255 30, 803 25, 754 366 29 Arizona 22, 057 20, 864 13, 943 13, 617 8, 114 7, 247 27, 460 24, 275 311 668 15 15 Nevada 15, 111 15, 685 10, 250 10, 854 4, 861 4, 831 15, 563 15, 562 426 10 10	Alabama	186, 301	182, 038	140, 662	139, 788	45, 639	42, 250	181, 471	176, 752	2, 357	2, 305	106	
Attausaa 97, 228 94, 320 81, 639 81, 632 15, 589 13, 228 9, 757 86, 364 808 3, 468 32 Texas 794, 675 774, 758 612, 440 604, 959 182, 235 169, 799 781, 388 753, 754 1, 244 6, 229 643 Mountain: Montana 73, 801 70, 205 47, 283 45, 438 26, 518 24, 767 81, 688 32, 241 211 771 74 Idaho 44, 785 43, 655 28, 926 28, 216 15, 859 14, 839 51, 581 48, 053 114 677 52 Wyoming 32, 858 32, 421 21, 074 21, 388 11, 784 11, 633 35, 359 36, 144 48 245 29 Colorado 266, 424 207, 411 244, 717 126, 528 81, 707 80, 883 222, 456 220, 574 1, 057 2, 438 124 New Mexico 26, 307 23, 537 16, 884 15, 282 9, 423 8, 255 30, 803 25, 754 366 29 Arizona 22, 057 20, 864 13, 943 13, 617 8, 114 7, 247 27, 460 24, 275 311 668 15 15 Nevada 15, 111 15, 685 10, 250 10, 854 4, 861 4, 831 15, 563 15, 562 426 10 10	Mississippi	75, 671	74, 983	54, 290	54, 635	21, 381	20, 348	76, 958	72, 460	1,878	3, 714	37	36
Montana	Arkansas	77, 309	79, 358	57, 560	60, 399	19.749	18, 959	77, 448	74.960	197	2 171	78	78
Montana	Louisiana	97, 228	94, 320	81, 639	81, 092	15, 589	13, 228	90, 757	86, 364	808	3, 468	32	32
Montana	Oklahoma	312, 937	306, 866	199, 523	197, 562	113, 414	109, 304	334, 308	332, 136	1,003		341	349-
Montana 73, 801 70, 205 47, 283 45, 438 26, 518 24, 767 81, 623 80, 651 41 211 71 74 Idaho 44, 785 43, 055 28, 926 28, 216 15, 859 14, 839 51, 581 48, 053 114 677 52 52 Wyoming 32, 858 32, 421 21, 074 21, 388 11, 784 11, 033 35, 359 36, 144 48 245 29 30 Colorado 206, 424 207, 411 124, 717 126, 528 81, 707 80, 883 222, 456 220, 574 1, 057 2, 438 124 124 New Mexico 26, 307 23, 537 16, 884 15, 282 9, 423 8, 255 30, 803 25, 754 306 29 29 Arizona 222, 057 20, 864 13, 943 13, 617 81, 14 72, 476 24, 275 311 668 15 15 15 Utah 46, 796 42, 145 34, 578 </td <td>Mountain</td> <td>794, 675</td> <td>114, 158</td> <td>612, 440</td> <td>004, 909</td> <td>182, 235</td> <td>109, 799</td> <td>181, 388</td> <td>153, 154</td> <td>1, 244</td> <td>6, 229</td> <td>043</td> <td>001</td>	Mountain	794, 675	114, 158	612, 440	004, 909	182, 235	109, 799	181, 388	153, 154	1, 244	6, 229	043	001
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3.6	73, 801				26, 518		81, 623					- 74
	Idaho	44, 785		28, 926	28, 216	15, 859	14, 839	51, 581				52	- 52
	Colorado	32, 858 206, 424	207, 421		21, 588 126, 598	11, 784 81, 707	80 883	222, 456	30, 144 220, 574				
	New Mexico	26, 307	23, 537	16,884	15, 282	9, 423	8, 255	30, 803	25, 754		306	29	29
	Arizona	22, 057	20, 864	13, 943	13, 617	8, 114	7, 247	27, 460	24, 275			15	15.
	Nevada	46, 796 15 111	42, 145 15 685	34,578	30, 073 10, 854	12, 218	12, 072 4 831	43, 135 15, 563	38, 372 15, 262	19		20	
Washington 256, 627 254, 218 154, 283 156, 141 102, 344 98, 077 265, 164 262, 673 576 1, 342 111 110 Oregon 176, 886 175, 708 93, 987 104, 100 82, 899 71, 608 183, 230 182, 745 818 464 95 95 California 1, 683, 023 1, 612, 388 1, 181, 933 1, 160, 215 501, 970 452, 173 1, 049, 306 1, 578, 129 4, 014 32, 331 227 239			1									ł	
Oregon	Washington	256, 627	254, 218	154, 283		102, 344		265, 164			1, 342		
2001 2001 2001 2001 2001 2001 2001 2001	California	176, 886 1, 683, 023	175,708	93, 987 1, 181, 053		82,899 501,970		183, 230 1, 649, 306				95 227	230
													
Total 21, 729, 928 20, 987, 435 14, 835, 603 14, 375, 565 6, 894, 325 6, 611, 870 19, 652, 822 19, 268, 247 481, 382 316, 330 7, 759 7, 798	Total	21, 729, 928	20, 987, 435	14, 835, 603	14, 375, 565	6, 894, 325	6, 611, 870	19, 652, 822	19, 268, 247	481, 382	316, 330	7, 759	7, 798

Table 4.—STATE BANKS !—PRINCIPAL RESOURCES AND LIABILITIES ON DECEMBER 31 AND OCTOBER 10, 1927, 2 BY STATES [In thousands of dollars]

	Loans and investments						Danasitalus'		Rediscounts		Number	
,	Total		Loans		Investments		Deposits, exclusive of bank deposits		and bills pay- able		of reporting banks	
	Decem- ber	October	Decem- ber	October	Decem- ber	October	Decem- ber	October	Decem- ber	October	Decem- ber	October
New England: Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut Middle Atlantic:	2, 783, 451 468, 054	215, 580 172, 302 2, 764, 345	122, 046 100, 027 113, 846 1, 869, 552 242, 962 522, 708	124, 081 100, 027 115, 716 1, 853, 493 240, 666 508, 631	144, 536 115, 553 59, 866 913, 899 225, 092 439, 567	115, 553 56, 586 910, 852	199, 407 173, 442 2, 642, 235 461, 440	254, 081 199, 407 167, 640 2, 617, 842 452, 002 895, 657	14, 875	1, 107 10, 785	85 68 59 291 24 168	86 68 59 289 24 167
New York New Jersey Pennsylvania East North Central:	1, 509, 006 2, 987, 241	1, 464, 476 2, 914, 124		7, 164, 507 970, 403 1, 661, 197	497, 842	2, 970, 958 494, 073 1, 252, 927	10, 066, 210 1, 450, 400 2, 682, 560	9, 973, 070 1, 382, 606 2, 611, 295	15, 368	21,099	589 280 756	590 278 762
Ohio	1, 848, 103 524, 230 2, 196, 539 1, 426, 060 530, 156	1, 881, 944 538, 634 2, 298, 272 1, 406, 642 527, 440	1, 439, 087 422, 014 1, 616, 199 617, 309 368, 729	1, 457, 022 437, 647 1, 693, 437 600, 389 371, 325	409, 016 102, 216 580, 340 808, 751 161, 427	424, 922 100, 987 604, 835 806, 253 156, 115	2, 200, 521 1, 383, 039	1, 839, 178 515, 628 2, 255, 837 1, 372, 711 549, 900	4 26, 160 41, 489 18, 304 26, 029 4, 125	43, 958 13, 585 10, 779	721 820 1, 347 615 814	725 832 1, 348 616 814
Minnesota. Lowa. Missouri North Dakota. South Dakota. Nebraska. Kansas.	392, 356 514, 290 735, 590 53, 413	396, 982 514, 758 739, 822 58, 516 67, 355	220, 593 490, 817 503, 037 45, 901 58, 108 205, 909 169, 494	229, 825 489, 533 519, 838 52, 105 57, 683 208, 669 172, 215	171, 763 23, 473 232, 553 7, 512 10, 028 30, 677 36, 113	167, 157 25, 225 219, 984 6, 411 9, 672 33, 893 35, 551	5 778, 938 64, 708 80, 324	402, 658 ⁵ 561, 305 ⁵ 759, 640 72, 587 81, 567 274, 618 ⁵ 225, 453	6, 952 6, 638 14, 567 607 1, 059 4, 228 4, 053	5, 393 17, 885 1, 372 1, 250 4, 319	882 1, 074 1, 280 371 318 855 896	893 1, 084 1, 304 387 320 867 910
South Atlantic: Delaware Maryland District of Colum-	113, 445	113, 298 543, 649	70, 681 337, 417	68, 106 319, 222	42, 764 243, 313	45, 192 224, 427	101, 062 566, 595	99, 139 519, 554	563 2, 503	572 5, 394	30 159	30 160
bia Virginia West Virginia North Carolina South Carolina Georgia Florida East South Central:	80, 979 147, 846	114, 991 218, 183 196, 999 249, 838 79, 680 146, 430 181, 927	86, 524 192, 617 170, 181 221, 711 64, 310 129, 260 131, 278	87, 291 192, 617 168, 582 222, 792 66, 051 127, 548 134, 581	27, 753 25, 566 28, 496 29, 295 16, 669 18, 586 47, 351	27, 700 25, 566 28, 417 27, 046 13, 629 18, 882 47, 346	90, 803 141, 413	116, 553 179, 370 187, 695 250, 224 86, 907 142, 344 190, 080	796 8, 070 7, 437 2, 932 590 6, 719 8, 142	8, 070 5, 762 11, 183 1, 796 7, 781	29 329 215 382 209 383 255	29 329 216 389 214 386 259
Kentucky Tennessee Alabama Mississippi	230, 472 194, 165	230, 472 194, 165 102, 654 151, 519	193, 611 172, 662 91, 027 118, 032	193, 611 172, 662 91, 579 122, 135	36, 861 21, 503 12, 241 31, 387	36, 861 21, 503 11, 075 29, 384	206, 602 ⁵ 221, 023 ⁵ 116, 678 164, 966	206, 602 5 221, 023 5 116, 483 163, 843	5, 232 2, 111	5, 232 2, 747	461 408 250 288	461 408 250 290
West South Central: Arkansas. Louisiana Oklahoma Texas	316, 656 67, 071	124, 556 305, 239 67, 100 216, 853	109, 092 255, 200 46, 849 181, 592	112, 910 252, 890 48, 437 187, 014	12, 930 61, 456 20, 222 32, 393	11, 646 52, 349 18, 663 29, 839	85, 480	130, 368 290, 184 81, 973 246, 576	2, 079 20, 698 362 1, 422	19, 699 975	369 200 338 748	344
Mountain: Montana Idaho Wyoming. Colorado New Mexico Arizona Utah Nevada	33, 505 21, 751 57, 731 9, 119 44, 292 105, 423	65, 305 32, 019 19, 347 57, 793 3 8, 778 41, 534 101, 858 20, 593	40, 780 19, 689 17, 368 39, 568 5, 899 30, 227 87, 943 17, 567	41, 511 19, 522 15, 671 40, 148 3 6, 212 28, 760 84, 126 17, 448	26, 267 13, 816 4, 383 18, 163 3, 220 14, 065 17, 480 3, 216	23, 794 12, 497 3, 676 17, 645 3 2, 566 12, 774 17, 732 3, 145	78, 810 40, 119 25, 870 67, 216 11, 690 5 53, 918 93, 556 24, 329	76, 545 38, 233 23, 234 63, 017 3 9, 825 5 48, 492 86, 172 23, 154	104 217 12 314 12 6 494 729	439 393 938 3 197 6 844	169 30 31	92 57 173 30
Pacific: Washington Oregon California	62 651	165, 560 84, 854 1, 532, 712	108, 275 55, 670 1, 145, 169	109, 743 57, 416 1, 134, 718	58, 259 28, 151 414, 341	55, 817 27, 438 397, 994	174, 240 92, 242 1, 568, 332	173, 555 93, 875 1, 518, 919	580 648 12, 228	1, 294		156
Total					10, 560, 886	³ 10, 433, 241	33, 218, 725	³ 32, 848, 621	411,905	³ 418, 477	18, 672	³ 18, 858

Includes all State and private banks in the United States except a certain number of nonreporting private banks not under State supervision.
 Or dates nearest thereto for which figures are available.
 Revised figures.
 Includes bonds borrowed.
 Includes due to banks.
 Includes all other liabilities.

Note.—All figures in the October columns are as of Oct. 10, except as follows: Maine, Sept. 24; New Hampshire, June 30; Massachusetts savings banks, Oct. 31; Rhode Island, State banks, Sept. 7, savings banks, June 30; Connecticut, savings banks, Sept. 30; New York, State banks, Sept. 30; savings banks, June 30; New Jersey, Sept. 30; Fennsylvania, Oct. 5; Ohio, Sept. 12; Indiana, June 30; Wisconsin, Oct. 3; Minnesota, Nov. 7; Missouri, Aug. 25; Nebraska, Sept. 30; Kansas, Sept. 12; Maryland, June 30; Georgia, Oct. 3; Kentucky, June 30, 1926; Tennessee, Nov. 16; Alabama, Oct. 17; Louisiana, Sept. 28; Colorado, June 30; Utah, Sept. 30.

All figures in the December columns are as of Dec. 31 except as follows: New Hampshire, June 30; Massachusetts, savings banks, Oct. 31; New York, State banks, Nov. 15; Kansas, Dec. 15; Virginia, Oct. 10; Kentucky, June 30, 1926; Tennessee, Nov. 16; Oklahoma, Dec. 27; Colorado, Dec. 10.

