

THE NORTHWEST MONTHLY

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Expect Largest Enrollment In School History

The fall term of the Northwest School opens with registration day on Monday, October 4. Classes will start promptly on Tuesday, October 5. All previous advance room registration records have been broken this year with a total of three hundred forty-nine rooms reserved on August 13. Included in this total are many second generation students enrolling for the first time.

Dormitories will be well filled again this year with three students assigned to practically every room. The crowded condition of the girls' dormitory, Robertson Hall, will be alleviated some by utilizing the second floor of the Home Economics building for girls. Many students because of the reduction in room rent where three reside in one room, have asked that they be permitted to have three in a room again this year. The crowded condition of the dormitories will continue until such time as the legislature approves the University building program which would give the Northwest School the dormitory it has needed for several years.

Tuition Aid for Rural Students

The amended state aid law which provides that any boy or girl under twenty-one years of age, who has completed the eighth grade, and who comes from an organized rural school district that does not offer accredited high school instruction may get their necessary tuition, laboratory, and equipment fees paid from state funds has enabled many students to attend the school.

School Has Many Advantages

Advance registration lists show an increasing number of farm boys and girls transferring from public schools to the Northwest School of Agriculture. Reasons given by parents for transferring students bring out some of the many advantages of the Northwest School to farm folks. One man pointed out that, with the high wages paid for tractor operators during threshing and fall work, he would save enough on his son's wages during September alone to pay four months' board and room at the Northwest School. Similar statements made by other parents indicate that from a dollar and cents standpoint, Northwest School stu-

(Continued on Page 4, Col. 2)

Fall Term Begins October 4



ROBERTSON HALL
Girls' Dormitory



STEPHENS HALL
Boys' Dormitory



SENIOR HALL
Boys' Dormitory

Record Attendance on Crops and Soils Day

Crops and Soils Day on July 19 proved to be the outstanding field day of the year at the Northwest School and Station. The weather was good and a record crowd attended.

The program for the day started with the business meeting of the Red River Valley Crops and Soils association, which had been called by President Melvin Flaskerud of Fosston for 11:30 A. M. President Flaskerud and last year's officers were re-elected. After the picnic dinner, a short program was held on the campus. The tour of the experimental plots started at 1:30 and at 4:00 o'clock the tour stopped at the Aggie Inn for a light lunch. A public address system, mounted on a truck, proved very satisfactory for the field announcements and explanations. Professors R. S. Dunham, E. R. Clark, and A. C. Voegel directed the tour through the plots.

Outstanding features shown on the tour included one of the most extensive trials of sweet clover for soil improvement in the northwest which was begun in 1934 at the Northwest Experiment Station. The first yields of wheat, oats, barley, and flax following sweet clover handled in various ways were obtained last year in a season of extreme heat and drought. The second set of crops was seen this year in a season of ample moisture. In connection with this experiment, the effect of triple super-phosphate and ammonium phosphate fertilizer applied in the row with grain was seen. The fertilizer attachment used on the grain drill for distributing the phosphate was also on display.

Black stem rust and other cereal diseases provoked a great deal of discussion on the tour of cereal plots. Aside from those already in commercial use, many new varieties were on display in the rod row and variety tests. Varieties from outside Minnesota shown in the trials this year included Apex and Renown wheat and O. A. C. 21 barley from Canada, Hull-less oat No. 165 and 1340 barley from South Dakota, Wisconsin 38 barley, D-67 and Iogold oats from Iowa, and Rusota oats and Bison, Buda, Linota, and Rio flax from North Dakota.

(Continued on Page 4, Col. 3)



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NORTHWEST SCHOOL OF
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T. M. McCALL, Superintendent

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Northwestern Minnesota.

MANY FRUITS PROFITABLE

Many fruits are proving profitable in the Red River Valley this year. One raspberry grower has reported to the Northwest School that more than one hundred dollars worth of sales were made from a single acre. Several strawberry growers with overhead irrigation systems have reported excellent returns this year. The favorable rainfall of midsummer has encouraged heavy growth of stems and top of all fruit trees and plants. The heavy growth of top of fruit plants may be a hazard according to Northwest School authorities. Late fall growth of woody plants should be checked by planting cover crops such as buckwheat, rape, oats or barley. Cover crops help use up the soil water supply and thereby check the growth of the woody plants. Woody fruit plants should have their stems and canes thoroughly matured and ripened to escape winter injury. Sheltered areas with rich soil and abundant soil water may be desirable for fruits such as strawberries but such areas should be avoided for tree fruits. Late fall growth on tree fruits on rich soil areas is responsible for more winter injury than low temperature.

BORDEAUX SPRAYS FOR POTATOES

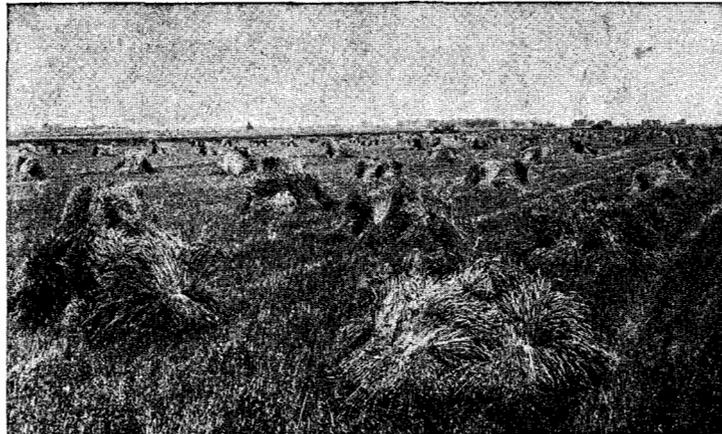
Bordeaux sprays are a boon to potato growers this year says Dr. A. C. Voegelé, new horticulturist at the Northwest School and Station. Recent rains, states Dr. Voegelé, have pushed potato plants into a succulent growth which combined with cool weather makes favorable breeding conditions for the late blight and rot of potato vines and tubers. A continued coating of the leaves with from two to five applications of Bordeaux will not only prevent injury from blight but will reduce injury from flea beetles and leaf hoppers to a minimum. Spraying tests over a period of years of average rainfall at the Northwest Station show an average increase of approximately twenty bushels per acre from three applications of Bordeaux spray to the potato crop.

An elaborate series of tests of com-
(Continued on Page 4, Col. 3)

THATCHER WHEAT YIELDS WELL

The performance of Thatcher wheat this year has been outstanding, according to R. S. Dunham, agronomist at the Northwest Experiment Station. Wheat at the station has not been threshed yet, says Mr. Dunham, but yields reported by farmers have run from 23 to 35 bushels per acre. It is not true, however, that Thatcher yields well only in years of heavy stem rust epidemics. Thatcher withstood the rust in 1935 and again this year so much better than Marquis, Reward, or Ceres that it yielded heavily by comparison but it has been a consistently good yielder in other years as well. Thatcher has been grown in the varietal plots at the Northwest Station since 1929. In only two of the eight years has Ceres outyielded it and in those two years only by 4.2 and 2.5 bushels respectively. Marquis has never outyielded it and Reward only once by 2.3 bushels.

Thatcher has its faults and improved varieties will take its place as time goes on. At present there is no variety of bread wheat in commercial distribution that is so dependable for yield, rust resistance, and milling quality. It is unwise to plant Thatcher late since any rust-resistant wheat is influenced by the conditions under which it is grown and late planting in bad rust



The performance of Thatcher wheat this year has been outstanding. . . Yields reported by farmers have run from 23 to 35 bushels per acre. . . Marquis has never outyielded it and Reward only once. . . Only small percentage of Red River Valley farmers seeded Thatcher wheat this year. . . Those who want seed next year should make their needs known early.

years is conducive to injury by rust. However, in trials at the Northwest Station this year, Thatcher planted as late as June first was not seriously injured by rust, and that planted May 15 was only slightly affected. About 70% of the plants in both the May 15 and June 1 sowings carried stem rust infection but the pustules were small and of the resistant type. Thatcher planted May 6 or earlier carried only a trace of stem rust, that planted May 15 carried up to 15%, and that planted June 1 carried as much as 50% on a few plants. Yields are not available at this time but will be reported later.

A very small percentage of the wheat
(Continued Next Column)

POULTRY CULLING RECOMMENDED

Now is the time to cull the poultry flock, says A. M. Pilkey, poultryman at the Northwest School and Station. Professor Pilkey states that "flocks which do not maintain fifty percent production should be checked at once and all poor layers and non-layers should be removed." According to Mr. Pilkey, not over forty percent of the farm flock should be kept over for a second year, and under present conditions the percentage of carry-over hens should be less than the figure indicated. It is poor economy to provide room for boarder hens, for boarder hens can be sold now at fair prices and the feed saved can be profitably used on the good laying hens. Marked improvement can be made in the farm flock by keeping over only the best hens providing of course outstanding breeding males are secured from reliable sources.

Poultry culling can be easily learned by any interested poultryman. Poultry culling schools and demonstrations are conducted annually throughout the Red River Valley by county agents and experts from the Northwest School and the University of Minnesota Extension service. Poultry culling bulletins may be secured from the Northwest School or Office of Publications, University Farm, St. Paul. A new and revised bulletin on poultry culling by Professor Pilkey is being printed at the present time and will be available for distribution at an early date.

THATCHER WHEAT YIELDS WELL

(Continued from Col. 2)
acreage in the Red River Valley was in Thatcher this year. If all wheat had been of this variety it would have increased the farm income by many thousands of dollars. It would seem only fair for those who have Thatcher seed to withhold it from sale in Canada and other states at least until Minnesota farmers have a chance to buy it, and those who want such seed should make their needs known early. Those with Thatcher cannot be blamed for selling outside the state if the need in this state is not made known early.

Those who plan to sow Thatcher next year should also plan on treating the seed with New Improved Ceresan. Some reduction in yield of Thatcher this year was due to root rot. Treating the seed may not eliminate this trouble but will control it. It would be safest also not to plant Thatcher on wheat, barley, or corn ground. For further information on Thatcher and root rot, write to the Northwest School for a Crops and Soils Handbook.

FOOTBALL PROSPECTS BRIGHT



Coach R. J. Christgau

Prospects for a winning team during the 1937 football season are exceptionally bright with many members of last year's squad expected to return to school this fall. Approximately fifty candidates will be on hand for the first official practice which will be held on the opening day of school, October 4. The squad will be further augmented by a large number of freshmen who will begin practices two days later thus giving Coach R. J. Christgau one of the largest football squads in the school's history.

Preliminary instructions and the official invitation to last year's squad members to be on hand for the first practice will be mailed by Coach Christgau upon his return to the campus after his vacation.

Ten letter-men from the 1936 championship team, headed by Captain Woodrow Evans, Gully, are expected to be on hand for the opening session. Ray Higgin, Bronson, quarterback; Morris Dahl, Kennedy, end; Lloyal Harris, Wadena, guard; Clifford Transrud, Badger, center; Ray Carlson, Middle River, tackle; Roy Carlson, Middle River, tackle; Truman Hemmesvedt, Goodridge, guard; John Rader, Warroad, tackle; and Jack Ferrier, Pitt, end, are 1936 letter winners who will return. In addition, Coach Christgau will again have the services of Tilford Strand, Ada, tackle, and letter man on the 1935 team. Strand will return to school after an absence of one year.

It is expected that many shifts in positions will be made by Coach Christgau. Of the eleven letter-men available, ten are linemen. Higgin, who earned his letter at the quarterback position is the only returning backfield veteran, the others having been graduated last spring. Christgau will not only turn to the large squad of reserves for backfield replacements but may shift some of the speedier and hard-driving linemen of last year to the backfield.

Reserve members from the championship 1936 squad who will return and fight it out with veterans for positions on the 1937 Eleven are: Harris Floan, Melvin; Russell Thieling, Grygla; Oray Tangen, Menahga; Vern Dahlgren, Kennedy; Wilhelm Hanson, Thief River Falls; Lester Knutson, Ashby; Elmore Bergh, Hallock; Edwin Mortenson, Wannaska; Daniel Wavra, Angus; Gehard Gandrud, Detroit Lakes; Allan Flaten, Terrace; Ray Sorvig, Red Lake Falls; and Silas Strand, Ada.

The tentative 1937 football schedule calls for the opening game to be played on October 9 with the Grand Forks High School Reserves offering the opposition. October 16 and 23 are open dates but will be filled before the season is underway. The Home Com-

(Continued on Page 4, Col. 3)

GRADUATES PAY ALUMNI ASSOCIATION DUES

Thirty-six members of the class of 1937 are included in the list of alumni who have paid the one-dollar Alumni Association fee. In accordance with the action taken by the association in 1936, admission to the organization as a regular member in good standing is approved upon payment of the one-dollar fee. From these dues and from one-half the proceeds of the summer reunion, the association voted to award annually two scholarships of \$25.00 each. Members of the junior and freshmen classes are eligible for the award which is based on contribution to class and school.

The following members of the class of 1937 have made payment of the one-dollar fee. Others are invited to forward the amount to the Alumni Association, in care of the Accountant, Northwest School, Crookston: Marlan Augustine, Thief River Falls; Jean Barret, East Grand Forks; Raymond Carlson, Middle River; Roy Carlson, Middle River; Morris Dahl, Kennedy; Cora Dalager, Pelican Rapids; Virgil Doble, Melvin; Patricia Durbahn, Angus; Dorothy Evans, Middle River; Marshall Evans, Middle River; Lois Haug, Oslo; Oliver Haugen, St. Hilaire; Lucille Hedlund, Gully; Delene Hegreberg, Ada; Myra Hoiseth, Crookston; Bernadette Jeffrey, East Grand Forks; Clifford Transrud, Badger; Elaine Johnson, Angus; Phyllis Johnson, Baudette; Clinton Johnson, Viking; Janet Krogstad, Fertile; Ruthellen Lindamood, Warroad; Udell Magnusson, Badger; Yvonne Magnusson, Badger; Ivy McVeety, East Grand Forks; Grace Olson, Halstad; John Patenaude, Red Lake Falls; Eugene Prestegaard, Erie; Orda Slettvedt, Oklee; Maynard Soderberg, Baudette; Harry Solberg, Erie; Clifford Stolan, Fosston; Alta Swenson, Fertile; Gladys Tangen, Menahga; Geline Tveiten, Trail.

IMPORTANT FALL TERM EVENTS

- October 4—Registration
- October 5—Classes Begin
- October 6—Boys' Pow-Wow and Girls' Frolic
- October 7—Class Meetings
- October 9—Football Game
YM-YWCA Reception to new students
- October 10—Faculty Sacred Music Recital
- October 16—Outdoor Festival
Football Game
- October 23—Football Game
- October 30—Homecoming
Football Game
- November 5—Football Game
- November 6—Parents' Day
- November 11—Football Game
- November 25—Thanksgiving Day
Dinner and Exercises
- December 20—Annual Inter-Class
Song Contest

1937 FOOTBALL CAPTAIN



Introducing Woodrow Evans, Gully, Minnesota, captain of the 1937 Northwest School football team. Began football career in first year (1934) as member of freshman class team. . . Served apprenticeship (1935) on reserve squad. . . Won guard position on 1936 championship eleven. . . Awarded football letter and honored by teammates with captaincy for 1937. . . A mainstay on strong Aggie line. . . Stands six feet tall. . . Weighs 175 pounds.

Honor roll student for three years. . . Vice president of his class last year. . . Editor of school annual, Red River Aggie, in 1937. . . Guard on basketball team earning letter in that sport. . . Will head large squad of candidates reporting for first practice Monday, October 4.

1937 CROSS-COUNTRY CAPTAIN



Introducing Werner Weindorf, Jordan, Minnesota, captain of the 1937 cross-country team. . . Squad starts practice Monday, October 4. . . Returning veterans: Glenn Brandt, Gonvick; Leonard Anda, Perley; Harold Anderson, Mahnomen; Clarence Klug, Barnesville. . . New students invited to try-out. . . Schedule probably to include meet with each home football game.

Weindorf received winged-foot award last year. . . Active also in class basketball. . . Music (mixed chorus and glee club). . . Dramatics. . . School annual. . . Class cheer leader. . . Completes Northwest School career at end of coming year.

PERSONALS

***Carl Narveson, '20, is attending the University of Minnesota summer session where he is working for his Master's Degree. In the fall, he will resume his position as superintendent of schools at Lake Park, Minnesota.

***Miss Grace Warne, an instructor in the English Department at the Northwest School, received her Master of Arts Degree at the University of Minnesota on July 22.

***Announcement has been made of the approaching marriage of Miss Lois Lohn, Crookston, to Mr. Howard Myster of Drayton, North Dakota, on Saturday, August 28, at 4:00 P. M., in the Methodist Episcopal Church of Crookston. Both Miss Lohn and Mr. Myster were on the Northwest School teaching staff during the past school year.

***An informal reception honoring Dr. and Mrs. A. C. Voegelé was held at the home of Superintendent and Mrs. T. M. McCall on the evening of August 6. Resident staff members of the School and Station and their wives joined in welcoming the Voegels to the Northwest School campus. Dr. Voegelé assumed his duties as horticulturist at the Station on July first.

***George Berggren, '28, has been appointed manager of the Northern Farmers Cooperative Exchange, a cooperative seed buying establishment, at Williams. He has resigned his position as county agent of Lake of the Woods county.

***Margaret Lerud, '34, Twin Valley, is employed this summer at the Sise-Mahagah Lodge at Deerwood, Minnesota. She plans to return to the University of Minnesota in the fall.

***Delsie Filipi, Tabor, was named 4-H health champion of West Polk county recently. She will receive a free trip to the State Fair next month where she will compete in the state-wide 4-H health contest in which champions from the various counties in Minnesota will compete. Delsie will be a member of the senior class this fall.

***Jerome Molacek, '34, Bemidji, is employed by the David Parks Creamery Company, Bemidji.

***Kenneth Halvorsen, '25, Gary, returned on August 7 from Tacoma, Washington, where he has been attending the summer session at the University of Tacoma.

***Edwin Widseth, '32, McIntosh, is now in Chicago to practice with the All-Americans selected to participate in the annual all-star football game to be played at Soldier's Field, Chicago, on August 31. He polled the highest number of votes of all college tackles, completing their football careers, who received ballots in a nation-wide poll.

***Richard Johansen, '34, is now employed as brakeman in the Mesaba division of the Great Northern Railway company with headquarters at Superior, Wisconsin.

***Carl Ecklund, '11, visited the campus on July 29. He is working with the Resettlement Administration in the purchase of submarginal land in Richland and Renslan counties of North

Dakota. He reported that H. R. Danielson, former instructor at the Northwest School, is in general charge of the land purchases for the Resettlement Administration with headquarters at Lisbon, North Dakota.

***RECENT CAMPUS VISITORS: Mr. and Mrs. Lawrence Harstad (Lawrence 1929-'31), Minneapolis, on August 10; Melvin Minske, '26, Kennedy, August 6; Robert Nelson, '25, Gladstone, Oregon, on August 6; Mr. and Mrs. Harvey Hoberg, Bemidji, (Mr. Hoberg a former instructor at the school), on August 12; Richard Johansen, '34, on July 23.

***Elmer C. Johnson, '29, has recently accepted a position as manager of the Beaver Creek Farmers Elevator Company at Beaver Creek, Minnesota.

MARRIAGES

***Miss Ruby Lundin, 1931-'32, Stephen, to Mr. Ingolf C. Swanson, '31, Alvarado, at Stephen, on Friday, June 25. They will make their home at Cass Lake, Minnesota.

***Miss Joyce Peoples to Mr. Archie N. Northup, '33, Hawley, at Sisseton, South Dakota, on Tuesday, June 15. They will make their home at Detroit Lakes, Minnesota.

***Miss Shirley Baker to Mr. Floyd Tack, '34, East Grand Forks, on Sunday, June 6, at East Grand Forks.

***Miss Laura E. Bode to Mr. Arthur Peterson, '26, at Bagley, on June 2.

***Miss Belva Holm, '36, Climax, to Mr. Homer Collison of Grand Forks, North Dakota, on Saturday, June 26.

EXPECT LARGEST ENROLLMENT IN SCHOOL HISTORY

(Continued from Page 1, Col. 1)

dents can, through service at home during the six months of the growing season, contribute much more to the family income than the cost of their schooling for the other six months of the school year. Another parent stated that their children had to spend an average of two hours per day in transit to and from school, which for each student was a total of 360 hours for the nine months or forty-five eight-hour days.

Admission

The Northwest School is a vocational school offering unusual opportunities to the young men and women of Northwestern Minnesota. All who have completed the eighth grade are eligible to attend. Those who have not completed the eighth grade may attend only if they are sixteen years of age or over. A diploma is given upon the successful completion of three years work together with the home project assignments. Students who wish to continue their educational training may return for a fourth or college preparatory year, following which they are eligible to enter any college or university in the state. Students who lack only a few credits for college entrance may attend the Northwest School to earn the necessary credits and take special work in the various departments. Many high school graduates attend each year for special training in agriculture, home economics, business training, and music.

RECORD ATTENDANCE ON CROPS AND SOILS DAY

(Continued from Page 1, Col. 3)

Crested wheat grass, slender wheat grass, brome grass, meadow fescue, Reed canary grass, meadow foxtail, and Kentucky bluegrass sown alone and mixed with alfalfa or sweet clover were shown in the fields as both pasture and hay crops.

Thirty-eight lots of seed flax from Polk county farmers planted in separate plots on wilt-sick soil showed varying degrees of wilt resistance.

The organized tour of the horticultural plots included the gardens, nursery, experimental orchards, and a few of the potato projects. The sugar beet work, potato breeding, and many of the potato variety increase plots, while not on the organized tour, were seen on special side trips at the close of the main tour of plots. The potato work seen on the tour included the depth of planting tests in which both treated and untreated seed were planted at various depths, distance of spacing test in which whole 4 oz. potatoes were compared with cut seed at the different distances, potato varieties, fertilizer tests, deep tillage experiments in which land subsoiled 12 inches was compared to land plowed 5½ inches deep, spraying tests in which liquid and dry sprays were compared, tuber indexing and tuber unit planting.

A full line of garden crops varieties were seen on the tour. The tomato breeding and variety work, in which twenty-two varieties and selections were grown, were of particular interest to all visitors.

Two hundred and fifty men made the tour of the fields and one hundred and fifty women and children enjoyed the picnic on the grounds. The swimming pool proved very popular to the young folks.

BORDEAUX SPRAYS FOR POTATOES

(Continued from Page 2, Col. 1)

mercial Bordeaux dusts and liquid Bordeaux sprays are underway at the Northwest Station this year. These tests are being made on both early and late varieties. High pressure traction dusters and liquid sprayers are being used in the tests. The spraying tests are but one of the many features of the potato work at the station.

FOOTBALL PROSPECTS BRIGHT

(Continued from Page 3, Col. 1)

ing game will find the Grand Rapids Aggies invading the Northwest campus on Saturday, October 30. The Mahnomen High eleven is booked for a game at Mahnomen on Friday, November 5. The season's finale will be played at Morris against the West Central Aggies on November 11.

Many candidates for next year's team have already begun pre-season workouts and hope to report for practice ready to capture a place on the 1937 team.

FOR SALE: White Leghorn cockerels from trap-nested parentage. Write Northwest School and Station, Crookston, Minnesota.