

THE NORTHWEST MONTHLY



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NUMBER 4.

Junior Short Course Week Large Attendance Expected

April 2-6 is scheduled as Junior Short Course week, and indications are that this will be a record year from the standpoint of attendance. Letters have been received indicating that delegations will come from several localities. In one high school the entire freshman class is planning to spend the week at the Northwest School. In some places the Easter vacation has been so arranged that students can come. Plans are also under way to bring the district winners in the bread making contests to the school for the final contests. These contestants will also attend the regular classes.

In view of the increased enrollment it has been possible to make a reduction in the expenses. It will be possible to attend for the entire week for a cost of only \$3 which will include board, room, and movies. The boys will have a small expense of 20 cents in connection with their rope work, but they will make some useful things to take home. The girls will buy their own material for the sewing classes, which will amount to 50 to 75 cents. This will be made into aprons for them to take home and wear. With this low expense it will be possible for a large number to attend.

The forenoons will be spent in classes. The boys will study about the baby beef, the dairy beef, the pig, poultry, corn, potatoes, gardening, and sheep. The girls will be primarily interested in cooking, sewing, and canning. Boys and girls club work will

be emphasized, with methods of organization and best methods for conducting a project. There are so many excellent trips and prizes for club winners that it pays to secure all the information possible.

The afternoons will be spent in judging contests, games and excursions, and the evenings in singing, illustrated lectures, and movies. It is planned to have the famous film, Quincy Adams Sawyer, in addition to several other high class productions.

All students will be met at the station and will be cared for in every way. The age limit is from 12 to 18 years of age. Each one should bring bedding, soap, and towels. Tennis shoes are desirable if the student already has them, otherwise bring rubbers, as they can be used in the gym in place of tennis shoes. The students will be housed in the school dormitories and will be well cared for in every way.

This is the best week at the Northwest School and so much good is accomplished that no boy or girl eligible to come should be denied this trip. It is suggested that mention of this week be made to boys and girls in the local communities by the readers of the Northwest Monthly, and that good delegations be sent from every part of the Valley. Some farmers' clubs are holding contests and are offering prizes to winners in the form of expense money to the course. This may be a suggestion for others to follow. It is the form of award that will have a far reaching result.

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

Another high point has been reached in the history of the Northwest School Farmers' Week and Red River Valley Winter Shows. Those who have followed it from the beginning realize that today it bears very little resemblance to the small gathering of farmers who attended their first meeting held at the school in December, 1910.

Each year such terms as the "Red River Classic" and the "Little International" become more of a reality.

It is becoming more than ever before the one week of the year when those living in the northwestern part of the state spend a few days at the Meetings and Shows.

This year's meeting was characterized by discussions of present-day importance. The exhibits were of unusually high merit. The livestock shown was a revelation of what has been accomplished during the past de-

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NORTHWEST STATION REPORT FOR 1922 READY FOR DISTRIBUTION

Summary of Results Shows Wide
Range of Work.

A large number of people of Northwestern Minnesota visited the Northwest School and Station during the growing season and learned at first hand the magnitude and scope of the work in progress. This summary has been prepared for those who have not had the opportunity of seeing the work in progress at the Experiment Station.

The major regional problems under investigation at the Northwest Experiment station deal with farm and horticultural crops. However, experiments and demonstrations are in progress in live stock and poultry feeding and management.

From 500 to 700 plots are needed each year for the experimental work in agronomy. Six of the large fields of the farm were used in 1922 for the propagation of desirable varieties of grain to be used for distribution among farmers in 1923. The remaining large fields were used for the production of corn and soy beans for silage, alfalfa and sweet clover for hay and pasture.

In the horticultural work five acres are used for variety and hardiness trials of tree, bush and small fruits, while more than 125 varieties of garden vegetables and root crops and 125 plots in potatoes were used in the experimental work.

Farm Crops.

Corn.—Twelve varieties of dent and flint corn were in test in 1922. Northwestern Dent corn, with 49.6 bushels of ear corn per acre, has produced the highest average yield of ear corn. North Dakota White Flint, Pearl Flint and Geln have produced average yields of corn of from 43 to 48 bushels per acre. They are recommended for ear corn and for hogging off.

Northwestern Dent and Minn. 13 have proved to be two good varieties of corn for silage at Crookston, the former maturing generally during the first week in September, enabling the grower to get a large part of the silage in before damage of frost. The Minn. 13 makes a higher yield and matures sufficiently well to make a good grade of silage.

Barley. The early seeding of barley out yielded the later seeding by over six bushels per acre. Manchuria 184 and Akers, which are 6-rowed barley varieties, have produced the highest average yields, the former yielding 35.8 bushels per acre in 11 year average.

Oats. Improved Ligowa (281) oats on a 50-acre field produced 57.2 bushels per acre. Eighteen varieties were in test in 1922. Of the new varieties brought in test the Minota, New Selection and Gopher (60 day) show considerable promise.

Wheat. Winter wheat has been seeded in several ways, but has been successful only when seeded between the rows of standing corn in which every tenth row was left standing to catch the snow. In a six year average 22.3 bushels of winter wheat were produced per acre, in comparison to 22.4 bushels of marquis. Marquis wheat, with 21.4 bushels per acre, has the highest average yield of the common wheat varieties. Minn. 470, with 25.3 bushels per acre, has the highest average yield of the amber durum wheat varieties. Kota wheat has proven least susceptible to rust of any common wheat tried. Compared with Marquis for three years, it has shown weaker straw, lower milling qualities, slightly lower yield, and a slightly yellow color in the flour.

Flax. A wilt-resistant variety of flax, Chippewa (Minn. 25-7) developed by the Minnesota station, will be increased in considerable acreage in 1923 for distribution in 1924.

Soy Beans. Soy beans were sown for hay, silage, and seed in 1922. An excellent quality of silage was produced when soy beans were mixed with corn at the rate of 1 to 3. "Because of their earliness and yielding ability, Wisconsin Black, Pedigree No. 1, and Minsoy may be recommended for seed production. For hay or silage the Manchou is good, largely because of the relatively low price for the seed.

Alfalfa, Sweet and Red Clover. The greatest response from commercial fertilizing materials came with the legume crops. Increased yields varying from 12 to 100 per cent were made with acid phosphate alone and phosphate and manure on the hay crop from spring seeding of three types of sweet clover and from the first crop of second year red clover. Treble superphosphate with a 250 pound application produced on second year alfalfa an increased yield of 2.96 tons per acre.

Potatoes.

Four acres of potatoes consisting of 2 acres of Early Ohio, 1 acre each of Irish Cobbler and Green Mountain were certified and are to be used for pure seed distribution work in 1923.

The fertilizer tests indicate that acid phosphate gave the largest net returns. However, the increased yield was not profitable with the prevailing low prices for potatoes at harvest time. The greatest increase in yield of potatoes per ton of manure was from the four-ton application.

Applications of sulphur made to the soil were of no value in tuber disease control. Hot formaldehyde proved to be as effective in tuber disease control as corrosive sublimate. Bordeaux mixture as a liquid potato spray produced an increase of 32 bushels per acre on three applications, with practically the same per cent of increase when applied in dust form. A com-

mercial mixture (Pyrox) produced a slight increase in yield over Bordeaux.

Many promising new strains of the leading varieties are being developed which show considerable promise.

Fruits.

Considerable progress has been made in the production of tree fruits. During the past season fifteen bushels of hardy crabs were harvested and many successful top grafts of hardy apples were made. Gooseberries, currants and plums set good crops during the season.

Root Crops.

Sugar beets, mangels and rutabagas made the following respective yields per acre: 10.8, 21.5, and 10.32. All root crops have proved dependable, without a failure during an eleven-year period.

Live Stock

Feeding experiments with swine were conducted with various concentrates in conjunction with different pasture crops compared with dry lot feeding. Among the many results noted were: Skimmilk proved superior to tankage as a supplement to a ration of corn and oats for pigs in dry lot. Barley proved practically equal to corn in making gains and produced gains at lower costs. The value of good pastures for hogs was also demonstrated. The high value of sweet clover as a pasture crop for all kinds of stock was proved during the year.

Experiments in beef cattle feeding are now in progress in which various home grown feeds are being used and while the experiment is not closed, many interesting and valuable results are being noted.

Poultry.

By rigorous culling, the Leghorn and Plymouth Rock breeds of poultry have been improved and only high producing egg strains are kept. This improvement work is in progress together with demonstration work in feeding and in breeding up the mongrel flock.

FREE TRIPS AND SCHOLARSHIPS FOR CLUB WORK

Forty dairy calf club members in Minnesota are going to enjoy free trips to the International Live Stock Show in Chicago next fall, as the result of an offer that has just been made by the Minneapolis Journal to the University Extension Division. The Journal offers to give the trip to the boy or girl who raises the champion dairy calf in counties where at least 25 boys and girls take up this project. As the offer includes only 40 counties, the first 40 to send in their enrollments will be accepted. Practically all of the Northwestern Minnesota counties will want to avail themselves of this opportunity of sending its champion Dairy Calf club member to Chicago. It means, however, that it will be necessary to hurry the enrollment lists in to State Club Leader T. A. Erickson. Remember that 25 Dairy Calf club members are necessary to qualify.

In addition to the free trips, four scholarships are offered. These scholarships are good at the School of Agriculture, University Farm, St. Paul;

the Northwest School, Crookston, and the West Central School, Morris, and are offered to the boys and girls raising the state champion dairy calf in each of the dairy breeds.

Pure bred or grades may be used in the contest.

SCHOOL LIFE

The months of February and March will be looked back to as months filled with many interesting features for the students. Two exceptionally high class films were shown, "Orphans of the Storm," on February 15, and "Turn to the Right," February 24. On February 17 Prof. I. M. Cochran, head of the public speaking department of Carleton College, presented a reading, "The Fortune Hunter." He also read several humorous selections at assembly. On March 3 the last number of the lecture course will be presented by Prof. Franz Rickaby, of the University of North Dakota, in a violin concert.

The annual inter-school debate will take place March 2 between the Northwest School, the West Central School at Morris, and the agricultural school at Fargo. On March 5 the annual junior-senior banquet is scheduled. On March 17 the St. Patrick Day party will take place and on March 24 will be held the inter-class field meet.

The inter-society debate scheduled for the early part of March, will be on the subject, "Resolved that the farmers of the United States should adopt a system of controlled production of wheat, corn, and cotton." The societies will also hold a declamatory contest during commencement week, which is creating a great deal of interest.

CUNNINGHAM VISITS SCHOOL

J. C. Cunningham, principal of the Iowa State School of Agriculture, which is organized as a part of Iowa College of Agriculture at Ames, spent a day visiting the Northwest School recently. While here he addressed the students at their assembly exercises. In this address he reviewed the work that both Iowa and Minnesota have done in agricultural education. He paid high tribute to the foresight of the people in Minnesota who established the Central School of Agriculture, University Farm, something like thirty years ago.

"You may not realize it," he said, "but the Northwest School at Crookston has won a reputation that extends far beyond the confines of the Red River Valley. We are really as familiar with your organization and the work that is being done in Minnesota as are the people living next door to your school."

Mr. Cunningham spent the entire day in going over the plan of organization and the administration of the institution with Superintendent Selvig, and conferred with the faculty members with regard to the different courses offered at the school. He was impressed with the buildings and the general lay-out and said he was returning to Iowa with many suggestions gained from visits to the Central School and the West Central School at Morris, which he had visited before he came to Crookston.

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NORTHWEST SCHOOL FARMERS' WEEK

cade. The speakers discussed questions that were of timely importance and as one farmer said, "Every one of them got down to brass tacks and explained things so we could understand them and make use of them."

The Minnesota Crop Improvement association held the State Grain Show in connection with the valley show and gave an excellent opportunity to Northwest farmers of comparing varieties of grain types adapted to each section. The impression gained was that the northwest showed up very favorably in comparison, and this was further evidenced by the large number of local men who won prizes in the state show. All in all, it seemed to be the unanimous opinion that the week of February 5-9, 1923, will be hard to surpass.

Day Meetings

The day meetings were unusually well attended and questions of great importance were discussed. These meetings began on Monday afternoon with discussions of better seed and recommended varieties by E. R. Clark, Northwest School and A. C. Arny, University Farm. R. F. Crim spoke on alfalfa for the Red River Valley. Tuesday's program was also along crop improvement lines. The men who appeared on the program at that time were R. S. Dunham, A. D. Haeckel, C. P. Bull, Fred Griffie, E. C. Stackman and T. J. Harrison, of Winnipeg. The principal ideas presented at this time were regarding pedigreed seed, seed distribution, and rust prevention.

Wednesday's program was devoted to livestock, by W. H. Peters, A. J. Glover, L. V. Wilson. In the afternoon, in addition to demonstration on sheep and a livestock parade, addresses were given by J. F. Reed and Dr. C. E. Cotton, secretary of the Minnesota Livestock Sanitary Board.

Thursday's program dealt with questions of marketing and transportation. The discussions were led by G. W. Hagburg, T. H. Hagen, J. S. Montgomery, H. J. Hughes, and M. L. Warner. On Friday, there was a diversified farming conference, at which time the speakers were August Burk, Brooks; R. S. Dunham, Joseph Ball, F. H. Ross, H. A. Douglas, L. E. Flink of the Minnesota Beet Sugar Company, and Miss Lucy Cordiner. One interesting question which was discussed at these meetings was sugar beets for the Red River Valley.

Evening Meetings

Each evening the Armory was filled to its capacity. Many worthwhile topics were discussed. On Monday evening a very able address which dealt primarily with agriculture and its problems was given by Dean W. C. Coffey. On Tuesday evening Dr. Preston J. Bradley, of Chicago, presented the subject, "The United States of Tomorrow." In addition to presenting the leading question of present importance within our country, Dr. Bradley discussed conditions abroad and their effect on the United States.

On Wednesday evening Dr. Roy L. Smith, Minneapolis, spoke on the subject, "At the Foot of the Rainbow," a topic for personal application. On Thursday evening Dr. Chas. W. Gordon (Ralph Connor) Winnipeg, spoke on "Signposts on the Road to Industrial Peace," giving the audience the viewpoints regarding industrial disputes.

Music for the evening meetings was furnished by the Northwest School Glee Club, the Crookston High School orchestra, Girls Glee Club, the Twin Valley band and the Crookston Municipal band, under the direction of H. L. Smith. The Crookston Business and Professional Women's Glee Club appeared on the program Thursday evening.

The Grand Red River Valley Tableau

On Wednesday evening a tableau arranged by Dr. Anna Brekke, Miss Mae Rideout, Mrs. Merriam Stephens and Max Shallett, was presented and was a decided success. The tableau presented scenes showing present and future possibilities in the production of various products of the Red River Valley, including milk, potatoes, sheep, corn, butter, alfalfa, eggs and wheat.

The Red River Valley Song Contest

Sixteen hundred people listened to the combined chorus of the Northwestern Minnesota Singers' Association, directed by T. W. Thorson, of Fertile. A special train filled to capacity, from Staples and intermediate points augmented the attendance on Friday, when this program was held. The festival met with enthusiastic applause and proved that the Northwest is capable of producing musical organizations of great merit. There were ten organizations present, including Northwest School, Lowell, Fisher-Bygland, Fosston, Erskine, Fertile, Crookston, Ada, and Hendrum. Each group presented a series of numbers in addition to participating in the grand chorus. This was the third appearance of the association, which has between 150 to 200 members and is now recognized as a permanent organization in the Northwest.

Women's Meetings

As usual, very strong programs were carried on at the Women's Meetings during the week. In addition to being addressed each afternoon by the leading speakers for the evening meetings, the women were fortunate to hear Miss Lucy Cordiner, extension specialist in nutrition, Miss Beatrice Johnstone, of Grand Forks, Mrs. Genevieve Meybohm, of the extension division, and Mrs. H. E. Simpson, of Grand Forks.

Luncheons

In order that each organization might have sufficient time for the discussion of its own problem, special meetings were scheduled during the noon hour each day. On Monday evening there was a dinner meeting of the judging teams and the Junior Livestock Show exhibitors. On Tuesday noon the Minnesota Crop Improvement Association and the Red River Valley Crops and Soils Association met. On Wednesday noon the poultrymen and

in the evening the annual banquet of the Red River Valley Livestock Association was held. On Thursday the luncheon was under the auspices of the Minnesota Red River Valley Development Association, while the alumni of this school met on Friday. All of these meetings were well attended and some excellent talks were presented.

Demonstrations

A number of excellent and interesting demonstrations were presented during the Farmers' Week by boys' and girls' club teams and teams from the Northwest School. The Glue Club of Kittson county, gave a garment making demonstration. The A. E. F. Sheep demonstration team of Hunchboldt presented a demonstration in the pavilion one afternoon. Arnold Swanson and Wallace Miller of the Northwest School gave a wheat demonstration; Iver Johnson and Julian Halvorson, a corn demonstration; Johanna Nabben and Clarissa Friday, the care and propagation of house plants, and Della Nyberg and Gladys Christopherson explained interior decoration.

All of these demonstrations were very well received and in each case a large number of questions were asked. It is expected that this will be a regular feature of other Farmers' Weeks, and, thereby, be an incentive for boys and girls in school to prepare for this event.

Sales

The sales on Thursday and Friday were a decided success. The average price for the 52 head of Holsteins was \$177. The top price was \$480, paid by the Childrens' Home at Lake Park for Bess Burke Hartog, consigned by the Dollar Farm of Mentor. The highest price paid for Shorthorns was \$280, while the average paid for swine was \$40. Practically all of the sales were to breeders of the Red River Valley, and was an indication of greater interest in pure bred stock.

Duluth-Twin City Visitors

On Wednesday, February 7, delegations from Duluth, Twin Cities, and the state legislature visited the Winter Shows. Two special cars brought the visitors from the cities. The Duluth delegation was headed by J. F. Ingersoll of the State Board of Grain Appeals. Among the Twin City delegation were C. E. Munns, secretary of the Minneapolis Civic and Commerce Association; Edward Barr, St. Paul Association; Tom Canfield and J. A. Stoneberg, members of the state fair board; E. C. Leedy and H. W. Bierly of the G. N. and N. P. lines, and Geo. W. Kelley, Editor of the Northwest Farmstead. The senate delegation consisted of R. T. Buckler, C. L. Hansen, William C. Zamboni and A. A. Haagenson. The House delegation consisted of representatives J. C. Pratt, C. M. Iverson, W. E. McNelly, C. M. Bendixen and F. A. Green.

One outstanding feature of the day was the presentation of a check of \$1,000 by the Duluth Board of Trade towards the livestock pavilion building.

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agricultural education and home training for
Northwestern Minnesota.

"THE VALLEY'S WEEK"

The Red River Valley was the scene of an important event when the thirteenth annual Northwest School farmers' week meetings were held. The fact that several organizations hold their annual exhibit of farm products, pure-bred stock and poultry at the same time has tended to make the week one of outstanding rank in the year's annals for this section of the state.

It is interesting to recall how this annual Red River Valley event has grown since 1910, when it was held for the first time under the title of farmers' short course, at the Northwest School. The writer recalls how surprised he was to see such a wonderful exhibit of wheat as was shown in the first farm crops show held in connection with the meetings. It was the first attempt by the Northwest School to reach out in its plan to get into closer contact with the farmers of the region it is its duty to serve.

Later "Weeks" grew in scope, attendance, importance and influence. The farm crops exhibit, after being organized and managed directly by the school for four years, was placed in the hands of a separate organization. The meetings and exhibits were moved to Crookston on account of lack of room at the school and its distance from the city. A winter live stock show was added, later to be taken up by a new organization. A poultry exhibit was added through the action of the poultrymen who desired to cooperate. And thus it has grown.

The principal reason for the growth and development of these meetings and shows is the fact that the Red River Valley is a large agricultural area isolated from the southern part of the state, where the state organizations center most of their activities. Farmers in this section of the state cannot afford, as a rule, to expend for railroad fares the amounts required to attend as many of the state meetings and shows as they would like. They have demanded and have cooperated in building up their own meetings and shows in order to get the most possible good out of them.

Another factor is the Northwest School of Agriculture, whose staff have at all times been ready to help thru these meetings and shows in the solution of the agricultural problems of this section of the state.

No one who has followed the development of the "Week" but has been struck with the fact that it has come

from the most potent spring of action, a fine spirit of cooperation. It is true that there is a Red River Valley spirit that teaches and preaches cooperation. This spirit is found in the heart of every loyal Minnesotan living in this section of the state. It manifests itself in the activities of University specialists, county agents, farm bureaus, leading farmers in every county, business men, women, school people and all who help. This is the secret of it all.

The Northwest Monthly wishes to felicitate the Northwest School and all the cooperating organizations upon the service rendered and the work accomplished by the 1923 "Week."

ALUMNI REUNION A SUCCESS.

The Northwest School Farmers' Week was the occasion for a very enthusiastic reunion of alumni and former students. Alumni were present from the first class until that of last year. The classes of '16 and '19 had the largest number of returned alumni. A great many of the alumni had entries in the various exhibits and were among the high winners. Other members were participants in the combined chorus of Friday evening. In every phase of the Winter Shows there was evidence of interest and co-operation on the part of alumni.

Friday was the day set aside for the alumni meeting, luncheon and get-together. Each one was a success in every way. Several questions were brought up at the alumni meeting, including the matter of holding the 1924 banquet and get-together at the school and of going on record as endorsing the \$5.00 life membership fee. The following officers were elected: Alfred Wiger, '18, vice president, and Harry Hedin, '11, secretary. The other officers continuing for another year are Carl Berg, '11, president, and John Hest, '15, treasurer.

Nels Engen, '15, county superintendent of schools of Marshall county, acted as toastmaster at the banquet. A very interesting program had been arranged, centering around the topic, "The Mill of Progress." Topics referring to milling were applied to school life and many clever applications were presented. The speakers were: William Lindberg, '12, of Gary; Miss Anne Simley, of the faculty; Harry Hedin, '11, Twin Valley; John Gronner, '22, Underwood, and Superintendent C. G. Selvig. The music for the occasion, in addition to community singing, consisted of a vocal solo by Miss Katherine Kneeshaw, violin solo by Arthur Ingwolson, '23, and a group of songs by the Senior Octette.

The following alumni were present: Gerald Stephens, '22; Harry Hedin, '11; Mrs. John Clover (Emma Osterloh), '12; Arthur Skonovd, '18; Ruth Engelbrakson, '16; Esther Pearson, '16; Stanley Arneson, '18; Marion Johnson, '17; William Lindberg, '12; Mrs. William Lindberg (Helga Lindfors), '12; Iver Westad, '13; Martin Sangen, '18; Mrs. G. S. Olson (Lena Opdahl) '09; Amos Kasberg, '21; Myrtle Marmorine, '22; Nels Palm, '14; Henry Rud, '16; Elba Buhn, '19; Walter Anderson, '21; Walter Sprung,

'20; Nels Engen, '15; Mrs. Femrite (Alma Nettum), '16; Einar Aakre, '21; Mrs. J. W. Taylor (Esther Landby) '21; Albin Johnson, '19; Ella Fossbakken, '19; Louis Fossbakken, '09; Eldred Lindahl, '21; Neva Gibbons, '22; Lloyd Ness, '22; Oscar Lovaas, '15; Elmer Bedlie, '21; Alfred Wiger, '18; Amy Malakowski, '18; Charles Brown, '13; William Espe, '16; Herman Skyberg, '16; Theodore Peterson, '19; Oscar Lund, '16; Eddie Hammer, '16; Rasmus Heiberg, '17; John Flikke, '20; Edward Solberg, '21; Ole Flaal, '16; John Swiers, '20; Paul Engelstad, '16; Mrs. Paul Engelstad (Olive Larness) '16; Ila Slyter, '22; Kenneth Monson, '21; Wilbur Johnston, '21; Ray Rutherford, '19; Morrill Campion, '20; James Porten, '17; Almira Torger-son, '17; Gertrude Osterloh, '15.

"THINGS TO THINK ABOUT"

Selected from Addresses Given During
1923 Northwest School Farm-
ers' Week.

Dr. C. W. Gordon (Ralph Connor): When you get to a man's conscience, show him what is right, and then give him time to think, he will come around all right. Get the idea of brotherhood into industry and 90 per cent of our troubles will be gone.

Mr. H. A. Douglas, president of the Chaska Sugar Beet Company: Last year 10,000 tons of beets were shipped from the Red River Valley for which a price of \$6.40 per ton was paid f. o. b. loading station. Every farmer raising beets last year is asking for an increased quota for the coming season. It would require from 12 to 15 sugar beet factories to supply Minnesota's home needs for sugar.

Dean W. C. Coffey: I hope to see agriculture organized on such a business plane that life on the farm can be just as significant as anywhere else.

Dr. E. C. Stackman: A single barberry plant has been known to cause a loss by rust of \$12,500 and damage from one plant has been traced 11 miles. In 1903 Denmark passed a barberry eradication law, and has not had a single serious rust outbreak since. When rust is found it is always traced to some barberry plant which has been overlooked.

Prof. T. J. Harrison of the Agricultural College at Winnipeg: Our college is planning to have pure seed with every farmer in the province within the next five years. Last year Manitoba produced almost 40,000 bushels of pure seed.

Mr. Charles F. Collisson, agricultural editor for the Minneapolis Tribune: We are holding up as examples to other communities the splendid co-operation between town and country in the Red River Valley that has made these buildings possible and made the Winter Shows such a success.

Mr. Hugh J. Hughes: The farmer who loads field-run potatoes into a car is only fooling himself, for he pays freight on a lot of junk, as well as getting a lower price for the carload as a whole.

Mr. J. S. Montgomery: In 1922 the Central Cooperative Commission As-

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Red River Valley Winter Shows

Contests

Since the entire aim of the Northwest School Farmers' Week is educational a great number of contests are staged, in which every one may take part. These contests include the rural School Spelling Contest, the Red River Valley Essay Contest, high school judging contest, farmers' club judging contest, and contests among the boys and girls in club work.

The winner of the spelling contest was Margaret Reese, of Kittson county, with a score of 100 per cent. Mable Bernstrom of Hallock was second with 99 1/4 per cent, and Eleanor Johanneck, of Red Lake Falls was third. The winning team came from Kittson county and consisted of Margaret Reese and Mable Bernstrom. Their average score was 99 7/8 per cent. Marshall county and Red Lake county tied for second place.

In the Essay contest, Nellie Lively of Crookston won the sweepstakes. The winners for the eighth grade contestants were Nellie Lively, Crookston; first; George Cordis, Crookston, second; and Lester Rowland, Thief River Falls, third. The subject of the Essay Contest this year was, "The Winter Shows as a Factor in Promoting Diversified Farming in the Red River Valley."

In the high school corn and potato judging contest, Detroit was first, Fisher second, Fosston third. Roy Bryngelson, Detroit, won high honors; Ernest Bissner, Fisher, second; and Knute Knutson, Fisher, third. In the farmers' club judging contest, the Happy Corner Farmers' Club, of Kittson county, and the Warrenton Club of Marshall county, tied for first place. Each one will be permitted to keep the cup for six months. Second place was won by the McCrea Club of Marshall county, and third place by the Fairfax-Andover Club of Polk county. Hugo Anderson of the McCrea club was the best judge in the contest, with Ragnar Johnson of the Happy Corner Club, second; and Ernest McCarthy, Warrenton Club, third.

In the high school livestock judging contest, Warren won first and Fisher second. Arthur Weigert, of Warren, won high honors; C. E. Edward, Warren, second; and Theo. Knutson, Fisher, third. In the Northwest School Stock Judging contest, the juniors won first, freshmen second and seniors third. Walter Burk, senior, was the highest scoring individual; Elmer Miller, freshman, second, and Elmer Anderson, Clearbrook, third.

The low score by the seniors was due to an oversight by one of the contestants in failing to hand in reasons in one class. If this had been done, that class would have ranked higher.

The Awards

In the Boys and Girls' Club department, Charles Eissner, Fisher, won the sweepstakes in corn, and Olof Olson, of Trail, the reserve sweepstakes. The individual winners in Early Potatoes were Roy Nehring, Hallock,

Morris Cory, Lancaster; and Walter Beck, Lancaster. In late potatoes, the winners were Dale Smith, Park Rapids; Doyle Smith, Park Rapids, and Alex Brustad, Fosston. Yellow dent corn prizes went to Olaf Olson, Trail; Dora Steen, Lancaster; Palmer Johnson, Erskine. The winners in Northwestern Dent were Oscar Hoiseth, Crookston; Oscar Nordine, Lancaster, and Carl Berglin, Orleans. Sweepstakes in potatoes went to Roy Nehring, Hallock, and second, to Dale Smith, Park Rapids. Allen Gandrud, Detroit, a junior at the Northwest School, won grand champion prize for his Holstein heifer, with Monica Zurn, also of Becker county, second.

Winners in Crops Show.

A number of Northwest farmers were among the winners in the state show. Alex Wilke, of Noyes, won the championship on marquis wheat, Joe Mortenson, of Hazel, won second, and Orton Olson, Thief River Falls, third. William O. Williamson, of Kennedy, won second on durum wheat, L. A. Novak, Mahanomen, third, and Albert Kopecky, Angus, fourth. In winter wheat, Erick Anderson, Gonvick, won second place, and any other spring wheat William Tinn, of Argyle, won first; Mrs. L. Johnson & Son, Fergus Falls, second; James N. Sperry, Tabor, third, and Jacob Stennes, Hendrum, fourth. Alfalfa, Gust Tilberg, Fosston, second. Medium clover, Gust Tilberg, first, and Martin Saugen, New Folden, third. Timothy; Hjelle Bros., New Folden, third. Potatoes, O. J. Brustad, Fosston, first, and William Lantger, Bejou, second on Rural New Yorkers. Wallace Miller, Roseau, won first on Burbanks, second on Russet Burbanks, while Hjelle Bros., New Folden, were second on Burbanks. Early Ohios, T. R. Allen, Hallock, first; J. A. Ross, Hallock, second; and Henry Spangrud, Kennedy, third. L. A. Westphal, St. Hilaire, first on Triumph, while in the Cobbler class Henry Spangrud, first; Miner Helgeson, Crookston, second; Erick Fossell, Kennedy, third; T. R. Allen, Hallock, won the sweepstakes on potatoes, in addition to winning the potato trophy on Early Ohios. Arthur Norum, Hallock, won first in the professional class in oats and second in barley, and won the sweepstakes.

State prizes for Marquis wheat went to Alex Wilke, Noyes; Joe Martinson, Hazel, and Orton Olson, Thief River Falls. Durum Wheat—William O. Williamson, Kennedy, second, and L. A. Novak, Mahanomen, third. Winter Wheat—Erick Anderson, Gonvick, second; and any other spring wheat—Mrs. L. Johnson and Son, Fergus Falls, second, and James Sperry, Tabor, third; while Alex Wilke won the championship.

Northwest Winners in Northern Section

MILLET. Emil Wagner, Ada, first; Mrs. Mrs. R. J. Amberry, East Grand Forks, second.

CORN: Minn. No. 23—E. E. Burnham, Detroit; Eugene Johnson, Fertile; H. P. Matson, Detroit. N. W. Dent—C. S. Helge-

son, Crookston; R. H. Cory, Lancaster; R. A. Marshall, Argyle. Rustler White—L. A. Westphal, St. Hilaire; J. B. Luchau, Gary; Ralph Phillips, Detroit. Champion Dent Corn—E. E. Burnham, Detroit. Yellow or Red Flint—Daniel Johnson, East Grand Forks; Albert Kopecky, Angus; H. P. Melick, Strathcona. Any Other Flint—Harry Ophus, Erskine; J. H. Sargent, Crookston; Mrs. C. H. Moen, East Grand Forks. Champion Flint—Daniel Johnson, East Grand Forks, Sweepstakes; E. E. Burnham, Detroit. 50 Ears Dent—Marion Johnson, Felton; J. B. Luchau, Gary; H. P. Matson, Detroit. 50 Ears Flint—Harry Ophus, Erskine; Albert Kopecky, Angus. Minn. No. 13—Earl Naugel, Ada; Marion Johnson, Felton; L. A. Westphal, St. Hilaire. Any Other Dent—N. O. Hadum, Warren; Lars O. Ness, Ada; C. S. Helgeson, Crookston. Sweepstakes Professional—C. C. Williams, Detroit. Barley, 6-Row—John K. Stordahl, Hendrum. Barley, 2-Row—H. P. Matson, Detroit; L. A. Novak, Mahanomen; Mrs. C. H. Moen, East Grand Forks. Champion—H. P. Matson, Detroit. Early Oats—Mrs. Louis Johnson and Sons, Fergus Falls; F. T. Smisek, Fertile; T. A. Glonaski, Chisholm. Late Oats—John K. Stordahl, Hendrum; G. Gilbertson, Ada. Professional classes—All Dents—C. C. Williams, Detroit; Miner Helgeson, Crookston, 50 Ears—C. C. Williams, Detroit; Miner Helgeson, Crookston.

Red River Valley Awards, Farm Crops

CORN. Minn. 13, 10 Ears—C. C. Williams, Detroit; Earl Naugel, Ada; Marion Johnson, Felton. Any Other Dent, 10 Ears—Lars O. Ness, Ada; N. P. Johnson, Crookston; John Humland, Ada. White Dent—(Except Minn. 23), 10 Ears—L. A. Westphal, St. Hilaire; J. B. Luchau, Gary; N. O. Stadium, Warren. Minn. No. 23, 10 Ears—E. E. Burnham, Detroit; Eugene Johnson, Fertile; H. P. Matson, Detroit. Northwestern Dent, 10 Ears—Miner Helgeson, Crookston; C. S. Helgeson, Crookston; R. H. Cory, Lancaster. Red or Yellow Dent, 10 Ears—Miner Helgeson, Crookston; Daniel Johnson, East Grand Forks; Albert Kopecky, Angus. White Flint, 10 Ears—C. C. Williams, Detroit; Harry Ophus, Erskine; J. H. Sargent, Crookston. 50 Ears Dent—C. C. Williams, Marion Johnson, J. B. Luchau, Gary. 50 Ears Flint—Miner Helgeson, Harry Ophus; Albert Kopecky. Grand Champion 10 Ears Dent—C. C. Williams. Grand Champion, 10 Ears Flint—Sweepstakes—C. C. Williams, Detroit, Minn. **WHEAT:** Marquis—Alex Wilke, Noyes; Joe Mortenson, Hazel; Orton Olson, Thief River Falls. Any Other Beardless—James M. Sherry, Tabor; A. A. Dragseth, Eldred. Any Bearded Wheat—Wm. Timm, Argyle; G. Gilbertson, Ada; Jacob S. Stennes, Hendrum. Durum—Wm. O. Williamson, Kennedy; L. A. Novak, Mahanomen; Albert Kopecky, Angus. Best Winter Wheat—Geo. H. Orr, Red Lake Falls. **Wheat Sweepstakes—**Alex Wilke, Noyes. **OATS:** Large White—Arthur Norum, Hallock; Jno. K. Stordahl, Hendrum; G. Gilbertson, Ada. Small Oats—F. T. Smisek, Fertile; Hugo Wallin, Crookston. **Oats Sweepstakes—**Arthur Norum, Hallock. **BARLEY:** Two Row—H. P. Matson, Detroit; L. A. Novak, Mahanomen; Mrs. C. H. Moen, East Grand Forks. Six Row—Arthur Norum, Hallock; John K. Stordahl, Hendrum; H. P. Matson, Detroit. **Barley Sweepstakes—**H. P. Matson, Detroit. **RYE—**Gust Tilberg, Fosston; Victor Medchill, Plummer; Andrew A. Olson, East Grand Forks. **FLAX—**H. P. Matson, G. Gilbertson, Gust Tilberg. **ALFALFA—**Gust Tilberg, L. A. Novak, Henry Larson. **CLOVER:** Sweet Clover—Carl L. Hocke, Kennedy; Emil Wagner, Ada; J. C. Quiner, Lancaster. Red Clover, Medium or Mammoth Gust Tilberg, Martin Saugen, Emil Wagner, Ada. **POTATOES.** Early Ohios—T. R. Allen, Hallock; J. A. Rose, Hallock; Henry Spangrud, Kennedy. Irish Cobler—Henry Spangrud, Miner Helgeson, Erick Fossell; Triumph—L. A. Westphal, St. Hilaire; W. V. Longley, Hallock; Henry Spangrud, Kennedy. Green Mountains—Doyle Smith, Park Rapids; Dale Smith, Park Rapids; Nils Sylvester, Crookston. Rural New Yorkers—O. J. Brustad, Fosston; Wm. Santzer, Bejou; Martin Narum, Fosston. Burbanks—Wallace Miller, Roseau, Hjelle Bros., New Folden. Burbank Russets—Wallace Miller, Roseau; Fred Westphal; C. H. Eissner, Fisher. Sweepstakes, Potatoes—T. R. Allen, Hallock. Bushel Certified Early Ohios—T. R. Allen, Hallock; Cup by Clay County—Single Early Ohios—T. R. Allen, Hallock.

(Continued on Page 6)

RED RIVER VALLEY WINTER SHOW AWARDS

Shorthorns

Bull, 3 years or over—El Tovar Stock Farm, Twin Valley; Carlson Bros., Erskine; Northwest School of Agriculture, Crookston. Bull, Senior Yearling—Ely Aylor Shorthorn Company, Mayville, N. Dak.; El Tovar Stock Farm, Twin Valley; W. C. Monroe, Warren. Bull, Junior Yearling—El Tovar Stock Farm, Twin Valley. Bull, Senior Calf—E. D. Grant, Glyndon; Carlson Bros., Erskine; Carlson Bros., Erskine. Bull Junior Calf—Carlson Bros., Erskine; N. W. School of Agriculture, Crookston. Cow—3 years or over—N. W. S. A., Crookston; El Tovar Stock Farm, Twin Valley; N. W. S. A., Crookston. Cow, 2 years, under 3—N. W. S. A., Crookston; El Tovar Stock Farm, Twin Valley; Ed. Rosendahl, Warren. Heifer, Senior Yearling—N. W. S. A., Crookston; N. W. S. A., Crookston; El Tovar Stock Farm, Twin Valley; Heifer, Junior Yearling—N. W. S. A., Crookston; Heifer, Senior Calf—N. W. S. A., Crookston; El Tovar Stock Farm, Twin Valley; Heifer Junior Calf—N. W. S. A., Crookston; Carlson Bros., Erskine. Senior and Grand Champion Bull—El Tovar Stock Farm, Twin Valley. Junior Champion Bull—Ely Aylor Shorthorn Co., Mayville, N. Dak. Senior and Grand Champion Cow—N. W. S. A., Crookston. Junior Champion Heifer—N. W. S. A., Graded Herd—El Tovar Stock Farm, Twin Valley; N. W. S. A., Crookston. Calf Herd—El Tovar Stock Farm; N. W. S. A.; Carlson Bros. Produce of Cow—N. W. S. A.; Carlson Bros. Best Female, Any Age—El Tovar Stock Farm; El Tovar Stock Farm.

Guernseys

Bull Senior Calf—H. Woolson, T. R. Falls; F. A. Uggren, McIntosh. Cow, 3 Years or over—H. C. Woolson, T. R. Falls. Heifer, 2 years, under 3—H. C. Woolson, T. R. Falls. Heifer Junior Yearling—H. C. Woolson. Heifer Senior Calf—F. A. Uggren, McIntosh. Heifer Junior Calf—H. C. Woolson, T. R. Falls. Best Female any age, Novice or Amateur—F. A. Uggren. Grand Champion Bull Senior Calf—H. Woolson. Senior and Grand Champion Cow, 3 years or over—H. C. Woolson. Grand Champion Heifer Calf—H. C. Woolson. Calf Herd—H. C. Woolson. Get of Sire—H. C. Woolson. Produce of Cow—H. C. Woolson; Best Bull, any age, novice or amateur—F. A. Uggren.

Milking Shorthorns—Class B

Bull, 2 years and under 3—Carlson Bros., Erskine; Carlson Bros., Erskine. Cow, 3 yrs. or over—Carlson Bros., Erskine; Jens Letness, Thief River Falls. Heifer, 2 years and under 3—M. E. Dahl, Twin Valley. Heifer, Senior Yearling—M. E. Dahl, Twin Valley.

Aberdeen Angus

Bull, 3 years or over—Albert Paradis, Brooks. Bull, Senior Calf—Albert Paradis. Bull, Junior Calf—Albert Paradis. Cow, 3 years or over—Albert Paradis. Heifer, 2 years and under 3—Albert Paradis. Heifer, Senior Yearling—Albert Paradis. Heifer, Junior Yearling—Albert Paradis. Heifer Senior Calf—Albert Paradis. Heifer Junior Calf—Albert Paradis.

Holsteins

Bull, 3 years or over—R. A. Sundberg, Hallock; M. L. Enright, East Grand Forks. Bull 2 years and under 3—C. L. McNelly, McIntosh; R. A. Sundberg, Hallock. Bull, Junior Yearling—C. L. Spaulding, Warren; C. L. McNelly, McIntosh; Michael Enright, Jr., E. G. Forks. Bull Senior Calf—C. L. Spaulding, Warren; C. L. Spaulding, Dollar Farm, Mentor. Bull Junior Calf—C. L. Spaulding; John B. Irwin, Minneapolis; C. L. Spaulding. Cow, 3 years or over—C. L. Spaulding, Warren; M. L. Enright, East Grand Forks; C. L. McNelly, McIntosh. Heifer Senior Yearling—M. L. Enright, East Grand Forks; C. L. Spaulding, Warren; R. A. Sundberg, Hallock. Heifer Junior Yearling—M. L. Enright, East Grand Forks; C. L. Spaulding, Warren; C. L. Spaulding. Heifer Senior Calf—C. L. McNelly, McIntosh; C. L. Spaulding, Warren; C. L. McNelly, McIntosh. Heifer Junior Calf—John B. Irwin, Minneapolis; C. L. Spaulding, Warren; C. L. McNelly, McIntosh. Senior Champion Bull 3 years or over—R. A. Sundberg, Hallock. Senior Champion Bull Calf—C. L. Spaulding, Warren. Senior and Grand Champion Cow—C. L. Spaulding, Warren. Junior Champion Heifer Yearling—M. L. Enright, East Grand Forks. Graded Herd—M. L. Enright, C. L. McNelly; Roy A. Sundberg. Young

Herd—C. L. Spaulding; C. L. McNelly. Calf Herd—C. L. Spaulding, Warren; C. L. McNelly, McIntosh. Get of Sire—C. L. Spaulding; M. L. Enright; C. L. McNelly. Produce of Cow—C. L. McNelly; C. L. Spaulding; M. L. Enright.

Sheep—Shropshire

Ram, 2 years or over—N. W. S. A.; A. E. F. Sheep Co., Humboldt; N. W. S. A. Ram, 1 year or under 2—A. E. F. Sheep Co.; A. Marsden and Son, Hendrum; Thomas L. Todd, Hendrum; Ram Lamb—N. W. S. A.; A. Marsden and Son; N. W. S. A. Ewe 2 years or over—A. Marsden and Son; N. W. S. A.; N. W. S. A. Ewe 1 year old and under 2—A. Marsden and Son, T. L. Todd; N. W. S. A. Ewe Lamb—N. W. S. A.; N. W. S. A.; T. L. Todd; Senior and Grand Champion Ram, 2 years or over—N. W. S. A. Junior Champion Ram Lamb—N. W. S. A. Senior and Grand Champion Ewe 2 years or over—A. Marsden and Son. Junior Champion Ewe Lamb—N. W. S. A. Flock—1 ram, 3 ewes, any age—N. W. S. A.; A. Marsden and Son; A. E. F. Sheep Co. Get of Sire—2 or more animals, either sex—N. W. S. A.; A. Marsden and Son. Pen of Lambs, 5 lambs (ewes) dropped during spring of 1921—N. W. S. A. Young Flock, bred by exhibitor) 1 ram, 3 ewes, dropped during spring 1921—N. W. S. A. Produce of Dam: dam and 2 or more animals, either sex, and different ages—T. L. Todd; N. W. S. A. Best Ram, any age (amateur)—A. E. F. Sheep Co. Best Ewe, any age—A. E. F. Sheep Co. Flock: Ram 1 yr. old or over, 3 ewes, any age—A. E. F. Sheep Co.

Swine—Chester Whites

Boar, 2 years old or over—Ray E. Moorhead, Crookston; P. M. Finkenbinder, Crookston. Boar Junior Yearling—Ray E. Moorhead. Boar, Senior Pig—Ray E. Moorhead; P. M. Finkenbinder. Boar, Junior Pig—P. M. Finkenbinder. Sow, 2 yrs. or over—Ray E. Moorhead; Desrosier & Robillard; P. M. Finkenbinder. Sow, Senior Yearling Special—Ray E. Moorhead; Desrosier and Robillard, P. M. Finkenbinder. Sow Senior Pig—P. M. Finkenbinder; R. E. Moorhead; R. E. Moorhead. Sow Junior Pig—R. E. Moorhead; P. M. Finkenbinder. Senior and Grand Champion Boar—R. E. Moorhead. Junior Champion Boar Senior Pig—R. E. Moorhead. Senior and Grand Champion Sow, 2 years or over, Special—R. E. Moorhead. Junior Champion Sow Senior Pig—P. M. Finkenbinder. Aged Herd—R. E. Moorhead; P. M. Finkenbinder. Young Herd—P. M. Finkenbinder; R. E. Moorhead. Breeders Young Herd—R. E. Moorhead; P. M. Finkenbinder. Breeders Aged Herd—P. M. Finkenbinder; R. E. Moorhead. Get of Boar—P. M. Finkenbinder; R. E. Moorhead. Produce of Sow—R. E. Moorhead, P. M. Finkenbinder.

Swine—Duroc Jersey

Boar 2 years old or over—A. Marsden & Son, Hendrum; E. A. Green, Stephen; J. W. Campion, Angus. Boar Senior Yearling—C. O. Quist, Crookston. Boar Senior Pig—E. A. Green; J. W. Campion; A. Marsden and Son. Boar Junior Pig—C. O. Quist. Sow, 2 years old or over—A. Marsden; E. A. Green; J. W. Campion. Sow Senior Yearling—A. Marsden; E. A. Green; C. O. Quist. Sow Junior Yearling—A. Marsden; J. W. Campion; A. Marsden. Sow Senior Pig—J. W. Campion; A. Marsden; E. A. Green. Sow Junior Pig—F. T. Smisek, Fertile; F. T. Smisek; C. O. Quist. Senior Grand Champion Boar—A. Marsden and Son. Junior Champion Boar Senior Pig—E. A. Green. Senior Grand Sow 2 years or over—A. Marsden. Junior Champion Sow Senior Pig—J. W. Campion. Aged Herd—Special—A. Marsden and Son, Hendrum; E. A. Green, Stephen; J. W. Campion, Angus. Breeders Aged Herd—E. A. Green; Clas. Franks. Young Herd Class—E. A. Green; A. Marsden and Son; J. W. Campion. Breeders Young Herd—A. Marsden and Son, Hendrum; J. W. Campion, Angus; C. O. Quist, Crookston. Get of Boar—A. Marsden and Son; E. A. Green. Produce of Sow—A. Marsden and Son; J. Thayer; J. W. Campion.

Poland China

Boar, Senior Yearling, 2 years or over—Miner A. Helgeson; J. H. Sargent; C. L. McNelly. Boar, Junior Yearling—Miner A. Helgeson. Boar, Senior Pig—J. H. Sargent; R. A. Marshall, M. T. Helgeson. Boar, Senior Pig—J. H. Sargent, R. A. Marshall, M. T. Helgeson. Boar, Senior Pig—J. H. Sargent, R. A. Marshall, M. T. Helgeson. Sow, 2 years or over—Charles Widner, M. T. Helgeson; R. A. Marshall. Sow, Senior Yearling—Charles Widner; R. A. Marshall; R. A. Marshall Sow, Senior Pig—R. A. Marshall; Miner A. Helgeson; M. T. Helgeson, Sow,

Junior Pig—Charles Widner; Miner A. Helgeson, Miner A. Helgeson. Senior and Grand Champion Boar—Miner A. Helgeson. Junior Champion Boar—J. H. Sargent. Senior Champion Boar—Charles Widner. Junior Champion Sow—R. A. Marshall. Get of Boar—Miner A. Helgeson; Charles Widner; J. H. Sargent. Produce of Sow—Miner A. Helgeson, Charles Widner; J. H. Sargent. Bred Spring Gilts (P. C. Special)—Charles Widner; Miner A. Helgeson; J. H. Sargent. Bred Spring Gilts (P. C. Special)—Charles Widner 1 and 2; M. T. Helgeson. Aged Herd—Miner A. Helgeson, Charles Widner; J. H. Sargent. Young Herd—J. H. Sargent; R. A. Marshall; M. T. Helgeson. Breeders Young Herd—J. H. Sargent; R. A. Marshall; M. T. Helgeson. Breeders Aged Herd—Miner A. Helgeson.

Swine—Yorkshire

All championships won by W. D. Clow, St. Vincent.

Fat Hogs

Farrow after March 1, 1921—Chas. Franks; R. E. Moorhead. Farrow before March 1, 1921—P. M. Finkenbinder; R. A. Marshall.

Poultry

The poultry show was one of the best ever held and over 400 birds were exhibited. The Single Comb White Leghorns were the largest class and the Barred Rocks second. Alfred Malmberg won the grand prizes for the largest and best poultry display of Leghorns, while Lawrence Kirschl, Crookston, special prize for best display of Rocks. Mrs. A. F. Johanneson, Beltrami, best display of Wyandottes; Olof Nessel, Thief River Falls, for Rhode Island Reds. He also won the silver cup for the highest scoring cockerel.

(Continued from Page 4.)

"THINGS TO THINK ABOUT"

sociation handled 15,571 cars of livestock. On January 1st they had available for refund to the member associations, \$78,322.

Mr. George W. Hagberg of the Minnesota Cooperative Creameries Association: By turning out a product such as the best creameries of Minnesota are now doing, it goes into a class by itself, for which there is little competition and which commands a good price.

Miss M. Beatrice Johnstone: The greatness of American schools lies in the fact that they are non-partisan, non-sectarian, and non-exclusive.

Dr. Preston J. Bradley: There will be another war within the next ten years. The present leadership of the world is bankrupt. The hope of the future lies in the present American youth and in the schools for the training of tomorrow.

Prof. R. F. Crim, extension agronomist: Alfalfa has stood the test and continues to increase on account of its superior value as a forage crop for all classes of livestock in Minnesota.

Prof. W. H. Peters: I have a lot of faith in our meat producing animals and their ability when rightly handled to increase the income of the Red River Valley farmers.

C. P. Bull: The value of all seeds imported into the U. S. in 1920 was over \$102,000,000. Flax, a crop that is a dead sure profit for any careful Minnesota farmer, was the largest item on the list. Clover seed is imported and bought by Minnesota farmers at the same time we can grow as good clover seed as can be produced any where in the world.

FOURTH INSTALLMENT

Brief Stories of Red River Valley Herds

Guernseys have a Prominent Place



PENNINGTON COUNTY GUERNSEY HERD EXHIBITED AT STATE FAIRS

The Northwest Monthly introduces Guernseys this month that have won fame far and wide for the Red River Valley. Pennington county has a group of breeders that have placed that county in a class by itself in the state as the home of the highest quality Guernseys. L. Jensen and his son, Earl, of Clearbrook, too, are Guernsey breeders who have made an enviable record and who will go far forward in the years to come.

Pennington County Guernseys

The pure bred Guernseys of Pennington county are owned by F. B. Conklin, Albert Johnson, Peter Engelstad, William Bell, Stuart McLeod, Osmund Urdahl and W. H. Wilde. These Guernsey breeders all have very high class pure bred, as well as number one grades.

A carload of these prize winning animals was sent on a show circuit in 1920 and 1921, winning high honors at the North Dakota and Minnesota State Fairs, the National Dairy Congress at Waterloo, Iowa, as well as the National Dairy Show in Chicago. They were also exhibited at all the county fairs in Northwestern Minnesota, taking first at those places.

The aged cow, Cif, owned by F. B. Conklin of Thief River Falls, won third at the National Dairy Congress in Waterloo. Mr. Conklin now has the state champion three-year-old, Lady Bruce of Clovercrest, which just

finished a year's test of 712 pounds of butter fat. This record was made under ordinary farm conditions and it is believed if this animal is run again her record will equal that of the national champion.

Mr. Conklin has had several attractive offers, but plans on placing another record on her next year.

Mr. Harry Woolson and Albert Johnson, of Thief River Falls, both have several animals in the A. R. class and have some under test each year under state supervision for butter fat production.

These people plan next year on having a fine county herd to exhibit and with the state champion in the lineup many honors should be won for Pennington county.

JENSEN'S HERD RANKS HIGH

In nearly every community, you will find some one that stands out conspicuously, some one whose name is linked with the doing of great things that stand for community improvements, someone that is always trying to do his mite toward making this world a better place wherein to live.

To anyone at all familiar with the livestock industry in northwestern Minnesota, if mention is made of Clearwater county, the name of L. Jensen, of Clearbrook, and his high producing herd of Guernsey cattle, will at once come to mind.

From the time when diversified farming and dairying first started in Northwestern Minnesota, Mr. Jensen has been a student of dairy cattle breeding and an enthusiast for the use of purebred sires only. His work as a breeder at Clover Crest Farm, has attracted the attention of the breeders and dairymen of the state, and for the last three years Mr. Jensen has served as president of the Minnesota Dairymen's association.

The Guernsey herd at Clover-crest Farm is, while not a large herd, a profitable one, and composed of not only fine animals, but high producers as well.

The present herd was founded fifteen years ago by the purchase of a pure-bred sire, and the first pure-bred female was bought three years later and is still in the herd. Only high quality sires have been used, among which may be mentioned May Rose Searchlight 33074, a son of Starlight's Contrast, with a butterfat record of 811 pounds. Six of the daughters of this sire are now in the herd and one of these daughters, Azalia's May Rose

83369, during the month of January of this year, produced 77.48 pounds of fat under official test by the University of Minnesota.

Another sire which was used in the herd for some years, and proved to be a wonderful sire of high producers, is Craigamoor Bruce 83109. Several of his daughters are now on test and making splendid records. One of his daughters, sold by Mr. Jensen while she was still a yearling, to F. B. Conklin, of Thief River Falls, has just completed her official yearly record of 712 pounds of fat to her credit thus making her one of the highest producers of the breed for her age.

The sire, which today heads Clover-Crest herd, is Cherub's Ring Leader 69200, one of the finest specimens of the breed, and a National Dairy Show prize winner.

At the dairy cattle congress held at Waterloo, Iowa, in 1921, he won first as senior calf and took the same honors at the National Dairy Show, St. Paul.

Mr. Jensen is justly proud of this splendid sire, and well satisfied with the appearance of his offspring, of which there are several in the herd.

The Guernsey herd at Clover-Crest Farm is being kept under good farm conditions no different from what a herd may be kept at any well appointed northern Minnesota farm. The health of the stock is being well guarded and regular annual tests are made for tuberculosis. There has never been a case of contagious abortion in the herd, nor a reactor to the tuberculin test.

There is a good silo on the farm and an abundance of home-grown feeds are produced.

For a number of years every milk-

ing has been regularly weighed and during the past year several cows have been on official test under the supervision of the University of Minnesota and are making very good records of production.

Mr. Jensen believes in the Guernsey cow. He feels that she fits in well with the diversified farming in northern Minnesota. He has done a lot for the Guernsey cow and he says that the Guernsey cow has done a lot for him, but Mr. Jensen is not contented to rest on his laurels. His aim is to get every cow in his herd into the advanced registry to produce still heavier milkers of standard type. In this he is ably seconded by his youngest son, Earl, a graduate of the Northwest School of Agriculture, and second to none, as a Guernsey enthusiast. With such a combination, with a general recognition throughout the northwest that we need more and better dairy cows, we predict that Clover-Crest farm and its beautiful Guernseys will be heard from even stronger in the future.

CLAY COUNTY SHORTHORN HERD MAKING FINE RECORD

Another breeder of prominence in the Red River Valley is Mr. E. D. Grant, whose farm is south of Glyn-don, in Clay county. He is a Short-horn enthusiast.

He has contributed a very interesting story of how he began in the livestock business. This story forms a part of the series of articles regarding Red River Valley livestock herds and breeders that is being featured in the Northwest Monthly.

When Mr. Grant was nineteen years of age he had a job as traveling sales-

man for an eastern manufacturing company which handled farm machinery. He saw a good deal of the country during his journeys. He made several trips through the Red River Valley, and was greatly impressed on account of the fertility of the soil. Just about that time he thought he would like to become a farmer. This was at the time when Henry Schroeder, of Sabin, began to grow potatoes for the southern market. When Mr. Grant was twenty-one he resigned his position, rented a small farm in Clay county, bought three horses and started to farm.

Then followed a series of years during which the times were very hard, about like they are now. In 1894 he grew enough potatoes for seed for the following year. In 1895 he planted 20 acres. When fall came potatoes were so cheap that he could not sell them at any price. Every winter he was obliged to go to the lumber woods with his horses to earn a little ready cash. He followed this practice for nine winters.

During all this time, Mr. Grant never lost faith in the country and bought all the land he could buy, and kept on increasing his potato acreage until it was up to 320 acres yearly. He began to grow red clover about twenty years ago to plow under for fertilizer. Being a lover of all kinds of live stock he decided that a good herd of cattle and hogs could be handled profitably and still have as much grain and potatoes to sell as before.

His experience as a Shorthorn breeder began in 1914, when he purchased a registered Shorthorn bull, three registered heifers and a carload of grade Shorthorn heifers. During the next few years he put up two silos and has since put up a third one.

He followed the practice of gradually replacing his grade cattle with pure bred stock and recommends this policy for all beginners.

Another recommendation by Mr. Grant is never to use any but a pure bred sire and then get a better and a few pure bred cows or heifers as circumstances will allow.

Mr. Grant's present herd of registered Shorthorns includes eighty, with such families represented as Stellas, Butterflies, Lavenders, Alexandrians, Duchess Violets, besides several other famous Scotch lines. His herd is headed by Transcript, a Duchess bred bull. This is one of the best bulls in the Northwest.

Mr. Grant has never sold a pure bred cow or heifer and does not plan to do so until he has his farm stocked with as many good ones as are needed to use up the roughage and keep up the soil fertility.

Mr. Grant, as stated before, is an enthusiast with reference to Shorthorns. He states that they are all good and some of them better. In his opinion, based on his experience, they do not require as close attention as the dairy breeds and still they will respond to all the care given them.

He also adds a word, that in improving the common scrub cattle by using a registered sire, the Shorthorn will

accomplish the improvement as rapidly as any other breed.

As Mr. Grant has recently completed a fine new barn, it is worth the trip for any one to visit his farmstead.

CALEB DORR BEQUEST TO INCLUDE NORTHWEST SCHOOL

Superintendent C. G. Selvig has been advised that the Board of Regents have approved the plan whereby annual scholarships will be provided for students of the Northwest School of Agriculture from the Caleb Dorr bequest to the University of Minnesota. Loan funds available for the use of students of this school will also be provided for use out of this bequest.

On commencement Day, March 29, seven scholarships in the amount of \$50.00 each will be awarded, as follows:

1. To the student who is most diligent in his efforts to accomplish his work and who shows the greatest progress during the year.
2. To the student in the senior class who is most diligent in his efforts to accomplish his work and who shows the greatest progress during the year.
3. To the student in the junior class who is most diligent in his efforts to accomplish his work, and who shows the greatest progress during the year.
4. To the student in the freshman class who is most diligent in his efforts to accomplish his work and who shows the greatest progress during the year.
5. To the student in the senior class who makes the greatest progress in public speaking and debating.
6. To the student in the junior class who makes the greatest progress in public speaking and debating.
7. To the student in the freshman class who makes the greatest progress in public speaking and debating.

It is expected that this plan will be followed for the next school year also. These scholarships will prove to be an incentive to students in connection with their school work. The faculty and the students of the Northwest School are very grateful to the University for this action in providing that the Northwest School may share in this fund annually.

ANNUAL SEED LIST ISSUED

The Red River Valley Crops and Soils Association has issued its annual seed list for 1923. This list gives the names of Red River Valley growers who have different varieties of seeds for sale. A copy of this list may be secured by writing to the secretary, R. S. Dunham, Northwest Experiment Station, Crookston, Minnesota.

The following is a list of the varieties and the approximate amounts of each that are being offered for sale by the members of this Association: Marquis wheat, 5,000 bushels; Min-dum, 4,000 bu.; Prelude, 200.; Ruby, 300 bu.; Minnesota No. 281 oats, 3,000 bu.; Victory, 260 bu.; Swedish Hvitling, 1,100 bu.; Lincoln, 400 bu.; Min-ota, 50 bu.; English Newmarket, 200 bu.; Minnesota No. 184 barley, 2,000 bu.; Oderbrucker, 500 bu.; Grimm Al-falfa, 200 bu.; sweet clover, 700 bu.;

red clover, 25 bu.; Minnesota No. 25 flax, 700 bu.; timothy, 100 bu., and speltz, 200 bu.

The list also includes growers of flint and dent corns adapted for this section of the state.

SPECIAL BULLETINS

Bulletins dealing with special topics have recently been issued by the Northwest Experiment Station. This list includes bulletins on the sow thistle problem, sugar beets, winter wheat in the Red River Valley, and one on growing alfalfa, sweet clover, and soy beans in the Red River Valley.

A mimeographed bulletin on corn growing is also available at this writing.

These bulletins, with the exception of the one dealing with alfalfa and sweet clover, are distinct from the material included in the 1922 Northwest Station Report. All of these bulletins and the Station Report are furnished free upon application.

BESS BURKE HARTOG.

Bess Burke Hartog is the name of the cow that brought the highest price at the recent Red River Valley Holstein sale held on February 8, in connection with the Red River Valley Winter Shows. She was bred on the "Dollar Farm" at Mentor, Minnesota, owned by W. W. Hall and his son-in-law, F. E. Talbot, and managed by Roy Phipps, who have been associated for the last nine years in breeding Holstein cattle.

The dam of Bess Burke Hartog is Quidee Idaline Hartog 2nd and her sire, Edenvale Sir Catrina Pietertje, a son of the 41st. He is the only son of Sir Pietertje Ormsby Mercedes and Spring Brooke Bess Burke. As a calf Bess Burke Hartog weighed 118 pounds. Her weight was 400 pounds at three years of age.

Starting in April, 1914, they bought on credit through the assistance of C. L. Conger, McIntosh, their banker friend, a foundation of three pure-bred heifers, bred by I. N. Ferstler, Northfield, and a pure bred sire from the Lilac Hedge Farm, Grand Forks, for the sum of \$1125.00.

Starting in with a run-down farm that wouldn't raise hay and grain enough to feed the foundation stock, they have rotated and fertilized till now the farm furnishes alfalfa, silage and grain for a herd of thirty-five pure bred Holsteins. Government inspectors have tested the herd and have pronounced it to be the cleanest herd in the Northwest.

The herd is headed by Edenvale Sir Catrina Pietertje, a son of the 41st, and Sir Ormsby Pietertje Alban, two outstanding sires of the Ormsby blood.

Consistent work by the manager, Mr. Phipps, has developed some noteworthy animals, among them being the junior champion bull at the 1920 Crookston Show and Sale; the senior champion bull at the 1922 Northern Minnesota Show, Bemidji, and senior three year old cow, Bess Burke Hartog, a typical daughter of the 41st, which topped the sale at the recent sale held at Crookston.