MONTHLY REVIEW

OF

AGRICULTURAL AND BUSINESS CONDITIONS

IN THE

NINTH FEDERAL RESERVE DISTRICT

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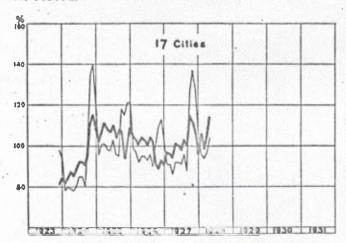
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Minneapolis, Minnesota

May 28, 1928

DISTRICT SUMMARY OF BUSINESS

For the eighth consecutive month, the volume of business in this district has exceeded the volume in the corresponding month of the preceding year. Business developments have been somewhat similar to developments after the large crop of 1924. Debits to individual accounts at representative cities, which constitute the chief index of the volume of payments, rose to very high levels during the crop marketing season in 1927 as in 1924. In both years, this high level was followed by a quieter period during the winter and renewed activity, exceeding the usual seasonal increase in the following spring. In 1928, the recovery from the winter dull season has been especially marked and the volume of debits in April was larger than in any other April on record.



Debits to Individual Accounts at Banks in Seventeen Cities in the Ninth Federal Reserve District. Heavy curve represents figures adjusted to eliminate seasonal changes; light curve represents unadjusted figures as percentages of the average month.

The increase in debits this spring has been most pronounced at those cities where the small grain crop has had the most direct effect, namely, Minneapolis and the cities of Montana, North Dakota and northern South Dakota.

In the southern part of the district, which is devoted to a variety of mixed farming activities, an increase in the volume of debits occurred during the

three years ending in the spring of 1927. This recovery was checked during the remainder of 1927. but in the first four months of 1928 there has been a renewal of the upward trend. At St. Paul, debits to individual accounts have followed a fairly level course during the past five years, with only minor variations up and down. In the fall of 1927, the volume of debits at St. Paul reached the highest level on record, and in April 1928 was 4 per cent above the usual volume for the month. At Duluth-Superior, the volume of debits follows a very irregular course, depending chiefly on the volume of grain, iron ore and coal shipments, and on the dates of opening and closing of lake navigation. In April, the volume was slightly under the usual volume for the month. South St. Paul debits provide a useful measure of the activity in the meat packing industry in the district. The volume of debits at this city during April was in line with the trend of recent years but was smaller relative to this trend than the volumes recorded for the preceeding seven months.

One of the causes of the improvement in the volume of debits in the district this spring is indicated by the increase in security sales by representative Twin City dealers. Sales to the general public during April totaled \$10,907,000, which exceeded the previous high record which had been reported in January of this year and was 56 per cent larger than sales in April a year ago. Sales of securities to the public by these firms have never totaled as much as lu million dollars in any one month until the last few months, but in three of the last five months sales have exceeded this figure. There has also been a good demand for bonds .rom banks. Sales by these Twin City firms to bank customers were 25 per cent larger in April this year than in the same month a year ago.

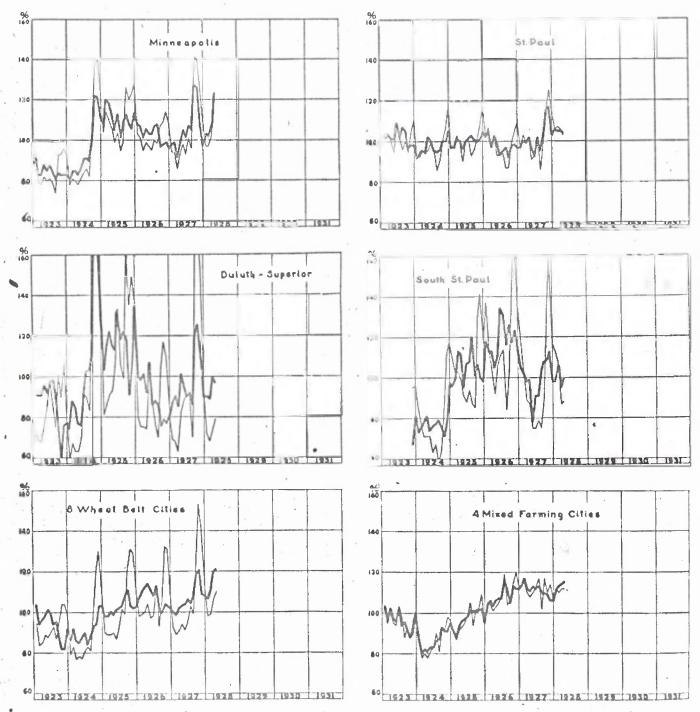
Flour and linseed shipments, farm implement sales and life insurance sales made gains over the volume of April 1927. Country lumber sales and wholesale hardware and grocery sales were about as large as in April 1927, if the smaller number of business days in April 1928 is considered. Business failures in each of the last ten months have been reduced in number as compared with a year ago.

In several major lines of activity, reports show an unfavorable condition. Building permits in April

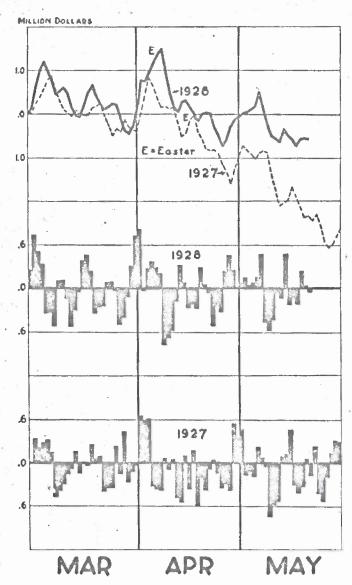
were 33 per cent smaller than in April a year ago and the volume of building over the past twelve months has been the smallest in more than seven years. Cities in all parts of the district, except the mixed farming territory, reported a smaller volume of building in April than in the same month last year. In the case of Minneapolis, St. Paul and Duluth, the volume of building during the past twelve months has been at or near the low level of 1921. In the mixed farming cities, building is

about on an average with the last three years. In the wheat belt cities, the volume of building is near the highest level of the post-war years. Freight carloadings and wholesale shoe sales were smaller in April than in April 1927.

Department store sales during March and April were 6 per cent smaller than in the same two months last year. The fact that Easter fell on an earlier date in 1928 than in 1927 caused March sales this



Debits to Individual Accounts at Banks in Cities and Regional Groups of Cities in the Ninth Federal Reserve District. Heavy curves represent figures adjusted to eliminate seasonal changes; light curves represent actual figures.



Currency Outflow and Inflow at the Minneapolis Federal Reserve Bank during March, April and May of 1927 and 1928. In the lower half of the chart are shown the net daily outflow or inflow by means of bars above or below the zero line. The curves in the upper part of the chart show the cumulative effects of these daily changes on currency in circulation.

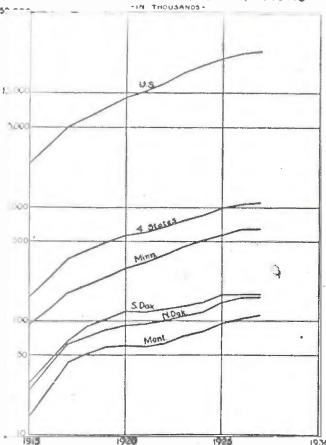
year to be 3 per cent larger than sales in March last year, but April sales this year were 15 per cent smaller than April sales a year ago. The earlier Easter also had a noticeable effect on the demand for currency at this Federal Reserve Bank. Currency movements into and out of this bank during March and the first three business days of April were very similar in the two years. The volume in circulation decreased in March and increased during the first few days of April. In 1927, this increase was followed by a rapid decrease until April 14, but in 1928, owing to the demand for pocket money incidental to Easter trade, a further increase occurred in currency in circulation until April 9, after which the volume in circulation de-

creased to its usual amount. The Easter demand for currency in 1927 caused a small increase in currency in circulation during the three business days, April 14, 16 and 18. The accompanying chart shows the net daily movement into and out of this Federal Reserve Bank during March, April and May of the last two years. The curves in the upper part of the chart indicate the cumulative effects of these daily movements on the amount of currency in circulation, assuming that the end of February was normal for both years.

Farm income from important products was estimated to be 23 per cent larger in April 1928 than in April 1927. The increase was again occasioned by great increases in the marketings of small grains. The income from hogs was smaller than in the corresponding month last year. All important farm product prices were higher than a year ago, except durum wheat, butter, hogs and lambs. Dairy income in March, which is the latest month for which complete records are available, was 8 per cent smaller than in March last year, when production was 5 per cent larger and wholesale butter prices were 2 cents per pound higher.

Motor vehicle registrations in Minnesota, North Dakota, South Dakota and Montana on December

MOTOR VEHICLE REGISTRATIONS



Motor Vehicle Registrations in Minnesota, North Dakota, South Dakota and Montana and for the Entire United States, 1915-1927.

31, 1927 were 2 per cent larger than registrations a year earlier. Passenger car registrations increased per cent and truck registrations increased 17 per cent. Increases in motor vehicle registrations in all of these states, except Montana, were moderate. In Montana, the number of motor vehicles increased 9 per cent. Farm owned passenger cars in the four states made a most unusual gain from 363,000 cars to 413,000 cars. While the total registrations of passenger cars in these four states increased only 1 per cent, the number on farms increased 14 per cent and the proportion of the total number of cars in these states, which are the property of farmers, increased from 38 per cent to 43 per cent. Here again, Montana shows the most favorable comparison. The number of farm owned automobiles in Montana increased from 39,000 in 1926 to 65,000 in 1927, and the number of farm owned trucks in Montana increased from 4,000 to 6,500.

Passenger Car Registrations

December 31, 1926		Per cent Farm
Total	On Farms	Owned
Minnesota559,128	166,884	30
Montana 88,840	38,835	44
North Dakota 145,571	76,373	52
South Dakota153,840	80,843	53
Four States 947,379	362,935	38
December 31, 1927		
Minnesota565,401	183,572	32
Montana 94,733	64,719	68
North Dakota 144,830	80,192	55
South Dakota 153,019	84,885	155
Four States 957,983	413,368	43 ,

Motor Truck Registrations

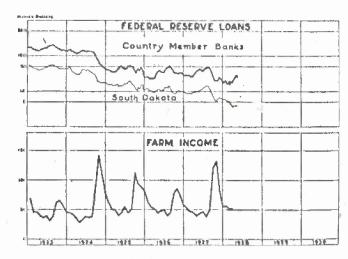
December 31, 1926

	Total	On Farms	Per cent Farm Owned
	71.157	20,961	29
	15,118	3,931	26
	12,251	6,656	54
South Dakota	14,390	6,824	47
Four States	12,916	38,372	34
December 31, 1927			
Minnesota	81,281	23,057	28
Montana	18,002	6,524	36
North Dakota	15,871	7,322	46
South Dakota	16,533	7,506	45
Four States 13	31,687	44,409	34

DISTRICT SUMMARY OF BANKING

The first two weeks of May witnessed the end of the spring period of seasonal strain on the city banks in this district, and at least a temporary relief for country member banks in the mixed farming territory. Probably the loans of this Federal Reserve Bank furnish the best index of credit conditions over short periods of time. The loans of this bank to member banks, both in the cities and in the rural portions of the district, reached a peak on May 2, and declined for the next two weeks. Loans to country member banks on May 16 were lower than on the same date in any recent year. Loans to city member banks on May 16 amounted to less than 7 million dollars, but this total was greater than the loans to city member banks on the same date in any previous year since 1923.

Country bank conditions on the whole are better this spring than for a number of years, according to the available evidence. Borrowings from this Federal Reserve Bank in all parts of the district, except the larger cities, were only \$2,245,000 on May 16. The low level of borrowings is particularly noticeable in South Dakota where the late market movement of hogs has furnished banks with funds to meet the seasonal requirements of farming and, consequently, there has been no spring increase in borrowings from this Federal Reserve Bank. In North Dakota and Montana, the usual spring increase in borrowings from this bank has developed and borrowings on May 16 were at the highest level of the year, although they were only half as large as borrowings from this bank a year ago. Country banks in Minnesota and the portions of Wisconsin and Michigan which are included in this district, increased their borrowings until May 2, at which time their borrowings were the largest for that date since 1925. However, in the next two weeks these banks were able to reduce their



Federal Reserve Loans to Country Banks in the Ninth Federal Reserve District and in South Dakota and Income from Cash Crops, Hoga and Dairy Products.

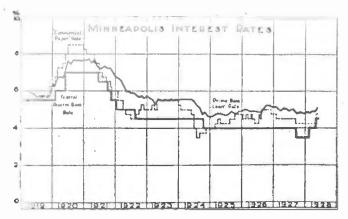
borrowings, contrary to the usual trend. Consequently there is a possibility that this decline in borrowings was temporary.

Country banks have been reducing their balances with city member banks in this district, according to the usual seasonal trend. Between March 7 and May 16, there was a reduction in these balances of 20 million dollars, or 18 per cent. This probably measures the maximum withdrawals to meet the spring requirements. According to experience of past years, real estate tax deposits at the end of May enable country banks to increase their correspondent bank balances by approximately 8 million dollars. On May 16, city correspondent banks were carrying 11 million dollars more of country bank balances than a year ago.

City member banks have experienced a very rapid liquidation of commercial loans during the five weeks ending May 16, which has enabled them to meet withdrawals of country bank balances and other withdrawals and to reduce borrowings at this bank. Total withdrawals of net demand deposits from the spring peak reached on March 7 to the low point of May 2 amounted to 21 million dollars and the withdrawals of time deposits this spring were 6 million dollars, making a total deposit reduction of 27 million dollars. This seasonal condition was exaggerated in the early spring by an increase of 12 million dollars in commercial loans (the other" classification), which necessitated withdrawals of balances with eastern correspondents amounting to 9 million dollars and an increase of 12 million dollars in borrowings from this bank. Loans secured by stocks and bonds were also reduced 11 million dollars.

During the two weeks ending May 16, there has been no further decrease in deposits and the reduction in commercial loans which began after April 11, has become very marked. These developments have made it possible for the city member banks to reduce their borrowings 5 million dollars, to increase their correspondent bank balances 6 million dollars and to increase their loans secured by stocks and bonds 5 million dollars.

Interest rates on prime loans quoted by Minneapolis banks increased slightly during the last month, bringing the rate above 5 per cent for the first time since August 1927. Commercial paper rates were increased one-half of 1 per cent during the month to the highest level since January 1927. The discount rate of this Federal Reserve Bank was raised on April 25 to 4½ per cent.



Interest Rates at Minneapolis on Prime Bank Loans and Commercial Paper and the Discount Rate at the Federal Reserve Bank, 1919-1928.

MAY 1, 1928 ACREAGE ESTIMATES AND PRODUCTION FORECASTS WITH COMPARATIVE FIGURES FOR 1927 AND THE TEN YEAR AVERAGE 1918-1927

Source: United States Department of Agriculture

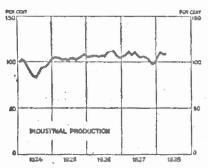
				Production					
	Estimated Acreage (000's omitted)			-			(Bushels: 000's omitted) Forecast		
WINTER WHEAT	May 1, 1928	1927	Ten Year Average	May 1, 1928		Ten Year Average	May 1, 1928	1927	Ton Year Average
Minnesota Montana	110 764	155 625	113 544	13.5 17.4	21.4 22.0	18.4 14.6	1,490 1:3,317	3,317 13,750	2,079 7,950
North Dakota South Dakota Four States United States	81 955 35.858	105 885 37 .872	99 756 39,468	11. 7 16.5 13.6	18.0 21.4 14.6	15.1	949 15,756 486,478	1,890 18,957 552, 384	1,405 11,434 586,904
RYE	,	,			3.			,	
Minnesota Montana North Dakota		409 134 1,381	618 107 1,482	14.5 13.0 9.2	18.3 18.0 16.7	12.2	5,921 1,840 12,488	7,485 2,412 23,063	10,527 1,313 16,470
South Dakota Four States United States		154 2,078 3,670	280 2,487 4,885	11.6 10.7 11.1	18.0 17.2 16.0	13.0	1,965 22,214 39,368	2,772 35,732 58,572	4,141 32,451 66,642

COMPARATIVE STATISTICS OF BUSINESS IN THE NINTH FEDERAL RESERVE DISTRICT

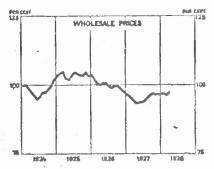
COMPARATIVE STATISTICS OF BUSINESS	S IN THE NIN	TH FEDERA	AL RESERVE	%April 9	
Debits to Individual Accounts-Daily Averages Unit	April, 1928	March, 1928	April, 1927	of March 1928	of April 1927
17 Cities Minneapolis St. Paul Duluth-Superior 6 Wheat Belt Cities 4 Mixed Farming Cities. South St. Paul	\$32,677,000 17,470,000 6,904,000 3,142,000 2,384,000 1,570,000 1,197,000	\$30,384,000 15,250,000 7,109,000 2,953,000 2,310,000 1,574,000 1,188,000	\$28,833,000 14,057,000 6,782,000 3,259,000 2,033,000 1,514,000 1,188,000	108 115 97 106 103 100	113 124 102 96 117 104
Carloadings-Northwestern District-					
Total Cars Grains and Grain Products Cars Livestock Cars Coal Cars Coke Cars Forest Products Cars Ore Cars Merchandise—L. C. L. Cars Miscellaneous Cars	477.741 46,457 27,803 17,636 6,097 73,471 9,612 140,937 155,728	539,209 59,883 40,180 26,853 7,483 91,160 2,597 149,755 161,298	546,924 35,347 30,575 18,856 6,514 81,907 54,702 148,566 170,457	89 78 69 66 81 81 370 94	87 131 91 94 94 90 18 95
Building Permits—					
Number—18 Cities Value—18 Cities Minneapolis St. Paul Duluth-Superior 4 Wheat Belt Cities 6 Mixed Farming Cities 4 Mining Cities	2096 \$ 3,888,200 1,489,800 743,400 345,200 515,500 714,900 79,400	\$ 3,779,500 1,800,000 585,700 478,500 326,400 508,900 80,000	2314 \$ 5,794,000 2,140,800 1,609,100 554,800 700,000 653,700 135,600	152 103 83 127 72 158 140 99	91 67 70 46 62 74 109 59
Building Contracts Awarded-					
Total Residential Commercial and Industrial Public Works and Utilities Educational All Other	7,138,200 2,705,300 2,014,200 882,000 930,700 606,000	5,505,400 1,948,500 1,460,800 664,100 369,500 1,062,500	9,268,900 3,175,900 1,625,600 1,698,500 2,059,800 709,100	130 139 138 133 252 57	77 85 124 52 45 85
Cash Value of Farm Products Sold-					
Bread Wheat Durum Wheat Rye Flax Potatoes Hogs Dairy Products (See Note)	6,822,000 3,771,000 984,000 361,000 3,715,000 8,776,000 19,340,000	12,062,000 4,571,000 1,520,000 322,000 5,114,000 8,903,000 17,308,000	4,127,000 2,999,000 394,000 136,000 2,917,000 9,229,000 20,874,000	57 82 65 112 73 99 112	165 126 250 265 127 95 93
Grain Stocks at End of Month at Minneapolis					
### Duluth-Superior ### Bu. Corn	42,011,630 1,539,579 4,279,993 1,377,966 4,141,751 1,628,164	41,967,419 2,140,440 6,432,367 1,655,847 3,885,473 2,089,105	14,875,915 372,650 15,213,618 891,541 4,413,739 1,860,217	100 72 67 83 107 78	282 413 28 155 94 88
Median Cash Grain Prices-	+	,	/ %		
Wheat—No., I Dark Northern. Bu. Durum—No. 2 Amber. Bu. Corn—No. 3 Yellow Bu. Oats—No. 3 White Bu. Barley—No. 3 Bu. Rye—No. 2 Bu. Flax—No. 1 Bu.	\$1.60 1.39 .9934 .5758 .90 1.26 2.33	\$1.43 \\\ 1.30 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$1.40 \(\)4 1.53 .72 \(\)6 .43 \(\)4 .76 \(\)7 .99 \(\)6 2.23 \(\)7	112 106 106 104 101 111	114 91 137 132 118 127 104
Wholesale Produce Prices-	4917	45	4417	0.4	91
Butter Milk Cwt. Hens—4½ Pounds Lb. Eggs Coz. Potatoes Lb. Bu.	.42½ 2.48 .22½ .26 1.35	2.52 .211/2 .231/2 1.241/2	.46½ 2.50 .21 .23 1.55	94 98 105 111 108	99 107 113 87
NOTE: I	Dairy products figu	ires for Mar., 19	28, Feb., 1928	and Mar.,	1927.

COMPARATIVE STATISTICS OF BUSINESS IN THE NINTH FEDERAL RESERVE DISTRICT (Continued)

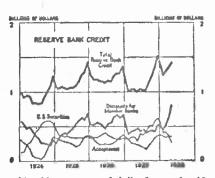
				%April 9 1928 of	April 1928 of
Livestock Receipts at South St. Paul- Unit	April, 1928	Monoh 1079	A1 1027	March	April
Cattle	56.304	March, 1928 57.350	April, 1927 51,412	1928 98 -	1927 110
CalvesHead	55,317	51,398	58,908	108	94
Hogs Head Sheep Head	213,844 8,978	280,884 13,886	223,605 9,198	76 65	96 98
Median Livestock Prices at South St. Paul-	0,770	13,000	7,170	0)	, ,
Butcher Cows Cwt.	\$8.50	\$8.25	\$7.00	103	121
Butcher Steers	11.75	11.50	9.75	102	121
Prime Butcher Steers	13.00	12.75 9.50	11.50 7.25	102 105	113 138
Veal Calves	11.50	11.50	9.25	100	124
Hoge Cwt. Heavy Hoge Cwt.	7.50	6.75	10.50	- 111	83 83
Lamba Cwt.	ا 15.50 9.00	15.60 9.00	15.50 8.75	99 100	100
Ewes	9.00	- 5,00	6.75	100	. 105
Production—Twin Cities & Duluth-Superior Bbls. Shipments from Minneapolis	1,233,803 1,041,645	1,343,519 1,235,496	954,238 902,196	92 84	129 115
Linesed Products Shipments from Minneapolis. Lbs.	36,686,679	45,269,389	22,004,324	18	167
Retail Sales—					
Department Stores	\$2,111,120	\$2,335,320	\$2,483,550	90	85
Furniture Stores	484,720	454,560	500,800	107	97
Country Lumber Yards	9,485,000	7,106,000	9,789,000	133	97
Retail Merchandise Stocks	44 400 550	AC 200 150	AC (70 170	101	0.4
Department Stores Furniture Stores	\$6,408,550 2,794,870	\$6,369,150 2,785,910	\$6,678,170 - 2,772,350	101 100	96 101
Country Lumber Yards Bd. Ft.	93,983,000	91,428,000	91,902,000	103	102
Life Insurance Sales (4 States)	\$24,257,000	\$25,717,000	\$22,721,000	94	107
Wholesale Trade—	g**				
Farm Implements Hardware	314,900 1,851,520	366,080 1,998,850	243,620 1,919,580	86 93	129 -96
Shoes	349,500	451,750	520,180	77	67
Groceries	4,676,590	4,935,980	4,829,630	95	97
Business Failures—	88	83	98	106	90
Number Liabilities	\$853,191	\$996,828	\$1,220,988	86	70
Securities Sold-					
To Banks	4,386,200	3,490,700	3,508,000	. 126	125
To Insurance Companies To General Public	1,294,900 10,907,400	1,338,000 8,037,900	2,974,100 6,975,100	97 136	44 156
Real Estate Activity in					
Hennepin and Ramsey Counties-					
Warranty Deeds Recorded Mortgages Recorded	1207 1687	1050 1625	1720 1973	115	70 86
MottRages Mecorded	1007	1027			
	1			%May %M of	of ·
Member Bank Deposits—	May 9, 1928	April 11, 1928	May 25, 1927	April M	-
In Cities under 15,000 Population In Cities over 15,000 Population	456,871,000 446,696,000	456,134,000 458,867,000	427,365,000 403,736,000	97	107
24 City Member Banks-	May 16, 1928	April 18, 1928	May 18,1927	101	
Loans Secured by Stocks and Bonds All Other Loans	\$75,231,000 161,179,000	\$74,475,000 176,942,000	\$79,940,000 147,691,000	91	94 109
Securities	133,022,000	133,161,000	122,211,000	100	109
Net Demand Deposits Subject to Reserve Time Deposits	215,725,000	222,217,000 134,470,000	202,827,000 126,363,000	97 98	106 105
Borrowings at Federal Reserve Bank	6,756,000	11,978,000	4,534,000	56	149
Minneapolis Federal Reserve Bank-	*0.001.445	*14.000.070	*0 315 333		1.10
Loans to Member Banks Federal Reserve Notes in Circulation	\$9,001,445 56,807,530	\$14,089,968 56,343,755	\$8,215,332 61,926,295	64 101	92



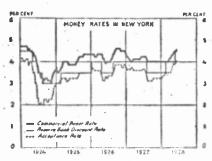
Index number of production of manufactures and minerals combined, adjusted for seasonal variations (1923-25 average=100). Latest figure, April, 109.



Index of United States Bureau of Labor Statistics (1925=100, base adopted by bureau). Latest figure, April, 97.4.



Monthly averages of daily figures for 12 Federal reserve banks. Latest figures are averages of first 23 days in May.



Weekly rates in New York money market: commercial paper rate on 4-to-6 months paper and acceptance rate on 90day paper.

Summary of National Business Conditions (Compiled May 25 by Federal Reserve Board)

The volume of industrial production continued large during April, reflecting chiefly increased output in the metal industries, while activity in industries producing food and clothing decreased. Wholesele and retail trade also declined. The general level of wholesele commodity prices increased in April, reflecting advances in farm products. There were large exports of gold in April and May. Member bank loans and their borrowings at the Reserve banks continued to increase, and money rates showed further advances.

PRODUCTION: Production of manufactures remained in about the same volume in April as in March, while output of minerals declined slightly, owing chiefly to a decrease in production of bituminous coal. Daily average output of iron and steel, copper and zinc increased in April, but since the first of May there has been some curtailment in steel mill activity. Automobile production was maintained in large volume during April and, according to preliminary reports, also during the first half of May. Textile mill activity, output of boots and shoes, and meat production showed substantial declines during April. The volume of factory employment declined slightly, reflecting chiefly decreases in the food, leather and textile industries. Building contracts awarded in April exceeded those for any previous month and awards during the first three weeks of May continued in unusually large volume,

TRADE: Sales by department stores and by wholesale firms in most lines of trade declined in April and were in smaller volume than a year ago. Average daily sales of department stores, after allowance is made for the earlier date of Easter and the usual seasonal changes, were smaller in April than in March and were also smaller than in April a year ago. This decrease was due largely to unfavorable weather conditions. Stocks of department stores, after adjustment for seasonal changes, were in about the same volume as in March and slightly smaller than a year ago. Freight carloadings showed an increase between the beginning of April and the middle of May, but for most classes of commodities continued smaller than a year ago.

PRICES: The general level of wholesale commodity prices, as indicated by the index of the Bureau of Labor Statistics, increased from 96 per cent of the 1926 average in March to 97.4 per cent in April. This increase reflected sharp advances in the prices of grains, cotton, livestock, and hide and leather products. Rubber prices continued to decline and most of the other groups c' commodities showed little change. During the first three weeks of May there were decreases in the prices of grains, flour, sheep and hogs and increases in copper, zinc and rubber.

BANK CREDIT: At member banks, loans largely for commercial and industrial purposes, following a rapid increase during February and March, have shown little change since the early part of April. Loans or securities continued to increase and total loans and investments of reporting member banks, in the middle of May were larger than at any previous time. The outward movement of gold continued in May, the decline in monetary gold stock during the four weeks ending May 23 being nearly \$90,000,000. This loss of gold, together with further sales of United States securities by the Reserve banks, was reflected in an increase of nearly \$140,000,000 in member bank borrowing at the Reserve banks. There were further advances in open market money rates during May, and discount rates at the Federal Reserve Banks of New York, Philadelphia, Cleveland, Atlanta and Dallas were raised from 4 to 4½ per cent.