

# THE NORTHWEST MONTHLY



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CROOKSTON, MINNESOTA, JANUARY, 1928.

NO. 2

## Annual Report NORTHWEST EXPERIMENT STATION NOW READY FOR DISTRIBUTION

The annual report of the Northwest Experiment Station for the year 1927 has just been issued and is now ready for general distribution. This report covers specific investigations in agronomy, horticulture, animal husbandry, and poultry. As the research activities of this station are confined to local problems, this report will be of special value to the farmers of Northwestern Minnesota.

### Many Visit Station

During the months of June and July a total of 4101 people visited the Station to secure information regarding specific farm problems. These visitations included 25 farm or community clubs, 4 boys' and girls' club groups, a special train from Cavalier County, North Dakota, and special days. Such special events as the Annual Livestock Feeders' Day, and Crops and Soils Day were unusually well attended.

All visiting groups were placed in charge of members of the Station staff, who accompanied them on a trip of inspection through the gardens, fields, and poultry and livestock departments. This direct contact between investigators and actual producers is of mutual benefit, in that specific problems are brought to the attention of the research workers, while the specially conducted tours enable the producers to acquaint themselves with the various projects and to discuss the results secured to date.

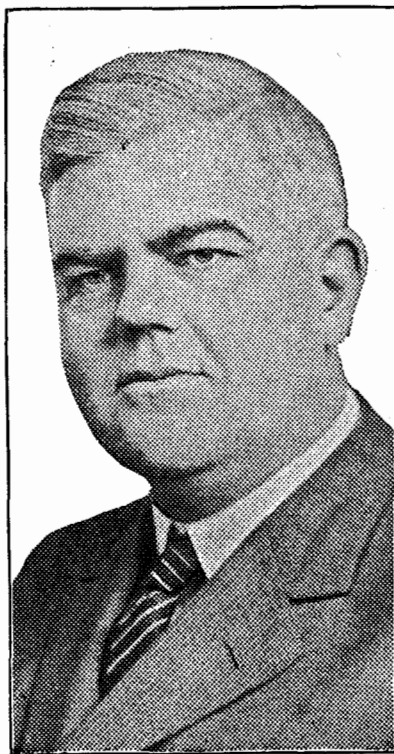
### Publications

Two series of publications were issued during the year: (1) The Crookston series of bulletins, reports and circulars; and (2) the Northwest Monthly. The former included the Report of the Northwest Experiment Station for 1926, the annual Bulletin of the Northwest School of Agriculture, the Farmers' Week program, the Second Annual Women's Camp program, a circular on Market Poultry by A. M. Pilkey, and a circular on The Northwest Poultry House, by A. M. Pilkey and A. M. Foker. The Northwest Monthly serves as a means of disseminating information and news regarding the Northwest School and Experiment Station.

### Pure Seed Work

Pure seed grain was distributed

from the station farm to 249 cooperators, who received a total of 3587 bushels. Ceres wheat, a new cross of Marquist x Kota, developed by the North Dakota station, was distributed for the first time. Forty-nine cooperators received 239 bushels in all. A total of 304 bushels of a new stock of Mindum (durum) wheat, from seed hand-picked in 1925 to remove barley



GOV. THEODORE CHRISTIANSON  
Will deliver an address Thursday evening,  
February 9

and bread wheat, was furnished to 49 growers. Velvet barley to the amount of 780 bushels was furnished to 77 growers, located in every section of Minnesota and in several adjoining states. Crookston strain Northwestern Dent corn was again in great demand. Thirty cooperators obtained 49

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### HOME PROJECT AWARDS

The silver trophy for achievement in home project work for girls was awarded to Alma Krogstad, Fertile, who completed six projects during the past summer. Elida Erickson, Clearbrook, winner of the trophy in 1926, received honorable mention for her excellent work in the cooking and sewing project. In addition to these awards, achievement ribbons were awarded to Anna Osmundson, East Grand Forks, for the best project in foods, and to Ethel Harris, Crookston, for best sewing project.

Highest honors in boys' project work were won by Lawrence Elton, Hawley, who completed both the dairy management and pork production projects. August Thorkelson, Gatzke, received honorable mention for his work in commercial production of onions. Achievement ribbons were awarded as follows: Lauritz Mikkelsen, Hawley, dairy management; Henning Erickson, Twin Valley, pork production; Carl Hogenson, Winger, farm crops; and Lawrence Osmundson, Thief River Falls, agricultural engineering.

Awards were based upon home work as judged by the supervisor, on the records and story submitted, and on the exhibit at the home project show which was held at the Northwest School. Winners were announced at the annual get-together dinner at the school dining hall on December 21.

This was considered one of the most successful seasons in summer project work in the history of the school, with fifty girls and sixty boys completing the work. Miss Retta Bede supervised the home economics work and E. R. Clark and D. H. La-Voi organized and visited the boys' projects.

### SENIORS WIN SONG CONTEST

The seniors won the Selvig Silver Trophy in the tenth annual interclass song contest, which was held December 19. The fourth year students were second, the Juniors third and the Freshmen fourth. The contest was one of the best since the idea was inaugurated in 1918. Three songs were sung by each class under a student director. The directors were Chester Torgerson, Fergus Falls, for the seniors; Loren Parkin, Euclid, advanced; Lowell Ryden, Hallock, Juniors, and Lambert Erickson, Goodridge, freshmen. The judges were Mrs. O. E. Locken, Miss Myrtle Hovland and O. W. Peterson, of Crookston.

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Issued Monthly by  
THE UNIVERSITY OF MINNESOTA  
NORTHWEST SCHOOL OF  
AGRICULTURE  
A. A. DOWELL, Superintendent

OFFICE  
Northwest Experiment Station,  
Crookston, Minnesota.

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

**STUDENTS MAKE GOOD RECORDS**

That good serious work was accomplished during the first term is indicated by the number of students who met the high requirements and succeeded in being placed on the honor roll for the term. Those who achieved this distinction were:

**Freshmen:** Ellen Anderson, Stephen; Alice Berg, Erskine; Vernon Bryngelson, Callaway; Clarence Carlson, Stephen; Harold Carroll, Dugdale; Johanna Caudle, Crookston; Anna Erickson, Wannaska; Alice Erickson, Pencer; Lambert Erickson, Goodridge; Erwin Gilbertson, Pelican Rapids; Esther Hanson, Hawley; Halbert Johnson, Underwood; Emma Krogstad, Fertile; Daniel Letnes, Crookston; Isabelle Letnes, Crookston; Clifford Lindquist, Wylie; Leo Maatala, Oklee; Kristian Stokke, Crookston; Arthur and Melvin Sundrud, Fosston; Lester Tangjerd, Bagley; Selma Waldal, Plummer; Marvin Wardner, Fisher; Arthur Widseth, Gonvick.

**Juniors:** Hilma Ahlm, Argyle; Orville Anderson, Hallock; Evelyn Bain, Baudette; Harold Cordes, Hennings; Henning Erickson, Twin Valley; Estelle Filipi, Angus; Rudy Gordon, Badger; Jetle Gullekson, Beltrami; Florence Hanson, Mentor; Mervin Hough, Bagley; Harvey Johnson, Rollag; Olga Johnson, Plummer; William Lohn, Winger; Lauritz Mikkelsen, Hawley; Oscar Norbom, Clearbrook; Martin Odland, Wadena; Arthur Peterson, East Grand Forks; Raymond Schlauderaff, Detroit Lakes; Lloyd Weaver, Williams.

**Seniors:** George Berggren, Greenbush; Carrie Buck, Crookston; Laura Buck, Crookston; Theodore Carlson, Hallock; Ruth Hamre, Gary; Ethel Harris, Crookston; George Roisum, Bagley; Harriet Skjerva, Hawley; Adelle Strom, Gary; August Thorkelson, Gatzke; Chester Torgerson, Fergus Falls.

**Advanced:** Rolf Anderson, Fisher; Lillian Bakken, Erskine; Viola Burinrud, Thief River Falls; Hannah Degerness, Gary; Melvin Hole, Dalton; Glenn KenKnight, Clearbrook; Randolph Ostlie, Montevideo; Gertrude Schaack, Plummer; Glenn Smith, Bluffton; Lawrence Spears, Shooks; Olaf Stenborg, Clearbrook; Carl Widseth, Gonvick.

**N. W. STATION REPORT**

(Continued from Page 1)

bushels. Other varieties furnished

were Gopher oats, Chippewa flax, Minnesota No. 184 barley, and Golden Vine peas.

Field inspections for seed certification by the Minnesota Crop Improvement association were made for 63 growers, including 155 fields. Information regarding pure seed offered for sale by growers in Northwestern Minnesota counties was compiled and published early in February in the form of a seed growers' list. Assistance in locating pure seed was given to hundreds of inquirers by correspondence.

Large increase fields of Mindum and Ceres wheat, Velvet barley and Chippewa flax were grown for distribution in 1928. Smaller fields of Linota and Redwing flax, and Anthony

crops as (1) potatoes; (2) root crops; (3) fruits; (4) garden crops; and (5) trees, shrubs, and flowers. Special emphasis has been placed on the potato and sugar beet work, due to the relative importance of these crops in Northwestern Minnesota.

**Animal Husbandry**

The most important livestock feeding investigations conducted at the Northwest Station during the past year, were (1) fattening beef calves for market, and (2) Rations for growing and fattening hogs. Professors O. M. Kiser and D. H. LaVoi are in charge of the livestock work of the station.

**Poultry Department**

The work of the poultry department during the year included (1) Trapping and pedigree breeding; (2) Incubation and brooding; (3) Cod liver oil—its effect on White Leghorn pullets from the standpoint of production, fertility, and hatchability of eggs, and mortality of chicks; (4) Pullet production in relation to time of hatching; and (5) winter egg production as a guide to total yearling production.

One of the features of the report, according to Professor A. M. Pilkey, Poultryman, is the steady progress made in production records during recent years. In 1922-23, 12 hens produced 200 eggs or over; in 1923-24, 28 hens made the 200-egg class; in 1924-25, 33 hens produced over 200 eggs each; in 1925-26, 110 hens established records of over 200 eggs each; and in 1926-27, 184 hens, or 46 per cent of the flock, qualified for the 200 egg class. For the first time in the history of the station, one bird passed the 300-egg mark with a production record of 312 eggs in 365 days.



HON. HENRY J. ALLEN  
Former Governor of Kansas, Wichita, Kansas, who will speak Tuesday evening, Feby. 7.

**STUDENTS JOIN**

**LEADERSHIP CLASS**

Northwest School students and alumni have always taken an active interest in community affairs and to further assist the students a class in community leadership has been organized with Prof. H. A. Pflughoeft, boys' and girls' club leader, as instructor. The class will meet once a week and will study problems of leadership and methods of assisting in such work. Boys' and girls' club work will be stressed, although the work offered will be general so the students may assist in other community activities. Last year Northwest School students did some exceptionally fine work in leadership, which included work in young people's societies, recreation, boys' and girls' club work, farmers' clubs and boy scouts.

**BOYS' AND GIRLS'**

**SHORT COURSE IN MARCH**

The seventeenth annual Junior Short course for boys and girls of Northwestern Minnesota will be held at the Northwest School, March 26-30. This preliminary notice is made in order that boys and girls can begin planning for this week and arrange their home and school work so as to be present.

oats were grown from the limited stocks available of these new varieties. The yield from these plots will be further increased next season.

**Agronomy Department**

The work in Agronomy as reported by Professor R. S. Dunham, Agronomist, included: (1) varietal tests of small grains, corn, and forage crops; (2) tests of cultural methods with farm crops; (3) comparison of crop rotations; (4) sweet clover and alfalfa seed scarification tests; (5) trials of sulphur dust for stem rust; (6) determination of rust distribution through the uniform wheat rust nursery; (7) soil fertility and soil management experiments; (8) investigations of vitality of sow thistle seed.

Professor E. R. Clark, Pure Seed Specialist, supervised the following projects: ((1) Field tests of scarified and unscarified seed; and (2) Longevity of sweet clover and alfalfa seed.

**Horticulture**

The section of the report dealing with the work of the Horticultural Department, which is directed by Professor T. M. McCall, includes such

## Program of Valley's Farm Week

### EIGHTEENTH ANNUAL Northwest School Farmers' Week and Women's Week INFORMATION

**PLACE OF MEETINGS:**—Crookston Armory for the farmers' meetings; and the Presbyterian Church for the women's meetings.

**REDUCED RAILROAD RATES** have been granted. Fare and one-half open rate. No certificates are required. Tickets are on sale February 5 to 10 inclusive, with final return limit February 13.

**SPECIAL TRAINS.**—Noyes to Crookston and return on February 9. Warroad to Crookston and return on February 8. Staples to Crookston and return on February 7 and 10. Single fare for round trip on these four trains.

Single fare for round trip also on Fargo line, good going on regular Train Nine on February 8 only, and returning on special that will leave Crookston after the evening program, Wednesday, February 8.

G. N. No. 8 will stop to discharge passengers at Beltrami, Lockhart, Borup and Felton, in addition to their regular stops, February 7, 8, 9, and 10, 1928.

**ADMISSIONS.**—\$.75 for Season Ticket which admits to SHOWS only for the entire week. \$.25 for single daily admission to the SHOWS only. \$.50 for single admission to the evening program. Out of town people may have seats for any evening held for them (until 6:00 p. m. of day designated) upon making written request for same. Tickets for the evening program will be sold on all special trains.

**LODGING.**—For lodging accommodations inquire at the Lodging Booth at Winter Shows office in Armory, first floor, at left of entrance.

**LADIES' REST ROOM.**—The committees representing five women's organizations of Crookston have arranged for the use of the Public Rest Room under the Polk County State Bank for the convenience of visiting ladies. This rest room will be adequately equipped and in charge of a reception committee each day.

**REST ROOM AT ARMORY.**—The rooms at right side of hallway in Armory have been reserved for the use of the ladies.

### THE WEEK'S PROGRAM

**MONDAY**—Judging livestock, farm crops exhibits and poultry. Livestock and farm crops judging contests. Address by Dr. John W. Holland, St. Paul, in the evening. Women's meetings in afternoon.

**TUESDAY**—Judging stock and poultry. Farm crops meetings in Armory. Address by Honorable Henry J. Allen, Wichita, Kansas, in the evening. Women's meetings in forenoon and afternoon.

**WEDNESDAY**—Livestock demonstration and addresses in livestock pavilion in forenoon. Livestock meeting in the Armory in the morning and afternoon. Breed Association and organization meetings. Address by Dr. Wilfred H. Osgood, Field Museum, Chicago, in the evening. Women's meetings in forenoon and afternoon.

**THURSDAY**—Livestock demonstration in pavilion in forenoon. Meetings dealing with farm topics in Armory forenoon and afternoon. Address by Governor Theodore Christianson in the evening. Women's meetings in forenoon and afternoon.

**FRIDAY**—Meetings dealing with farm problems in Armory in forenoon and in the afternoon at 3:00 p. m., following the singers' rehearsal program, which will begin at 1:00 p. m. Admission to rehearsal program, twenty-five cents. Evening program by Northwestern Minnesota Singers' Association. Women's meetings in forenoon and afternoon.

### ASSOCIATION MEETINGS

Members of the Livestock and Farm Crops Judging Contest teams and junior livestock exhibitors, annual dinner meeting, Crookston Association, 5:30 p. m., Monday, February 6. Fifty cents a plate. H. A. Pflughoeft and E. R. Clark, in charge.

**Red River Valley Crops and Soils Association** luncheon meeting at 12:00 m., at Alex's Cafe, February 7.

**Certified Potato Seed Growers** will meet with A. G. Tolaas, Thursday at 10:30 a. m., in Armory.

**Crookston Association, Red River Valley Development Association, and Northwestern Minnesota Red River Valley Municipalities** dinner at Crookston Association Rooms, 5:30 p. m., Thursday, Feb. 9. Speakers will be Winter Shows visitors.

**Red River Valley Holstein Breeders' Meeting**, 3:30 p. m., in gymnasium room, down stairs, in Armory, Wednesday, February 8, Jos. Berg, President.

**Red River Valley Guernsey Breeders' association** annual business meeting, Wednesday, February 8, 3:30 p. m., in Room A, down stairs in Armory. L. Houske, secretary.

**Boys' and Girls' Club Conference.** Leaders' conference at 10:00 a. m., Wednesday. A definite program of instruction in livestock and crops projects Wednesday to Friday. Recreation each day. H. A. Pflughoeft, in charge.

**Red River Valley Livestock association** business meeting, 11:00 a. m., Livestock Pavilion, Thursday, February 9. O. M. Kiser, secretary.

**Minnesota Red River Valley Development association** annual business meeting, 4:00 p. m., Thursday, February 9. Crookston Association rooms. W. R. Low, secretary.

**Northwest School of Agriculture Alumni association** reunion and party, 8:00 o'clock, February 10, at Northwest School. Dr. Harry Hedin, in charge. Register at alumni booth in Crops Exhibit room.

**Northwestern Minnesota Red River Valley Municipalities Day**—Meeting, 1:45 p. m., Thursday, February 9, City Council Chambers, City Hall.

### EDUCATIONAL CONTESTS

**Livestock Judging Contest** for teams representing farm clubs, high schools, and teams representing the University of Minnesota, Northwest School, Crookston; West Central School, Morris; North Central, Grand Rapids, and Central, St. Paul; Manitoba Agricultural College (sub-collegiate class), Winnipeg; S. D. School of Agriculture, Brookings; Walsh County School, Park River, N. D., and Benson County School, Maddock, N. D. D. H. LaVoi in charge. 8:30 a. m., February 6.

**Judges:** Sheep, R. C. Shaw; beef cattle, C. M. Kelehan; dairy cattle, H. R. Searles; swine, C. L. McNelly, and horses, W. E. Morris.

**Farm Crops Judging Contest** for teams from agricultural schools. See list under livestock judging contest. 9:00 a. m., February 6.

**Judge:** R. F. Crim.

**Red River Valley Rural School Spelling Contest** will be held at 10:00 a. m., Friday, February 10, at the Central High School building. The winners from each of Becker, Clearwater, Kittson, Mahnomen, Marshall, Norman, Pennington, Polk, Red Lake, Roseau, Ottertail, Clay and Wilkin counties compete in this event. Committee: Nels M. Engen, Warren; Erba Pouliot, Red Lake Falls, and I. S. Hov, Crookston. Miss Anne Simley, in charge. The final spelldown will be held at 4:30 o'clock at the High School Assembly room. Awards will be made at evening session in Armory.

### SHOWS AND EXHIBITS

**Red River Valley Livestock Association** twelfth annual livestock show. This association owns the three buildings used for the Red River Valley Winter Shows.

**Judges:** Sheep, Dean W. C. Coffey, University Farm, St. Paul; dairy cattle, R. L. Donovan, St. Paul; beef cattle, W. H. Peters, St. Paul; horses, Prof. H. B. Sommerfeld, Manitoba Agricultural College, Winnipeg; swine, H. G. Zavoral, St. Paul.

**Minnesota Red River Valley Development Association** Eighteenth annual farm crops show. The first four shows were held at the Northwest School of Agriculture under the auspices of the institution. In 1914 the Minnesota Red River Valley Development Association was organized and took over the farm crops show, and since 1922 the Red River Valley Crops and Soils association has cooperated. **Judges:** A. D. Haedecke, St. Paul, and P. J. Olson, Fargo.

**Northwestern Minnesota Poultry Association** twentieth annual poultry show. The exhibit is held on the second floor of Annex B. Judge: George W. Hackett, Minneapolis.

**Tenth Northwestern Minnesota Industrial and Improvement** exhibit.

**Northwest School Educational Exhibit.**  
**Boys' and Girls' Club Exhibit.**

### SPECIAL MUSIC

Northwestern Minnesota Singers' Association, 1:00 and 8:00 p. m., Friday, February 10. T. W. Thorson, Fertile, is leader of the nine chorus groups that make up the combined chorus.

Four different bands, all directed by H. L. Smith, of Crookston, will play, including Crookston Juvenile, Municipal, Beltrami, and Red Lake Falls Bands.

Several quartets and other groups appear at the various meetings.

### MONDAY, FEBRUARY 6

- 8:30 Livestock judging contests—Livestock Pavilion Judging Arena.
- 9:00 Farm Crops judging contest—Crops Exhibit Room.
- 9:00 Judging grain and corn exhibits—Livestock Pavilion, first floor.
- 9:00 Judging poultry exhibits—Annex B, second floor.

### MONDAY AFTERNOON

- 1:30 Judging livestock exhibits—Livestock Pavilion Judging Arena.
- 1:30 Women's Meetings—See Program on page 13.
- 5:30 Dinner meeting of members of judging teams, junior exhibitors and judges. Winners in the contests will be announced.—Crookston Association.

### MONDAY EVENING

Mr. F. A. Green, Stephen, Presiding.

- 7:30 Music—Crookston Juvenile Band, H. L. Smith, Director.
- 8:00 General Singing, led by Mrs. C. Merriam Stephens.
- 8:10 "Allah's Holiday"—Mixed Voices, Northwest School.
- 8:20 Announcements—A. A. Dowell, President, Red River Valley Winter Shows.
- 8:30 "Fays and Elves"—Girls' Sextette, Northwest School.
- 8:40 Address—"Children's Rights"—Dr. John W. Holland. St. Paul.

**Note:**—See the Livestock, Poultry, Farm Crops, and Pure Seed Shows, and Industrial Exhibit and the different educational displays. They are worthy of your interest.

### TUESDAY, FEBRUARY 7

- 9:00 Judging Livestock Exhibits—Livestock Pavilion.
- 9:00 Judging Poultry Show—Second Floor, Annex B.

### Meetings

- 10:30 Farm Crops Meeting—Main Hall, Armory. E. R. Clark, Presiding.
- Sources of Seed Grain in Minnesota—A. D. Haedecke.

- 12:00 Luncheon meeting of Red River Valley Crops and Soils Association at Alex's Cafe.

### TUESDAY AFTERNOON

- 1:30 General Meeting—Main Hall, Armory. R. S. Dunham, presiding.
- Music.
- Sulphur Dust for Rust Control—C. V. Kightlinger.
- The Relation Between Crops and Livestock in the Red River Valley—Dean W. C. Coffey.
- Corn Growing in the North—P. J. Olson.
- Ceres Wheat in Farm Trials—E. R. Clark.
- 1:30 Women's Meetings—See program on page 14.

### TUESDAY EVENING

- A. A. Dowell, Superintendent, Northwest School of Agriculture, Presiding
- 7:30 Music—Beltrami Concert Band—H. L. Smith, Director.
- 8:00 General Singing, Led by Mrs. Lucille Holliday Swain, Minneapolis.
- 8:15 Music—English Lutheran Church Choir—O. W. Peterson, Director.
- 8:30 Greeting—Dean W. C. Coffey.
- 8:45 Address—"Our Peaceful Penetration," Honorable Henry J. Allen, Wichita, Kansas.
- Note:**—See the Livestock, Poultry, Farm Crops, and Pure Seed Shows, the Industrial Exhibit and the different educational displays. They are worthy of your interest.

### WEDNESDAY, FEBRUARY 8

- 9:00 Awarding Championships—Livestock Pavilion. Presenting Silver Trophies to Winners—Dean W. C. Coffey.
- 9:45 Potato Disease Identification and Control Demonstration—Farm Crops Exhibit Room.
- 10:30 Livestock Meeting—Main Hall, Armory. O. M. Kiser, presiding.
- Demonstration—Grading and Marketing Wool—R. E. Jones and Alex Huddleston.
- Problems in Pork Production—H. G. Zavoral.
- 11:00 Farm Machinery Group, Room A, Armory. A. M. Foker, Presiding.
- 10:30 Women's Meetings—See program on page 15.

### WEDNESDAY AFTERNOON

- 1:30 Livestock Meeting—Main Hall, Armory. F. A. Green, Presiding.
- Music—Northwest School Orchestra.
- Looking Forward in Beef Cattle Raising—W. H. Peters.
- Common Diseases of Livestock—Dr. W. A. Billings.
- Winter Rations for the Dairy Cow—H. R. Searles.
- 3:30 Breed Association and Sectional Meetings.
- Red River Valley Holstein Breeders' Association—Jos. Berg, President, Gymnasium Room, Down Stairs, Armory.
- Red River Valley Guernsey Breeders' Association—L. Houske, Secretary, Room A., Down Stairs, Armory.
- Cow Testers' Meeting—Room B, Armory.

### WEDNESDAY EVENING

- Dr. O. E. Locken, Mayor of Crookston, Presiding
- 7:30 Music—Red Lake Falls Band, H. L. Smith, Director.
- 8:00 General Singing, led by Mrs. Lucille Holliday Swain, Minneapolis.
- 8:15 Music—Trio and Solo Selections—Miss Helen Brown, Miss Grace Warne, Miss Rose Polski.
- 8:30 Address—"Abyssinia and The Source of the Blue Nile"—Dr. Wilfred H. Osgood, Curator of Zoology of the Field Museum of Chicago.
- Note:**—See the Livestock, Poultry, Farm Crops, and Pure Seed Shows, the Industrial Exhibit and the different educational displays. They are worthy of your interest.

**THURSDAY, FEBRUARY 9**

- 9:00 Livestock Judging Demonstrations—Livestock Pavilion.  
Bee Demonstration Team—Brita and Swan Anderson. Humboldt.  
Horse Judging Demonstrations.
- 11:00 Annual Business Meeting of the Red River Valley Livestock Association. Stockholders' meeting to be followed by directors' meeting.
- 9:00 Potato Disease Identification and Control Demonstration—Farm Crops Exhibit Room.
- 9:00 Honey Judging Demonstration—Exhibit Room.
- 10:00 Bee Keeping—Main Hall, Armory. T. M. McCall, Presiding.  
Suggestions to Bee Keepers—Professor J. W. Thompson.  
Bee Keepers' Problems—Reports from Red River Valley Bee Keepers.
- 11:15 Sugar Beet Meeting—Main Hall, Armory. T. M. McCall, Presiding.  
Factors Affecting Sugar Beet Yields—A. V. Dahlberg.
- 11:00 Farm Motors—Room A, Armory. A. M. Foker, Presiding.
- 10:30 Women's Meetings—See program on Page 15.

**THURSDAY AFTERNOON**

- 1:30 General Meeting—Main Hall, Armory. T. M. McCall, Presiding.  
Poultry Problems—Dr. Wm. H. Lapp.  
Improving Minnesota Certified Seed Potatoes—A. G. Tolaas.  
Factors Influencing Success and Failure in Treating Seed Potatoes—R. C. Rose.  
How and Why from a Dealer's Standpoint—Fred S. Pratt.  
Awarding Cup to Winner in 300 Bushel Contest East Grand Forks Commercial Club.  
Awarding Certificates to Winners in 300-Bushel Contest.  
How I Produced 457 Bushels Per Acre—Ole A. Flaatt.  
How I Produced 418 Bushels Per Acre—Anchor Wurden.  
How I Produced 320 Bushels Per Acre—Roy Quaintance.  
Selecting Potatoes for Exhibition—M. A. Thorfinnson.
- 1:30 Women's Meetings—See Program on page 15.
- 4:00 Business Meeting of Minnesota Red River Valley Development Association at Crookston Association rooms.
- 1:45 Northwestern Minnesota Red River Valley Municipalities Day, City Council Chambers, City Hall. Dr. O. E. Locken, Mayor of Crookston, Presiding.  
Address—"Tax Rates in Cities and Villages"—J. G. Armson, Chairman of Department of Taxation of the State of Minnesota.  
Address—"A Balanced Health Program"—Dr. T. J. Ferreira, County Health Officer, St. Louis County.  
Address—"What Highways Mean to the Small Town"—C. M. Babcock, Commissioner of Highways.  
Address—"Freight Rate Adjustment and Its Effect on the Northwestern Minnesota Red River Valley"—J. C. Kelly, Secretary of Crookston Association.  
Address—"The Significance of Municipal Cooperation"—Dr. R. R. Price, Director of General Extension Division, University of Minnesota.  
Address—"The Services of the League of Minnesota Municipalities"—Harvey Walker, Executive Secretary of the League of Minnesota Municipalities.

**THURSDAY EVENING**

- Senator John H. Hougen, Presiding
- 7:30 Music—Crookston Municipal Band, H. L. Smith, Director.
- 8:00 General Singing—Led by Mrs. Lucille Holliday

- Swain. Minneapolis.
- 8:15 Music—Wesley College Conservatory of Music, Grand Forks. Miss Grace Currie, Violin; Mr. E. Clifford Toren, Voice; Mr. Wesley Johnson, Accompanist.
- 8:30 Address—Governor Theodore Christianson.  
**Note.**—See the Livestock, Poultry, Farm Crops and Pure Seed Shows, the Industrial Exhibit and the different educational displays. They are worthy of your interest.

**FRIDAY, FEBRUARY 10**

- 9:00 Livestock Judging Demonstration—Livestock Pavilion.  
Sheep Demonstration—Robert Ash and Lawrence Ward, St. Vincent.
- 9:45 Potato Disease Identification and Control Demonstration—Farm Crops Exhibit Room.
- 10:00 Red River Valley Rural School Spelling Contest—Miss Anne Simley in Charge—High School.
- 10:30 Women's Meetings—See Program on page 15.

**FRIDAY AFTERNOON**

- 1:00 Rehearsal Program by the Northwestern Minnesota Singers' Association. Admission 25c, at Armory.
- 1:30 Women's Meetings—See Program on page 15.
- 3:00 General Farm Meeting—Armory. A. W. Aamodt, presiding.  
The Value of County Agent Work—C. L. McNelly, St. Paul.  
The Master Farmer Contest—Berry H. Akers.  
New Developments in Boys' and Girls' Club Work—H. A. Pflughoeft.
- 4:30 Thirteenth Annual Red River Valley Spelldown at Central High School Assembly Room.

**FRIDAY EVENING****Song Festival**

- A. E. Morck, President of Northwestern Minnesota Singers' Association, Presiding
- 8:00 Eleventh Semi-annual Program of the Northwestern Minnesota Singers' Association.  
Member Choruses are Fisher-Bygland, Crookston, Erskine, Fertile, Fosston, Mentor, McIntosh, Halstad, Winger, and Northwest School. Community Singing, led by Mrs. R. E. Buckingham.

**WOMEN'S MEETINGS**

The women's meetings begin Monday afternoon and continue through Friday. All meetings will be held in the Presbyterian church. At 1 P. M., Friday the Northwestern Minnesota Singers will give a rehearsal program in the Armory. Admission twenty-five cents. Those who cannot remain for the evening program should avail themselves of this opportunity to hear them.

**Speakers include** Governor Theodore Christianson; Mrs. Ruth L. Gerth, Minneapolis; Dean W. C. Coffey; Dr. John W. Holland, St. Paul; Miss Margaret Cable, University of North Dakota; Mrs. Mabel Wilson; Miss Julia O. Newton, St. Paul; Dr. E. C. Hartley, and others.

**Ladies' Rest Room.** The committees representing five women's organizations of Crookston have arranged for the use of the Public Rest Room under the Polk County State Bank for the convenience of visiting ladies. This rest room will be adequately equipped and in charge of a reception committee each day.

**Rest Room at Armory.** The rooms at the right of hallway in Armory have been reserved for the use of the ladies during the week.

**PROGRAM****MONDAY AFTERNOON**

- Mrs. E. H. Harding, Presiding
- 1:30 Organ.
- 1:45 Singing, Led by Mrs. C. Merriam Stephens.
- 2:00 Address—"Hygiene of Maternity and Infancy"—Dr. E. C. Hartley and Dr. A. J. Chesley.



- 2:50 Music—Violin Solo—Miss Grace Warne.  
 3:00 Address—Dr. John W. Holland, St. Paul.  
 3:20 Lecture and Demonstration—"Modern Electrical Appliances for the Home—Their Use and Upkeep"—Mrs. Mabel Wilson, Chairman Women's Committee, North Central Electrical Association.  
 Hostesses—Mesdames F. J. Hibbard, H. W. Remele, I. E. Bergan, Dean Miller, B. W. Sewell, P. J. Tronrud, Frank Miller, G. W. Everson, Arthur LeMasurier, Nels Thompson.  
 A Reception Committee from the Current Events Club of Crookston, will be in charge on Monday.

#### TUESDAY FORENOON

Miss Fanny B. Lippitt in charge

- 10:30 "Beauty as Environment"—Mrs. Ruth L. Gerth. Discussion of the importance of beauty in the home and the effect of home furnishings on the members of the household.

#### TUESDAY AFTERNOON

Mrs. A. A. Dowell, Presiding.

- 1:30 Organ—Miss Rose Polski.  
 1:45 Singing, led by Mrs. L. Holliday Swain.  
 2:00 "Clubs Is Trump"—Northwest School.  
 2:30 Music—Group of Songs by Miss Esther Latterell, accompanied by Mrs. E. W. Eagle.  
 2:40 Humorous Readings, by Miss Anne Simley.  
 2:50 Address—"The Beauty of the House is Order"—Mrs. Ruth L. Gerth. Discussion of the principles of art and beauty, such as proportion, line, form, rhythm, scale and balances.  
 Hostesses—Mesdames F. J. Lipovetz, L. S. Miller, M. M. Bailey, D. K. Slichter, J. P. Tiernan, C. F. Musselman, Wm. Riedesel, Jr.; O. M. Thompson, Sylvan Hall, D. J. Kiewel.  
 A Reception Committee from the Matron's Club of Crookston will be in charge on Tuesday.

#### WEDNESDAY FORENOON

Miss Retta Bede, in charge.

- 10:30 "The Song of Color"—Mrs. Ruth L. Gerth. Discussion of effect of color, necessity for color harmony, use of color chart, and achieving color songs in the use of curtain and drapery materials.

#### WEDNESDAY AFTERNOON

Mrs. G. E. Davis, Warren, President Ninth District Women's Clubs, Presiding

- 1:30 Organ.  
 1:45 Singing, led by Mrs. L. Holliday Swain.  
 2:00 Music—Piano duet.  
 2:00 Address—Dean W. C. Coffey.  
 2:30 Music—Trio—Miss Helen Brown, Mrs. R. E. Buckingham, Miss Esther Latterell.  
 2:40 Reading—Mrs. De Ette Cenfield Genung.  
 2:50 "Pleasant Places"—Mrs. Ruth L. Gerth. Discussion of the selection and arrangement of furnishings to produce the most pleasing effect. The added attraction of good accessories. Hanging of pictures, and placement of small objects. Talk illustrated by furniture and furnishings.  
 Hostesses—Mesdames H. W. Brandow, Claude Carpenter, R. C. Saugstad, J. S. Newbery, Godfrey Stovern, H. G. Neff, Charles Munn, Fred Cyr, P. L. Pengra, John Perry.  
 A Reception Committee from the Legion Auxiliary of Crookston will be in charge on Wednesday.

#### THURSDAY FORENOON

Miss Laura Gerber, in charge.

- 10:30 Rug Making Demonstration—"Hooked, Braided and Woven Rugs"—Mrs. H. H. Hodgson.

#### THURSDAY AFTERNOON

Mrs. W. A. Nebelung, Presiding

- 1:30 Organ—Miss Marion Opsahl.



DR. JOHN W. HOLLAND

St. Paul, who will speak Monday evening, February 6.

- 1:45 Singing, Led by Mrs. L. Holliday Swain.  
 2:00 Address—Governor Theodore Christianson.  
 2:20 Music—High School Sextette.  
 2:30 Address—"Life Insurance from the Standpoint of the Beneficiary"—Mr. Ralph M. Hamburger.  
 3:10 Music—Solo, Robert Canaan.  
 3:15 Demonstration—"Clay in the Hands of the Potter"—Miss Margaret Cable.  
 Hostesses—Mesdames Joe Linster, C. E. Smith, Ed Bergstrom, M. Cornelius, J. J. Flynn, L. W. Larsen, Sidney Taylor, H. A. Pflughoeft, J. J. Padden, Andy Volland, Miss Muriel Green.  
 A Reception Committee from the Women's Club of Crookston will be in charge on Thursday.

#### FRIDAY FORENOON

Miss Laura Gerber, in charge

- 10:30 "Use of Pottery in the Home"—Miss Margaret Cable. Illustrated with motion picture.

#### FRIDAY AFTERNOON

Mrs. E. E. Green, Presiding

- 1:30 Organ.  
 1:45 Community Singing, led by Mrs. R. E. Buckingham.  
 2:00 "Mother's Cure"—Eldred Group.  
 2:15 Address—"The Crossroads"—Miss Julia O. Newton, State Home Demonstration Leader.  
 3:00 "The Vegetable Drill"—Fisher-North Lowell Group.  
 3:20 Address—by Music Critic.  
 Hostesses—Miss Pauline Rauenbuehler; Mesdames Mickle Bang, R. H. Balfour, M. J. Mercil, P. J. Morrisroe, Elmer Knudtson, John Laughlin, Jr., Armand Locken, R. E. Balch, Miss Belle Balfour.  
 A Reception Committee from the Business and Professional Women's Club of Crookston, will be in charge on Friday.

**BOYS' AND GIRLS' CLUB PROGRAM****MONDAY, FEBRUARY 6**

- 9:00 Judging Poultry Exhibits. Annex B, second floor.  
 1:30 Judging Livestock exhibits—Livestock pavilion, judging arena.  
 5:30 Banquet—Crookston Association rooms. Secure tickets from H. A. Pflughoeft.  
 7:30 Auditorium, Armory. Secure tickets from H. A. Pflughoeft.

**TUESDAY, FEBRUARY 7**

- 9:00 Livestock and Poultry Judging, continued.  
 1:30 General meetings—Main Hall, Armory.  
 7:30 Games—Gymnasium. Place to be announced.

**WEDNESDAY, FEBRUARY 8**

- 9:15-10:00 Study of Poultry Breeds. Annex B, second floor.  
 9:15- 9:45 Presenting silver trophies—Dean W. C. Coffey, Livestock pavilion.  
 10:00-10:45 Care and Management of Club Pigs—H. G. Zavoral, Room B, downstairs, Armory.  
 11:00-11:45 Care and Management of Dairy Calf—H. R. Searles. Room B, downstairs, Armory.  
 1:30- 3:00 Junior Livestock Showing contest—Livestock pavilion.

- 3:10- 3:45 Care and Management of Club Sheep—W. E. Morris, Room B, downstairs, Armory.  
 4:00- 5:30 Gymnasium.  
 7:30 Auditorium—Armory. Secure tickets from H. A. Pflughoeft.

**THURSDAY, FEBRUARY 9**

- 9:15-10:00 Selecting Birds for Exhibition—A. M. Pilkey. Poultry exhibition room.  
 9:15-10:00 Bee Demonstration—Brita and Swan Anderson, Humboldt—Livestock pavilion.  
 10:10-12:00 Leaders' conference—T. A. Erickson, Room B, Armory.  
 1:30- 2:15 Poultry Culling—A. M. Pilkey—Room B, Armory.  
 2:25- 3:10 Feeding Baby Beef Calves—O. M. Kiser, Room B, Armory.  
 3:15- 4:00 Sheep Judging Demonstration. Livestock pavilion.  
 7:30 Gymnasium.

**FRIDAY, FEBRUARY 10**

- 9:00-10:30 Livestock Judging Demonstration, Livestock pavilion.  
 Sheep Demonstration—Robert Ash and Lawrence Ward, Kittson county.  
 10:30-12:00 Judging Contests for Club Members—Livestock and Poultry—O. M. Kiser.  
 1:00 Northwestern Minnesota Singers' Association—Auditorium.

**FEATURES OF FARM****CROPS SHOW**

A number of new and interesting features of the Farm Crops Show have been announced by R. S. Dunham, Superintendent of that division. One feature to be tried for the first time this year is the Community Booth, where products from a community will be attractively displayed in an artistic booth. The products will not be limited to crops, but may represent women's work as well.

Samples of prize-winners in grains and legumes at the International Hay and Grain Show held in Chicago last December will be on exhibition. They represent the best in the largest crops show on this continent and will be of special interest to Winter Shows visitors.

A new division of the farm crops show, including potatoes, onions, and bee and honey products will be opened for the first time this year, with Professor T. M. McCall as superintendent.

**Sulphur Dust for Rust Control Exhibit**

The Northwest Station will make a complete exhibit of the results in dusting sulphur on wheat to control black stem rust. Although the method is still in an experimental stage, field trials were made last summer on farms in Minnesota and North Dakota. Sheaves of dusted and undusted wheat from field trials will be displayed in addition to a comprehensive exhibit of the results obtained in experimental work. In connection with this exhibit, the results of breeding rust-resistant varieties of wheat will be shown in sheaf and threshed grain samples. The barberry eradication work will also be represented by an exhibit with an attendant in charge. Thus the three methods of attack up-

on the rust problem may be compared.

**Utility Seed Class**

Another feature of the show will be the Utility Seed class. Bushel samples of wheat, oats, rye, flax, corn, and soybeans and peck samples of alfalfa, sweet clover, and red clover are required for entry. These samples should represent bulk lots of seed for sale. After judging, advertising literature may be displayed on each sample. This class affords a splendid opportunity for the pure seed cooperator with the Northwest Station to display his seed, and likewise for the buyer to see samples of seed available. Samples of Ceres, Reward and Mindum wheat; Gopher oats; Velvet and Trebi barley; Chippewa and Linota flax; and Crookston Northwestern Dent and Haney's Minn. 13 corn will be exhibited.

**Headquarters for Crops and Soils Association**

Headquarters for the Crops and Soils association at the Winter Shows will be located at the superintendent's booth on the main floor of the crops show room. Members and all others interested in pure seeds and in crops and soil improvement are invited to call at this booth and get acquainted with the secretary and other officers and directors of the association. This is a good time to pay your membership dues. Although the Association year begins April 1, all who pay membership fee of one dollar during show week will be credited as being fully paid up to April 1, 1929.

**Program for Farm Crops Day**

Monday, February 6, is the date for the Inter-school Crops Judging contest. Teams from two schools in North Dakota, one from South Dakota, and two from Minnesota will compete in the annual contest. The teams

are required to place samples of wheat, oats, barley, flax, alfalfa, sweet clover, and red clover; give reasons for placings, and identify 30 samples of crop and weed seeds. A silver cup will be presented to the winning team at a banquet in the evening.

Tuesday, February 7, is Farm Crops Day, with a program in the Armory. The morning program will be given over to the Minnesota Crop Improvement association and the Red River Valley Crops and Soils association. A. D. Haedecke of the State association will speak. A luncheon meeting will be held at Alex's Cafe at noon.

In the afternoon, the place of livestock in the Red River Valley farming will be discussed by W. C. Coffey, Dean of the Department of Agriculture, University of Minnesota. The results of experiments in dusting wheat with sulphur for black stem rust, the methods of application, and the future outlook will be fully explained by C. V. Kightlinger, of the Niagara Sprayer Co., and W. C. Broadfoot, of the University of Minnesota. Pure seed sources for 1928 will be covered by E. R. Clark of the Northwest Station.

Former-Governor Henry J. Allen of Kansas, will be the speaker of the evening.

**POTATO MEETINGS**

The program for potato growers, on Thursday, February 9, will be of more than general interest. Two state and nationally known men, A. G. Tolaas and R. C. Rose, will appear on the program. Mr. Tolaas will speak on the "Problems of Improving Minnesota Certified Seed Potatoes." Mr. Tolaas has been in charge of the administration of the potato seed certification law since its inception, and it has been largely through his untiring ef-

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## JUDGING CONTESTS POPULAR

Unusual interest is being shown in the Livestock Judging Contests to be held in connection with the Northwest School Farmers' Week and Red River Valley Winter Shows on Monday, February 6. These contests are sponsored each year by the Red River Valley Livestock Breeders' Association.

Entries are already coming in from Farm Clubs and township; high schools, and sub-collegiate agricultural schools in Minnesota, North and South Dakota and Canada. According to D. H. LaVoi, who has charge of the contests, entries are expected to pass all previous record. In the sub-collegiate class, the following schools of agriculture have already entered teams: Manitoba Agricultural school, Winnipeg, Canada; South Dakota Agricultural school, Brookings; Benson County Agricultural school, Maddock, North Dakota; and all Minnesota schools of agriculture, including Central School, St. Paul; West Central School, Morris; North Central School, Grand Rapids, and the Northwest School, Crookston. In the high school group Bemidji and Park Rapids have entered, while Fisher, Bagley, Warren, Fosston, Deer River and Long Prairie and others are expected to send teams. In the Farm Club and Township class, Kittson County will be sending four teams: Happy Corner, Joe River, Hallock and Red River; Roseau county, two, and Beltrami county, one. The Warrenton club at Warren, the Cloverland Club, Plummer, and the Fairfax-Andover Club, Crookston, have already entered, while many more are expected to be heard from within the next few days.

Trophies, cash prizes and ribbons will be awarded the winning teams and individuals.

Because of the difference in the classification of the teams, the contest is divided into three sections: sub-collegiate, high school, and farm club and township. It has been so arranged that neither of these groups may compete against the other. The sub-collegiate agricultural schools and high schools will judge ten rings of stock, two of each class, giving reasons on one. This part of the contest will start at 8:00 o'clock. The farm club and township contest will start at 9:30 and contestants will be required to place five rings of stock, one for each class, and give reasons on each. In both these groups 12 minutes will be given for placing and 2 minutes for reasons. Three individuals will again make up a team and their combined score will be the team score, which will be used in deciding the awards.

In previous contests, farm clubs from Kittson county have been the outstanding winners of the trophies offered. Last year the contest was won by the Happy Corner club in that county. In the high school group Warren has the best record, while Bemidji was last year's winner. In the sub-collegiate contest, started in 1925, Manitoba Agricultural school



DR. WILFRED H. OSGOOD  
Chicago, who will speak Wednesday evening,  
February 8

has won the trophy twice and Morris once. Teams are training hard for this year's contest and new winners are expected to dethrone those of last year.

If your farm club or agricultural high school has not entered a team, do so at once. These contests offer an unusual opportunity to become more proficient in the judging of farm animals. For further information, write D. H. LaVoi, Northwest School, Crookston.

## ALUMNI WILL HOLD GET-TOGETHER

Alumni and former students who attend the eighteenth annual Northwest School Farmers' Week and Red River



MRS. RUTH L. GERTH  
Minneapolis, will address women's meetings  
Tuesday and Wednesday, February 7 and 8.

Valley Winter Shows, February 6-10, will keep in mind the annual get-together that is always held on Friday evening of that week. February 10 is therefore the date of the event this year, and the committee, consisting of Dr. Harry Hedin, chairman, is working on plans for the evening.

## FOOTBALL MEN RECEIVE LETTERS

Letters and other insignia for participation in football during the fall term were presented members of the team at the Get-together Dinner, December 21, by Professor T. M. McCall, chairman of the athletic committee. Those who received their first athletic letter were George Roisum, Bagley; Rolf Anderson, Fisher; Lloyd Mylerberg, McIntosh; Stanton Gandrud, Detroit Lakes; Elmer Johnson, Erskine; Glenn Lindquist, Wylie; Henry Heathman, Shevlin; Arthur Widseth, Gonvick; Martin Odlund; Wadena, and Elon Byrngelson, Callaway. Those who have received similar awards in other years were Olaf Stenborg, captain, Clearbrook; Carl Widseth, Gonvick; Harry Confer, Angus; Randolph Ostlie, Montevideo; George Berggren, Greenbush; Elmer Wardeberg, captain-elect, McIntosh; Chester Engman, Hallock; Melvin Hole, Dalton, and Ivan Suchomel, Ogema.

## CARL WIDSETH WINS PRIZE

Carl Widseth, of Gonvick, was voted the most valuable man on the 1927-28 football team, and was awarded the Ruettell Clothing Company's prize of a sweater as a result. Carl has played fullback on the Aggie team for the past four years. His driving power in the back field has enabled the team to gain considerable ground, and the threat of his charges enabled the other back field men to get away for other good gains. Carl has been a clean, fair player and represents the type of athletes the Northwest School has on the various athletic teams. Carl will finish the four year course in March, and plans on entering the University next fall.

## POTATO MEETINGS

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forts that Minnesota certified potatoes have a national reputation. Professor Rose, as plant pathologist, has made special studies the past year on potato seed treatment and will speak on the subject, "Factors Influencing Success and failure in Treating Seed-Potatoes."

Fred Pratt, manager of the Farmers' Potato Company of East Grand Forks, has made a marked success in marketing certified seed potatoes and will appear on the program to discuss marketing.

New features of the potato program will be the awarding of the Loving Cup for the highest acre yield in the 300 Bushels Per Acre contest, and the awarding of cash prizes and certificates in the acre and two acre contests. Growers winning awards in the potato contests will respond by telling how they produced record crops.