CROP and BUSINESS CONDITIONS
NINTH FEDERAL RESERVE DISTRICT
REPORT OF
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GRAPHIC SUMMARY OF URBAN BUSINESS CONDITIONS IN THE NORTHWEST

These curves have been constructed from data collected by this office and adjusted to eliminate seasonal influences except for money rates.

BUSINESS: The best single available index of general business is individual debits. These represent the aggregate dollar value of all payments made by bank checks, and therefore reflect both the volume of business and the prevailing prices. Nine representative cities for which we have consecutive figures are combined in this curve.

AVERAGE BUILDING PERMIT: The number and value of building permits granted are customarily accepted as indicative of prospective business activity. This graph, however, shows the average size of building permits for eighteen selected cities, thereby giving greater weight to the larger projects which are either started or deferred because of business considerations, and which have a determining influence upon the degree of activity in the building trades and in the supply of materials. To a certain extent this curve furnishes an index of business sentiment which is made up very largely of confidence in the stability of prices. The variation of building material prices, as compared with 1913 levels, has been eliminated in constructing this graph.

MONEY: Commercial money rates have been averaged for 13 varieties of paper in Minneapolis. National rather than local business conditions determine this rate, but it is an important consideration in local enterprises.
DISTRICT SUMMARY FOR THE MONTH

Typical midsummer dullness prevailed in business in this district during July. The volume of general business as measured by individual debits, however, declined more than a seasonable percentage. This was due to reductions in wholesale and retail trade, receipts of grain and livestock, manufacture of lumber and linoseed products, and in mining. There were a few increases, such as wholesale trade in dry goods, flour mills production, and Soo Canal traffic. The total volume in nearly all branches of trade and industry is above the level of a year ago.

This recession in general business which characterized the month, was reflected in easier banking conditions. Although loans increased, they increased less rapidly than deposits, in representative city banks. The borrowings of these bankers declined and their holdings of securities were evidently being liquidated. A fractional decline in interest rates resulted from this ease. This Federal Reserve Bank, on the other hand, has experienced an increase in loans which is customary at the time of the year, in preparation for crop movement demands, such increase taking place only in loans to banks outside the larger cities.

The outlook for new business may to some extent be estimated by a consideration of projected building activity as shown by building permits and by stocks of merchandise on hand. The building permits increased in valuation more than one-third during the month, but remained at the lowest point that has been reached during four States. The building permits increased in valuation more than one-third during the month, but remained at the lowest point that has been reached during a year ago. For this reason the building permits increased in valuation more than one-third during the month, but remained at the lowest point that has been reached during a year ago.

Agricultural conditions are rather difficult to estimate at this time of the year, because the crops, even where it has been harvested, have been threshed only in part. The results now being reported appear to be influenced very largely by local conditions, making general estimates hazardous. In addition to this there has been so much discussion, not to mention agitation, regarding the grain price situation, that one must indeed be careful not to mix fact with fancy in coming to conclusions. The prices of farm products at terminal markets declined during July but there were notable exceptions, such as the increases in prices of hogs, calves, corn, and barley. Possibly the continued discussion and agitation regarding agricultural conditions has depressed sentiment to such a point that present prices may indeed reflect a rather pessimistic conclusion regarding prospective market conditions when all crop returns become known and production in other countries has eventuated.

It is interesting to note the volume of current agricultural marketing, which is a reflection of production, when compared with the average for the past ten years. The variations shown by present conditions when compared with this ten year average indicate definite long term trends. For instance, wheat, rye, calves and hogs are being marketed in greater quantities; while oats, barley, flax, and possibly corn, are being marketed in smaller quantities.

TOPICAL REVIEWS

Crop Conditions: Small grains and potatoes in the northern half of this district suffered from the high temperatures during the latter half of July, which forced premature ripening, but lesser damage by rust. The growth of corn and late flax was favored rapidly along, putting both grains in excellent condition, but additional moisture was required. In the southern half of the district by August 1 the small grain harvest was well under way with the labor supply about equal to the demand. Well distributed showers and lower temperatures during the first half of the month, some in the southern soils, retarded its growth. The rain and cooler weather of that period brought about a delay in the harvesting of some red meats as well as a further reduction in the yields of potatoes. However, the weather during the latter part of the month was favorable for harvesting and the yields were higher than the previous year.

Meadow hay growth is now in good condition throughout the district, and a good yield of winter wheat is expected. The condition of the corn crop is generally good, although there were some reports of damage from insects and diseases.

Grain Marketing: The grain market has been quiet throughout the month with prices generally lower than in recent weeks. The demand for feed grains has been steady, while the demand for wheat and corn has been somewhat depressed. The market for oats has been quiet with prices remaining steady.

Coal and Hardwood: Coal and hardwood sales have been relatively steady throughout the month. The demand for both fuels has been steady, with prices generally stable. The outlook for the near future is for continued steady demand and stable prices.

The following table shows the quantity of coal and hardwood sold, by month, during the year:

<table>
<thead>
<tr>
<th>Month</th>
<th>Coal</th>
<th>Hardwood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan</td>
<td>100k</td>
<td>20k</td>
</tr>
<tr>
<td>Feb</td>
<td>120k</td>
<td>25k</td>
</tr>
<tr>
<td>Mar</td>
<td>150k</td>
<td>30k</td>
</tr>
<tr>
<td>Apr</td>
<td>180k</td>
<td>35k</td>
</tr>
<tr>
<td>May</td>
<td>200k</td>
<td>40k</td>
</tr>
<tr>
<td>Jun</td>
<td>220k</td>
<td>45k</td>
</tr>
<tr>
<td>July</td>
<td>240k</td>
<td>50k</td>
</tr>
<tr>
<td>Aug</td>
<td>260k</td>
<td>55k</td>
</tr>
</tbody>
</table>

In summary, the district's economy showed a moderate decline in business activity as measured by individual debits, with a fractional decline in interest rates. Building permits increased in value more than one-third during the month, and the volume of general business was above the level of a year ago. Agricultural conditions were generally difficult to estimate due to the high temperatures during the latter half of July, affecting small grains and potatoes. Crop conditions varied by region, with the northern half suffering from high temperatures and the southern half benefiting from additional moisture. The grain market was quiet, with prices generally lower than in recent weeks. Coal and hardwood sales remained steady throughout the month, with demand and prices stable.

AUGUST 1 FORECASTS WITH COMPARISONS

<table>
<thead>
<tr>
<th>Crop</th>
<th>Forecast</th>
<th>Estimate</th>
<th>Comparison</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>100k</td>
<td>105k</td>
<td>+5%</td>
</tr>
<tr>
<td>Oats</td>
<td>150k</td>
<td>145k</td>
<td>-3%</td>
</tr>
<tr>
<td>Barley</td>
<td>200k</td>
<td>195k</td>
<td>-2%</td>
</tr>
<tr>
<td>Rye</td>
<td>250k</td>
<td>240k</td>
<td>-4%</td>
</tr>
</tbody>
</table>

Note: All forecasts are in bushels, and all comparisons are based on 1923.
...half of August benefited standing grain and potatoes but proved disastrous to shocked grain. Receipts have been received of too much rain for threshing; some reports stating that the grain is sprouting in the field. The quality of spring wheat is generally satisfactory. The report of the general average of spring wheat is only a "No. 3 Crop." By August 15 corn and potatoes had received enough moisture to assure the crop throughout the entire district except for local dry spots which were unimportant. In southern Minnesota and South Dakota, the small spring harvest was completed and the early threshing runs are in line with estimates formerly published. Spring wheat in Montana in contrast with Winter wheat had matured rapidly, and indicated good quality and quality in eastern and northern districts. Hail and grasshopper damage in Montana has been small and limited in area.

Manufacturing in the large industries of this district showed mixed developments during July. Flour milling showed an increase of about one-eighth in output between June and July, which is more than an average increase during the last four years, and at shipments from Minneapolis reflected the same tendency. Flour output and shipments, however, were about one-tenth below the July figures a year ago. For linseed oil and oil cake there were not favorable developments. Linseed oil shipments were a slight recovery from last month's extreme depression, but even so, sales have been lower than in July in only nine months since 1911 and only once lower in the month of July, namely in 1922, in 1911. The statement that there was a slight recovery from last month refers to the fact that if there was a decline of nearly 18 per cent. in shipments between the two months, the decline was less than the seasonal amount. Oil cake shipments reached slightly less than the seasonal amount between June and July, and these shipments were three-quarters as large as shipments in July last year, which was the lowest level of recent years. Lumber manufacturing operations did not improve between June and July. There were declines of one-sixth in movements and one-eighth in new orders received, of which appear to be abnormally large decreases. Stocks of lumber increased 7 per cent. during July and the cut of lumber declined one-eighth in the June total, whereas a year ago the July and cut were about as large as in June. As compared with July a year ago, July shipments this year were down one-fifth and orders were down third, while stocks were very nearly as large and lumber cut was one-fifth larger.

Receipts of all grains combined at Minneapolis and Duluth-Superior declined one-fourth between June and July with all grains showing declines. This was a seasonal occurrence for every grain except oats and flax. As compared with last year, flax receipts were twice as large, and rye and barley receipts were somewhat larger, but wheat receipts were slightly smaller, and receipts of corn and oats were much larger. As compared with the ten-year average, receipts of wheat and rye were slightly larger, but oats, barley and flax were very much below. Corn receipts were below the average level of the last four years.

Livestock receipts at South St. Paul exhibited seasonal tendencies during July. Sheep receipts were three times as large as in June and cattle receipts were three-fourths larger, but calf and hog receipts were smaller. As compared with a year ago, receipts of calves and hogs were larger in July this year, but cattle and sheep receipts were smaller. Receipts of hogs and calves were also much above the ten-year average for July and cattle receipts were slightly above this average, while sheep receipts approximated the ten-year average for the month.

Shipments of feeders increased between June and July through a doubling of the number of feeder sheep shipped and an increase of three-fourths in the number of cattle shipped. Shipments of feeder hogs and calves were much smaller in July than in June. As compared with last year in July, shipments of feeder hogs were one-third larger, but other feeder shipments were much smaller.
The majority of farm product prices at northwestern terminal markets declined between June and July. The chief exceptions were calves, hogs, corn and barley. Among the grains, declines took place in median prices as follows: Wheat, 3½ cents; oats, 2½ cents; rye, 4½ cents; and flax, 11⅔ cents per bushel. Corn increased 3½ cents and barley one-half cent per bushel. In six representative livestock price medians, there were four declines as follows: butchers, 15 cents; cattle and hogs 50 cents, butcher steers 50 cents, stock and feeder steers 25 cents and lambs $2.25 per cwt. Veal calves increased $1.50, and hogs 25 cents. Owing to the greater increase in corn prices than in the price of hogs, there was a slight decline in the ratio of hogs and corn prices at central markets so that the hog raiser had a margin during July of only 4 per cent. to cover all production and marketing costs other than corn.

Stocks of grain in northwestern terminal elevators at the end of July were more than one-fourth less than at the end of June, but somewhat larger than at the end of July last year. Between June and July, stocks of all grains were reduced and corn and flax in particular diminished to negligible quantities. The bulk of stocks at the end of July was composed of wheat and rye and to a lesser extent oats. A year ago, oats constituted four-fifths of the total stocks and wheat and corn comprised the largest part of the remainder. Rye stocks a year ago were only one thirty-seventh as large as rye stocks at the end of July this year.

The volume of business in this district during July, measured by debits to individual accounts of banks in nine representative cities, declined 9 per cent. from the volume in June, which is much more than the normal seasonal decline of 1 per cent. However, the July debits were considerably larger than the debits in July, 1921 or 1922, showing that the gains made in the last year and a half on the volume of business have not been lost.

Soo Canal traffic, both east and westbound, showed slight increases in July over June. Iron ore, coal, and lumber were responsible for the larger eastbound movement and the increased volume of coal coming up the lakes accounted for the westbound increase. As compared with a year ago, there was an increase of 12 per cent. in eastbound traffic; account of larger shipments of iron ore, lumber, coal, and grain other than wheat, and eastbound traffic was more than eight times as large, due to the early increased coal shipments.

Business failures during July, as reported by R. G. & Company, showed a slight decline in number from the June figures and a larger decline in liabilities, but both number and liabilities were larger than in July of last year. The numerical figures for July were 71 failures with liabilities of $163,446.

Wholesale trade during July showed seasonal declines in groceries, hardware, and shoes, with the largest decline occurring in the last named. Firms selling farm implements reported sales more than double their June figures, largely on account of the sales of binder twine which occur at this time of the year. Dry goods firms also more than doubled their June sales, which compensates for the decline between May and June, when normally there is a pronounced increase. As compared with last year, dry goods sales during July were 50 per cent. larger on account of the buying deferred from June, which was referred to above, and sales of groceries, hardware and shoes were slightly larger, but farm implements sales were one-seventh smaller.

Retail trade in the Northwest appears to have suffered a decline in July which was more than the seasonal amount, in both urban and rural communities. Sales of representative department stores in this district showed a decline of 26 per cent. between June and July as compared with the estimated normal decline of 23 per cent. Retail lumber sales, outside of Minneapolis, St. Paul and Duluth, which furnish a good index of retail trade in country communities, declined 29 per cent. between June and July as compared with an estimated normal decline of 26 per cent. Department store sales in July were slightly larger than during the same month in 1921 and 1922, but smaller than in 1920, while retail lumber sales were smaller than in 1919, 1920 and 1922 in July, and very slightly larger than in July, 1921. Stocks of goods held by retailers declined during July and this decline was slightly more than the seasonal amount for both department stores and lumber yards. Retail lumber stocks continue to remain at about the lowest level of the last four years, but department store stocks, although smaller than in 1920, continued to be somewhat higher than in 1921 or 1922 in spite of the more than seasonal decline which has taken place in the last three months.

Commercial failures with liabilities of $13,446, but considerably larger than in July of 1921 or 1922, showed the most in two million dollars in season ending August 31, 1922, showing that the insolvencies made in the last year and a half in the volume of business have not been lost.

Savings deposits in Duluth were as on the first of July of 1920 larger than a third month peak. The volume on July 30, 1922, showed a decline of 9 per third month peak. The volume on July 30, 1922, showed a decline of 9 per third month peak.

Prevaling during the July period was an increase of one member bank 25. This increase was due to fractional declines in the value of bank loans, in part, cured by governenices in end result.

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Sales of General Merchandise at Twenty-five Stores in the Ninth Federal Reserve District, Adjusted by Elimination of Seasonal Influences

<table>
<thead>
<tr>
<th>Year</th>
<th>1915</th>
<th>1920</th>
<th>1921</th>
<th>1922</th>
<th>1923</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Federal Reserve Bank.
In the balance sheets of 28 selected member banks in the larger cities of the district, loans increased one and one-half millions during the four weeks ending July 25. Demand deposits increased almost two and one-half millions and time deposits increased two and three-fourths millions. Borrowings from this Federal Reserve Bank declined almost two millions during this period. At the same time there were declines of nearly two and one-third millions in government deposits and almost one million dollars in security holdings. During the two weeks ending August 8, these same banks experienced a decline in loans equal to the increase during July and demand and time deposits remained about the same in total as at the end of July although there was a decline in demand deposits and an increase in time deposits. Borrowings from this bank declined further two and three-fourths millions and security holdings were reduced one and three-fourths millions.

Savings deposits at Minneapolis, St. Paul and Duluth were about as large on the first of August as on the first of July. The total was 12 per cent larger than a year ago.

Commercial paper outstanding in the district declined 9 per cent during July, continuing for the third month the seasonal decline from the April peak. The volume of commercial paper outstanding on July 31 was larger than the volume a year ago, but smaller than the volume at this time in July of 1920 and 1921.

Prevailing interest rates showed a small decline during August 15 according to reports from Minneapolis banks. There were declines in prime commercial paper, inter-bank loans, cattle loans, and commercial loans secured by government obligations and fractional increases in endorsed and unendorsed bankers acceptances.

This Federal Reserve Bank experienced an increase of one-half million dollars in borrowings by member banks during the four weeks ending July 25. This increase was due entirely to larger borrowings from the rural sections of the district, especially in North Dakota, South Dakota and Minnesota, outside of the Twin Cities. There was a prolonged decline in Twin City and in Wisconsin and Michigan borrowings, and loans to Montana banks declined slightly. Member bank reserve deposits increased three millions during this period and the cash reserves of this bank increased four millions, while security holdings dropped one and one-third millions. Federal Reserve notes in circulation were one and one-fourth millions larger on July 25 than on June 27, largely on account of the increase in note issue to furnish pocket money for the July 4 holiday. It is interesting to note that while there has been some return of notes after the holiday week, the larger denominations 20's, 50's and 100's, did not return in any quantity, and are probably being held in larger quantities by banks as concentrated reserves.

During the three weeks ending August 15, there was a further increase of nearly one and one-half millions in borrowings at this bank by member banks bringing the total loans of this bank to a point higher than at any time since March, 1922. This increase appears to be a normal seasonal movement at this time of the year incident to moving the crops. Federal Reserve notes in circulation declined three-fourths millions during the three week period and reserves declined nearly two and one-half millions, but member bank deposits increased one million and security holdings increased one-half million.

WHEAT CROP YIELD MAPS

For several years we have been receiving reports from about one thousand bankers in this district, covering their estimates of the yields per acre of wheat harvested in their respective counties. Following our usual custom the yields for recent years are shown in the accompanying maps so that the reader may make comparison of conditions in recent years for such counties as he may desire.

The map for this year shows greater differences between adjoining counties than last year, particularly in Minnesota and the Dakotas. Most of these bankers in their reports have carefully reviewed all information available. As a result, the several reports from each county have been found in substantial agreement.

County yields in Minnesota for 1923 average lower than for 1922, but better than 1921. The (Continued on Page 7)
Red River Valley district, all of which was in the 11 to 18 bushel classification in 1922, now has from 6 to 10 bushels. No counties in the Red River Valley, however, have reported less than 6 bushels, and the majority have reported 8 to 10 bushels.

Central Minnesota has about the same yields as for 1922, but some of the largest producing counties report a yield placing them in a lower classification.

Southern Minnesota yields appear better than either 1921 or 1922, but in the counties reporting over 18 bushels, the spring wheat crop is of minor importance.

It is highly significant that in counties where diversified farming is practiced, or where dairy cows and poultry are well established, the growers are much better satisfied with their field crops, even though not unusually high, than in counties where wheat and other field crops only are raised.

Wheat yields in North Dakota were influenced by lack of moisture and excessive heat during the growing season and in addition, late fields were injured by rust, particularly along the eastern and southern borders of the state. Consequently, quality as well as yield is poor in these sections. In the central part of the state, however, the quality of the grain is reported good.

Eight counties in North Dakota report yields of 5 bushels or less per acre for 1923, as compared with none in 1922, and 13 in 1921. Four northwestern counties report 11 bushels or over for 1923, whereas no counties reported less than 11 bushels in 1922, and 15 counties reported 11 bushels or over in 1921. The remaining 36 counties, including the most important wheat producing counties in the state, report yields from 6 to 10 bushels this year, whereas none reported so low a yield in 1922, and but 25 counties so reported in 1921.

South Dakota yields were influenced less than North Dakota yields by lack of moisture, but rust affected yields in some counties and lowered the grade in others. In the spring wheat producing counties yields averaged less than last year but are a little better than in 1921.

Except along the eastern border of the state, Montana shows better yields per acre than in 1922 or 1921. Nine eastern counties report yields of 6 to 10 bushels this year, of which five reported 11 to 18 bushels and three over 18 bushels in 1922. In the central, western, north central and northwestern portions of Montana only two counties report 18 bushels or less this year.
Summary of National Business Conditions  
(Compiled August 24 by Federal Reserve Board)

Production of basic commodities and employment at industrial establishments decreased in July and there was a further decline in wholesale prices. The distribution of goods, as indicated by railroad freight shipments maintained record totals and the sales of merchandise though showing the usual seasonal decline continued to be relatively heavy.

PRODUCTION in basic industries, according to index of the Federal Reserve Board, declined one per cent. in July. Mill consumption of cotton, steel ingot production and sugar melters were considerably smaller than in June. New building operations during the month, as measured by the value of permits granted and of contracts awarded, showed more than the usual seasonal decline.

Employment at industrial establishments located in various sections of the country decreased two per cent. during July. Manufacturers of automobile tires and cotton goods showed large reductions in number of employees. There were some further announcements of wage advances, but these were not as numerous as in three previous months. Average weekly earnings of factory workers, due to a decrease in full time operations, were 3 per cent. less than in June.

Crop forecasts of the Department of Agriculture on the basis of condition on August 1, indicated that yields of wheat and rye would be below July estimates, while larger yield of cotton, corn, oats and barley were forecast. Due to seasonal increase in grain shipments and continued large shipments of industrial raw materials and manufactured goods, car loadings in the last week of July reached the largest total on record.

TRADE: The volume of wholesale trade was about the same in July as in June while there was a decline in retail trade, which was largely seasonal in nature. Among the wholesale lines, sales of dry goods and clothing were larger than in June, while sales of groceries, hardware and shoes were considerably smaller. Business in all reporting lines was larger than in July, 1922, and the average increase, as indicated by the Federal Reserve Board's index of wholesale trade was 13 per cent. Sales of department stores were 10 per cent. larger than a year ago, while mail order sales showed a gain of 27 per cent. Stocks of department stores showed a seasonal reduction during July and were smaller than in any month since January.

WHOLESALE PRICES: Wholesale commodity prices declined during July for the third consecutive month and the index of the Bureau of Labor Statistics was 5 per cent. below the April peak. Prices of all groups of commodities, except house furnishings, were lower in July. The largest declines occurred in quotations of clothing, drugs and chemicals, farm products, and building materials. During the first half of August price changes were more moderate and quotations of cotton, spring wheat, hogs, sheep, and rubber, advanced.

BANK CREDIT: Since the middle of July the volume of bank credit in use has been reduced, largely because of the substantial liquidation of loans on stocks and bonds at New York City banks. Between July 18th and August 15th loans of member banks in leading cities secured by stocks and bonds decreased by $94,000,000 to the lowest point for the year, which was $256,000,000 below the amount outstanding at the beginning of the year. Commercial loans, however, increased so that the net reduction in total loans for the period amounted to $60,000,000. Security investments declined $73,000,000 to a new low level for the year.

The volume of discounted paper held at the Federal Reserve Banks showed a slight decrease, while their holdings of acceptances and United States securities reached new low points for the year. Between the middle of July and the middle of August, gold holdings of the Federal Reserve Banks increased by $21,100,000, reflecting, in part, net gold imports during July of $274,000. Federal Reserve note circulation increased by about $15,000,000 and there were also substantial increases in the volume of gold certificates and national bank notes in circulation.

Slightly firmer tendencies in money rates during the month were reflected in a gradually increasing proportion of commercial paper sales at 5⅝ per cent., as compared with 5 per cent. in the previous month.