

THE NORTHWEST MONTHLY

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VOL. III.

CROOKSTON, MINNESOTA

FEBRUARY
JANUARY, 1919

NO. 73

JUNIOR SHORT COURSE

The seventh annual Junior Short Course will begin Monday, April 7 and continue during the week. This course open to boys and girls from 12 to 18 years of age is meeting with great success each year. The attendance has grown until it is expected that over 300 boys and girls will attend this year. County superintendents, School boards and parents are cooperating in this project. Last year a number of schools sent large delegations allowing full credit for time spent at Crookston.

The courses consist of work intended to deepen the interest of the boys and girls in farm life. Emphasis is placed on club work along lines of gardening, stock judging, pig, calf, chicken raising, sewing, cooking and canning. Lectures are given in evenings. There is something of interest during the entire week—games, singing, pictures and excursions. There is no tuition; instruction is free, the only expense being for board and room which is furnished at cost.

It would be appreciated if all those reading the Northwest Monthly would pass the information to others and work for a large attendance at the Junior Short Course. It is worth while, and anything that can be done to further interest along farm lines should be entered into by every one in the Valley. Mention the course to the local school board and help interest a large number of boys and girls from your vicinity to attend.

HOME ECONOMICS CLUB CONTEST

The class of 1917 left as a memorial to the N. W. S. A. a sum of money. They and their advisors, Mr. and Mrs. T. R. Sewall, have planned an original way to use the annual interest from this sum of money for the benefit of the school. It is to be used to stimulate and add interest to the Home Economics association. Each member of the association was asked to write an original program which would be suitable for a farmers' club meeting. committee consisting of Mrs. C. G. Selvig, Mr. T. M. McCall and Mr. A. M. Foker. The girls winning first, second and third places in the written contest have selected various students who presented their programs before the public on the evenings of Feb. 3, 4 and 5. The programs were kept secret and everyone anxiously look forward to their presentation. _____ won first place in the final contest and was awarded \$5 in gold.



LIEUT. MARTINUS STENSETH
N. W. School of Agriculture
Official "Ace" of U. S. Aviation Corps

BASKETBALL SEASON 1918-1919

Basketball at the Northwest School is being played this season under many unusual handicaps. An entirely new team had to be built up and while there was an abundance of good material, yet sickness delayed the practice season fully one month. A large number of boys are working hard every night getting in shape to maintain the record of the "Aggies."

The following games have been definitely scheduled:

- Feb. 1, Fosston at Crookston.
- Feb. 8, Thief River Falls at Crookston.
- Feb. 21 Warren at Crookston.
- Feb. 28 Stephen at Stephen.
- March 14 Fosston at Fosston.

One game has been played to date with the Argyle High School team in which Argyle won with a big score 53 to 17. Two games will be played with Crookston High School on dates to be arranged later.

The lineup for the year includes, John Swiers, c; A. Andreason, J. Felber and R. Rutherford, forwards; F. Larson, E. Holland and Theo. Peterson, guards.

The class teams are getting in shape with a great deal of high caliber material showing up. The Seniors have been the hardest hit by the war and they admit that their best players are in service. However Tarjie Steenson and others of the Seniors will don their gym suits and show up the other class teams.

SOLDIER NEWS

Every day additional news arrives concerning our boys in France. Many are returning and in passing through Crookston they make it a point to pay the school a visit. It is interesting to hear of their experiences and to know that they have safely passed through the danger and have been honorably discharged.

Walter Peterson passed through Crookston January 6. Walter joined the navy over a year ago, and reached Brest in France, Walter still has better than a year in which to serve. During his period of service, he has become second gunner's mate and has been assigned duty on one of our large battleships.

Alpha Valley of Crookston visited the school January 29. Alpha was assigned duty with the engineer corps at Camp Forrest, Georgia. He reports that Nobel Olson, Oscar Tronnes, Edwin Tronnes and Rasmus Heiberg were at the same camp and that all have been honorably discharged.

Word has been received that Lester Garceau sailed for France on one of the last boats to leave before the armistice. The armistice went into effect while they were still on the Atlantic. The last report from Lester would indicate that he is still in England.

Ingvald Nyflot writes from Newfalden that he has returned from service. Ingvald was in the machine gun corps at Camp Hancock, Georgia and was about to entrain for an Atlantic port when hostilities ceased.

Walter Sheridan expresses himself as being favorably impressed with the city of Paris.

Lieutenant Martinus Stenseth has been officially named an Ace, having downed six Hun planes. This is a wonderful record. Minnesota has furnished two Aces, one of them being Martinus. We are all anxious to hear Lieutenant Stenseth give the details of these battles.

Clarence Lee has been sight seeing in Paris and on the 29th of December was making a tour of the Alps, being located on the border between Switzerland and Italy.

ALUMNI BANQUET

Sufficient response has come from the Alumni to warrant having a banquet and get together Friday, February 14. A number of the boys from service will be present. President Burton and State Superintendent McConnell will be here that day and will be present at the banquet. From last reports, indications are that there will be a very enthusiastic gathering of alumni.

In order that final arrangements may be made it is requested that all who intend to be present should inform Paul Engelstad, Thief River Falls, at the earliest possible date.

PERSONALS

Mr. J. P. Bengton attended a meeting held Jan. 30 and 31 at the University Farm in St. Paul in the interest of the Home Project Work.

Miss Jeanette Qualee, of the English department spent Sunday, Jan. 19 in St. Paul a guest of her sister, Mrs. Oscar Lampland.

Mr. C. A. Forbes, of the State Highway Commission, spoke in chapel Jan. 29 on the subject "Good Roads."

Miss May Kimberly went to St. Cloud Jan. 10 to accompany Monica Graham Stults, who appeared in concert there on that evening.

Supt. C. G. Selvig has been called to St. Paul several times during January as a member of the state committee for lands for returned soldiers and industrial workers.

Mr. C. E. Brown of chicken fame has spent the greater part of January in the southern part of the state judging at poultry shows and speaking at farmers' clubs and other meetings. The latter part of the month he goes to Glyndon and Barnum for judging. Barnum is the greatest poultry center in the state. He expects to be in Crookston for the Farm Crops Show.

Miss M. Lucille Holliday will lead the community singing at the Farm Crops Show. She returns to the Valley for this meeting under the auspices of the War Camp Community Service.

Monica Graham Stults who gave a concert at the Presbyterian Church in Crookston in the evening delighted the students of N. W. S. A. with singing for them at chapel on Tuesday, January 14.

1919 RED RIVER AGGIE

The Seniors have decided to publish an annual this year, and plans are well under way at the present time. Albin Johnson, is editor-in-chief; Henry Nobben, managing editor; Targie Steenerson, Business Manager; and Martha Bauer will look after photographs.

The annual board requests that anyone having pictures of alumni or of boys in service, should mail such material to the board at earliest date possible. Pictures from France are especially desired. Any information dealing with Alumni and their work will also be welcome. All this material should have a prominent place in the Annual. Any cooperation that the board receives will be appreciated.

SPECIAL COURSES

So many requests have come from farmers of the Valley that it has been decided to offer a special four week's course in gas engines and tractors and for stock and dairy herdsmen. These courses will open Monday, February 17 and continue until March 15. No tuition will be charged. The total expense for the term will be \$5.00 for fees and \$18 for board and room.

The work in gas engines and tractors will deal with stationary engines, tractors, and automobiles. Operation, repair work and general construction will be emphasized. Experts will devote their entire day to shop work.

The work for herdsmen will deal with feeding, rations and care of cattle, horses, swine and sheep. The management of the herd will be discussed by expert feeders from various stock farms in the Northwest. The station herd will be used for demonstration, while special trips will be made to stock farms near the school.

If you are interested in these subjects and if you can arrange to leave your work, there certainly can be no better use made of your time than to spend it in studying along these lines. The expense is negligible, the time being during the general slack season on the farm. Why not plan therefore, to avail yourself of this opportunity. Make use of the equipment and instructions that the state provides for you, and make yourself better qualified to carry on the work along the line in which you are most interested.

Farm Engineering.

This course will consist of work with tractors, stationary gas engines and automobiles. Special emphasis will be placed on care of machines, minor repair work, overhauling and operation. The leading types of tractors, engines and automobiles will be demonstrated, thereby offering opportunity to study the various types of machines.

Experts will devote their entire time to this work.

Herd Management Course for Beef and Dairy Cattle, Swine and Sheep

This course will consist of a partial study of the systems of management as practiced by leading farms and will be conducted by the herdsmen from farms which have made a success of the live stock business in a practical way.

The object of the course is to give those who expect to take care of

herds the benefit of the experience of leading herdsmen and veterinarians

The Northwest School herd and equipment will be at the disposal of men for demonstration work.

Prominent herdsmen connected with some of the leading herds will lead the discussion on the following subjects:

Feeding

Study of Feeds
Balancing of Rations
Feeding the Growing Animal
Feeding for Production

Management

Handling the herd sire
Handling the herd for production
Fitting herds for show
Systems of management as practiced by leading farms

Breeding

Value of pure bred sire
Selecting foundation stock
Testing females
Study of pedigrees

Disease Control

Methods of Treatment
Study of disease prevention
Lectures on various diseases
Demonstrations by Veterinarians

Building and Equipment

Study of Building plans
Study of barn equipment
Demonstration of labor saving devices

Marketing

Methods of selling pure bred stock
Value of publicity
Cooperative shipping associations
Preparing stock for shipping
A Practical Course by Practical People for Practical Live Stock Men.

Expenses

Room and board may be secured either at the school or in Crookston. The cost for the four weeks will be as follows:

Enrollment fee.....\$ 5.00
Board and room during entire course13.00

No tuition. Instruction is free.
\$23.00

Bring Bedding.

The school provides necessary furniture in dormitories but does not supply bedding. Each student should bring necessary sheets, blankets, pillow and towels. The rooms are steam heated.

Important Notice.

All those planning on taking these courses should write to the school giving information as to which course will be taken. All trains on February 17 will be met by the school bus. Arrangements will be made for bringing baggage to the school.

Address, Northwest School of Agriculture Crookston Minn.

Northwestern Minnesota Farmers' and Women's Week at Crookston February 10-14, 1919

Interest among the Red River Valley farmers and townspeople is centering in the Northwestern Minnesota Farmers' and Women's Meetings which will be held at Crookston during the week of February 10. Reconstruction plans, necessary to return to a peace basis, with the chief emphasis given live stock raising are the outstanding features that will be taken up. Organized under the auspices of the University of Minnesota Northwest School of Agriculture, these meetings are held at the same time as the Farm Crops Show, the Winter Live Stock and Sale, and the Poultry Exhibit. Closely related are the annual meetings of the Red River Valley Potato Growers Association, the Northwestern Minnesota Farm Bureaus, pure seed cooperators of the Northwest Experiment Station, and the Alumni Association of the Northwest School of Agriculture. All of these earnest groups of farmers are actively cooperating to realize more fully the possibilities of this section of the state. The Minnesota Red River Valley Development Association is sponsor for the farm crops exhibit being actively supported by the Crookston Association of Public Affairs.

Rural School Contests.

As a preliminary to the week's program the rural schools of the northwestern Minnesota counties will hold an annual spell-down, besides an essay contest in which thousands of rural school and village pupils will submit their ideas on "Cattle Raising in the Red River Valley." Prizes are awarded to the best spellers and to the boy and girl in each county who sends in the best essay. Public speaking is not neglected in this enterprising Valley, for the fifth annual high school declamatory contest is to be held on Monday evening, February 10, at the opening meeting of the week's activities.

Stock Judging.

Live stock judging contests occupy the interest of a large number of teams divided into three groups, which are composed of agricultural school students, farmers' club members, and of rural township teams. These are competing for premier honors in the interesting and practical art of judging and selecting the best cows, sheep, swine and horses. This year the women will enter the arena, not in stock judging, but in baking, canning and sewing matches, city ward will compete against city ward and the country in friendly rivalry, against their city cousins. In addition, the women are planning to hold a hat clinic when the old delapidated "has been" Easter-morning-pride will be brought from the attic and converted under

the magic touches of the artist, into a modern creation.

Large Exhibits Expected.

The Farm Crops exhibit bids fair to excel its predecessors both in the number of entries, the varieties of grain exhibited and the quality of the grains. All of the counties will be represented according to C. H. Zealand, secretary, who with Professors R. O. Westley and T. M. McCall of the Northwest School of Agriculture have been busy the past month cooperating with the county agents in the different counties. They have been securing the best quality of grains grown during 1918 for the exhibit. The grains and corn will be displayed in the Armory. The potato exhibit promises to excel that of the previous year, and will comprise the various Red River Valley varieties grown from Clay county to Roseau.

N. A. Thorson, of Polk county, is in charge of the entries in the girls' and boys' club competition including both corn and potatoes grown in the state club contest. Many entries are expected. Other club work will be featured, including a bread making demonstration by the Erskine bread-making team which won the state championship in 1918. The McIntosh canning team which won Northern Division honors, will also give a demonstration during the week.

The annual farm machinery display including farm implements of all kinds, will have as a special feature this year 12 to 15 farm tractors. The tractors will be found in the exhibit room of the new live stock pavilion.

Live Stock Show a New Feature.

A winter live stock show will be held for the first time in the new pavilion which it has been possible to build since the armistice was signed due to the character of the winter weather. Secretary W. V. Gousseff is busy checking up 200 entries already received from the leading breeders of the Valley. The poultry fanciers will hold their annual exhibit at the same time and are reporting an unprecedented number of entries.

Strong Program Arranged.

Leading experts are scheduled for addresses and demonstrations during the Farmers' Week Meetings, according to C. G. Selvig, general chairman of the week's activities. The forenoon sessions have been divided into sections in order to permit various groups to secure the special subjects that appeal to them. Following the stock judging on Monday, the formal meetings open on Tuesday with farm business and farm profits as the topics for the day. These subjects will be discussed by Professor Andrew Boas of University Farm, St. Paul, followed

by Professor A. C. Army on "Pastures and Meadows", P. E. Miller, Morris, on "Alfalfa"; Dr. E. C. Stakman, St. Paul, "Black Wheat Rust and its Causes"; and J. F. Ingersoll, Chairman of the Duluth board of grain appeals, on "The Federal Wheat Grades". A conference on the common barberry will be held in the afternoon, followed by a smut treatment demonstration and weed eradication. A gas engine and tractor school will be held during the forenoon of each day of the week. This will be conducted by experts and is expected to be of the greatest value to the tractor owners and operators.

The evening address on Tuesday, February 11, will be on the subject of "The New Program for Public Education" by Dean L. D. Coffman, College of Education, University of Minnesota.

Live Stock Sale

The outstanding event on Wednesday, February 12, will be the sale of pure bred stock by the Red River Valley Live Stock Association. Preceding this sale the new \$25,000 pavilion, built cooperatively by the farmers and business men of Northwestern Minnesota will be formally presented to the stockholders by C. G. Selvig, president of the Red River Live Stock Association, and will be followed by short addresses by men interested in live stock raising. One hundred head of pure bred stock will be sold at this sale, consigned by the leading breeders. It will be followed by addresses on live stock subjects by experts and by representatives of the delegations from Minneapolis, St. Paul, South St. Paul, Duluth and Grand Forks, after which the Red River Valley Live Stock Association will hold its annual meeting and banquet. The live stock pavilion built by this association is a credit to the entire state and that it will be the means of stimulating live stock production is freely predicted by all. Thomas Brooks Fletcher of Marion, Ohio, will give the principal address at the general meeting Wednesday evening.

Potato Growers' Meeting

Thursday's program will be devoted to potato growers' problems, poultry and live stock subjects. In the afternoon, Dean R. W. Thatcher, of the Department of Agriculture, will speak on "The Farmer in Peace Time", followed by Dr. C. W. Gay who will discuss live stock raising in relation to the reconstruction problem. Carlos Avery state game and fish commissioner, is scheduled for an address on "The Fish Crop". The evening address will be given by Thomas Brooks Fletcher of Marion, Ohio.

(Continued on next Page)

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.

FROM THE BANKS OF THE RHINE

"There is only one man besides myself out of two hundred-fifty men who has come through all with this company."

So writes Sergeant Herbert V. Anderson of 75th Company, 6th Regiment Marines, from Honningen, Germany, on December 26.

This sentence means more when we know the fighting record of his company which was a member of the second division.

Here is the story told in Herbert's own words:

"You probably want to know what battles I was in over here. Well last spring, on March 17, we went into the trenches at Verdun, and remained there until May 6th. From June 1 to July 26 we were in Chateau Thierry in Belleau Woods, from July 17 to 23 at Soissons, from August 1 to September 16 in the St. Mihiel sector, from October 1 to 25 in Champagne, and from October 28 to November 11 in Argonne. Some of the hottest fighting of the war was done between November 1 and 11. It was the fact that every man knew that it was the finishing blow to the enemy that gave us the "pep" and vim with which we conquered them. We went over the top about two hours before the armistice was signed."

We are now in the army of occupation, having started on November 17 through part of France, Belgium, Luxemburg and a long ways into Germany, arriving at Brohl on December 9 and arriving here on the 13.

Herbert promises us an interesting story when he returns.

COME

The meetings, exhibits and conferences to be held in Crookston next week merit the attendance of a large number from the various communities in this section of the state. The daily program is printed in this issue of the Monthly. Additional copies may be secured by writing to the Northwest School of Agriculture.

It is your week.

Tell your neighbors of it.

Plan to come.

NORTHWESTERN MINNESOTA FARMERS' and WOMENS' MEET AT CROOKSTON

February 10-14, 1919

(Continued from Page 4)

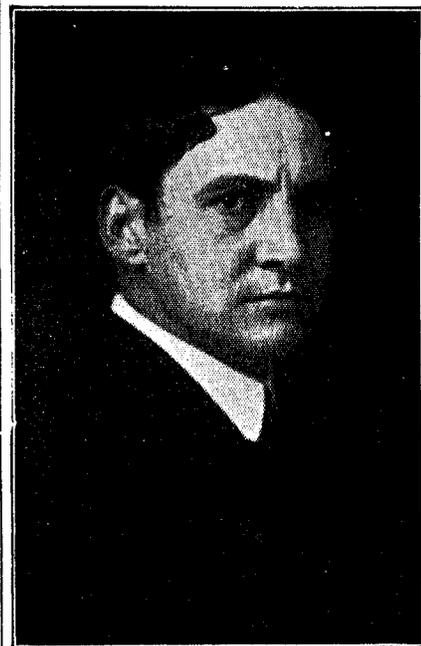
Farm Bureau Meeting.

On Friday, February 14, district leader of county agents W. E. Morris, will preside at a session of the Northwestern Minnesota farm bureau members. County agricultural agents will discuss the various lines of work taken up by these organizations in the Northwest counties including hog pastures, peat demonstrations, seed potato work, live stock improvement and county agricultural problems. This will be followed by an address by F. E. Balmer, state leader of county agents, on "The Farm Bureaus of the Future", which will be discussed by C. B. Goodrich of Roseau county, Martin Borass of Kittson county, and M. L. Warner of Marshall county.

Development Association to Meet.

In the afternoon the annual meeting of the Minnesota Red River Valley De-

velopment Association will be held with its president, S. M. Sivertson, of Crookston, presiding. Preceding this meeting will be the presentation of the Polk county Liberty Loan banners to the townships and villages that participated in the Fourth drive last fall, which will be followed by an address by President M. L. Burton of the University of Minnesota. He will also speak at the evening session on "The New America", concluding the week's program.



THOMAS BROOKS FLETCHER
Marion, Ohio

velopment Association will be held with its president, S. M. Sivertson, of Crookston, presiding. Preceding this meeting will be the presentation of the Polk county Liberty Loan banners to the townships and villages that participated in the Fourth drive last fall, which will be followed by an address by President M. L. Burton of the University of Minnesota. He will also speak at the evening session on "The New America", concluding the week's program.

At the Development Association meeting addresses will be given by A. D. Wilson, Senator F. L. Cliff, and C. M. Babcock, featuring better agriculture, flood control, good roads, and Valley development. Resolutions will be proposed outlining the Red River

district's views on current problems and pending legislation.

Women Greatly Interested.

The women's meetings will be of unusual interest this year, embracing as they do, a variety of subjects that are of interest to all. Prominent among the speakers at these meetings which will be held on the afternoon of each day are Miss Mae Secrest, leader of home demonstrators, Mr. Frank J. Bruno, chairman of Northern Division of the Red Cross, Mrs. Mabel Sewall, home demonstrator in Carlton county, Mrs. Hayle C. Cavanor, home specialist of the Associated Charities at Minneapolis, Mrs. G. J. Allen, president of the Minnesota Federation of Women's Clubs, and others. The general meetings will be held in the Presbyterian church with sectional meetings scheduled in other parts of the city to care for the crowds that will attend.

Community Singing Again.

An outstanding feature of interest during the Farm Crops Show and meetings has been the community singing. This will be conducted again by Miss Lucille Holliday who will come to Crookston through the cooperation of the War Camp Community Service of Minneapolis. Miss Holliday was formerly a member of the Northwest School of Agriculture faculty and created through her ability as a song organizer an intense interest in community singing. The Red River Valley boasts of a group of Valley songs with words and music which have come to be very popular with the people of this section of the state. Community singing by two thousand strong will be looked forward to by all at the meetings during both the afternoon sessions and at the combined general meetings each evening.

Special train service is being secured from Thief River Falls and Red Lake Falls on the Great Northern as well as on the Northern Pacific line from Detroit and on the Halstad line.

Returned soldiers will be the guests of the different associations which will hold their meetings during the week and it is expected that a large number will be in attendance.

The committee in charge of the various exhibits, contests and meetings freely predict the most successful week since the first one which was held as a farmers' short course at the Northwest School of Agriculture in 1910. The meetings and exhibit have grown steadily with greatly increased interest taken in every department each year. Most remarkable has been the increased interest taken in live stock development which is the Valley's greatest need at the present time.

POTATO PURE SEED WORK FOR 1919.

The policy of sending out pure variety strains of seed potatoes will be followed again this season. The Early Ohio will be the chief variety sent out, however, growers wishing other standard varieties can be put in touch with good seed stock.

The object of the work during the past season was to introduce a good type of the Early Ohio variety into communities that were not growing purebred varieties, and also to eliminate as far as possible the tuber diseases from such purebred seed stock. The stock used in 1918 was an excellent type of Ohio grown in Clay county which came from seed which had been treated for several successive years. It is evident from field inspections that some black-leg and dry rot had been in the seed bins but where the seed stock was treated according to pure seed plot methods and given corrosive sublimate treatment the injury from disease was reduced to one half of one per cent in a large number of fields.

Absolute disease elimination cannot be guaranteed for the seed plots for the disease producing organisms may be left in the soil from former potato crops, or they may infect the clean seed from the sacks, vessels or other containers used in handling the seed. The seed plots in Red Lake County gave an average yield of 210 bushels per acre as compared to 110 bushels from local grown seed of the same variety untreated.

There will be some seed for distribution this year that was grown at the Northwest Experiment Station in 1918. It is planned to clip and clean all small quantity lots sent out from the Station this year.

Plan with the Northwest Experiment Station and your county agent to get a pure seed plot started and to treat all seed planted in 1919.

NORTHWEST EXPERIMENT STATION NOTES CROOKSTON, MINNESOTA

A regular department of "The Northwest Monthly" devoted to farm problems, conducted by members of the staff.

STATION STAFF:

- C. G. Selvig, Superintendent.
- C. E. Brown, Poultry.
- A. M. Foker, Farm Buildings, Drainage.
- T. M. McCall, Horticulture, Potatoes, Root Crops.
- H. S. Records, Home Projects, Pure Seed Distribution.
- W. V. Gousseff, Live Stock
- R. O. Westley, Field Crops, Farm Management.



EDWARD RUD
N. W. S. A. '12

1918 REPORT OF NORTHWEST EXPERIMENT STATION

Due to a number of causes the publication of the annual report of the Northwest Experiment Station has been delayed. The material is being prepared, however, and the report will be ready for the printer at an early date.

THE 1918 SUMMER PRACTICUM WORK

A perusal of the report of the summer practicum work by the students of the school for the season of 1918 reveals very gratifying results in spite of serious handicaps that were met with during the year. Sixty-five students enrolled in seventy-three projects. The most popular project and also the most successful was that in potatoes. Twenty-one students took up this work and most of them completed the project with excellent results. A considerable number show work with corn. Most of these projects were pursued with interest but spoiled as to final results by the early frosts.

War time production made such strong demands upon the student's time in carrying on the general farm operations that time for special project work by many students was greatly limited. The extension of the draft age also took many of the students away from the work before it was entirely completed.

Prospects for the 1919 season with the war over are very promising and plans are being worked out for enlargement and extension of this feature of the school work. Every student will enroll for a project early in the spring term and under the supervision of the special instructor in that subject will make an intensive study in preparation for the carrying on of the summer projects on the home farm. Careful plans will be worked out in detail for each project and instruction given in keeping records and making reports.

The station force for the supervision of this work will be enlarged and arrangements made to visit each project oftener during the coming year than it was possible to do last year.



VIEW OF NORTHWEST SCHOOL CAMPUS

Program for Northwestern Farmers' and Women's Meetings

February 10-14, 1919

The ninth annual Northwestern Minnesota Farmers' and Women's meetings of the Northwest School of Agriculture, Crookston will be held at the Armory, February 10-14, 1919. The Red River Valley Farm Crop and Live Stock Show, Northern Minnesota Poultry Exhibit and the annual meetings of various organizations are held during the same week.

PLAN OF MEETINGS

The program this year resumes that followed when the Farmers' Short Course was held at the Northwest School of Agriculture several years ago of dividing the work into different sections thereby enabling a person to select the work preferred. This plan also permits of more thorough instruction and of covering more subjects.

The plan for the women's meetings is also enlarged affording a splendid opportunity for getting in touch with current problems of interest to homemakers.

Through the cooperation of the War Camp Community Service of Minneapolis, Miss Lucille Holliday, song organizer, has been secured to lead the community singing.

MEETING PLACES

The places will be indicated in the final program. Signs will designate the buildings and rooms. Bulletin boards located in various buildings will give the day's program.

The Armory will be headquarters during the week. A special committee headed by Mayor J. E. Morrissey will assist the visitors to secure lodging. Meals can be procured at the various hotels and restaurants.

A charge of fifty cents a day is made for admission to the Farm Crops Exhibit, Winter Live Stock Show, Poultry Exhibit, and evening lectures. For the week the charge is \$2.00. The badge given to those who enroll for the week is transferable in case the purchaser is unable to remain for the entire week's program. There is no charge for the women's meetings.

DAILY PROGRAM

MONDAY, FEBRUARY 10

Forenoon: No classes or meetings will be held Monday forenoon and afternoon. Monday will be devoted to judging live stock and stock judging contests. Place of meeting and rules and regulations governing these contests are included in the Winter Stock Show premium list. The awards in the farm crop competition and the school essay contest will be announced during the day.

Afternoon Sixth annual rural school spelling contest, Miss B. Sherwood, Northwest School of Agriculture, in charge.

7:00-7:30 Music, Crookston High School Orchestra
7:30 Music, Crookston High School Boys' Chorus, Miss Coe, director.

8:00-8:30 Final spelling test of the rural school spelling contest.

8:30 Fourth annual high school declamatory contest, Mr. F. E. Lurton, Superintendent of Schools, East Grand Forks, presiding. There will be five contestants in the final contest. Names and selections will be announced later.
Music, Crookston High School Boys' Chorus.
Decision of Judges in spelling contest.
Decisions of Judges in Declamatory Contest
Awarding of honors to the winners of these contests.

TUESDAY, FEBRUARY 11 FORENOON

FARM PROFITS DAY

Agronomy, Farm Management and Soils Armory

9:30-10:15 Figuring the Profits from Farming—Andrew Boss, St. Paul
10:15-10:45 Meadows and Pastures—A. C. Army, St. Paul
10:45-11:15 Alfalfa—P. E. Miller, Morris.
11:15-11:45 Relation of the Cost of Production to Market Prices—Andrew Boss.
11:45 Discussion.

Live Stock and Dairy Husbandry Live Stock Pavilion

9:00-11:00 Judging stock in Red River Valley Winter Live Stock Pavilion.
11:00-12:00 Meeting of swine breeders
(a) Summer hog pastures
(b) Hog rations
(c) Increasing hog raising in Red River Valley

Gasoline Engine and Tractor School Room A, Armory

9:00-10:00 Types and Selection of a Tractor—C. A. Berg
10:00-11:00 Carburetors and governors—J. B. Torrance, St. Paul.
11:00-12:00 Discussion or Inspection of Tractor Exhibits

AFTERNOON

1:00-2:00 Live Stock and Poultry Show in Red River Valley Live Stock Pavilion

General Meeting

Armory

1:45-2:15 Canning Demonstration, by McIntosh Canning Team, 1918 Northern District Champion
2:15-3:00 "Wheat Rust and Its Causes," Dr. E. C. Stakman, St. Paul
3:00-3:45 "The Federal Wheat Grades," J. F. Ingersoll, Duluth
3:45-4:30 "The Farmer as a Business Man," Andrew Boss, St. Paul

Conferences and Demonstrations

Places to be Announced

4:30-6:00 Identification of the Common Barberry—T. M. McCall
Smut Treatment of Seed Grain, R. O. Westley
Sow Thistle Eradication, R. H. Van Scoik
Live Stock Breeders' Problems, W. A. McKerrow, St. Paul

EVENING PROGRAM, ARMORY

G. H. Sanberg, Presiding

6:30-7:30 Farm Crops, Live Stock and Poultry Exhibits, Armory and Live Stock Pavilion.
7:30-8:00 Music, Crookston Citizens' Band Orchestra, Mr. Plock, director.
8:00-8:30 Music, Northwest School of Agriculture Chorus, Miss Kimberly, director; Music, Crookston High School Teachers' Chorus, Miss Coe, director; Community Singing, Miss Holliday, song organizer for War Camp Community Service, Minneapolis.
8:45 Address—"A New Program for Public Education," Dean L. D. Coffman, University of Minnesota.

WEDNESDAY, FEBRUARY 12

Red River Valley Live Stock Association Day

FORENOON

Live Stock and Dairy Husbandry Live Stock Pavilion

9:00-10:00 Inspecting live stock offered in the sale.
10:00-10:45 Opening of Red River Valley Live Stock Pavilion. Four minute talks by representatives of cooperating organizations
Red River Dairymen' Association, by Leonard Houske, Secretary, Halstad.
Northern Minnesota Poultry Association, by C. E. Brown, President, Crookston
Farm Bureaus of Northwestern Minnesota, by F. A. Green, member of committee, Stephen
Crookston Association of Public Affairs, by C. C. Strander
Red River Valley Development Association by J. S. Hilleboe, director, Warren.
Red River Valley Live Stock Breeders, by Frank Jeffers, president, Red Lake Falls.
Presentation of Keys to the Red River Valley Farmers—C. G. Selvig, president, Red River Valley Live Stock Association.
Acceptance in behalf of the Red River Valley Farmers—C. J. Gullekson, Beltrami in Reis Township
Greetings from the State Association—W. A. McKerrow, Secretary, Minnesota Live Stock Breeders Association.
Greetings from Canada—J. D. McGregor, president, Brandon Winter Live Stock Show
10:45-12:15 Pure Bred Live Stock Sale—Geo. D. Enyart and Chas. A. Hitchcock, auctioneers.

Gasoline Engine and Tractor School

Room A, Armory

8:30-9:30 Ignition Systems and Problems
9:30-10:30 Discussion and Inspection of Tractor Exhibits
10:30-12:00 Continuation of this session or attendance at live stock sale to be determined by members present

AFTERNOON

Pure Bred Live Stock Sale

Live Stock Pavilion

General Meeting

Armory

3:30-4:00 "Feeding Problems in the Red River Valley"—W. H. Peters, St. Paul.
3:15-3:30 "Minnesota's Live Stock Prospects,"—W. A. McKerrow, St. Paul
4:30-5:00 "Factors in Building Up A Herd"—Dr. C. W. Gay, St. Paul
5:00-6:00 Meeting of Red River Valley Live Stock Association and Live Stock Breeders
Business Session. Plans for the Coming Year—W. V. Gousseff, secretary
6:30 Banquet of Red River Valley Live Stock Association, Grand Central Hotel. Secure reservations in advance from C. A. Hitchcock or W. V. Gousseff

EVENING PROGRAM, ARMORY

J. P. Bengtson, Presiding

- 6:30- 7:30 Farm Crops, Live Stock and Poultry Exhibits, Armory and Live Stock Pavilion
- 7:30- 8:00 Music, Crookston Juvenile Band, Mr. Pflock, director
- 8:00- 8:30 Community Singing, Miss Holliday, song organizer for War Camp Community Service, Minneapolis
- 8:30 Music, High School Girls Chorus, Miss Coe director. Music, Viking Chorus, Mr. Peterson, director.
- 8:45 Address—"The Martyrdom of Fools,"—Thos. Brooks Fletcher, Marion, Ohio.

THURSDAY, FEBRUARY 13 FORENOON

Potato Growers' Problems
Armory

- 9:00- 9:30 Demonstrations of Potato Seed Treatment. A. W. Aamot, A. G. Tolaas, T. M. McCall.
- 9:30-10:30 Potato Diseases and Their Control—A. G. Tolaas
- 10:30-11:30 Potato Grading and Marketing—P. E. Clement.
- 11:30-12:30 Discussion.

The afternoon session will meet in the Crookston Association quarters

- 1:30- 2:00 Community Organization of Potato Growers—G. Kronschnabel, Fertile
- 2:00- 2:30 County Potato Growers Association—A. W. Aamodt
- 2:30- 3:00 R. R. Valley Potato Growers' Association

Poultry Husbandry Section
Live Stock Pavilion

- 9:00-10:00 Poultry Houses for Northwestern Minnesota
- 10:00-11:00 Feeding Poultry
- 11:00-12:00 Marketing Conference

Gasoline Engine and Tractor School
Room A, Armory

- 9:00-10:00 Lubrication and cooling systems
- 10:00-11:00 Tractor Experiences from Minnesota Farms—W. L. Cavert, St. Paul
- 11:00-12:00 Discussion or Inspection of Tractor Exhibits

AFTERNOON

- 1:00- 2:00 Live Stock and Poultry Show in Red River Valley Live Stock Pavilion

General Meeting

- 1:45- 2:15 Breadmaking Demonstration by Erskine Bread Team, 1918 State Champion
- 2:15- 3:00 Address: "The Farmer in Peace Times,"—Dean R. W. Thatcher, St. Paul
- 3:45- 4:15 "The Minnesota Dairy Council,"—Andrew French, St. Paul
- 3:00- 3:45 Address: "Live Stock in Peace Times,"—C. W. Gay, St. Paul.
- 4:15- 4:30 Intermission
- 4:30 Address by Carlos Avery, Game and Fish Commissioner, St. Paul. Address for the boys and girls. They will not be admitted until 4:15 in order not to disturb the meeting.

Conferences and Demonstrations
Live Stock Pavilion

- 4:30- 6:00 Meeting of Red River Valley Potato Growers' Association, Crookston Association room. Poultry Problems, Poultry Exhibit quarters.

EVENING PROGRAM, ARMORY

A. D. Stephens, Presiding

- 6:30- 7:30 Farm Crops, Livestock and Poultry Exhibits, Armory and Live Stock Pavilion
- 7:30- 8:00 Music, Crookston Juvenile Band, Mr. Pflock, Director
- 8:00- 8:30 Community Singing, Miss Holliday, song organizer for War Camp Community Service, Minneapolis
- 8:30 Music, Northwest School of Agriculture Boys' and Girls' Glee Clubs, Northwest School of Agriculture Girls' Glee Club, Miss Kimberly, director
- 8:45 Address—"Community Deadheads," Thomas Brooks Fletcher, Marion, Ohio.

FRIDAY, FEBRUARY 14

Reconstruction Policies Day
Armory

FORENOON

Farm Bureau Conference

W. E. Morris, District Leader, Presiding

- 9:00-10:00 Demonstration Work—Hog Pastures, W. V. Longley, County Agent, Kittson County; Peat Demonstrations, John Husby, County Agent, Marshall County; Seed Potatoes, A. C. O'Banion, County Agent, Clay County; Livestock Improvement, J. V. Bopp, County Agent, Ottertail County.
- 10:00-10:30 "How Roseau County is Finding Itself Agriculturally,"—O. M. Olson, County Agent, Roseau Co.
- 10:30-11:00 The Farm Bureau of the Future,—F. E. Balmer, State Leader
- 11:00- 12:00 Farm Bureau Achievements and Plans for the Future—C. B. Goodrich, Roseau County; Martin Boraas, Kittson County; M. L. Warner, Marshall County

Gasoline Engine and Tractor School

Room A, Armory

- 9:00-10:00 Gas tractor operation
- 10:00-11:00 Discussion
- 11:00-12:00 Inspection of Tractor Exhibits

AFTERNOON

- 1:00- 2:00 Live Stock and Poultry Show in Red River Valley Live Stock Pavilion

Meeting of

Red River Valley Development Association
S. M. Sivertson, Presiding

- 1:30- 2:30 Presentation of Township and Village Fourth Liberty Loan Flags by A. D. Stephens, Chairman. Address, Dr. M. L. Burton.
- 2:30- 4:30 "The Agricultural Outlook"—A. D. Wilson
- Flood Control and Drainage, Senator F. L. Cliff, A State Road Plan,—C. H. Forbes, St. Paul
- 4:30- 6:00 Business meeting of Red River Valley Development Association.

Conferences and Meetings

- 9:00-12:00 Potato Demonstrations, Seed Treatment, Potato Judging, Recommended Varieties, Report of Committees. Program for 1919. Election of officers.
- 5:30 Meeting and annual banquet of Northwest School of Agriculture Alumni Association at Grand Central Hotel.

EVENING PROGRAM, ARMORY

C. G. Selvig, Presiding

- 6:30- 7:30 Farm Crops, Live Stock and Poultry Exhibits, Armory and Live Stock Pavilion
- 7:30- 8:00 Music—Crookston Juvenile Band, Mr. Pflock, director
- 8:00- 8:30 Community Singing, Miss Holliday, song organizer for War Camp Community Service, Minneapolis
- 8:30 Music, Crookston High School Chorus, Miss Coe, director.
- Music, Viking Chorus, Mr. Peterson, director
- 8:30 Address—"The New America," President Marion LeRoy Burton, University of Minnesota

WOMEN'S MEETINGS

TUESDAY, FEBRUARY 11, 1919

RECONSTRUCTION DAY

Mrs. W. H. Miller, Presiding

- 1:45- 2:00 Community Singing, Miss Holliday, leader
- 2:00- 2:30 The Child of Today and the Citizen of Tomorrow, Miss Esther Ferris
- 2:30- 3:00 Home Demonstrators and the Reconstruction Plan, Miss May Secrest—State Leader, H. D. A.
- 3:00- 3:15 Music
- 3:15- 4:00 Home Service and the Reconstruction Plan, Mr. Bruno
- 4:00- 4:30 "Before and After," Mrs. H. C. Cavanor
- 4:00- 4:20 Announcements—Hat Clinic, Mrs. Mabel Sewall
- 4:30 Demonstration, The McIntosh Canning Team, 1918 Northern Division Champion, will give a canning demonstration at the Armory, beginning at 1:45 promptly.

WEDNESDAY, FEBRUARY 12, 1919.

HEALTH DAY

Mrs. F. J. Hibbard, Presiding

- 1:45- 2:00 Community Singing, Miss Holliday, leader
- 2:00- 2:20 Health and the Hot Lunch at Noon, Miss Hazel Rockwood
- 2:20- 3:00 Health Week in Every Community, Mrs. H. C. Cavanor
- 3:00- 3:15 Music
- 3:15- 3:45 The Early Care of a Child's Mouth, Dr. Thomas
- 3:45- 4:15 Natural Immunity and the Recent Epidemic, Dr. Norman
- 4:15- 4:30 Discussion

THURSDAY, FEBRUARY 13, 1919

FOOD DAY

Mrs. Mabel H. Sewall, Presiding

- 1:45- 2:00 Community Singing, Miss Holliday, leader
- 2:00- 2:30 The Protective Foods, Miss May Secrest, State Leader H. D. A.
- 2:30- 3:00 Food Conservation After the War—A. D. Wilson
- 3:00- 3:10 Music
- 3:10- 4:30 Food Contest—Public Judging—Baking, Mrs. H. C. Cavanor. Canning and Preserving, Mrs. Mabel H. Sewall
- Awarding of Prizes
- 4:30 Demonstration—The Erskine Bread Making Team, 1918 State Champion, will give a bread making demonstration at the Armory, beginning at 1:45 promptly.

FRIDAY, FEBRUARY 14, 1919

SERVICE DAY

Mrs. C. G. Selvig, Presiding

- 1:45- 2:00 Community Singing, Miss Holliday, leader
- 2:00- 2:45 The Women after the War, Mrs. G. J. Allen
- 2:45- 3:00 Music
- 3:00- 3:30 Address—R. W. Thatcher, Dean of Agricultural College St. Paul
- 3:30- 4:00 Women's Interest in Good Roads, C. A. Forbes, St. Paul

FARM BUREAU WORK

The following brief summary of the report of W. E. Morris, district leader of county agents, demonstrates the fact that the Red River Valley counties did their part in war time food production for 1918. Under the direction of the district leader a constructive development program for the valley counties is rounding itself into shape. A unified campaign has been carried on by the county agents in cooperation with the Extension Division, University Farm, St. Paul, and the Northwest School and Station to improve the quality of potatoes grown in the Valley. Seed selection and seed treatment plots demonstrating the use of corrosive sublimate were put on in each county. All agencies are working for the ultimate production of only certified seed stock for the Red River Valley. Many of the counties such as Pennington, Red Lake, Polk, Kittson and Roseau are striving to keep the seed from the pure seed plots in their respective counties for 1919 planting. C. C. Lake of Red Lake county reports that over 600 bushels of seed plot stock is available in Red Lake County. Mr. Lake reports also that the introduced Early Ohio seed on the treated seed plots gave an average yield of 210 bushels per acre as compared to 110 bushels obtained from local seed.

W. V. Longley, county agent from Kittson county found that potato seed treatment gave very gratifying results both in yield and in quality of crop produced. Kittson county growers were able to dispose of their treated seed stock at a good premium.

County Agent A. C. O'Banion of Clay county assisted many of the pure seed cooperators of that county in selling seed potatoes direct to growers in Kansas and other southern parts.

H. A. Nelson of Becker county and E. H. Martin of Clearwater assisted in selling high quality seed potatoes from their counties at a good profit to the growers.

The county agents of the district under the leadership of the district leader have all done considerable work in the selection and introduction into their respective counties of pure bred males of practically all breeds of live stock.

O. M. Olson of Roseau county has done a great deal of work in introducing more and better sheep into Roseau county.

Roseau, Kittson, Marshall and Pennington counties have inaugurated campaigns to tuberculin test all dairy and beef herds of their respective counties. Pennington county through the efforts of the Farm Bureau and county agent and with the cooperation of the State Veterinarian tested 1533 head of cattle with very gratifying results. Only a very small per cent of reactors were found in the number tested.

The counties having peat lands, such as Marshall, Pennington, Roseau, and Clearwater are cooperating with the Division of Soils, University Farm in the establishment of acid phosphate and are supplying it at cost to the farmers of Pennington county for trial on the peat demonstration plots.

A seed corn campaign was launched by the county agents of the district the past fall and considerable home grown seed corn was located. R. H.

FARM BUREAU NEWS

Northwestern Minnesota District

W. E. MORRIS, District Leader
University Farm, St. Paul

COUNTY AGRICULTURAL AGENTS

Recker	H. A. Nelson, Detroit
Clay	A. C. O'Banion, Moorhead
Clearwater	E. H. Martin, Bagley
Kittson	W. V. Longley, Hallock
Mahnomen	Victor Dryden, Mahnomen
Marshall	John Huseby, Warren
Norman	Henry P. Brandt, Ada
Ottertail	J. V. Bopp, Fergus Falls
Pennington	J. J. McCann, Thief River Falls
Polk	W. A. Peters, Crookston
Red Lake	C. C. Lake, Red Lake Falls
Roseau	Oscar M. Olson, Roseau
Wilkin	L. S. Stallings, Breckenridge

Van Scoik of Polk county selected two hundred sacks of choice, mature Northwestern Dent seed corn in the vicinity of Fosston. L. G. Mustain, superintendent of Schools, Fosston, furnished storage space for the corn in the school building. Considerable seed corn has been located also in Becker, Clay and Red Lake counties.

ROSS P. WHITE ANSWERS THE SUMMONS

The Northwest Monthly has the sad duty of chronicling the death of Ross P. White, county agent of Pennington county. His death occurred about two weeks ago, following a brief illness caused by influenza.

Ross P. White was born at Grand Junction, Iowa, April 30, 1890. He graduated from Iowa State College, Ames, Iowa, in 1914. He began his work as county agent in Pennington county on February 1, 1918.

Mr. White was a very capable man in his work and the northwestern part of the state suffers a great loss in his untimely death. He was earnest, progressive and of excellent character. His influence for good was felt by the entire community.

NEW COUNTY AGENT IN PENNINGTON

John J. McCann is the new county agent in Pennington county. He graduated from the College of Agriculture University of Minnesota in 1915, having specialized in Agricultural education and agronomy. He was agricultural instructor at Spring Grove for two and a half years and county agent at Morrison county from March to September last year. He was commissioned second lieutenant but was recently mustered out of the service. He began his work in Pennington county on January 27.

PETERS COMES TO POLK COUNTY

W. A. Peters has been appointed county agent in Polk county to assist R. H. Van Scoik. He graduated from the College of Agriculture, University of Minnesota in 1917 and was engaged as high school instructor at Hector for a time, following which he became county agent in McLeod county. Polk county has been assigned an additional county agent on account of its size and the amount of work that needs to be done. Mr. Peters was recently selected for the position. He will move here shortly and take up the work.

LIVE STOCK SALE

List of consignors of pure bred stock to the first annual sale held under the auspices of the Red River Valley Live Stock association on February 12, 1919, in the New Live Stock Pavilion.

To those interested in the purchase of herd sires or bred females, we cannot emphasize too strongly the opportunity which will be presented at this first annual sale.

Some exceptionally well bred animals have been consigned. Among the males are real herd headers and among the females, animals that should prove good foundation stock.

Leading herds in the Valley are represented in this sale, not by large consignments but by a few representative animals of the herd and breed they represent.

SHORTHORN

Nordlum & Morris, Middle River—2 Bulls.

Andrew Clouston, Pelican Rapids—2 Bulls.

Henry Haldorsen, Rotlisay, Minn.—2 Bulls, 1 Cow.

Peter Sethrie, Carlisle—3 Cows.

Chas. Hitchcock, Crookston—1 Bull

Munger & Son, Warren—1 Cow

A. E. Palmer, Euclid; (Milking Short-horn)—2 Cows, 2 Bulls.

Northwest School of Agr., Crookston, —2 Cows.

Carlson Bros, Erskine—3 Cows, 2 Bulls.

P. M. Finkenbinder, Crookston—1 Bull.

Thomas L. Todd, Hendrum—1 Bull

Wm. Miller, Warren—1 Cow, 2 Bulls.

Chas. McKay, Harmony—12 Cows

I. S. Billings, Fergus Falls—4 Cows.

M. E. Dahl, Twin Valley—2 Cows.

G. N. Morkassel, Warren—1 Bull

Osten Hanson, Twin Valley—1 Bull.

These consignments include both Scotch topped and Milking Short-horn strains.

HEREFORD

Northwest School of Agriculture—1 Bull.

HOLSTEIN

Chas. Hitchcock, Crookston—2 Cows.

E. C. Schroeder, Moorhead, is consigning some exceptionally fine individuals.

Fine chance for foundation stock—7 Cows, 5 Bulls.

Wm. Sugden, Hallock—1 Cow, 2 Bulls.

GUERNSEY

Caribou Farms—1 Cow, 2 Bulls

DUROC JERSEY

Fred Clark, Warren—6 Bred Sows

Ed. Rosendahl & Son, Warren—2 Bred Sows

J. H. Canning, Hendrum—8 Bred Sows

F. A. Green, Stephen—10 Bred Sows.

Arthur Marsden, Hendrum—3 Bred Sows, 3 Boars

G. N. Morkassel, Warren—1 Boar.

Wm. A. Hall, Halstad, 2 Bred Sows

POLAND CHINAS

Peter Sethrie, Carlisle—4 Bred Sows

W. F. Schrepel, Red Lake Falls—1 Boar

Miner Helgeson, Crookston—4 Bred Sows.

CHESTER WHITE

P. M. Finkenbinder, Crookston—4 Bred Sows.

Sales catalog with pedigrees will be ready for mailing on Wednesday, February 5.

W. V. GOUSSEFF, Secy.