

Northwest School News

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NUMBER 3

Advisory Council Visits the Northwest School

Special attention was focused on the agricultural problems and potential of the Red River Valley on August 22 when the University of Minnesota, Institute of Agriculture Advisory Council met at the Northwest School and Experimental Station for their summer meeting.

The council is made up of representatives of general farm groups, commodity and producer organizations, and from the public-at-large. This group advises the Institute of Agriculture on its teaching, research, and extension programs. Dr. F. W. Gehrman, veterinarian from Wayzata, is the chairman.

West Polk County Agricultural Agent Carl Ash, and B. E. Youngquist, superintendent, reviewed general agricultural problems and research needs in the Red River Valley at the morning session. This was followed by a tour of the Northwest Experiment Station. The afternoon was spent in touring a portion of the Red River Valley to point out specific research problems and to emphasize certain aspects of the production potential in the Red River Valley. Graduates of the Northwest School figured strongly in the afternoon tour in that stops were made on the farms of Veral Gibbons, Armin Ross, and Elmer Hedstrand, all of whom have attended the Northwest School of Agriculture.

The members of the Advisory Council include: Clarence Myers, Blue Earth, Minnesota Farm Bureau; Clinton Hess, St. Paul, Minnesota Farmers' Union; William B. Pearson, Ogilvie, Minnesota State Grange; F. L. Mitchell, Canby, Minnesota Crop Improvement association; D. T. Carlson, Willmar, Minnesota Dairy Industry committee; Clem Thurnbeck, Forest Lake, Minnesota Poultry Industry, council; L. W. Wilson, Owatonna, Minnesota Livestock Breeders' association; Lloyd Bachman, Minneapolis, Minnesota State Horticultural society; Ann Krost, Minneapolis, Minnesota State Home Economics association; F. W. Gehrman, Wayzata, Minnesota State Veterinary Medical society, Theodore Hegseth, Fergus Falls, Minnesota Association of Soil Conservation Districts; George Amidon, International Falls; Kenneth Law, Hastings; S. B. Folsom, Minneapolis; Mrs. O. M. Bol-lum, Goodhue; Donald Brown, Waseca; V. M. Gibbons, Crookston; and Philip Pillsbury, Minneapolis. Dr. H. J. Sloan, director of the University's Agricultural Experiment Station, serves as executive secretary of the group.

Speakers on the morning program were B. E. Youngquist, superintendent of the Northwest School and Experiment station, and Carl G. Ash, West Polk county agricultural agent, Crookston.

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Two New Instructors Appointed to NW School Staff

The Northwest School will open for the fall term with registration of students on Monday, September 29.

Two new instructors have been appointed to fill the vacancies created by the resignation of former staff members.

Ralph Titus of Enderlin, North Dakota, has been appointed as instructor and will teach freshmen algebra, plane geometry, and high algebra. He will serve as residence counselor of Stephens Hall. Mr. Titus attended the North Dakota Agricultural College,



R. Titus

Fargo, for one year and later enrolled at the University of North Dakota, Grand Forks, where he received his Bachelor degree from the University in August, 1958. He has served in the U. S. Navy. Mr. and Mrs. Titus and their two children will live on the Northwest School campus.

Leon E. Flancher, of Crookston, has been appointed as instructor in third year English. He will be an adviser to the Student Council and assist the residence counselor of Stephens Hall, boys' dormitory. Mr. Flancher received his Bachelor of Arts degree from Concordia College, Moorhead, in June, 1958.



L. Flancher

ENROLLMENT OVER CAPACITY AGAIN AT NW SCHOOL

The enrollment at the Northwest School for the coming school year, which opens on September 29, will be just over 400 students, according to E. N. Reiersgard, principal. The number of girls is up by five over last year for a total of sixty-seven. Currently, there are 76 freshmen, 109 sophomores, 118 juniors, and 94 seniors. A few more registrations are expected by the time classes begin on Tuesday, September 30.

All students will register beginning at 8:30 a.m. on Monday, September 29. Special orientation activities for new students are scheduled for Monday afternoon as well as an all-school mixer

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Homecoming Scheduled for October 31

Homecoming for Northwest School alumni, former students, and faculty members has been scheduled for Friday, October 31. Preliminary plans for Homecoming include the rally and pep-fest on Thursday evening, October 30; Homecoming assembly at 10:00 a.m., and the Homecoming football game with the Morris Aggies at 2:00 p.m. on Friday.

The Homecoming dance will be held in the gymnasium on Friday evening beginning at 8:00 o'clock. The Jimmy Dunn Orchestra of Grand Forks, North Dakota, will play for the dance.

By E. N. Reiersgard, Principal

NW School Students Attend Leadership Camp

The fourth annual School of Agriculture Leadership Camp was held at Itasca State Park on September 6, 7 and 8. Northwest School students attending the camp this year were: Ethelyn Brandli, Warroad; Roger Odegaard, Crookston; Ronald Johnson, Stephen; Robert Wald, St. Hilaire; Mary Ruth Saxman, Georgetown; Penny Hedstrand, East Grand Forks; Judy Kresl, Angus; Marilyn Jahnke and Philip Bohnsack of Hillsboro, N. Dak.; Bette Hovet, Thompson, N. Dak.; and Lyall Bjornson, Arvilla, N. Dak. Northwest School staff members who attended were: Superintendent and Mrs. B. E. Youngquist, Mrs. Myrtle Brown, Miss Marion Parbst, Leon Flancher, and E. N. Reiersgard.

The Conference program consisted of panel discussions on leadership, how to use time effectively, should smoking be allowed on campus, should we have more study halls of supervised study for the slower students, the use of cars, etc. The entire program was under student leadership. The students were divided into six groups with each group electing a chairman and secretary. Ruth Saxman, Ronald Johnson and Penny Hedstrand from the Northwest School were elected leaders of their respective groups.

The group took a ride on Itasca Lake from Douglas Lodge to the headwaters of the Mississippi river in a large launch carrying the entire group. A social hour was held on Saturday evening, and all attended church on Sunday morning. Many short trips were made through the wonderful pines enjoying the wonderful scenery. The camp closed on Monday noon with a talk on Leadership by Dr. T. H. Fenske, associate dean of the Institute of Agriculture, University of Minnesota.

The four regional Schools of Agriculture (continued on page 4, col. 1)

Northwest School News

Issued Quarterly by
THE UNIVERSITY OF MINNESOTA
NORTHWEST SCHOOL OF
AGRICULTURE

B. E. Youngquist, Superintendent
Office
Northwest School and Exp't. Station
Crookston, Minnesota

Robertson Hall to Be Ready for Opening of School

Additional Building in Progress

Upper classmen will find an entirely new home awaiting them when they enroll on September 29 for the completion of their studies at the Northwest School. At this date, it appears certain that Robertson Hall will be completed and that most of the new equipment will be at hand so that the dormitory can be occupied.

The warped splintering floors have been replaced with an underlayment of plywood and tiled throughout the building. All walls have been re-lathed, re-plastered, and re-painted. Old closets have been torn out and replaced with built-in wardrobes and study desks. The windows have been replaced with smaller paned sections. The old bathrooms were completely taken out and new bathrooms installed with ceramic tile finish throughout and two sets of showers on each floor. Improved quarters have been provided for the head dormitory counselor and the assistant dormitory counselor.

The framework is complete on the new classroom building. The brick layers will soon be on the job so this building will be encased and the inside work can be finished during the winter months.

The new seed house has been completed for some time and has been in use since last February. Plans are completed for the beef feeding barn and for the turkey pole barn and will be built by November 1. The contract has been let to complete the swine barn by the first of December. Plans are about complete for the horticultural tool and workhouse and this will be completed this fall.

This all has added up to a very busy building season at the Northwest School during the past year and will continue the next few months.

Dairy Cattle Must Produce Milk and Information

In order to fulfill their duty at the Northwest Experiment Station, the dairy cattle must produce two products—milk and information. The milk comes as a result of proper breeding, feeding and management while the information is obtained from properly designed research experiments. If a cow does not produce at a profitable level (approximately 350 pounds of butterfat in 305 days) then she is removed from the herd. If the dairy herd does not yield information, the experiment station needs to take a second look.

The registered Holstein dairy cattle at the Northwest Experiment Station are being utilized in a number of research projects designed to obtain information which should help answer some of the dairymen's questions.

Plans have just been completed to utilize the herd in a long-term breeding experiment in cooperation with the U. S. Department of Agriculture. An attempt is being made to fix genetic characteristics by linebreeding. After genetic characteristics are fixed, an attempt will be made to obtain hybrid vigor by crossing diverse lines of cattle from various parts of the country. Frozen semen is being utilized in this project.

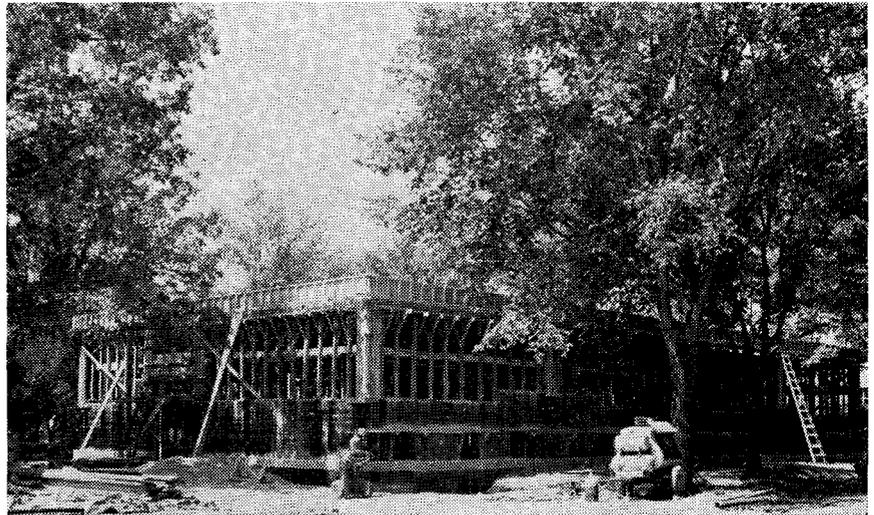
Part of the herd is being used on a "heat" recycling experiment. That is, the heat periods are being changed by the use of hormones. The purpose of this experiment is to determine whether or not recycled cows are fertile. This is an important question because recycling is a necessary step in our present technique of attempting to transfer ova from one cow to another.

All first service cows are being utilized in a pregnancy diagnosis experiment. This is an exploratory project to see whether a hormone can be used to diagnose pregnancy in cattle. A small amount of the female hormone is being injected on the nineteenth day after breeding, and if the cow does not come in heat, she is diagnosed pregnant.

Solids-not-fat-tests are being run once a month on the milk produced by each cow. The tests are being conducted by the University's Dairy Department in St. Paul. More emphasis is being placed on the solids-not-fat portion of the milk and therefore it is important to investigate procedure for testing for solid-not-fat, factors which affect solid-not-fat-test, inheritance of solid-not-fat, and so forth.

This summer, the milking cows are on a dry-lot versus rotational pasture feeding experiment. The herd was split

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The new classroom building at the Northwest School takes shape between the old Hill Building and Selvig Hall. The contractor expects to have it completed for use early in 1959.

Large Turnout Expected for 1958 Football Season

From advanced reports, a large turnout is expected at the Northwest School for the opening football practice session on September 22. By the time school starts, the squad should number close to eighty huskies. The boys on this year's Aggie team have a difficult schedule arranged for them. They have already started conditioning at home because they are out to match and improve the high standard of play set by last year's championship squad.

Fifteen lettermen—six being regulars, plus last year's strong freshmen squad, are expected back.

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Class Members of '26, '27, '28 Hold Reunion

The second annual reunion of members of Northwest School graduating classes 1926, 1927, and 1928 (women members only) was held on July 26 at the home of Mrs. Grant Hermanson (Hannah Degerness) at Gary, Minnesota. Twenty class members were present for the reunion, including: Mrs. Gerald Lindquist (Adeline Bunes), Crookston; Mrs. James McDonald (Ruth Hanson), Proctor; Mrs. John Marko (Ruth Soltis), Minneapolis; Mrs. Erwin Bauer (Erma Ross), Fisher; Mrs. Allen Miller (Laura Buck), Crookston; Mrs. Alvin Burstad (Sophie Breiland),

(continued on page 4, col. 3)

**** **Northwest School Briefs** —News Regarding Northwest School Alumni ****

(Continued from page 2)

*** J. Reuben Thompson, '39, formerly of Underwood, visited the campus on September 18. He is on the faculty of the University's Southern School of Agriculture, at Waseca, with the position of agronomist.

*** Neil Wogsland, '54, of Fosston, visited the campus on June 30. He has served as staff sergeant in the U. S. Air Force and stationed at McClellan Air Force Base for three and one-half years. He will complete his period of service this fall.

*** Paul Engelstad, '16, Thief River Falls, was named president of the Red River Valley Potato Growers' Association at their annual meeting held recently in Grand Forks, North Dakota.

*** William Vasilakes, '42, will teach science in the high school at Fertile, Minnesota, this coming school year. He recently returned from a year at Stanford University, Stanford, California, where he was studying for his Master's Degree. He taught in the high school at Fertile for two years previous to attending Stanford University.

*** Margie Iwen, '55, of Wheatland, North Dakota, will teach physical education at the Fertile High School this school year. She is a graduate of Mayville State Teachers College.

*** Lyall Bjornson, Arvilla, North Dakota, was top individual demonstrator at the annual North Dakota Dairy Show held in Jamestown recently. He will represent North Dakota at the International Dairy Congress at Chicago.

*** Dr. LeRoy Hanson, '41, formerly of Hallock, visited in Minnesota in August. Dr. Hanson is now taking post graduate work in Orthopedics (bone surgery) and will specialize in that work. He is presently assigned to the staff of the Shrine Hospital for Crippled Children at Houston, Texas.

*** Pvt. Raymond W. Anderson, '58, of East Grand Forks, is receiving his basic training at Fort Carson, Colorado, after entering service recently. His address: Pvt. Raymond W. Anderson, RA 175 248 895, Co. A, 1st B. G., 47th Inf., Ft. Carson, Colorado.

*** Captain Woodrow W. Evans, '38, was recently awarded the U. S. Air Force Commendation Medal at Elgin, AFB, Florida. Captain Evans, assigned to the Directorate of Air Defense Systems Test at APGC was cited for meritorious service performed during the period November 1956, and December 1957. At this time he served as test project officer at APGC, on a program involving a new air defense computer system. He is a resident of Valparaiso, Florida.

*** Dr. Peter Fehr, '50, formerly of East Grand Forks, is serving as a medical missionary to the Cameroons, Africa, and stationed at the Benzo Hos-

pital in the Cameroons. He and his family visited in Minnesota in August and left September 4 for Africa.

*** Maynard Helgaas, '53, formerly of Beltrami, visited the Northwest School campus on August 25. He graduated from the North Dakota Agricultural College in 1957, and is now serving as 4-H club agent for the Extension Service of the University of Minnesota. He is serving in Clay county with his office in the Court House building, Moorhead, Minnesota.

*** Einar Eilertson, '25, visited the Northwest School campus on August 26. He teaches German and Russian at Carroll College, Waukesha, Wisconsin.

*** Bertrum Johnson, '35, visited the campus on August 26. He is making his home at 1873 North Pascal, St. Paul, Minnesota.

*** Miss Anne Simley, associate professor of speech and dramatics at Hamline University, St. Paul, was named associate professor emeritus by the college's board of trustees upon her retirement in June, 1958. A member of the faculty since 1930, she had been chairman of the speech and dramatics department since 1950. Beginning July 1, she assumed her new duties as advisor to member schools in the Minnesota High School league, speech activities division. Miss Simley was an instructor in English and speech at the Northwest School of Agriculture from 1922-23 through 1929-30.

*** Harold Qualley, '41, visited the campus on June 6. He is employed at Lakefield, Minnesota.

*** Earl Sulerud, '30, formerly of Gary, recently received the "distinguished service award" from the National Association of County Agricultural Agency. He was presented the award at the association's annual meeting held in Seattle, Washington, on September 5. He has been county agent in Ransom County, with headquarters at Lisbon, North Dakota, since 1942. Sulerud is 1958 president of the North Dakota County Agents' association.

*** Pvt. Richard Dufault, '55, completed basic training at Fort Carson, Colorado. He recently enlisted in the Army for three years. He was assigned to guided missile school at Apco, Ohio. His address: Pvt. Richard P. Dufault, 76th AAA, Gp. Ravena Ars, Apco, Ohio.

*** Larry Kresl, '57, of Angus, was named grand champion showman at the 9th annual Northwest Dairy Show at Thief River Falls on June 10. He also took the purebred grand champion award with a two-year old Holstein heifer.

*** Marilyn Balstad, '55, of Fosston, has been employed as 4-H club assistant in Clearwater county during the summer months. This coming year, Marilyn will be registered as a senior at the University of Minnesota, majoring in

Home Economics.

*** Adelle Larson, '54, of Twin Valley, graduated cum laude from Northwestern College, Minneapolis, in May, 1958.

*** Laurie Mykleby, '52, of Eldred, received his bachelor of business administration degree from the University of Minnesota June 14. On July 7, he started his employment with the Wood Conversion Company, St. Paul, as an industrial sales trainee in Chicago.

*** Eugene Paschke, '58, of Hamilton, North Dakota, is in the U. S. Navy Air Corps. His address: AA 5202129, Company 28, Bldg. 64, NATTCN, Norman, Oklahoma.

*** John Welberg, '56, visited the campus on July 17. He is a weather observer with the 31st Air Division St. Paul 11, Minnesota (Box 256).

*** Mrs. Douglas Baurassa (nee Olga Kowaliuk), '45, is enrolled at Bemidji State Teachers College where she is completing her work for a four-year degree in Elementary Education. Her home address: 2081 F Folwell, Grove East, University Village, St. Paul, Minnesota.

Marriages

*** Miss Millicent Lemickson of Lakefield to Harold Qualley, '41, at Lakefield on June 8. They are living in Lakefield, Minnesota.

*** Miss Leona Peterson of Park Rapids to Marvin Magsam, '57, at Park Rapids on May 10. They are living at 31 N. Snelling Ave., St. Paul, Minnesota.

*** Miss Geraldine Kopecky, '57, of Tabor to Stanley M. Jones of Grand Forks, North Dakota, on July 19, at East Grand Forks.

*** Miss Jean Cariveau to William Moser, '56, of Brooks, on May 30, at East Grand Forks.

*** Miss Marlys Ann Molsknes, '56, of Crookston, to Dellwin C. Holmgren of Minot, North Dakota, on June 14, at Crookston. They are living at 591½ Maple Street, Minot, North Dakota.

*** Miss Donna Ostgaard of Crookston to Leon Thoreson, '56, of Climax, on June 20. They are making their home on a farm near Climax, Minnesota.

*** Miss June Gilbertson of Niagara, North Dakota, to Ralph Jensen, '53, of Niagara, North Dakota, on June 29.

*** Miss Beverly Berggren of Karlstad to Carroll J. Lindstrom, '49, of Argyle, on June 28, at Karlstad.

*** Miss Rose Marie Johnson, of Herman, to Rollis Balke of Crookston, on September 6, at Herman, Minnesota. Mrs. Balke is an instructor in muisc at the Northwest School.

*** Miss Patricia Hultin of Red Lake Falls to Albert W. Hoglund, Jr. '54, on August 9, at Crookston.

*** Miss Marlene Paulson of Foss-

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ADVISORY COUNCIL VISITS THE NORTHWEST SCHOOL

(Continued from page 1)

Superintendent Youngquist pointed out the following trends in the Red River Valley agricultural picture:

* The number of farms is decreasing faster here than in the rest of the state. Nearly all Northwest counties have exceeded the state decrease of 5.3 per cent in the last two years.

* The area is losing population, while the state as a whole is gaining. In the period, 1950-57, Minnesota gained 11.3 per cent while northwestern Minnesota lost 4 per cent in population.

* The size of Valley farms is increasing faster than those of the state. The middle-sized farm in the Red River Valley is over 400 acres compared to the state average of 208.2 in 1957 and 182.9 in 1946.

* A larger percentage, 45 per cent, of people live on farms than the state average of 17.9 per cent.

* A large part of the Valley's farm income comes from crops. About 75 per cent comes from crops and 25 per cent from livestock. The state as a whole derives two-thirds of its farm income from livestock and livestock products and one-third from crops.

Superintendent Youngquist also reported that the leading crops from the standpoint of dollar income for the Red River Valley in 1957 were: wheat, oats, hay, barley, potatoes, sugar beets, corn, and soybeans.

In discussing the problems of the Red River Valley, West Polk county agent Carl Ash told the group that "food production potentials of the Valley soils have hardly been touched."

"We need basic research for our types of soils on chemical and cultural weed control. Cultural weed control especially needs further exploration," he said. Mr. Ash also pointed out that lime chlorosis is a serious problem on both heavy and light soils. It reduces the yields of cereal and horticultural crops and causes winter injury to plants, trees and shrubs.

"Generally, we need to know more about the reaction of common plant elements in our soils of the Valley," he said. Mr. Ash also pointed to the need for even more training for farmers. He said. Today's and tomorrow's farmer must have practical training in the fields of chemical, mechanical and electrical engineering if he is to prosper. This training must be in addition to high school and college."

NW SCHOOL STUDENTS ATTEND LEADERSHIP CAMP

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ture were represented by a total of forty-one leaders plus staff members who served as camp directors and counselors.

By E. N. Reiersgord, Principal

Plan to Attend Homecoming

NORTHWEST SCHOOL BRIEFS

(Continued from page 3)

ton to Raymond Baatz, '55, of Crookston, on June 7. They are making their home at Biwabik, Minnesota.

Births

*** To Mr. and Mrs. Orville Lee (nee Edith Bergeson), a son, on July 1. They live at Fertile, Minnesota.

*** To Mr. and Mrs. Gerhard Ross of Fisher, a son, on July 29, at Crookston.

*** To Mr. and Mrs. Verdie Peder-son, Fertile, a daughter on June 2, at Crookston.

*** To Mr. and Mrs. Elvin Moran, of Crookston, a daughter on June 2, at Crookston.

*** To Mr. and Mrs. Lowell Hamrick of Warren, a daughter on June 3, at Crookston.

*** To Mr. and Mrs. Ardell Greskowiak (nee Georgina Earle), of Crookston, a son, on September 2.

*** To Mr. and Mrs. Kenneth Gruhot, of Argyle, a daughter, on September 2, at Crookston.

*** To Mr. and Mrs. Richmond Lapp of Grafton, North Dakota, a son, on June 19.

*** To Mr. and Mrs. Harold T. Ash, of Chicago, a daughter, on August 5. They are making their home at 13240 Avenue F, Chicago 33, Illinois.

*** To Mr. and Mrs. Duane Wimpfheimer, Euclid, a daughter, May 1958.

*** To Mr. and Mrs. Kenneth Miller, Crookston, a daughter, March 1958.

*** To Mr. and Mrs. Anton Filipi (nee Jeanette Love) of Angus, a daughter, on January 24, at Grand Forks, North Dakota.

*** To Mr. and Mrs. John Kosmatka (nee Carol Soltis), a daughter, on April 27. Their address: 901 Mero Court, East Grand Forks, Minnesota.

*** To Mr. and Mrs. William Kosmatka (nee Ann Lizakowski), of Minot, North Dakota, a daughter, on March 25.

*** To Mr. and Mrs. Roger Vind of Crookston, a daughter, February 1958.

Death

*** Wilfred Moser of Roseau, class of '55, died June 6, at Roseau.

ENROLLMENT OVER CAPACITY AGAIN AT NWS

(Continued from page 1)

for Monday evening. Classes will begin at 8:15 a.m. on Tuesday, September 30. The first all-school assembly is scheduled for 10:00 o'clock, September 30.

A pre-school conference is scheduled for members of the teaching staff on Friday, September 26, at which time the staff will make specific plans for the coming school year as well as confer on the general problem of improving instructional service at the Northwest School of Agriculture. Professor J. E. Verrill of the Duluth Branch of the University will address the group on "The Intangibles in Education."

LARGE TURNOUT EXPECTED FOR 1958 FOOTBALL SEASON

(continued from page 2)

Backfield returning lettermen are: Co-Captain Terry Dahl, Stephen; Co-Captain Arnold Brummond, Oakes, N. Dak.; Dean Hinkle, Cavalier, N. Dak.; Richard Moe, Beltrami; Kenneth Steinke, Hamilton, N. Dak.; Fred Eisenhardt, Kelso, N. Dakota. Returning linemen are: Richard Danielson, East Grand Forks; Dale Driscoll, East Grand Forks; Curtis Ellingson, Reynolds, N. Dak.; Roger Larson, Beltrami; Thomas Novak, Angus; Dale Shanks, Bathgate, N. Dak.; Norman Sheldon, Bagley; Lawrence Peterson, Lockhart; and Robert Wald, St. Hilaire.

1958 Football Schedule: October 2—Warren, Here; October 7—Hawley, There; October 10—Oak Grove, Fargo, There; October 15—Glyndon, There; October 22—Bagley, Here; October 31—Morris, Here (Homecoming); November 7—Grand Rapids, There.

By Herschel H. Lysaker,
Athletic Director

CLASS MEMBERS

HOLD REUNION

(continued from page 2)

Thief River Falls; Mrs. Harvey Patten (Alice Parnow), Thief River Falls; Mrs. Ralph Erickson (Helen Hovland), Duluth; Mrs. J. W. Love (Amber Osterloh), Euclid; Mrs. Ralph Helm (Doris Olson), Fertile; Mrs. Vivian McCrum (Vivian Olson), Thief River Falls; Mrs. C. A. Lillequist (Edythe Martinson), Hallock; Mrs. Clifford Berhow (Gertie Dale), Fertile; Mrs. Lee Erickson (Hilda Dale), Fertile; Mrs. Jack Sharpe (Helen Gullingsrud), Shelly; Mrs. Dudley Winslow (Amy Onneland), Arvilla, N. Dak.; Mrs. Carl A. Olson (Esther Viker), Fertile; Ruth Hamre, Fertile; Clara Gunufson, Fertile; and Mrs. Grant Hermanson (Hannah Degerness).

By Mrs. Gerald Lindquist

DAIRY CATTLE MUST PRODUCE MILK AND INFORMATION

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into two comparable groups. One-half of the herd is on rotational pasture while the other half is fed alfalfa hay and grass silage in the dry-lot. Both groups are receiving grain according to production. Accurate measures of weight changes and milk produced are being kept while rough estimates of feed utilized and time consumed are being recorded. So far, there is very little difference between the two groups in milk production.

All of the dairy research projects are being conducted in cooperation with the University's Dairy Department. An effort is being made to investigate area problems as well as problems that fit into the total research program of the University of Minnesota.

As the information becomes available from the dairy research projects, it will be published.

By Edward C. Frederick,
Dairy Specialist