

THE NORTHWEST MONTHLY



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VOL. VII.

CROOKSTON, MINNESOTA, FEBRUARY, 1923.

NUMBER 3.

Northwest School Farmers' Week and Red River Valley Winter Shows.

The program for the Northwest School Farmers' Week meetings is printed in this issue of the Northwest Monthly. The central idea that will be emphasized during the entire week is greater diversification on Red River Valley farms.

The Minnesota Crop Improvement Association will hold the state seed show at Crookston during the week. This is an outstanding event and should mean very much for the farmers of this section of the state.

The farm crops show, the livestock show, the poultry show and the industrial exhibit will be bigger and better than ever.

Railroads have granted an open rate of fare and a half from all points in Minnesota, North Dakota and Wisconsin, which should assist in insuring a

large attendance every day of the week.

The Red River Valley combined choruses will sing on Friday evening. The evening speakers for the remainder of the week are: Dean W. C. Coffey on Monday evening; Dr. Preston J. Bradley on Tuesday evening; Dr. Roy L. Smith on Wednesday evening; and President James A. Burns, Oneida College, Kentucky, on Thursday evening.

These are all men of national reputation. They will give inspiring messages that will not soon be forgotten.

The programs during the day are of exceptional merit. Read over the list of speakers and subject. You will find something that will not only interest you, but will prove to be of great value in connection with your work.

ATTENTION, ALUMNI.

The annual reunion of the Northwest School Alumni will be held at the Crookston Association rooms at noon, Friday, February 9, 1923.

At 12:45 the meeting will adjourn for a banquet to be served at Rap's Pastry Lunch, known also as the Encore. An interesting program of toasts and music has been arranged. Tickets for the banquet will be one dollar. All who expect to be present should notify the secretary as soon as possible so that every one may be included for the banquet. This information should be received not later than Wednesday morning, February 7, and places will be reserved only for those who definitely signify their intention to be present.

An alumni get-together has also been arranged for the evening at the Eagles Hall.

All members should be present to make these meetings successful in every way.

Forget your work. Come and join hands with your school-mates for a day and you will go home feeling a world better.

WALTER SPRUNG, Secretary,
Ada, Minnesota.

JUNIOR SHORT COURSE

The Junior Short Course at the Northwest School will be held April 2-6. This is the week during which the entire school and its facilities are placed at the disposal of the Juniors who come. Any boy or girl between the ages of 12 and 17, inclusive, is eligible to attend. The only expense is that for board and room. This year it will be \$3.50, which also includes the charges for music and entertainment. The work of the week will be devoted to instruction in studies of interest to those engaged in club work. It will be of such a nature that even though the student cannot enter club work, the information will be useful in the home and on the farm. There will be the usual excursions, games, movies and singing. It's the best week of the year. Let the boys and girls have the privilege of this course, as it will be worth while in many ways.

SCHOOL LECTURE COURSE

The third number on the school lecture course, January 9, was another successful event. The Berkeley Concert Trio was composed of three young ladies who were artists in their voca-



DEAN WALTER C. COFFEY

University of Minnesota, Department of Agriculture, who will speak on Monday evening, February 5. Subject: "The Farmer's Program"

tion. The program was a variety of selections, consisting of solos, duets and trios, both vocal and instrumental. They featured the marimbaphone, on which all were highly proficient. One member of the company was especially clever as a reader.

The last two numbers are Prof. I. M. Cochran, of Carleton College, February 17, in a reading, "The Fortune Hunter," and Prof. Franz Rickaby, of the University of North Dakota, March 3, in a violin concert.

PERSONALS

Walter V. Sprung, '20, Ada, secretary of the Northwest School Alumni Association, writes that plans are under way for the Northwest School Alumni luncheon to be held on February 9, during the week of the Winter Shows. Details regarding it and the interesting program that is being prepared will be announced in the February issue of the Northwest Monthly.

Mrs. S. B. Torvend, '10, (nee Emma Pederson) writes from Silverton, Oregon, that even though she is far away from Minnesota she often thinks of the N. W. S. A., and enjoys reading the N. W. Monthly. She sends best wishes to the school.

THE NORTHWEST MONTHLY

Issued Monthly by
THE UNIVERSITY OF MINNESOTA
NORTHWEST SCHOOL OF
AGRICULTURE

C. G. SELVIG, Superintendent

OFFICE
Northwest Experiment Station,
Crookston, Minnesota

A monthly publication in the interest of agricultural education and home training for Northwestern Minnesota.

FARM BUREAU WORK.

The summaries of reports of farm bureau work in counties of this section of the state, that are included in this issue of the Northwest Monthly, bear abundant testimony to the great value of that work. Space does not permit enlarging upon the program of work that is being carried on in the counties where there are active farm bureau organizations. It is the opinion of all who are in close contact with this work that it is invaluable, in increasing farm efficiency, in helping to solve marketing problems, and in increasing the joys of living on our Red River Valley farms.

THE VALLEY'S BIG WEEK

Every indication points to success for the Red River Valley Winter Shows and Northwest School Farmers' and Women's Meetings.

It is thirteen years since the first small seed show was held at the Northwest School. During this time this event has expanded until it commands at the present time, state attention. There is something at these meetings and shows for father, mother, sister and brother. The opportunity is here for education, recreation and good fellowship. Why not come?

ALUMNI GET-TOGETHER

Secretary Walter V. Sprung has issued a challenge to the members of the Northwest School Alumni Association to make the alumni gathering, to be held on Friday of Winter Shows week, the most successful and outstanding of any since the alumni organization was started. Plan to make this a real event. This can only be done if you and the other alumni association members attend. All aboard for alumni reunion, February ninth.

The Northwest Station report for 1922 will be off the press almost at the same time that this issue of the Northwest Monthly reaches its readers. It is, without doubt, one of the most complete and instructive reports ever issued by the station. Space forbids enlargement upon its contents. This report will be distributed free of charge to those who send for it.

The 1922 report has special articles on topics that are of interest to the Valley farmers at the present time.

Farm Bureau Reports

IMPORTANT WORK CARRIED ON

Through the courtesy of the county agents of the following counties, summaries of work accomplished in each of these counties is presented to the readers of the Northwest Monthly.

RED LAKE COUNTY WORK

Potatoes: Fields of certified seed potatoes again demonstrated their superiority over ordinary commercial fields. Increased yields averaged from fifty to seventy-five bushels per acre. Value of the certified seed is approximately 32¢ a bushel over table stock. Total value of all certified seed raised in the county above table stock was \$4,800.00.

Sugar Beets. Sugar beets have been introduced into the county as a commercial cultivated crop.

Soybeans. Introduction of soy beans to be raised with corn for silage has proved to be a success in at least three points in the county.

Marketing. Fifteen hundred tons of hay marketed through the efforts of the county agent at a saving of from \$1500 to \$2000 to the farmers. Fifty cars of potatoes marketed through county agent work directly or indirectly at a saving of approximately \$500. Eighteen hundred bushels of certified seed sold at a premium of close to \$4,800.00.

Commercial fertilizer. One carload of acid phosphate and one carload complete fertilizer 18-3 secured for farmers of the county. Demonstrations indicate that acid phosphate is absolutely necessary on peat lands and that the complete fertilizer bring excellent results on mineral soils wherever such lands have not been well manured in the past five or six years.

Clothing Project. Three farmess clubs carried on clothing projects with an estimated saving of \$229.75 from the use of patterns and dress forms.

Tuberculosis Eradication in Red Lake County.

Tuberculosis eradication has been one of the main projects for the year. A total of one hundred seventy-one days of specialist's time and sixty-two days of the county agent's time were spent exclusively on this project with the following results: Four hundred twenty herds out of eight hundred twenty-one herds in the county were tested. This means approximately seven thousand five hundred thirty-five head of cattle were tested during the year, and of these eight hundred twenty-five head received two tests.

The average per cent of all herds tested in the county is fifty per cent. This would indicate nearly seventy-five per cent of all cattle in the county have been tested, as naturally the larger were tested first. Red Lake county now has a total of two hundred one accredited herds, with approximately fifty more herds that will be accredited within the next sixty days.

This county now leads the state in the number of herds under supervision, as well as in the number of accredited herds.

The increased value to the county through this work is estimated at \$75,350.00. L. W. Bond is the county agent.

PENNINGTON COUNTY WORK

Pennington County Farm Bureau conducted the experimental plots in cooperation with the University of Minnesota, in the use of acid phosphate, on both mineral and peat soils. Check plots were had on each farm and in 80% of the places a marked increase was shown in favor of the acid phosphate.

Crop Production. Eight thousand four hundred bushels of grain were exchanged or secured for the farmers through the assistance of the Farm Bureau office. One hundred sixty acres of sugar beets were planted in the county. Potato grading schools were conducted in five places in the county, showing excellent results for those who attended the meeting.

Assistance was given to the Holstein and Guernsey Breeders Association in conducting consignment sales, as well as assisting in the Pure Bred Bull campaign. The Fifth Annual Poultry Show held in Thief River Falls, was pronounced by Judge W. E. Stanfield to be the best in Northern Minnesota. Pennington county has many cattle tested for tuberculosis, with but few reactors during 1922, which shows that the county is becoming free of the disease.

Boys' and Girls' Club Work.

Two hundred and fifteen boys and girls enrolled in the Dairy Calf, Poultry, Sheep, Judging and Bread-Making contests. Nine, in all, were given a free trip to the State Fair and the Junior Live Stock Show.

The Farm Bureau co-operated and received assistance from a large number of organizations, including the Holstein Breeders' Association, the Guernsey Breeders' Association, the Poultry Breeders' Association, the New Settlers Organization, and others.

In addition, two hundred farmers were furnished with four hundred thirty-two laborers for the year. Fourteen thousand (\$14,000) dollars worth of business done through the Farm Bureau office and Exchange List. One hundred fifty farmers were assisted in keeping account books. There were six hundred and ninety-nine farm visits, nine thousand six hundred office calls, eighty-nine meetings held, six thousand one hundred and twenty-nine telephone calls and seven thousand two hundred letters written during the year. Special articles dealing with the livestock and marketing work in Pennington County will be published

(Continued on Page 8)

THIRD INSTALLMENT
Brief Stories of Red River Valley Herds

EL TOVAR FARM SHORTHORNS
Twin Valley Herd Has Won Fine Recognition. M. E. Dahl Tells How He Started in the Pure-bred Business.

The Red River Valley has many prominent Shorthorn breeders. They are located in every county of the Valley. They own numerous pure-breds, including animals of merit.

At the El Tovar Stock Farm, owned by M. E. Dahl, Twin Valley, is one of the best herds of Shorthorns in the entire state of Minnesota.

Mr. Dahl gave the story of how he started in the pure-bred Shorthorn business to the Northwest Monthly. We are privileged to publish it herewith.

Early in 1917, Mr. and Mrs. Dahl were traveling in the west. On this trip Mr. Dahl met Charles A. Saunders, Manila, Iowa, who was on his way to Denver to show his Shorthorns at the Denver Winter Shows. Mr. Dahl had had in mind for some time the improvement of cattle in Norman county. He discussed at length with Mr. Saunders the problems connected with having a pure-bred herd.

The result was that Mr. Dahl spent several days at Denver. In reply to a question as to the best way to get people of a community interested in the raising of better cattle, Mr. Saunders promptly replied. "There is only one way in which you can interest a community in raising better cattle and that is in starting a herd of your own."

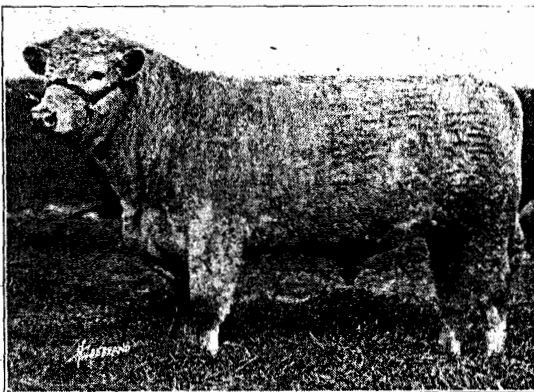
"This idea gave me something to think about," Mr. Dahl stated. Somehow or other the thought did not leave

his mind. Upon his return to Twin Valley he discussed the matter with his friend, Mr. Joe Hodson, who was living on one of Mr. Dahl's farms. Mr. Hodson had had considerable experience in the care of better cattle.

The upshot of it all was that in the spring of 1917, five or six cows were purchased for a foundation herd. Dur-

The El Tovar farm now boasts of a herd of 100 pure-bred registered Shorthorn cattle. Thirty of these are straight Scotch breeding cows, of which Broadhooks Sultana, sired by Silverdale by Avondale; Hillshade Verbena, sired by Prince Cumberland by Cumberland's Last; Miss May 7th, sired by Superb, and Emma 34th, sired by Maxwalton Stamp 2nd are the outstanding cows of the herd at this time.

Of the herd bulls, Premier of El Tovar has left a splendid mark upon the herd. The two crops of calves that have been received from the services of Silver Stamp go to prove that no mistake was made when this good bull, even though he was high priced, was added to the herd. A half brother to Silver Stamp, Captain General, will be used for the herd bull on the south farm. He is also a splendid individual. Some of these cattle will be shown at the Winter Livestock Show to be held at Crookston next month.



SILVER STAMP, NO. 747153
 One of the herd bulls on the El Tovar Farm, Twin Valley, M. E. Dahl, Proprietor.

ing the six years that have intervened there have been, of course, a few reverses. A higher degree of success would have obtained, according to Mr. Dahl, if he had followed the advice of older breeders in buying at the beginning the very best cows, together with a good breeding bull for the foundation stock.

The cattle have more than paid the expenses of the running of the farm, and the herd has been very much increased.

In conclusion, Mr. Dahl states that there is a great deal of satisfaction in raising good cattle. Many a pleasant hour can be spent at the farm watching the young calves grow. These are hours which cannot be bought for dollars and cents. They are the hours when business worries may be forgotten, for a while at least. Mr. Dahl feels sure that any young man who starts to lay the foundation for a good Shorthorn herd, lays the foundation for a successful career in the future.

RED RIVER VALLEY
BALANCED PRODUCTION
 Northwest Station Suggests Twelve Points—Discussion Invited

Red River Valley farmers who are making a success

1. Have dairy cows or beef cattle. In one Red River Valley county, the average farm has only 13 head of cattle per farm. The number should be at least 50.
2. Have a few hogs. In one Red River Valley county the average farm has only 4 hogs per farm.
3. Have a few sheep. The Red River Valley is especially adapted for sheep-raising. Wool and mutton bring good prices.
4. Have a good sized flock of chickens. Red River Valley farms make a better showing in poultry production than in the above classes.
5. Raise Sweet Clover for Pasture. It is a wonderful pasture and satisfactory hay crop.
6. Raise alfalfa for hay. The Red River is favored in the large yields of alfalfa obtained.



PROFESSOR H. H. KILDEE.
 Iowa State College, Ames. Mr. Kildee became well known to Red River Valley farmers when he was a member of the University Farm staff.

7. Plan to grow sugar beets. United States imports 70 per cent of its sugar. Minnesota produces only 10 per cent of the sugar used in this state.
8. Plan to grow more corn. In one Red River Valley county, the average farm has only two thirds of an acre of corn per farm. Red River Valley farmers are buying annually large quantities of corn that is shipped in. Why not raise flint or early dent corn?
9. Plan to grow a limited acreage of potatoes. Grow them on well prepared ground, using treated seed and spraying the vines.
10. Plan to devote a portion of the farm to pure seed production.
11. Plan to grow some flax. United States imports 75 per cent of its flax.
12. This does not mean that Red River Valley farmers should not continue to raise wheat. The Valley's most successful farmers are raising wheat on clean land made possible by rotating crops. Live stock are fed on the roughage.

Program of Thirteenth Annual Northwest

TO BE HELD AT CROOKSTON

PROGRAM OF EVENING MEETINGS

Armory

MONDAY EVENING, FEBRUARY 5

Red River Valley Rural Schools Spelling Contest.
Address by Dean W. C. Coffey, University Farm.

TUESDAY EVENING, FEBRUARY 6

Address by Dr. Preston J. Bradley, Chicago.

WEDNESDAY EVENING, FEBRUARY 7

Address by Dr. Roy L. Smith, Minneapolis.

THURSDAY EVENING, FEBRUARY 8

Address by President James A. Burns, Oneida College, Kentucky.

FRIDAY EVENING, FEBRUARY 9

Red River Valley Song Festival.

SCHEDULE

of

MEETINGS, EXHIBITS, CONTESTS AND SALES

The following events will take place in Crookston during Northwest School Farmers' Week Meetings and the Red River Valley Winter Shows, February 5 to 9, 1923.

FARMERS' WEEK MEETINGS

Farm Crops.....	Monday and Tuesday, February 5 and 6
Live Stock	Wednesday, February 7
Farm Marketing	Thursday, February 8
Diversified Farming	Friday, February 9

WOMEN'S MEETINGS

Home and Health.....	Tuesday, February 6
Nutrition	Wednesday, February 7
Home Management	Thursday, February 8
Nutrition and Joint Session	Friday, February 9

EDUCATIONAL CONTESTS

Farm Club Live Stock Judging.....	Monday, February 5
High School Live Stock Judging	Monday, February 5
High School Farm Crops Judging	Monday, February 5
Red River Valley Rural School Spelling	Monday, February 5
Red River Valley Essay	Monday, February 5



DR. ROY L. SMITH

Minneapolis, who will speak on Wednesday evening, February 7. Subject: "At the Foot of the Rainbow."

SHOWS AND EXHIBITS

Barberry Eradication	All Week, February 5-9
Grain Grading	All Week, February 5-9
Industrial and Implement	All Week, February 5-9
Junior Live Stock	All Week, February 5-9
Minnesota Crop Improvement	All Week, February 5-9
Minnesota Red River Valley Development.....	All Week, February 5-9
Northern Minnesota Poultry	All Week, February 5-9
Northwest Experiment Station	All Week, February 5-9
Plant Breeding	All Week, February 5-9
Red River Valley Live Stock	All Week, February 5-9

ASSOCIATION MEETINGS

Minnesota Crop Improvement	Tuesday, February 6
Minnesota Red River Valley Development.....	Thursday, February 8
Northern Minnesota Poultry.....	Wednesday, February 7
Northwest School of Agriculture Alumni	Friday, February 9
Red River Valley Live Stock	Wednesday, February 7
Red River Valley Guernsey Breeders'	Thursday, February 8
Red River Valley Crops and Soils	Wednesday, February 6

PURE BRED LIVE STOCK SALES

Chester White Breeders'	Friday, February 9
Duroc Jersey Breeders'	Friday, February 9
Holstein Breeders'	Thursday, February 8
Poland China Breeders'	Friday, February 9
Shorthorn Breeders'	Friday, February 9

MONDAY, FEBRUARY 5

Judging farm crops, livestock and poultry exhibits.
Judging Junior Livestock Show exhibits.
Farm club, township and high school stock judging contests. High school farm crops judging contest.
Dinner Meeting of Junior Exhibitors and of members of various judging teams, Rap's Restaurant, 5:30 P. M.
Meeting of Minnesota Crop Improvement Association, 3:00 P. M.

EVENING.

7:30 Red River Valley Rural School Spelling Contest, Armory.
Dean W. C. Coffey, Department of Agriculture, University of Minnesota. Subject: "The Farmer's Program."

TUESDAY, FEBRUARY 6

Judging livestock exhibits.
Meeting of Minnesota Crop Improvement Association.
Farm Crops Meeting in Armory, 10:00 A. M.
Luncheon Meeting of Minnesota Crop Improvement Association and Red River Valley Crops and Soils Association, Crookston Association Banquet room, 12:00 o'clock.
Farm Crops Meeting in Armory, 1:30 P. M.
Evening, Address by Dr. Preston J. Bradley, Chicago. Subject: "The United States of Tomorrow." Armory.



MR. A. J. GLOVER

Editor, Hoard's Dairyman, Fort Atkinson, Wisconsin. He is a graduate of Minnesota Agricultural College, who remembers the Red River Valley as it was in 1896 when he did agricultural extension work in this section.

School Farmers' Week Meetings

FEBRUARY 5, 6, 7, 8, AND 9, 1923

WEDNESDAY, FEBRUARY 7

Live Stock Parade in Livestock Pavilion, 9:30 A. M.
 Livestock Meeting in Armory, 10:00 A. M.
 Luncheon Meeting of Northern Minnesota Poultry Association, Crookston Association Banquet Room, 12:00 o'clock.
 Livestock Meeting in Armory, 1:30 P. M.
 Business Meeting of Red River Valley Livestock Association, 5:00 P. M.
 Business Meeting of Red River Valley Crops and Soils Assn., 5 P. M.
 Annual Banquet of Red River Valley Livestock Association, Crookston Association Banquet Hall, 6:00 P. M.
 Evening, Address by Dr. Roy L. Smith, Minneapolis. Subject, "At the End of the Rainbow." Armory.

THURSDAY, FEBRUARY 8

Red River Valley Winter Shows General Meeting to discuss farm marketing problems, in Armory, 9:30 A. M.
 Luncheon Meeting of Minnesota Red River Valley Development Association at Crookston Association Banquet Room, 12 o'clock.
 Holstein Sale in Livestock Pavilion, 1:00 P. M.
 Farm Marketing Meeting in Armory, 1:30 P. M.
 Red River Valley Guernsey Breeders' Meeting, 4:30, Armory.
 Evening, Address by President James A. Burns, Oneida College, Kentucky. Armory.

FRIDAY, FEBRUARY 9

Diversified farming conference, in Armory, 9:30 A. M.
 Beef Cattle and Hog Sales in Livestock Pavilion, 1:00 P. M.
 Luncheon Meeting of Northwest School of Agriculture former students and Alumni at Rap's Restaurant, 12:30 o'clock.
 Farm and Home Problems Meeting in Armory, 1:30 P. M.
 Evening, Red River Valley Song Festival by combined Men's Chorus from twelve communities, 150 voices. Armory.

INFORMATION

Reduced railroad rates have been granted. Fare and one-half, open rate. No certificates are required. Tickets are on sale February 3 to 9, inclusive, with final return limit, February 12.

On arriving at the Red River Valley Winter Shows building, secure tickets for the day or the week. There is no charge for the day sessions held in the Armory or the women's meetings held in the Presbyterian church.

For lodging accommodations inquire at the Lodging Booth at the Winter Shows building.

Be sure to read carefully the announcements in these pages for the different association meetings, shows and conferences.

Attend evening programs in the Armory, Monday, Tuesday, Wednesday, Thursday and Friday. They begin with a band concert or orchestra program at 7 o'clock. Mrs. M. Lucille Holliday Swain will lead singing by the audience on Tuesday, Wednesday, and Thursday evenings. The Red River Valley Song Festival will be held on Friday evening.

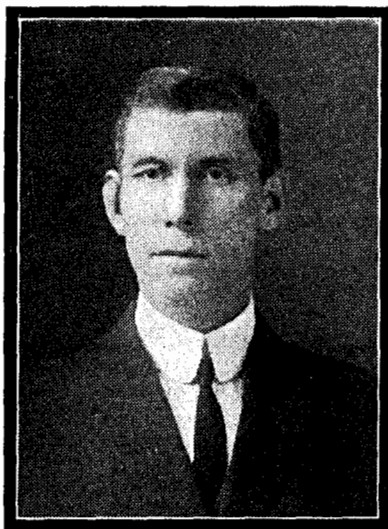
Note the luncheons and dinners given by various organizations. These are very interesting events. Opportunity is presented to get acquainted with members from other counties. The secretaries of these organizations will be glad to furnish you with a ticket.

Tuesday, February 6, will be Minnesota Crop Improvement Association Day. Special topics relating to farm crops will be given on that day and on the day preceding. A program will be found on another page of this bulletin. Red River Valley folks are hosts to the state association this year. Let us join the farm crops groups on those days.

Wednesday, February 7, will be Red River Valley Live Stock Association Day. Judging the live stock exhibits will be completed on the day before. Special features will be provided for Wednesday's program. The Northern Minnesota Poultry Association will hold its annual meeting on February 7, also.

On Thursday and Friday, February 8 and 9, topics of special interest to Red River Valley farmers will be presented. Farm marketing problems and timely addresses on how to increase farm profits will feature these two days.

The Red River Valley Guernsey Breeders' Association will meet Thursday afternoon, February 8, at the Armory, in room at left of entrance. Leonard Houske, secretary.



PRESIDENT JAMES A. BURNS
 Oneida College, Kentucky, who will speak on Thursday evening, February 8. His subject will be: "Burns of the Mountains."



DR. PRESTON J. BRADLEY
 Chicago, who will speak on Tuesday evening, February 6. Subject: "The United States of Tomorrow."

Program of Thirteenth Annual Northwest

TO BE HELD AT CROOKSTON

The Northwest School of Agriculture Alumni Association meeting will be held at Rap's Restaurant on Friday, February 9. There will be a luncheon served at 12:30 o'clock, followed by a special program. The annual business session will follow. All member of the Alumni Association are requested to attend the luncheon and meeting. W. V. Sprung, Ada, is in charge. Make reservations for the luncheon.

WOMEN'S MEETINGS

The general plan for the Women's Meetings includes an afternoon session on Tuesday, February 6, and both forenoon and afternoon sessions on Wednesday, Thursday and Friday. The women's meetings will be held in the Presbyterian church. Miss Lucy Cordiner, extension specialist in nutrition, will be here the last three days of the course. The Friday afternoon session will be a joint session held in the Armory, at which both the men and the women will be in attendance.

Luncheon meetings of the various valley organizations are open to the women as well as to the men. Tickets may be secured from the secretaries of these organizations.

MONDAY, FEBRUARY 5

9:00 A. M.

Live Stock and Farm Crops Judging Contests
 Farmers' Club Live Stock Judging Contest.
 High School Live Stock Judging Contest. Judges: Sheep, D. B. Morris; Horses, W. E. Morris; Dairy Cattle, L. V. Wilson; Beef Cattle, W. H. Peters; Swine, E. F. Ferrin.
 High School Farm Crops Judging Contest. Judges: T. A. Erickson, A. J. Kittelson and R. F. Crim.
Judging Minnesota Crop Improvement Association Exhibits
 Grain Exhibits: T. J. Harrison, Manitoba Agricultural College, Winnipeg.
 Corn Exhibits: C. E. Brown, Elk River; J. T. Scott and Lee Alexander, University Farm, St. Paul.
 Potato Exhibits: C. E. Brown, Elk River.
Judging Red River Valley Live Stock Association Cattle, Swine and Sheep Exhibits
 Holstein Classes: H. H. Kildee, Ames, Iowa.
 Guernsey Classes: L. V. Wilson, University Farm, St. Paul.
 Beef Cattle Classes: A. A. Dowell, University Farm, St. Paul.
 Swine Classes: E. F. Ferrin, University Farm, St. Paul.
 Sheep Classes: W. C. Coffey, University Farm, St. Paul.
 Junior Classes: L. V. Wilson, University Farm, St. Paul.
Judging Northern Minnesota Poultry Association Exhibits
 Poultry Classes: George W. Hackett, Minneapolis.

3 P. M., AT ARMORY

Annual Convention of Minnesota Crop Improvement Association,
 C. E. Brown, Elk River, Presiding.
 Better Seed for Northwestern Minnesota, E. R. Clark, Northwest Experiment Station, Crookston.
 Alfalfa for the Red River Valley, R. F. Crim, University Farm, St. Paul.
 Performance of Recommended Minnesota Varieties at Central and Sub-stations, A. C. Arny, University Farm, St. Paul.
 The Minnesota Crop Improvement Association Program will be continued on Tuesday, February 6.

5:45 P. M.

Dinner Meeting of Judging Teams and of Junior Live Stock Show Exhibitors, at Rap's Restaurant

MONDAY EVENING

Armory

7:00 Music—Crookston High School Orchestra, H. W. Schwartz, Director.
 Tenth annual Red River Valley Rural School Spelling Contest. Committee in charge: E. K. Sampson, Ada; N. A. Thorson, Crookston, and Erba Pouliot, Red Lake Falls.
 Northwest School Glee Club, Louise Pederson, Director.
 (a) "Old Glory" Adams
 (b) "The Brotherhood of Man" Auber
 Address—Dean W. C. Coffey, Department of Agriculture, University of Minnesota. Subject: "The Farmers' Program."
 Announcement of Awards in Annual Red River Valley Essay Contest. Subject: "The Winter Shows as a Factor in Development of Diversified Farming in the Red River Valley." Committee in charge: S. A. Aas, Fertile; David Johnson, Warren, and Jos. Hamre, Erskine.
What the Poultry Exhibit Shows: Be sure to see the entries in this year's Northern Minnesota Poultry Association poultry shows. The officers of the association, the judges, the superintendents of departments and the owners will gladly discuss the individual merits, breeding and records of the birds exhibited.
 The annual business meeting of the Northern Minnesota Poultry Association will be held in the Crookston Association Banquet Room on Wednesday, immediately following the noonday luncheon.

TUESDAY, FEBRUARY 6

9:30 A. M.

Judging Live Stock Classes, Begun on Monday, Will Be Continued on Tuesday until all the Awards Are Made. In Livestock Pavilion.

10:00 A. M. ARMORY

Minnesota Crop Improvement Program
 Report of Red River Valley Crops and Soils Association, R. S. Dunham, Northwest Experiment Station, Crookston.
 Producing Minnesota Pedigreed Seed, A. D. Haedcke, University Farm, St. Paul.
 International Seed Trade, C. P. Bull, State Weed Inspector, St. Paul.
 The annual meeting of the Minnesota Crop Improvement Association will be held in conjunction with the program of Tuesday forenoon. Arrangements for this will be made by the officials in charge.

NOON LUNCHEON

Luncheon meeting, held under the joint auspices of the Minnesota Crop Improvement Association and the Red River Valley Crops and Soils Association, in Crookston Association Banquet Room, 12 o'clock. A. J. Glover, Fort Atkinson, Wis., and C. E. Brown and C. C. Williams, presidents of the Minnesota Crop Improvement Association and the Red River Valley Crops and Soils Association, respectively, and others will speak.

1:30 P. M.

Farm Crops Meeting in Armory.

Corn Demonstration, by Iver Johnson and Julian Halvorson, Students of the Northwest School of Agriculture, Crookston.

2:00 P. M.

The Production of Improved Varieties of Crops for the Red River Valley. An outline of work being done by the Plant Breeding Section at University Farm. Fred Griffec, University Farm, St. Paul.

Methods of Reducing Losses from Black Stem Rust, E. C. Stackman, University Farm, St. Paul.
 Pure Seed Distribution in Canada, T. J. Harrison, Winnipeg, Manitoba.

TUESDAY EVENING

Armory

7:00 Music—Crookston Municipal Band, H. L. Smith, Director.
 Wheat Demonstration, Wallace Miller and Arnold Swanson, Northwest School of Agriculture.
 Community Singing, led by Mrs. Lucille Holliday Swain.
 Crookston High School Girls' Glee Club, Ruth Hill, Director.
 (a) "Carmena Waltz" Wilson
 (b) "Bowl of Roses" Clarke
 Address—Subject: "The United States of Tomorrow," Dr. Preston J. Bradley, Chicago.

What the Farm Crops Exhibit Shows: Be sure to see the samples of this year's Minnesota Crop Improvement Association and Red River Valley Development Association show. Discussion regarding the exhibits, led by A. D. Haedcke and R. S. Dunham.

WEDNESDAY, FEBRUARY 7

9:30 A. M.

Parade of Prize Winning Live Stock in Live Stock Pavilion.

Presentation of Silver Trophies as awards for:
 1. Best Beef Herd in Red River Valley.
 2. Best Dairy Herd in Red River Valley.
 3. Best Swine Herd in Red River Valley.
 4. Best Sheep Flock in Red River Valley.
 5. Best Dairy Calf in Junior Live Stock Show.

10:00 A. M.

Livestock Meeting in Armory

10:00 Raising Meat Producing Animals in the Red River Valley, W. H. Peters, University Farm, St. Paul.
 10:30 Relation of Live Stock Production to Farm to Farm Crop Production in the Red River Valley, A. J. Glover, Editor, Hoard's Dairyman, Fort Atkinson, Wisconsin.
 11:00 Selection and Feeding of the Dairy Cow, H. H. Kildee, Iowa State College, Ames, Iowa.
 11:30 Discussion.

1:30 P. M.

1:30 Sheep on Red River Valley Farms, Demonstration, Kittson County Boys' Club Team.
 2:00 Address, J. F. Reed, President, Minnesota Farm Bureau Federation.
 2:30 A Constructive Policy for the Control of Live Stock Diseases in Minnesota, Dr. C. E. Cotton, Secretary, Minnesota Live Stock Sanitary Board, St. Paul.
 3:00 Pastures and Plans for Profitable Swine Production, H. H. Kildee.
 3:30 Live Stock on Farms Operated by Tenants, A. J. Glover.
 4:00 A Forward Look in Live Stock, Dean W. C. Coffey.
 4:30 Discussion.

5:00 P. M.

The annual business meeting of the Red River Valley Live Stock Association will be held immediately following the afternoon program. The annual meeting of the Red River Valley Crops and Soil Association will be held in room at right of entrance in Armory. R. S. Dunham, secretary.

6:00 P. M.

The Annual Banquet of the Red River Valley Live Stock Association will be held at Crookston Association Banquet Hall. Secure tickets in advance from Secretary O. M. Kiser.
 An interesting program will be given, including addresses by N. J. Holmberg, state commissioner of agriculture, members of the state legislature, and others.

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School Farmers' Week Meetings

FEBRUARY 5, 6, 7, 8 AND 9, 1923.

WEDNESDAY EVENING

Armory

- 7:00 Music—Crookston Municipal Band, H. L. Smith, Director. Community Singing, led by Mrs. Lucille Holliday Swain. Northwest School Boys' Glee Club, Louise Pederson, Director.
 (a) "We'll Never Let the Old Flag Fall".....Remington
 (b) "Southern Memories".....Old Plantation
 Address—"At the Foot of the Rainbow," Dr. Roy L. Smith, Minneapolis.

What the Live Stock Exhibit Shows: Be sure to see the entries in this year's Red River Valley Live Stock Association live stock show. The officers of the association, the judges, the superintendents of departments and the owners will gladly discuss the individual merits, breeding and records of the animals exhibited.

THURSDAY, FEBRUARY 8

9:30 A. M.

Winter Shows General Meeting—Armory

- 9:30 The Farmer's Part in Solving the Market Problems, A. J. McGuire, St. Paul.
 10:15 The Relation of the Farmer to his Farm Organizations, T. H. Hagen, Minneapolis.
 11:00 General Principles of Cooperation Among Farmers, J. S. Montgomery, South St. Paul.
 11:30 Discussion.

1:30 P. M.

- 1:30 Demonstration by Northwest School Students.
 2:00 Potato Marketing Problems, A. M. Dunton, Bagley.
 2:30 Transportation Costs as a Factor in Farm Marketing, H. J. Hughes, Capitol, St. Paul.
 3:00 Farm Marketing Conference Discussion, led by Mr. M. L. Warner, Warren.

NOON

At noon there will be a Luncheon Meeting of the Minnesota Red River Valley Development Association at the Crookston Association Banquet Hall. Secure tickets from C. H. Zealand, secretary.

Holstein Sale

At 1:00 o'clock there will be a sale of registered Holsteins in the Live Stock Pavilion. Send to O. M. Kiser, secretary for sale catalog.

Guernsey Breeders' Meeting

At 4:30 o'clock there will be a meeting of the Red River Valley Guernsey Breeders' Association in room at right of entrance in Armory. L. Houske, secretary.

THURSDAY EVENING

Armory

- 7:00 Music—Crookston Municipal Band, H. L. Smith, Director. Community Singing, led by Mrs. Lucille Holliday Swain. Crookston High School Boys' Glee Club, Ruth Hill, Director.
 (a) "Here's a Health to You, Old High".....Parks
 (b) "Just Smile".....Parle

Address—President James A. Burns, Oneida College, Kentucky. Special Exhibit: A Special Industrial and Farm Machinery Exhibit can be seen in Annex B. Numerous kinds of equipment both for the farm and the home will be on display. The exhibit will be open during the entire week.

FRIDAY, FEBRUARY 9

9:30 A. M.

Diversified Farming Conference—Armory.

- 9:30 Sweet Clover for Pasture, August Burk, Brooks.
 10:00 Soy Beans for the Red River Valley, R. S. Dunham, Northwest Experiment Station, Crookston.
 10:30 Corn for the Red River Valley, J. G. Haney, Grand Forks.
 11:00 Sugar Beets for Red River Valley. Subject introduced by F. H. Ross, Fisher.

1:30 P. M.

Joint Meeting of Men and Women—Armory

- 1:30 Music
 1:45 Sugar Beets for the Red River Valley, L. E. Flink and H. A. Douglas, Minnesota Beet Sugar Factory, Chaska.
 2:30 Address—Miss Lucy Cordiner, Extension Specialist in Nutrition, University Farm, St. Paul.
 3:15 Successful Diversified Farming Practices for the Red River Valley. Subject introduced by John Perry. Discussion by C. G. Selvig, J. G. Haney, A. M. Pilkey, and others. General Discussion.

Beef Cattle and Hog Sale

At 1:00 o'clock there will be a sale of registered Chester White, Poland China and Duroc Jersey swine and of Skorthorn cattle in the live stock pavilion. Send to O. M. Kiser, secretary, for sale catalog.

NOON

At noon there will be a luncheon meeting of the Northwest School Alumni Association at Rap's Restaurant. Secure tickets from W. V. Sprung, Secretary, or Mr. A. H. Larson.

FRIDAY EVENING

Armory

- 7:30 Red River Valley Song Festival.
 Grand Chorus of 150 members from a dozen Red River Valley communities. Detailed program will be issued later.
 Special Exhibits: A special exhibit prepared by the Northwest School of Agriculture can be seen on the second floor of the Live Stock Pavilion. Exhibits by the State Grain Grading Department, by the Plant Breeding Department of Minnesota College of Agriculture and by the Barberry Eradication Conference can be seen in the same building. These exhibits are well worth seeing and studying.

DRAINAGE PROJECTS BEFORE THE COURT

The Clearwater and Red Lake drainage and flood control projects, which have been carried on under the Red Lake Drainage and Conservancy board, were heard before the district court during the first week of December. They are now under advisement by the judges of the court.

An appropriation of \$25,000 covering the engineering work of these projects, was made by the state at the last session of the legislature. Comprehensive surveys were necessary, as the two areas combined total nearly 500,000 acres.

Agitation for improving the channels of the Clearwater and Red Lake Rivers has been going on for the past twenty to thirty years. It reached an acute stage in 1919, following the heavy rains during that season. The records show that there have been at least five or six other seasons when

the settlers in those basins have attempted to secure relief.

The Red Lake river improvement project is unique in that the proposed plan provides water power benefit as well as flood relief. Under the plan proposed by the drainage board, the water powers will pay at least one-half of the cost of this improvement. Many estimate that they will pay a larger amount than this as the demand for electric energy in the state grows. The drainage board has adopted the plan that will absolutely insure to the owners of land assessed for the Red Lake project the greatest return from the water power benefit.

Considerable anxiety has been expressed by farmers in both the Red Lake and Clearwater basins as to the amount of assessment against their lands. Interest only is all that will be paid during the first five years. After that one-fifteenth of the total will be payable each year. This plan permits the improvement to begin to return benefits before any considerable outlay is required. It is estimated by those familiar with the situation that the benefits in any one year when there is an excess of water will more than pay three times the cost of any farmers' assessment.

INTER-SCHOOL DEBATE

Unusual interest has been shown in the inter-school debate scheduled for the early part of March, and a large number tried out for places on the team. Eight students have been selected to prepare the debate. Of these, six will be selected for the finals, while two will act as alternates. The members of the teams are as follows: Iver Johnson and Earl Anderson and Helen Gibbons, Crookston; Arnie Solem, Thief River Falls; Klaire Edgar, Bagley; Albert Kopeck, Angus; Wallace Miller, Roseau, and Sylvia Stegner, Kennedy.

The question for debate will be: "Resolved: That Congress should relieve the existing agricultural depression through the establishment of a government corporation to finance the sale of agricultural products."

One team will debate the team representing the North Dakota Agricultural School at Fargo, while a team from the West Central School of Agriculture, Morris, will be the other opponent. Last year the Northwest School debated the Fargo team and won unanimous decisions here and at Fargo.

Farm Bureau Reports for 1922

(Continued from Page 2.)

later. J. J. McCann is the county agent.

MAHNOMEN COUNTY WORK

In the Spring of 1922, twenty-five tons of treble super-phosphate were distributed among 37 farmers, practically all from the township in which the demonstration had been conducted the previous year. Additional demonstration plots were put in during this summer. Three tests, in different sections of the county, were made on potatoes. The acid phosphate and the commercial 2-8-5 were applied, with a check plot between the two. It was found that the 2-8-5 yielded 246.5 bushels per acre; the acid phosphate 217.5 bushels per acre, and the check 113 bushels per acre. This means that it costs about \$.50 a bushel to produce the 113 bushels per acre, and the increase about \$.09 per bushel. A forty ton car was shipped in by the Farm Bureau this fall, and from present indications at least five cars will be used next spring.

In the spring of 1922 the Farm Bureau decided to put on a campaign to dispose of pocket gophers, which had become a troublesome pest. Strychnine, the poison used, was purchased in large quantities and distributed among the farmers free of charge. The method used for poisoning is very simple and can be used by anyone. The poisoning project has meant a reduction of about 40% of the pocket gophers in the county, which resulted in a saving of thousands of dollars to farmers. F. L. Behling is the county agent.

ROSEAU COUNTY WORK

The Roseau county farm bureau organization has an enrollment of 785 members. There are thirty local organizations in the county, part of which hold regular monthly meetings. The most important features of the work in each unit were the promotion of dairying, a silo campaign, increasing corn acreage, tuberculin testing, butterfat testing, dairy feeding schools, standardizing of potato varieties, potato disease control, potato seed plot demonstrations, poultry culling, housing and feeding, and the encouragement of boys' and girls club work.

Eighteen pure bred sires were introduced in the county during the year, as well as several pure bred heifers. Pure bred hogs have increased in the county considerably.

The cooperative creameries in the county have pooled their butter shipments, resulting in the shipping of one car of butter per week since last May. The saving in freight has amounted to about 30 cents per 100 pounds.

During the year 17 herds of cattle were tested for tuberculosis and only one per cent reacted.

Sweet clover was encouraged in the southwestern part of the county, where it seems to be best adapted. Alfalfa raising was encouraged throughout

the entire county. The corn in Roseau county this season was doubled over that of last year. Fifteen new silos were erected during the year.

The Roseau county wool pool was reorganized, resulting in the members receiving from 5 to 12 cents more per pound than that which was paid locally. Three egg marketing circles were started in the county, with the result that the prices were 9 cents above the local market.

Boys' and Girls' Club Work.

There were two bread making clubs, one pig club and two potato clubs organized in the county during the last year, with an enrollment of 75. Liberal prizes for all club work were provided by business men within the county. Six club members attended the state fair as winners in local contests.

The future prospects for farm bureau work in Roseau county are very bright. On all sides are noted evidences of willingness to cooperate. J. W. Taylor is the county agent.

KITTSON COUNTY WORK

Kittson county farmers, and boys' and girls' club member have made enviable records during the past year in various competitions which they have entered. There were 29 boys' and girls' club members at the state fair, winning second on club exhibit, championship in crop and stock teams, first in sheep judging and two places on the state team that went to Sioux City. \$1575 was offered in 1922 for boys' and girls' club work within the county by fairs, banks, businessmen and farmers clubs.

Kittson county shipped 929 cars of potatoes in 1921. In 1922 the acreage had increased to 11,000 acres. In 1918 38 pounds of corrosive sublimate were used for treating potatoes. In 1922 1091 pounds were used. A great many growers were raising certified seed potatoes.

In livestock the county has advanced rapidly. It ranks second in the state in sheep. It had 155 pure bred bulls, as compared with 11 in 1914, and 78 silos as compared with none in 1914. Nine thousand acres of corn were grown in 1922.

There has been a great increase in the acreage of sweet clover, alfalfa and other clovers, a total in 1922 of 23,000 acres. The principal work being done, according to W. V. Longley, who is county agent, is that the system of farming is being changed from a one-crop non-rotation system to a diversified system, with stock and clover, corn and potatoes, as well as grain. There is less summer fallow being done, and a greater acreage of cultivated crops. Best of all, he states, is that the boys and girls are being trained in home, crop and stock projects and in demonstration and community work. W. V. Longley is the county agent.

NORMAN COUNTY EMPHASIZES LOWERING COST OF PRODUCTION

The emphasis in the Norman county farm bureau work during the past year has been to assist in lowering the cost of production. The principal work has been done through the local units rather than through individuals. Better live stock, use of purebred sires, better feeding, and the keeping of dairy records are topics that have been heard at all farm meetings and by individual farm visits. Over 200 herds have been tested for tuberculosis or are on the waiting list. Poultry problems have been given attention. Seventeen culling demonstrations were held.

Great interest has been shown in the treatment of seed potatoes and the proper spraying of that crop.

The marketing activities have largely been in assisting the cooperative associations whenever needed. One new potato growers' association was organized with 30 members. The wool growers association assisted in pooling a part of this year's clip. At least ten cents higher per pound was received than would otherwise have been the case.

Bread making, livestock judging and the sow and litter boys' and girls' club projects were carried on during the year.

The use of sweet clover as green manure has given very good results, especially on sandy soil. Fertilizer tests have been carried on in different parts of the county.

In connection with sweet clover work it is found that it meets the needs of a forage crop for the conditions in Norman county to a high degree.

Several cooperators used improved seeds with splendid results. Minnesota No. 2 rye, Rosen rye, Mindum 470 wheat, Minturki winter wheat and certified Grimm alfalfa seed were used.

A carload of grade dairy cattle were shipped to Hendrum. Various activities looking toward the organization of a county livestock breeders' association have taken place during the year.

The Norman county national farm loan association, organized in 1919, has been of great service to the farmers during the past two years. It has been instrumental, also, in stabilizing loan rates in the county. This association at the present time has a membership of 37, with loans aggregating \$177,400. The work for this year shows \$55,500 in loans closed and \$71,300 in applications not yet closed.

Boys' and Girls' Club Work

A two-day junior short course was held in the Ada school. It was made possible by the splendid cooperation of the Northwest School of Agriculture at Crookston, that furnished five instructors. Lectures were given on potato growing, gardening, care and feeding of livestock, and other club projects. An auto tour to four farms was made and instruction and practice work in livestock judging were given at each farm visited.

H. P. Brandt is the county agent in Norman county.

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