

THE NORTHWEST MONTHLY



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VOL. IV

CROOKSTON, MINNESOTA, MARCH, 1920

No. 4

RED RIVER VALLEY WINTER SHOWS NEW RECORDS MADE ENTHUSIASM RUNS HIGH

The influenza epidemic is to blame as the reason that this article is not also an account of the Northwest School Farmers' Week. Great preparations had been made for a most interesting week's program. The list of speakers included men of international fame. Provisions had been made for addresses and demonstrations along all lines of interest in the farm, country home, and rural life in general. People all over the Valley have come to look forward to this week as the big get-together occasion of the year in this section of the state. It was therefore a great disappointment both for the school and the people, when it was decided to postpone all short courses on account of the wide spread of the influenza epidemic especially in rural communities.

Winter Shows Held.

It was decided, however, after careful consideration that the show and live stock sales might be carried out without serious danger of spreading the disease since the congestion would not be as great as is usual in the attendance at the meetings.

The 1920 Red River Valley Winter Show passes into history, breaking all former records. It stands as an indisputable evidence of the productiveness of the Valley and a monument to the spirit of co-operation among the people of the valley as a whole, without which it would have been impossible to build the large pavilion last year and its spacious annex this year. One could not view the excellent exhibits of corn, grain and potatoes without being impressed with the fact that farmers are beginning to specialize to a high degree and are using scientific judgment in their farm operations. The showing of stock, when considering not only numbers and varieties but also the outstanding high quality that was general throughout the show, was a revelation to the person who is accustomed to think of the Red River Valley as excelling only in the production of grain. When one considers that prominent breeders from all parts of the state and neighboring

states as well came here to buy foundation breeding stock, one realizes that the valley has made tremendous progress and is up in the first ranks in the breeding of all lines of live stock as well.

Success Scored.

The live stock show and sales were tremendous successes and exceeded even the fondest hopes of the men in charge. The pavilion and the large new show barn was filled to overflow with stock. The sales totaled over \$100,000 as compared with \$23,000 last year. Great interest was taken in the judging and sales and the large pavilion even with its increased seating capacity was well filled at all times.

The educational value of such a show is immeasurable. In this particular it is infinitely superior to the ordinary summer fairs where people come largely for the entertainment and recreation features. At the winter show the judging of the animals is carefully followed by a large crowd of interested spectators. Exhibits are viewed with a scientific interest. Visitors mingle with one another and confer seriously on agricultural problems. Someone summarized the whole matter when he called it the "Red River Valley International." **Superior Farm Grains, Corn and Potatoes.**

The Farm Crops Exhibits this year were excellent. There was a large number of entries in all lines with all counties well represented. The quality also was superior, especially in corn and potatoes. It is regrettable this space does not permit an enumeration of the prize winners.

The live stock show was a revelation. The showing was exceptionally large in Duroc Jersey hogs, Shorthorn and Holstein cattle. The quality was outstanding.

Stock Sales Shatter All Records.

Some interesting records were made in the live stock sales. The Holstein sale was the biggest district consignment sale ever held in the state, averaging \$666.20 for seventy-one animals sold. The only sale beating this record was the state sale

(Continued on Page Three)

TWELFTH ANNUAL COMMENCEMENT, MARCH 25 28 GRADUATES.

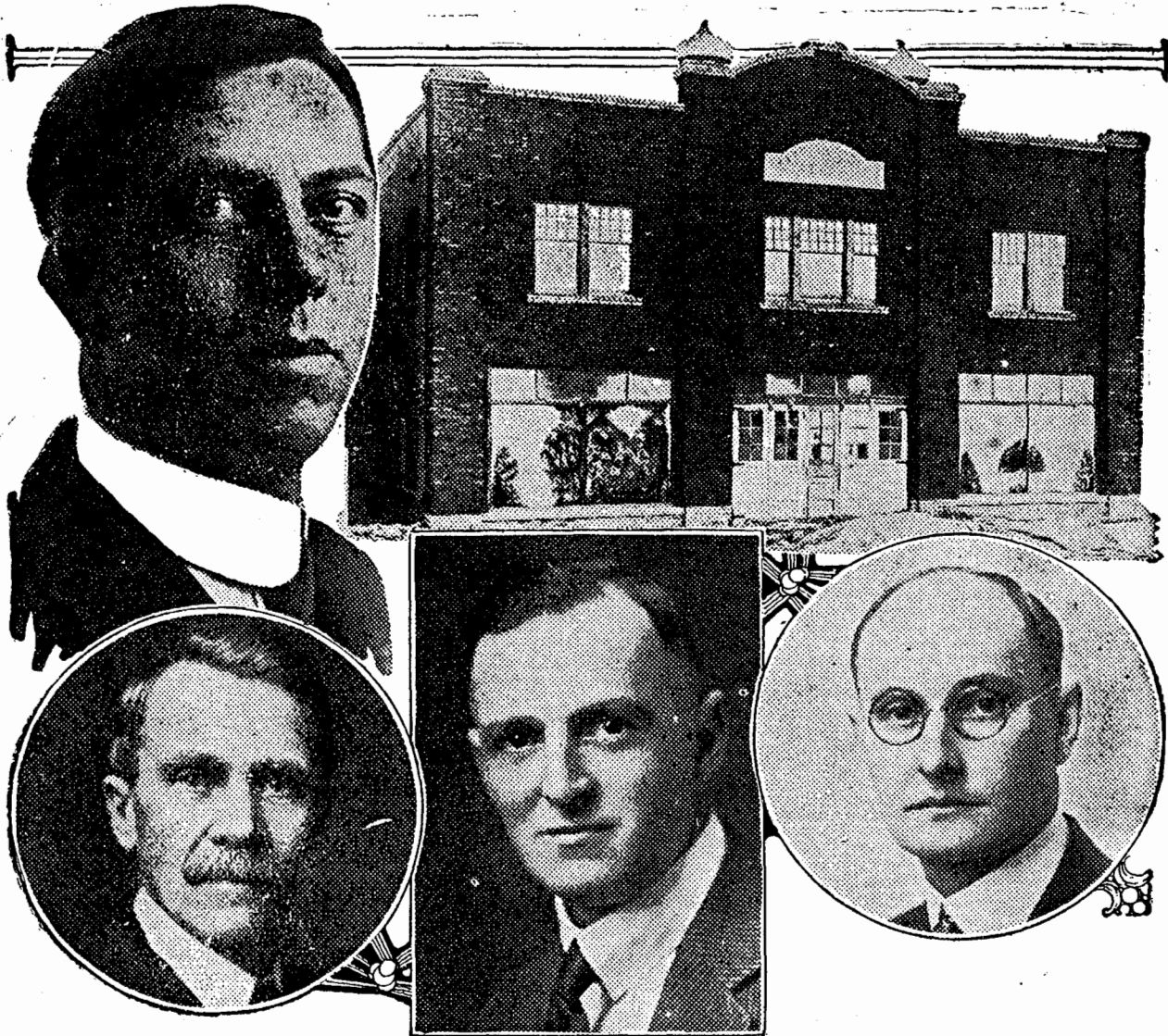
The twelfth annual commencement exercises of the Northwest School will be held on Thursday, March 25, in the school auditorium. The program includes demonstrations by Morrill Campion and Vivian Lundberg and the class oration by James Felber. Hon. Theodore Christenson, Dawson, Minnesota, has been secured to give the commencement address.

During the forenoon of the same day there will be a series of school exercises including stock judging demonstration and various exhibits arranged by the farm engineering and other departments of the school. This will be followed at 10:30 by the senior class exercises at which time there will be addresses given by a representative of the senior and junior classes. Demonstrations will be given by Herbert Johnston and Lucile Morris. Einar Aakre will present his thesis on the Red Lake Drainage and Flood control district. A. M. Foker, senior class counsellor, will give an address.

The annual recital by students in music will be held at 11 o'clock Wednesday morning. This is an event that is always looked forward to with much pleasure by all.

On the forenoon of commencement day a new feature will be inaugurated this year. A series of school exercises and demonstrations have been planned which will without doubt prove of great interest to the visitors of the day. These exercises will at the same time demonstrate the students' knowledge of the various engineering subjects. Boys in farm motors classes will show their ability to locate and correct "troubles" in stationary engines. Tractor students will be given an opportunity to show their skill in driving and lining up various types of tractors. Members of the blacksmithing classes are entered for a four link chain making race. A rope splicing contest is also planned. Judges will be selected for these events and prizes will be awarded.

(Continued on Page Three)



Those Who Did Prominent Work in Making Red River Valley Shows a Big Success

The Red River Valley Winter Shows which just closed in Crookston in a blaze of glory were staged under the direction of the Northwest School of Agriculture, the Red River Valley Development association and the Red River Valley Livestock association. The accompanying picture shows, above, C. G. Selvig, superintendent of the school and chairman of the board of managers of the show; the main pavilion of the livestock association where the stock sales were staged; below, left to right, S. M. Sivertson, president of the development association; Lee R. Boyd, in charge of the industrial, tractor and automobile exhibits, and W. V. Gousseff, secretary of the livestock association.

—Courtesy of Crookston Times.

Committees of The 1920 Meetings And Shows

<p>Farmers' Week Meeting Program Leaders: Farm Crops, R. R. Smith; Horticulture, T. M. McCall; Live Stock, W. V. Gousseff; Poultry, C. E. Brown; Motors, M. Peck; Home Economics, Hazel Rockwood; Moving Pictures, George Hillmon; and General Sessions</p>	<p>C. G. Selvig. Farm Crops Exhibit Committee: Albert Cairns, A. M. Christensen, R. R. Smith, T. M. McCall, C. C. Lake, W. V. Longley, A. J. Kittleson, N. A. Thorson, C. H. Zealand. Live Stock Show and Sales: W. V.</p>	<p>Gousseff, C. G. Selvig, W. R. Low, W. E. Morris, L. M. Bond, John Husby, O. M. Olson. Industrial Exhibit: L. R. Boyd; Walter Stone, M. Peck, C. A. Berg, J. L. Gavin.</p>
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**RED RIVER VALLEY WINTER SHOWS
NEW RECORDS MADE
ENTHUSIASM RUNS HIGH**

held at Moorhead last year which broke the world's records. The sale totalled \$47,320.00. Thirteen head sold for \$21,125.00, an average of \$1,624.00. The ten highest females totalled \$15,125.00. The highest price paid was \$2525.00 at which figure the Mankato Holstein farm purchased Ormsby Louise Beets, consigned by J. M. Hackney, St. Paul, Minnesota. Sir Polka Dot Ormsby, a bull consigned by Prindle Brothers of Georgetown, Minnesota, and Aagie Hengerveldt Duchess De Kol, a bull consigned by M. L. Enright of East Grand Forks, Minnesota, tied for second honors in price paid at \$2500.00. The former went to the Manikowski Farm of Mooretown, N. D., and the latter to Mount Pleasant State Hospital, Mount Pleasant, Ia. Miss Pietertje Ormsby De Kol, consigned by F. R. Hedley, Crookston, Minnesota, tied for third place at \$2,000.00. The former of these two fine females was purchased by Floyd Caldwell of Ashby, Minnesota, and the latter by Dr. H. P. Fisher of Shakopee, Minnesota.

The biggest price paid for any one animal at the sale was \$4300. This compliment went to F. A. Green's herd boar I Am Great Wonder which was sold to Johnson Bros. of Hector, Minn.

F. R. Hedley of Crookston deserves special mention for a record sale. Three yearling Holstein heifers consigned by him sold for \$4,700.00. They were daughters of the famous Sir Pietertje Ormsby Mercedes 41st, also a Red River Valley product who sold last year for \$65,000.

Prominent Visitors at the Show.

Among the prominent men visiting the show was Duncan Marshall of Alberta, Canada, Canadian minister of agriculture. In response to a great demand on the part of live stock breeders he spoke to a large gathering in the live stock pavilion on Tuesday evening. He characterized the live stock industry as the foundation of agriculture and agriculture as the foundation of our nation's prosperity and strength.

"The cow is the greatest civilizer of the wilderness," he said, and went on to show how essential a few cattle were to the success of the early homesteader in establishing himself permanently on a farm of his own.

His enthusiasm in speaking of stock raising was contagious. "There is no greater romance than the history of the development of live stock," he said, and he held the audience in rapt attention, as he told the story of the beginnings of various breeds and the experiences of the men whose names have become famous for what they did for agriculture through their work with livestock.

In speaking of diversified farming, he said that many farmers carry it to the extreme in making it "mixed farming" and dabble in so many things that they do nothing well. Diversified farming, he said, really means live stock farming. Every farmer should choose some particular line of live stock that he likes and specialize in it. He should study this line and emphasize it till it will advertise him and bring him trade.

In speaking of agricultural education, he said that agriculture is the most complex scientific profession that anyone can take up today. There is no better way of keeping the boys and girls interested in the farm than to make them appreciate the fact that there is no other vocation in the world about which there is so much to learn. Make the boy a partner in the business, he said, and give him something good to work with and there will be no trouble of keeping him on the farm. Give the boys and girls an agricultural education not only to make them better farmers and farmers' wives but to make them better citizens.

Funds for Pavilion Subscribed Amid Acclaim.

Great enthusiasm prevailed among the show visitors throughout the week. It reached a climax on Thursday evening when, at an impromptu musical program in the pavilion, \$9,000 was subscribed for the extension of the livestock pavilion to meet the rapidly increasing demands made upon its capacity for holding sales and shows of Valley stock.

Officers Re-elected.

At the annual meeting of the Red River Valley Live Stock association held in the sales pavilion at the close of the last sale, all of the officers and directors were re-elected unanimously amid great enthusiasm. They are as follows: C. G. Selvig, president; Frank Jeffers, vice-president; W. V. Gousseff, secretary; M. E. Dahl, treasurer; directors, C. O. Carlson, S. M. Sivertson, Fred Beerbower, L. Lamberson, W. V. Longley, and C. C. Strander. Members of the advisory board are N. P. Hanson, Westbury, Becker County; E. C. Schroeder, Moorhead, Clay county; L. Jensen, Clearbrook, Clearwater county; Wm. Ash, St. Vincent, Kittson county; A. J. Robinson, Mahnomen, Mahnomen county; F. A. Green, Stephen, Marshall county; Arthur Marsden, Hendrum, Norman county; Paul Engelstad, Thief River Falls, Pennington county; A. E. Palmer, Euclid, Polk county; Ildage Baril, Red Lake Falls, Red Lake county; and O. M. Olson, Roseau, Roseau county.

A \$50,000 Organization

C. G. Selvig, presiding at the meeting, then gave a brief summary of the financial status of the organization, stating that \$5000 in addition to the pledges and sums already paid in is necessary to clear the organization of debt. The association will then owe \$50,000 of real estate. Considering that it is not yet two years old this record is wonderful. Representatives from the various counties comprising the district of the organization were called upon and all spoke enthusiastically of the support that the organization in its work may count on from the people throughout the whole Valley. All were outspoken in their endorsement of the idea or which the organization is working. The feeling was unanimous that the plan needs even greater enlargement and the leaders from all the counties assurance that the financial support necessary would be forthcoming.

**TWELFTH ANNUAL
COMMENCEMENT ON
MARCH 25**

(Continued from Page 1)

Stock judging demonstrations will form a part of the morning's program followed by the last assembly exercises of the year at the auditorium. The commencement exercises will begin at 2.30 o'clock.

Other events scheduled for the close of the school year are the preliminary inter-society debate to be held Friday evening, March 19; the inter-class field meet, Saturday evening, March 20; commencement sermon, Sunday evening, March 21; final inter-society debate, Monday evening, March 22; reception to the graduating class, Tuesday evening, March 23; and senior class exercises, Wednesday evening, March 24.

Following the commencement exercises on March 25 will be held the school and alumni get-together dinner which has been so successful an event of the last two commencement days. It is expected that a large number of alumni will be present as the regular alumni re-union planned for February 13 during Northwest School Farmers Week was not held. A large attendance is expected at the various exercises of commencement week.

The following members comprise the senior class of 1920:

Einar G. Aakre, Ellen D. Ahlm, Arthur P. Andresen, Henry L. Bagge, Melvin Bengtson, Joseph Brunell, Morrill W. Campion, Louise I. Edman, James H. Felber, Johan Flikke, Wanda L. Gaass, Agnes C. Gronner, Laura Johanna Jensen, Herbert E. Johnston, Ruby R. Knudson, Olga T. Lovaas, Vivian Irene Lundberg, Carl Robert Narveson, Martin Rud, Walter V. Sprung, John Herman Swiers, Joseph T. Thorkilson, Ella C. Tollefson, Clarence K. Tucker, Willard T. Tunheim, Milton O. Warner, Leonard Wilberg and Lucile Morris.

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.



RED LAKE DRAINAGE BOARD APPOINTED.

The Red Lake Drainage and Conservancy District came into existence on February 18 when Judges Grindleland and Stanton affixed their signatures to the order that establishes the district. The judges selected the following as the members of the board of directors: William Paskewitz, Grygla, Beltrami county; and Axel Nelson, Holt, Marshall county, for two year terms; C. G. Selvig, Crookston, Polk county; Ed. A. Aubol, St. Hilaire, Pennington county; and Andrew Johnson, Gonvick, Clearwater county, for four year terms.

It is the duty of this board to consider all petitions that hereafter may be made with reference to all drainage matters. They will be the ones to decide on the petitions for new drainage ditches and will have their engineer go over the ground and see if the proposed projects are feasible and necessary and if they conflict with other ditches. The final settlement of the matter, however, will remain with the courts, and it shall be the duty of the board only to decide the cases that come before them with reference to new ditches. Those matters that are now before the courts with regard to drainage ditches, will be settled by the court as heretofore, but all new business must come before the board.

This action is the direct outcome of the drainage and flood control meeting which was held at Thief River Falls on July 22 at which Mr. Selvig presided. Committees were appointed at that time to circulate petitions in the various counties. The first hearing was held on November 7, but this was adjourned until January 29, when the proceedings were carried out under Chapter 14, Special Session of 1919, known as the Cliff Act. Senator F. L. Cliff of Ortonville was present at the hearing on the 29th of January and gave valuable information regarding the function of a drainage district and the results that may be expected.

NORTHWEST SCHOOL MEMORIAL WILL BE BUILT CAMPAIGN FOR FUNDS BEGUN.

The campaign for the Northwest School of Agriculture Soldiers and Sailors Memorial is on. At a mass meeting held on Saturday, February 1, the presidents of the three classes and the class advisors gave the campaign strong impetus. Many subscriptions have already been received by Miss Esther Kroog who has been named treasurer of the fund, as the list printed in this issue of the Monthly indicates.

The memorial fund committee includes the following hustlers among the alumni: O. A. Flaatt, president, Fisher; Herman Skyberg, vice-president, Fisher; and C. A. Berg, secretary-treasurer, Crookston, officers of the Northwest School Alumni association; Harry Hedin, Twin Valley, Norman county; Robert Erlandson, Kennedy, Kittson county; Lenus Landby, Swift, Roseau county; Peter Ness, Cass Lake, Hubbard county; Gilbert Huot, Red Lake Falls, Red Lake county; Marie Mariner, Eldred, Polk county; Paul Engelstad, Thief River Falls, Pennington county; Herbert V. Anderson, Clearbrook, Clearwater county; Chloe Starr, Ogema, Mahnomen county; Alfred Wiger, Ulen, Clay county; and Richard Billings, Audubon, Becker county. Milton Warner has been appointed for Marshall county.

A circular has been prepared setting forth the plan of campaign, the proposed location of the memorial and the intention to have a public dedication. The statement closes with the following words: "The great event in this occasion that we shall all look forward to will be the dedication of the memorial to our boys. The school has already offered its sincere tribute to the seven boys whose lives were extinguished in the great struggle. It has welcomed back the remainder of the one hundred

fifty-two who were called away from home, many of them to foreign climes. There is no question of the loyalty of the school to the traditions that these boys have made. It is because of this intense loyalty and this willingness to honor them and the desire to exalt the country that they served, that now the students and friends of the institution alike vie with each other in building a monument which shall stand out in the days to come as a symbol of the institution's willingness to serve, and on the other hand, of the desire on the part of all the others to exalt that service.

Let us unite in building a memorial that, as it stands clear and fresh in the morning light, will be a thing of beauty and joy forever. Let it be of white marble, pure and unblemished in its parts, like the character of the boys whose deeds it symbolizes.

A memorial that shall stand in the glare of the noonday sun, silent, unobtrusive, yet permanent as the eternal hills!

In the glow of the evening light, it will be a visible mark of esteem to be seen by the thousands who shall hereafter come to the Northwest School campus and there seek enlightenment, and by the hundreds of thousands who in the years to come shall pass it by. It will serve forever as a means of rekindling our enthusiasm and our patriotism, and of renewing our faith in our fellow men!

It is for these reasons that the Northwest School now makes a call upon its students and its friends to help create this symbol in building this memorial.

It is hoped that each alumnus, each former student and all the friends of the institution will assist in making possible this testimony of our esteem and respect. Subscription cards will be mailed to anyone upon request.

(Continued on Page Seven)

It is expected that this board may be able to outline a program in the near future. It goes without saying that no one should expect the board to accomplish everything at once. The members will need the continued cooperation and support of all interested as the problems involved are both large and difficult.

1919 N. W. Station Report Out Soon.

The Northwest Experiment Station report for 1919 is on the University press at the present time. Supt. Selvig expects that it will be ready for distribution with the next month. It deals extensively with results secured at the station during the year that has just closed. It is divided into the following sections: Work with Farmers; Drainage, Agronomy, Horticulture, Dairy and Animal Husbandry, and Poultry. In each section results secured by that department are given. This bulletin will be distributed free to all who wish to secure a copy.

Additional Dwelling To be Built

At a recent meeting of the Board of Regents it was voted to provide housing facilities for employees with families at the Northwest School in order to permit them to live where their work is. Plans are being drawn to provide for a four family apartment house, having four suites of rooms. It will be located directly west of the present farm employees' dwelling house and will complete the residences planned for cottage row for the present. It is expected that the engineer, head janitor, dairy herdsman and one other of the regular employees will occupy this residence when completed. Work will be begun as soon as the plans are completed and weather conditions permit.

SWEET CLOVER POINTERS SUCCESSFUL CROP FOR VALLEY.

Sweet Clover Pointers.

A. M. Christensen.

1. The two kinds of sweet clover commonly grown in this region are the white and yellow blossom. Both are biennials, that is, mature seed or complete their growth in two years.

2. White blossom sweet clover is grown most extensively, although it is more rank than the yellow. In the past there has been a difference of a few cents per pound in favor of the white when selling for seed.

3. Sweet clover contains so-called hard seed coats and as a rule only from 40 to 60 per cent of the seed germinates, the moisture necessary to insure germination being unable to penetrate the hard seed coat. To overcome this, have seed tested for germination and if necessary, buy scarified seed. It costs only a few cents more per pound and may be the deciding factor between a good and a poor stand.

4. Sow from 8 to 12 pounds per acre.

5. Sow with or without nurse crop, using wheat, oats, barley or flax for nurse crop. Federal grain people discriminate against wheat grown with sweet clover due to the odor which is imparted to the wheat. When sown with nurse crop little return can be expected the first year, possibly some fall pasturage. If sown alone and under favorable conditions small crop of hay may be had.

6. Seed can be sown with the nurse crop using a grass seeder attachment, or can be drilled in separately at a shallower depth mixing some bulky material with the clover seed to keep it from seeding too rapidly.

7. Sweet clover, like alfalfa, demands soils which are somewhat alkaline in nature. Sweet clover will feel at home and thrive under conditions that would prove fatal to almost all other plants. A firm well packed seed bed is one of the essentials necessary to secure a successful stand of sweet clover.

8. Sweet clover, like alfalfa, requires the presence of certain bacteria to make a good stand. The same organisms that are used to inoculate for alfalfa can be used for sweet clover and vice versa. Successful stands have been secured without inoculation although the safest practice, if in doubt, is to inoculate. Dirt from

an old field of sweet clover or alfalfa can be used or commercial inoculant can be purchased from seed houses.

9. The chief value of sweet clover is for pasture and hay although cash returns from seed crop will be high for a few years due to increased demand and use of the crop. To those raising bees it is estimated to be worth from 5 to \$25 per acre.

10. When cutting nurse crop aim to cut fairly high leaving a good stubble for winter protection.

11. Limited pasturage can be secured the first fall and also the following spring. Too close pasturing will hinder the crop for wintering over. If it comes through winter successfully rapid growth will be evident along in May and stock can be turned in when plants attain height of 10 or 12 inches. Plenty of stock should be turned in to keep growth from getting too rank.

12. When used for hay sweet clover should not get too rank. It should be cut before it blossoms or when the plants attain a height of about 24 inches under favorable circumstances.

13. Ordinarily the second crop is used for seed. Where the crop has been pastured stock should be removed about the middle of June. Seed can be harvested when two-thirds to three-fourths of the pods turn brown or become ripe. Binders with some attachment for catching the seed are recommended for cutting.

Frank Hedley of Crookston secured 5300 pounds seed from 15 acres in 1918, which he sold for \$1200 and he still had 500 lbs. left for seeding himself. In 1919 he secured 2 tons of hay and 300 lbs. seed per acre. Reports on yields vary from 4 to 15 bu. per acre, depending upon seasons and care.

14. The seed can be threshed in an ordinary separator, running it at reduced speed and with less wind than is used when threshing grain. Threshing should be done in afternoon as better results are obtained when seed is very dry.

15. In addition to being valuable as a hay, pasture and seed crop it is of tremendous value as a soil improver. The roots are soft but penetrate deeply into the ground and rot easily. This results in the addition of considerable humus and permits of thorough aeration of the soil. Sweet clover not

only returns nitrogen to the soil but its beneficial effects are noticeable in several of the succeeding crops.

16. Last but not least, sweet clover is an excellent weed fighter, a feature that must be given serious consideration at the present time by the farmers in the Red River Valley.

LIVE STOCK PAVILION CAMPAIGN RECEIVED NEW IMPETUS DURING SHOWS.

Up to the present time \$29,047.23 has been turned in to Treasurer M. E. Dahl of the Red River Valley Live Stock association for the live stock pavilion and annexes which have been constructed under the authority of that association. This is about 60 per cent of what is needed to pay outstanding bills install floors, stucco the walls, and to provide for the 40x125 two story annex fronting on Fourth street which it is planned to build as soon as weather permits.

It is hoped that all members of the association and all who are interested in live stock development in this section of the state will keep in mind that the drive for funds must continue until the property is paid for. It is planned now to set aside two days early in May for a grand drive in all the eleven counties interested in this project. The days will be known as the "Red River Valley Live Stock Pavilion Days" and it is hoped to have volunteer workers in parties of two cover practically every township. All present at the recent meeting of the Live Stock Association expressed themselves in favor of this plan. If the campaign meets with success it is proposed to build another annex north of the new barn completed this winter. Two lots each 50x140 are available if necessary funds are forthcoming. This would give additional space for a 100x140 building two stories high, increasing the total number of square feet owned by the association to approximately two acres.

The latter project, however, will not be undertaken unless there is the strongest kind of support for it. This leaves it largely in the hands of the live stock farmers and of the people in Northwestern Minnesota as to whether this will be done.

NORTHWEST EXPERIMENT STATION STAFF

Crookston, Minnesota

C. G. SELVIG, Superintendent

C. E. Brown, Poultry.

A. M. Foker, Farm Buildings, Drainage.

T. M. McCall, Horticulture, Potatoes, Root Crops.

J. P. Bengtson, Home Projects.

A. M. Christensen, Home Projects, Pure Seed Distribution.

W. V. Gousseff, Live Stock.

R. R. Smith, Field Crops, Farm Management.

A. J. Kittelson, Assistant State Leader Boys' and Girls' Club work.

JUNIOR SHORT COURSE AT CROOKSTON
MARCH 29—APRIL 3,
300 EXPECTED.

Junior Short Course

The Eighth Annual Junior Short Course will be held at the Northwest School of Agriculture the week of March 29 to April 3. Boys and girls from 12 to 18 years of age may come. The expense of the entire week, including board and room, will be only \$3.00. The boys will live in the boys' dormitories and the girls will live in Robertson Hall, the girls' dormitory, under the supervision of the school faculty. Each student should bring his own necessary bedding. Off-times students from each locality room together and each one furnishes part of the bedding. All students will be met at the station and will be well cared for during the week.

The week will be devoted to Boys' and Girls' Club Work but will be of such a nature that even though the student cannot carry out a project he will benefit from the instruction. Judging grains and stock, garden planning, rope splicing, and poultry will be taught to the boys, while the girls will learn sewing, canning, and cooking.

The regular school faculty will instruct during the week. Mr. T. A. Erickson, state club leader, will be present part of the time. Mr. A. J. Kittelson, assistant state club leader, will be here the entire week. In addition, there will be other men and women present who will assist in making the instruction worth while to all who come.

The week is also intended to serve as a vacation, a week of wholesome enjoyment, as well as instruction. Briefly, there will be games, parties, excursions, moving pictures, songs and contests.

In previous years students attending the short course have been given credit for attendance in their local schools. There is no doubt but that the same arrangements will be made this year.

Boys and girls should begin planning now to come. Talk it over with your friends and make arrangements for a number to come from the same locality. Parents should encourage their children to come and do everything possible to make the trip a reality for the boys and girls. Put yourself in their place, and give them a chance to attend. The experience the students will have and the enthusiasm they will show when they return, will make you feel well repaid for sending the children to the Junior Short Course.

The "Farmer" of St. Paul offers to pay all expenses of boys and girls attending the Junior Short Course the week of March 29 to April 3. This will include your railroad fare, board and room. All you have to do will be to secure a few new subscriptions or renewals to the "Farmer." The amount of work you will have to do

will depend on the distance you live from Crookston. Briefly, the plan is this:

25 miles from Crookston—\$9.00 worth of subscriptions.

50 miles from Crookston—12.00 worth of subscriptions.

100 miles from Crookston—\$15.00 worth of subscriptions.

150 miles from Crookston—\$20.00 worth of subscriptions.

200 miles from Crookston—\$25.00 worth of subscriptions.

Anyone interested should write either to the "Farmer," St. Paul, or to the Northwest School of Agriculture, Crookston, Minnesota.

JUNIOR SHORT COURSE
PROGRAM

Northwest School of Agriculture,
 Crookston, Minn.

MONDAY, March 29.

8:00—10:55	Registration
11:00—11:40	General Assembly
11:45—12:25	Poultry
1:15— 2:40	Corn Sheep Breadmaking Sewing
2:45— 4:10	Rope work, Splicing Sewing Breadmaking
4:15— 4:55	Excursion
7:00—10:00	Community singing Illustrated Lecture Moving Pictures— Marguerite Clark in "Prince and the Pauper." 2 Ford Weeklies.

TUESDAY, March 30.

8:00— 9:25	The Pig Potatoes Sewing Canning
9:30—10:10	Gardening Pig Club conference
10:15—10:55	Boys' and Girls' Club Conferences.
11:00—12:25	Baby Beef Corn Sewing Canning
1:15— 5:30	Excursion to Crook- ston
7:00—10:00	Community Singing Illustrated Lecture Moving Pictures— Douglas Fairbanks in "Say Young Fel- low" 2 Ford Weeklies.

WEDNESDAY, March 31

8:00— 9:25	Sheep Potatoes Canning Breadmaking
9:30—10:10	Poultry
10:15—10:55	Boys' and Girls'

11:00—12:25	Club Conference Dairy Calf Corn Canning Breadmaking
1:15— 5:30	Excursion to Crook- ston
7:00—10:00	Community Singing Illustrated Lecture Moving Pictures— Mary Pickford in "Mistress Nell." 2 Ford Weeklies.

THURSDAY, April 1.

National, State, and local club leaders will be present for a conference and will meet the boys and girls during the day.

8:00—9:25	Dairy Calf Potatoes Sewing Breadmaking
9:30—10:10	Gardening Pig Club Conference
10:15—10:55	Boys' and Girls' Club Conference
11:00—12:25	Baby Beef Rope Work—Knots Sewing Breadmaking
1:15— 1:55	Addresses by Club Leaders
2:00— 2:40	Breadmaking Dem- onstration.
2:45— 3:25	Canning Demonstra- tion
3:30— 5:30	Field Meet and Games
7:00—10:00	Community Singing Illustrated Lecture Moving Pictures— Douglas Fairbanks in "Bound in Mo- rocco." 2 Ford Weeklies.

FRIDAY, April 2.

8:00— 9:25	Grain Varieties Dairy Calf Canning Breadmaking
9:30—10:10	Poultry
10:15—10:55	Boys' and Girls' club Conference
11:00—12:25	Baby Beef Potato Judging Con- test Canning Breadmaking
1:15— 5:30	Judging contests for final awards. Dairy Calf Dairy Calf Baby Beef Pig Sheep
7:00—10:00	Final song contest. Awarding of prizes to winners in con- tests. Moving Picture— "Hearts and Jer- seys." 1 Feature 2 Ford Weeklies.

Debaters on the Inter-society Debate Teams are putting forth every effort to prepare for the final debate on Monday evening, March 22. The question this year will be, "Resolved, That the United States should further restrict immigration by a literacy test." Each society will have two teams. A preliminary contest will be held Friday evening, March 19, to eliminate one society. The winners in the preliminary contest will compete for the cup on Monday evening.

The Agrarian debaters are: Earl Jensen, Laudy Reske, Percy Hanson, Henry Bagge, Ole Engelstad, Maurice Bursheim. The Pioneer teams consist of: Milton Warner, Morrill Campion, Clyde Green, Melvin Bengston, Willard Tunheim, and Carl Narveson. The Lincoln teams are: Walter Anderson, Rufus Logan, Ray Knudson, John Landby, Gust Tammy, and John Swiers.

Basketball at Northwest School.

Basketball has continued to be the chief athletic sport at the Northwest School. The following games have been played: Aggies vs. McIntosh at Crookston, 31 to 15 in favor of Aggies; Aggies vs. Stephen at Crookston, 29 to 12 in favor of Stephen; Aggies vs. Warren at Crookston, 19 to 18 in favor of Aggies; East Grand Forks vs. Aggies at Crookston, 51 to 13 in favor of Aggies; Aggies vs. Fosston at Fosston, 6 to 86 in favor of Fosston; Aggies vs. Moorhead Normal School at Crookston, 22 to 18 in favor of Aggies. Crookston High, 31 to 15 in favor of Aggies. Five won, two lost.

The following games are scheduled for the remainder of the season: Fisher High at N. W. S. A., March 3; Moorhead School at Moorhead, March 6; Crookston High at Crookston, March 10; and Fisher at Fisher, March 13.

Prominent Rural Leader Passes Away.

The Northwest School of Agriculture has lost one of its best friends and staunchest supporters in the person of John S Hilleboe of Warren, who passed away on Wednesday evening, February 18. Those who attended the commencement exercises a year ago will remember that Mr. Hilleboe was present as the guest of the institution on that occasion and that he spoke at the get-together dinner following the commencement exercises. His sudden demise came as a shock to all.

Mr. Hilleboe was a leader in rural life. As a member of the Red River Valley Live Stock and Development associations, he was an influential factor in the forward movements that are being carried on in this part of the state.

The Northwest Monthly joins in expressing the deepest sympathy which is felt by the entire student body.

MEMORIAL FUND CAMPAIGN

LIST OF SUBSCRIBERS

TOTAL OF \$948.50 ALREADY SECURED.

Seniors 100 per cent Over, Total \$135.

\$5.00 each from James Felber, Morrill W. Campion, Milton Warner, Herbert Johnston, Walter Sprung, Clarence Tucker, John Flikke, Willard Tunheim, Joe Thorkilson, Arthur Andresen, Joseph Brunall, Leonard Wiberg, Melvin Bengston, Henry Bagge, Carl Narveson, John Swiers, Ruby Knudson, Louise Edman, Vivian Lundberg, Olga Lovaas, Laura Jensen, Wanda Gaass, Ella Tollefson, Agnes C. Gronner, Ellen Ahlm, Martin Rud, and Einar Aakre.

Juniors Come Strong With \$235.00.

\$5.00 each from Mabel Bergh, Hazel Perry, Agnes Torgerson, Walter Anderson, Philip Solberg, Lewis Vesledal, Henry Ferguson, Archie Lee, Milton Marmorine, Edwin Sather, John Landby, George Norquist, Rufus Logan, Maurice Bursheim, Martin Swedin, Gilmar Lee, Percy Hanson, Joseph Johnson, Loring Wheeler, Victor Norquist, Elmer Bredlie, Marie Larson; \$3.00 each from the following: Myrtle Erickson, Esther Landby, John Knutson, Martin Anderson, Carl Lindfors, Clyde Green, John Forder, Ray Knudson, Harry Melick, Carl Gullingsrud, Harold Hallstrom, Laudy Reske, Elmer Skine, Jay Moses, Amos Kasberg; \$2.50 each from Clara Gilbertson, Luella Hanson, Mable Vesledahl, Bena Flikke, Laura Kjalberg, Marie Austin, Gladys Erickson, Edith Shosten, Alma Lindgren, Hope Jensen, Sophie Krbechek, Gunnar Boe, Ole Negaard, Nobel Olson, George Jorgenson, Eldred Lindahl, Herbert Remick, Egon Nelson, Alfred Carlson, Hilmer Carlson, Clayton Walker, Roy Melick, Oscar Edevold, Veral Gibbons, Leonard Kleppe, Emmett Peyton, Albert Vick, Kenneth Monson, Earl Jensen, Alfred Erioseph Parks, and Otto Johnson.

Freshmen Prove Winners With \$461.00

\$20.00 each from Oscar Clementson, Clarence Carlson, Erwin Rohrer, and Harold Erickson; \$10.00 each from Gerald Stephens, Lloyd Ness, Myrtle B. Knutson and Anna Johnson; \$5.00 each from the following: Walter Welte, Oscar Austin, Norman Friday, Richard Aakre, John Mikkelsen, Canby Jensen, Eloy Rud, Elmer Sandal, Joubert Roragen, John Gronner, Ingwald Landro, George Kassa, Christian Sorvick, Consel Nyberg, Milo Wold, Lars Engelstad, Oscar Stennes, Valley Sewill, Clifford Lee, Maurice Ohlquist, Edwin Martinson, Martin Ohrt, Nels Vigstol, Gottfred Swanson, Theo. Silnes, Roy Spangrud, Ole Engelstad, Robert Hunter; \$3.00 each from Virgil Gilbert, Omer Paradis, Fritzof Folland, Stanley Larmoe, Norval Hegstad; \$2.50 each from the following: Carl Anderson, Carl Sandal,

Magnus Erickson, Hilmer Folden, Raymond Gordon, Emil Nelson, Edwin Albertson, Oscar Peterson, Clarence Engelstad, Alfred Franzman, Osmund Jensen, Alvin Rongen, John Nakken, LaVern Peterson, Lawrence Walters, Oles Underdahl, Tollof Underdahl, Ralph Tangjerd, and Paul Tangjerd.

Mildred Temple, \$10.00; Lloyd Braathovde, \$6.00; \$5.00 each from Edward Solberg, Lars Brenberg, Erwin Kilen, Johnie Samsdahl, Leland Lincoln, John Pearson, Eddie Jensen, Roger Briden, Frank Short, Inga Folvick, Una Briden, Esther Sandem, Anna Dale, Johanna Nabben, Rosalind Friday; \$2.50 each from the following: James Homme, Ole Tarvas, Nils Jacobson, Gust Tammy, Arthur Anderson, Laura Melo, Jennie Peterson, Alma Evenson, Tillie Neperil, Alpha Etterfeld, Hanna Martinson, Esther Bakken, Minnie Torpet, Mabel Clementson, Mary Dostal, Neva Gibbons, Myrtle Marmorine, Alma Nelson.

Faculty, Offices and Employees.

Names follow: Mr. and Mrs. Selvig, \$10.00; \$5.00 each from the following, J. P. Bengtson, A. H. Larson, A. M. Paker, A. M. Christensen, C. E. Brown, Edith Hansen, Cora Paulsberg, Alvina Hanson, Kate Bedard, Esther Kroog.

\$5.00 each from Hazel Rockwood, T. M. McCall, C. L. Rairdon; \$3.00 each from Sigfred Lodoen, Louise Pederson, Dewey Sahlberg, J. J. Hickman; \$2.50 each from Sam Roningen, Carl Rasmussen, Jack Hanson, Henry Fontaine; \$2.00 each from Margaret Burus and Severt Hauge; Eugene Loenis, \$1.00.

Friends Outside the Institution.

Helen, Margaret and George Selvig, \$3.00; Dr. C. Selvig, Harmony, \$5.00.

The next to hear from will be the alumni and former students as well as friends of the institution. A supply of circulars and cards may be secured upon writing Miss Esther Kroog, treasurer of the fund. Let's finish up this campaign before April so that there may be no delay in securing final plans and getting started upon actual construction of this memorial.

Notice to Alumni.

The annual alumni reunion will take place Thursday, March 25 in conjunction with the get-together dinner held at the school following graduating exercises. Make your plans to attend. The business meeting will be held in the auditorium immediately following the commencement exercises in the afternoon.

C. A. BERG, Secretary.

1919 Home Project Work A Success Greater Plans Made For 1920

1919 HOME PROJECT WORK

Final report of the past season's students' home project work has just been completed. Both in point of scope and efficiency the high mark was reached in that feature of the school's work. A larger number of students than ever before was enrolled and a larger percentage completed the work and turned in complete reports.

The potato project was the most successful of the boys' projects this year. Twelve boys report a total of production from their plots of 1628 bushels with a profit of \$1272.64. Lewis Vesledahl of Erskine reports the lowest production cost per bu. \$22. He raised 250 bushel on his acre plot with a profit of \$244.75. Milton Warner of Warren reports the highest yield per acre. He raised 140 bu. on his half acre plot which gives him the rate per acre of 280 bushel. Elmer Skime of Gonvick deserves special mention for thrift. While working on this section to earn his way through school this year, he raised an acre of potatoes on rented land during his spare time after work in the evenings and cleared \$107.90. He reports third highest yield, 206 bu. per acre.

The boys who took the grain projects this year were seriously handicapped on account of rust. Those who tried out the Mindum wheat achieved the best results. Albert Vick of Gonvick, and Leonard Kleppe of Clearbrook each report a yield of 25 bu. per acre. Alfred Erie of Gonvick raised 24 bu. per acre and Adolph Fadnes of Flaming raised 22½ bushel.

The home project work for girls was a new feature this year and proved very popular. Eighteen girls turned in completed reports and wrote enthusiastic stories as to what they accomplished in home canning, sewing, and household accounts.

The benefit of this kind of work can best be judged from the students' own stories. A typical one is published here in full.

MY EXPERIMENTS.

In the year 1918 my project was to experiment with potatoes. Great success was achieved. The varieties under test were Ohios, Green Mountain and Bliss Triumph. This year however, I did not have quite as good results as I did the previous year,

but my profit was greater due to a better price obtained when sold. The Ohios I believe have come to stay with me although the Green Mountain is a good yielder but is considerably later.

This year I decided to carry on two experimental plots but what to put in the other plot was the next thing I thought of wheat as we were not getting satisfactory yields from our Velvet Chaff every year as it shelled so readily. In looking over the station reports I came to the conclusion that I would try out a rust resistant wheat. The Mindum No. 470 was selected for my project.

Almost every other year we have suffered from rust and if I could find a wheat that would not be affected by rust that would mean a lot to me.

Seed for a one acre plot was secured so I thought here's where I begin farming (growing wheat on my own hook). A fairly good piece of land was secured for my wheat. The land had been fall plowed about six inches deep. Pains were taken this spring to get weeds out before seeding. To do this, the field was harrowed so the weeds could get started (germinate.) This was done about April 12 when about ten days later manure was applied, disked in and harrowed again. Seed had been prepared and was sown at the rate of one and one-half bushels to the acre, being sown about an inch and a half deep. The field was then dragged again to insure an even depth of seed and a fine mulch. While finishing up, rain began pouring down in barrel lots. In about eight or ten days the grain was evenly coming up and looked promising. A few weeks later it seemed to suffer from drought as it was turning yellow at places. The field of Velvet Chaff adjoining also began turning yellow at places, but before long it was restored to its natural color by a heavy rain.

The field was gone over twice, pulling out all weeds that could be seen. On August 5 the wheat was cut, requiring 109 days to mature—eight days longer than the Velvet Chaff. Thirty-six well sized shocks were put up on that acre. A week later quite a change took place. Our neighbor's cattle broke loose and got into my plot and helped themselves to my most beloved wheat. You know what happened. The field had to be re-shocked and with the feeling if they

came there again—The grain was soon stacked and well protected from stock but threshing was not done so soon, as I had to wait till "pa" had his grain threshed and I was anxiously waiting to see the returns. Threshing came and the returns were very satisfactory, yielding 22½ bushels to the acre which was the highest yield of any wheat field in the neighborhood. It tested sixty-two pounds to the bushel at the elevator October 20, 1919. It was two pounds heavier than any other wheat tested in Fertile of the 1919 crop. The grain is mine and will not be sold. Every good kernel goes for seed because of its yield and has proved to me to be a rust resistant wheat.

The field of Velvet Chaff adjoining it got the same preparation of seed bed but was not applied fertilizer. It yielded nine bushels to the acre. Its low yield was due largely to the rust.

This year as we all know, rust was with us again so I had the chance of giving it the test I planned. It was also a test on alkaline soil. In my plot was an alkaline spot about twenty feet in diameter, which was tested with the litmus paper test and found to be alkaline. My whole plot was manured at the rate of nine loads to the acre. The grain showed little difference except at harvest time except that it was a trifle slower in getting ripe and a trifle shorter than where the soil was not alkaline. No difference could be seen in the size of the heads where the soil was alkaline and where not.

My neighbor's durum wheat yielded six bushels to the acre on land that was summer fallowed. He secured his seed from a Fargo seed concern. Next year he will grow Northwest Station grown seed Mindum No. 470. Also two others will try out this grain because they saw the results I obtained.

The great trouble with us farmers in the Valley is we do not keep in touch with the Stations the way we should. Visit the Station. Read their reports, bulletins and act. Next year oats and barley will be given a try out. I also want more Mindum No. 470.

I feel well repaid for my summer practicum work and have learned something worthwhile. There is nothing like trying out certain things or grains for yourself.

ADOLPH FADNES, Flaming.

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