

Northwest School News

Six issues published annually by the Northwest School of Agriculture, University of Minnesota, Crookston. Entered as second class matter, December 2, 1916, at the Post Office at Crookston, Minnesota, under the Act of August 24, 1912.

VOLUME XL

Crookston, Minnesota, June-July, 1956

NUMBER 4

50th ANNIVERSARY PROGRAM AND ALUMNI REUNION HELD JUNE 30

Alumni Dedicate New Organ to Retiring Superintendent
T. M. McCall and Mrs. McCall

A program, featuring the 50th anniversary of the founding of the Northwest School of Agriculture of the University of Minnesota, Crookston, was held as a part of the annual Alumni Reunion day at the Northwest School on Saturday, June 30. 400 or more alumni and friends attended the afternoon Anniversary program held in the school auditorium.

Ole A. Flaata, '16, of Fisher, presided at the meeting. The program opened with remarks and a welcome from Herman F. Skyberg, '16, of Fisher, a member of the Board of Regents of the University of Minnesota. Dr. T. H. Fenske, associate dean of the Institute of Agriculture, University of Minnesota, St. Paul, extended greetings and also introduced Superintendent-elect B. E. Youngquist. Superintendent T. M. McCall gave a brief resume of his forty-five years at the Northwest School (a copy of which is printed in this issue of the "News" for your keepsake).

Vocal soloists for the afternoon program were two alumni, Charles Holmquist, '52, of Beltrami, and Kenneth Miller, '46, of Crookston.

The Honorable Harold Thomforde, mayor of Crookston, spoke for the city of Crookston, and Wm. Strickler of Euclid, an alumnus, and newly-elected president of the Red River Valley Livestock Association, represented that organization. Congratulatory messages and telegrams for retiring Superintendent T. M. McCall and Mrs. McCall were read by Paul Engelstad, Ole Flaata, and Howard Balk. These had been received from alumni and friends of the McCalls who were unable to be present for the anniversary program.

Also as a surprise to Superintendent and Mrs. McCall was the presentation of a portrait, in color, of Mr. McCall. This was given to the school by the classes of '56, '57, '58, and '59.

Special awards were presented by Mr. Ole Flaata on behalf of the Northwest School Alumni Association. Alton Knutson, '42, of Yaizu City, Japan, received the award for coming the greatest distance to attend the program; Julius Paulsrud, '10, Nielsville, received the award for representing the oldest class present; and Mr. and Mrs. H. C. Grotte (Dorothy Didrickson, '52) of Minneapolis, received the award for the most recently married couple.

Following the 50th Anniversary program, a dedication program was held. The Northwest School Alumni Association presented a Baldwin electric organ to the Northwest School. This organ was dedicated to Superintendent and

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In attendance at the 50th Anniversary and Alumni Reunion Program on June 30 were the retiring superintendent and new superintendent-elect of the Northwest School. Reading from left to right: Retiring Superintendent T. M. McCall, Mrs. McCall, Superintendent-elect B. E. Youngquist, and Mrs. Youngquist.

600 Club Members Attend 4-H Week

A total of 600 boys and girls, members of 4-H clubs of the Red River Valley counties, attended the 4-H Club Week held at the Northwest School of Agriculture, Crookston, June 18-22.

4-H club members from the southern counties attended the first session, June 18-19-20 (Noon) and included: Becker, Clay, Mahanomen, Norman, East and West Otter Tail, Clearwater, and East Polk. Attending the second session, June 20—P.M.—21-22, were the northern counties including Kittson, Marshall, Pennington, West Polk, Red Lake, Roseau, and Lake of the Woods.

The district winners in the 4-H one-act play and music contests presented their numbers as features of the evening programs during the week. At the Awards Assembly, held for each group of counties on the last day of camp, prize-winning certificates were awarded in the Better Grooming Contest.

Twenty-nine county agricultural agents, county home agents, and county 4-H club agents, in addition to several members of the Northwest School faculty, gave instruction to the 4-H club members during the week. Harold K. Anderson, district 4-H club agent, and Mrs. Helen Jacobson, 4-H club agent, both of the Institute of Agriculture, University of Minnesota, St. Paul, served as camp leaders.

Homemakers Enjoy Women's Camp At Northwest School

The 31st annual Women's Camp was held at the Northwest School of Agriculture, June 12-15, with fifty-three women "in residence" in the school dormitories. In addition to the "resident" camp members, a large number of women from County Homemakers' groups in the Red River Valley attended the day programs. Miss Retta Bede served as camp leader.

At the recognition assembly and closing exercises held on Friday, June 15, campers completing their fourth year at the camp were given four-year certificates and included: Mrs. R. O. Baker, Sabin; Mrs. Emil Dvorak, Angus; Mrs. Torval Laudal, Stephen; and Mrs. Marvin Nilson, Twin Valley. Receiving linen towel awards for attending camp for twelve years were: Mrs. Art Kluzak, Euclid; Mrs. Loretta McGlynn, Stephen; and Mrs. Frank J. Vonasek, Angus. Mrs. Nels Anderson of Crookston had the all-time high attendance record of twenty-nine years, and Mrs. C. H. Roholt of Mayville, N.Dak., the attendance

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Northwest School News

Issued by
THE UNIVERSITY OF MINNESOTA
NORTHWEST SCHOOL OF
AGRICULTURE

B. E. Youngquist, Superintendent
Northwest Experiment Station
OFFICE

Crookston, Minnesota

This publication issued six times a year;
bi-monthly.

Organ Fund Report

The Northwest School Alumni Association reports that nearly \$400 has been mailed in by alumni and friends to swell the organ fund. In checking with Superintendent B. E. Youngquist, the fund is found to be quite a bit short of meeting the commitment made by the Alumni Association. He says about \$400 more must show up if the Alumni Association is to meet the cost of the fine new organ.

A list of contributors in the recent fund drive is included hereafter. Any new contributions should be mailed to the Organ Fund, c/o Superintendent's office, Northwest School, Crookston. The names of new contributors to the Organ Fund will be listed in the next issue of the "Northwest School News."

CONTRIBUTORS: Mr. and Mrs. Seigel A. (Rosalia Polski) Anderson, St. Paul; Andrew J. Anderson, Crookston; Retta Bede, Duluth; Mr. and Mrs. Kenneth (Grace Warne) Flom, Gary; Fae Hughbanks, Spencer, Iowa; Mrs. Myron J. Perry (Helen Brown), Duluth; Raymond B. Hogenston, St. Paul; W. S. Ash, St. Vincent; Elmer O. Anderson, Clearbrook; Glenn Dale, and Harvey Bloomquist, Drayton, N.Dak.; Howard Balk, Bagley; Jay Bergh, Hallock; C. Rishton Bedard, Grand Forks, N.Dak.; Maurice C. Bursheim, Winger; Arlene Christianson, Goodridge; John Cumming, East Grand Forks; Mr. and Mrs. Paul Engelstad, Thief River Falls; Mr. and Mrs. Ralph O. Erickson, Duluth; Mrs. H. M. (Alma Netum) Femrite, Minneapolis; Ole Flaatt, Fisher; Mr. and Mrs. Darrah (Ella Flaskerud) Geddes and Bill, East Grand Forks; Mr. and Mrs. Harold (Blanche Morrison) Grandy, Birmingham, Mich.; Mrs. H. C. (Dorothy Didrikson) Grotte, Minneapolis; Veral M. Gibbons, Crookston; Byron W. Hess, Sioux Center, Iowa; Richard Holmgren, Baudette; Mrs. Emil Hallgren, Minneapolis; Mr. and Mrs. Arnold Hanson, Crookston; Mrs. Karen Wold Hanson, Winger; Silas Hviding, Minneapolis; Mr. and Mrs. Murray (Chloe Starr) Hales, Falconbridge, Ontario; Mr. and Mrs. Charles (Bonnie Vesledahl) Holmquist, Crookston; Kenneth R. Johnson, Stephen; Joe Jansen, Hallock; Winston R. Johnson, Crookston; Leona Kellerman, Roseau; Alton Knutson, Yaizin City, Japan; Wilfred Knutson, Minneapolis; Mrs. Chester Knutson, Fisher; Oscar R. Knutson, St. Paul; Mr. and Mrs. Wm. A. Lindberg, Warren; Oscar M.

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1955-56 BEEF STEER FEEDING TRIALS

Northwest School and Experiment Station

HOMER D. FAUSCH, Animal Husbandman

The 1955-56 beef cattle feeding trials at the Northwest School and Experiment Station, Crookston, were set up to focus attention on three important aspects of beef cattle feeding rations. One objective was to investigate the value of pelleted grain rations compared with ground grain rations. A second objective of the trials was to confirm the feeding value of stilbestrol in high energy, grain rations. The third objective was to explore the effect of stilbestrol in potato rations for fattening beef steers.

Four lots of yearling Hereford steers were fed for 139 days. Six steers comprised each lot. The ration which was fed to each lot is listed below in table form. Each of the experimental lots was compared in performance to the Lot I steers which were considered the control group.

TABLE I
Rations Fed to Beef Steers 1955-56

Lot No.	I	II	III	IV
	Ground Grain	Pelleted Grain	Ground Grain	Ground Grain
Rations	Soybean Meal Alfalfa Hay	Soybean Meal Alfalfa Hay	Soybean Meal Stilbestrol Alfalfa Hay	Soybean Meal Stilbestrol Potatoes Oat Straw

The grain ration in all lots was made up of 70 per cent barley and 30 per cent oats. Soybean meal was fed to all lots at the rate of 1 pound per steer daily. Lot II and IV steers received stilbestrol at the rate of 11 milligrams per steer daily. The grain ration for Lot II steers was pelleted; in all the other lots the grain was fed as ground grain.

Pelleting versus Ground Grain

Pelleting of grain rations has been credited with several advantages for the feeder. It has been reported to increase the palatability, and digestibility of rations. The labor of feeding is reduced and wastage from blowing is at a minimum. Pelleting, however, is expensive and the advantages must be great enough to pay the additional cost of feed preparation.

In our trials there was a decided advantage in the pellet-fed lot. These steers gained 0.42 pound per day faster than the steers on ground grain. Almost one pound less feed was required to produce a pound of gain when the grain ration was pelleted. This factor reduced the cost of gain by 36 cents on each 100 pounds of gain put on by the steers fed the pelleted ration. The over-all return per steer after feed costs were removed was \$17.84 for the steers fed ground grain and \$25.37 for the steers fed pelleted grain. Since the rations in these lots were identical in make-up, the differences in performance and financial return are largely ascribed to the pelleted ration which the Lot II steers received.

Stilbestrol as a Growth Stimulus

In feeding trials at Iowa and other corn belt colleges, phenomenal increases in gain and economy of gain have been obtained by using stilbestrol in beef cattle rations. In previous trials and in our trials these benefits were obtained in high energy grain rations. In high roughage rations where silage or other roughages make up the bulk of the ration fed, the advantage of stilbestrol feeding is reduced.

Our Lot III steers, fed ground grain, soybean meal, hay and stilbestrol gained an average of 2.64 pounds per steer daily. The control group, getting the same ration without stilbestrol gained 2.01 pounds daily. The stilbestrol steers gain a pound on 9.37 pounds of ration whereas 10.7 pounds of ration were required to produce a pound of gain in the control group. The control lot returned a profit per steer over feed cost of \$17.84 but the stimulus from stilbestrol caused the stilbestrol steers to return an average of \$34.84 per steer over the cost of the feed. The stilbestrol steers dressed out almost 2 per cent higher than the control lot steers. The carcass grades in the stilbestrol fed steers were somewhat better than the control lot steers. Our results with stilbestrol feedings were well in line with those obtained elsewhere. The effect of stilbestrol feeding on carcass quality is not entirely agreed upon by all investigators but there is no discrimination in price at any market against stilbestrol fed cattle.

Stilbestrol with Potato Feeding

A series of potato feeding trials has been completed at the Northwest Experiment Station in which several rations have been tested in which potatoes made up the bulk of the beef cattle ration. It was of interest therefore to determine if stilbestrol would increase the performance of cattle on potato rations. The cattle were consuming an average of 44 pounds of potatoes, 8½ pounds of ground grain, 4 pounds of oat straw, and 1 pound of soybean meal. Stilbestrol added to this ration improved the economy of gains by about 20 per cent and rate of gain by almost 12 per cent. The margin over feed cost was about equal to that in other trials where potato rations were fed.

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RETIRING STAFF MEMBERS HONORED

A "retirement party" was held on June 27 for two retiring Northwest School staff members. The party was arranged by Northwest School faculty members and their wives and Civil Service employees and was held in the school's Aggie Inn. The McCalls and Andersons were presented gifts by the employees.

Superintendent T. M. McCall retired on June 30 with 45 years of service to the school to his credit and Andrew "Andy" Anderson retired on July 30 with 37 years of service to his credit.

Two beautiful cakes, pictured above, were made and decorated by the Mesdames Myrtle Brown, Herschel Lysaker, G. Milford Peterson, and H. D. Fausch. One cake was a replica of the McCall's new home in Crookston and one cake was a replica of the Anderson's farm.

Pictured above, reading from left to right are: Mrs. Anderson, Andrew Anderson, Mrs. McCall, and Retiring Superintendent T. M. McCall.

50TH ANNIVERSARY PROGRAM AND ALUMNI REUNION HELD JUNE 30

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Mrs. T. M. McCall in memory of their forty-five years of service to rural life in the Red River Valley and surrounding area. A bronze plate suitably inscribed was presented to Mr. and Mrs. McCall by Howard Balk, '25, of Bagley. This plate will be placed on the organ which is now installed in the school's auditorium. Superintendent McCall and Superintendent-elect Youngquist responded and accepted the organ in behalf of the Northwest School. Organ selections, for the dedication, were played by Ruth Emerson of Virginia, a former faculty member, and Rose Marie Johnson of Herman, a present member of the school's music faculty.

Paul Engelstad, '16, of Thief River Falls, served as chairman of the general arrangements committee for the alumni for the anniversary program and alumni reunion, and E. N. Reiersgard of the Northwest School staff was general arrangements chairman for the school.

Preceding the anniversary program and dedication, picnic dinners were held on the campus at noon by alumni and faculty groups. At 1:30 p. m., the girls' drum and bugle corps of Central High School, Crookston, presented a demonstration and maneuvers under the direction of T. W. Thorson. Immediately following the formal program of the afternoon, the Crookston Saddle Club Drill Team, under the direction of Philip Thorson, gave a demonstration on the campus quadrangle.

The Northwest School Alumni Association, with Charles Holmquist, president, presiding, held their business meeting in the afternoon. Officers elected were: Charles Holmquist, Beltrami, president; Wilford Dostal, '49, Angus, vice-president (re-elected for a two-year term); Allen Love, '51, Euclid, secretary; and Mrs. Walter Roberts (Jean Nisbet, '34), East Grand Forks, treasurer (elected for a two-year term).

An Alumni Reunion dance was held in the school gymnasium in the evening with music furnished by the Jack Hannah orchestra.

WOMEN'S CAMP

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record of twenty-eight years. They were awarded bouquets. Other camp members with high attendance records were: Mrs. John Patenaude, Sr., Crookston, and Mrs. C. D. Chandler, Euclid—22 years; Mrs. E. M. Evans, Middle River—20 years; Mrs. Conrad Brandt, Bagley; Mrs. R. D. Love, East Grand Forks; and Mrs. T. M. McCall, Crookston—19 years.

Officers elected for the 1957 camp: Mrs. Bernard Nelson, Newfolden—president; Mrs. Emil Dvorak, Angus—vice-president; Mrs. Frank Quigley, St. Vincent—secretary; Mrs. Milton Gee, Moorhead—treasurer; and Mrs. Philip Dufault, Crookston—sergeant-at-arms.

ORGAN FUND REPORT

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Lee, Cambridge; Mr. and Mrs. Charles W. (Bette Thompson) Lind, Fargo, N.Dak.; Hildur Linfors, Fosston; Mrs. Clarence Lien, Middle River; Norman Landby, Swift; Lawrence A. Letnes, Hillsboro, N.Dak.; Oscar J. Lund, Twin Valley; Mr. and Mrs. Harry (Ila Slyter) Miller, Climax; Janice Michaelson, Euclid; Mrs. Wm. Mienert (Clara Lindfors), Fosston; Elvin Moran, Crookston; Mrs. Howard (Cora Dalager) Newell, Westerville, Ohio; Mrs. Paul (Norah Hamre) Nornes, Ada; Mrs. Lloyd (Neva Gibbons) Ness, Ada; G. Emil Nelson, Clearbrook; Earl Newhouse, Crookston; Berneil Nelson, Crookston; Oral Oraas, Clarkfield; Mrs. G. Milford (Evelyn Bierbaum) Peterson, Crookston; Julius Paulsrud, Nielsville; Frances Pearson, Crookston; Ray Perras, Red Laks Falls; Clarence Peterson, St. Paul Park; John Patenaude, Red Lake Falls; John Pearson, Warren; Theodore Peet, Wolverton; Mrs. Pauline (Finkenbinder) Purath, Red Lake Falls; Harlan Pester, Crookston; Mr. and Mrs. Leroy Peterson, Angus; Martin Rud, Crookston; Donald Rene, Neche, N.Dak.; Harold Ross, Crookston; Llewellyn Reese, Grand Rapids; Robert Rutherford, Euclid; Mrs. William Rutherford, Euclid; Elizabeth Strandness, Glenwood; Benneth Sharpe, Shelly; Allen St. Germain, Argyle; Mr. and Mrs. Clarence (Edna Paulsrud) Sargent, St. Paul; John Swiers, Bejou; Melvin P. Soderberg, Detroit Lakes; Ralph Sheldon, Bagley; Herman Skyberg, Fisher; William Strickler, Euclid; Claude Starr, Walker; Shirley Sather, Grand Forks, N.Dak.; Andrew Skaar, Thief River Falls; Mr. and Mrs. Gordon E. (Vilma Zak) Thompson, Reynolds, N. Dak.; Thomas Thompson, Baker; Mrs. Lavonne Thurston, Grand Forks, N.Dak.; Ronald Viator, Fergus Falls; Dora Westling, Roseau; Milton O. Warner, Spencer, Iowa; Jay Wilder, Crookston; Mrs. Kenneth (Agatha Olson) Willert, Burbank, Calif.; Selma Waldal, Thief River Falls; Moris W. Webster, St. Vincent; Mrs. Marvin Zahl, Winger.

Northwest School Briefs

*** News Regarding Northwest School Alumni and Former Students:

*** Mildred Peterson, '53, of Plummer, graduated from the Augustana Hospital School of Nursing, Chicago, on April 20. She is now employed as a nurse at University Hospital, Minneapolis.

*** Paul Tollefson, '55, of Crookston, who was a freshman in the College of Agriculture, University of Minnesota, St. Paul, last school year, maintained a grade of "B" or above during his entire first year at college. He received honors at the University Cap and Gown Day ceremony at the University on May 24.

*** Arlene Christianson, '56, of Goodridge, was the champion 4-H clothing exhibitor at the Pennington County Fair held in July.

*** Alicia Nelson, '56, was the champion clothing exhibitor at the Marshall County Fair in July.

*** Harlene Hagen, '55, of Gatzke, was Dress Revue Queen from Marshall county for this year's fair and Sylvia Jensen, '56, of Stephen, was one of her attendants. Harlene was crowned by Barbara Kagg, '55, Viking, who was queen for the previous year.

*** Raymond B. Hogenson, '25, is a member of the staff of R. B. Hogenson and Company, public accountants, St. Paul.

*** Donald LaPlante, '40, his wife and two young sons, visited the campus on June 27. His address: 26602 Flamingo Ave., Hayward, California.

*** Fr. Myron Kasprick, O.S.B. (Roger Kasprick, '51) graduated from St. John's University, Collegeville, on May 30.

*** Elaine Thureen, '53, of East Grand Forks, is a senior in the Swedish Hospital School of Nursing, Minneapolis.

*** Gerald and Marvin Engesether, '55, brothers, of McIntosh, recently enlisted in the U. S. Air Force and are now stationed at Francis E. Warren Air Force Base, Wyoming. They completed their basic training at Parks Air Force Base, California, and have been promoted from A-B to A3-C, receiving their first stripe.

Marriages

*** Miss LaVaun Ruther of Beltrami to Charles L. Mergenthal, '56, of Hillsboro, N.Dak.; on May 5, at Fertile.

*** Miss Lucille Lerud, '43, to Edward M. Wayda, on July 16, at Sault Ste. Marie, Michigan.

*** Miss June Bjornstad of Walhalla, N.Dak. to Duane Bergeson, '50, of Bagley, on November 1, 1955, at Walhalla, N.Dak. They are making their home at Hallock, Minnesota.

*** Miss Betty Szcpanski of Warren to Harvey Troska, '48, of Good-

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ridge, on June 12, at Warren. They are living in Goodridge, Minnesota.

*** Miss Bernice Poolman of Warren to Donald Holy, '52, of East Grand Forks, on June 26, at Warren. Their home address is East Grand Forks, Minnesota.

*** Miss Prudence Mulrane of St. Paul to Donald A. Kroulik, '48, of Donaldson, at Minneapolis, on June 9. Their address: 2000 Florance St., Box 85, White Bear Lake, Minnesota.

*** Miss Marlene Thompson of East Grand Forks to Wayne O. Nelson, '46, of Orleans, on June 23, at East Grand Forks. Their home address is Roseau, Minnesota.

*** Miss Joanna Sylvester of Grand Forks, N.Dak., and Myron C. Torkelson, '52, of Red Lake Falls, on May 12, in Grand Forks, N.Dak.

*** Miss Carole Berg to Clayton E. Engelstad, '48, on June 18, at Moorhead. Their address: 608 Seventh Ave. So., Moorhead, Minnesota.

*** Miss Marjorie Landin of Warroad to Clifford Steinhauer, '48, of Thief River Falls, on June 23, at Warroad. They will live in Thief River Falls, Minnesota.

Births

*** To Mr. and Mrs. Menford Brekke, '45, of Greenbush, a son, Lee Jon, on October 14, 1955.

*** To Mr. and Mrs. David Sorvig, '47, of Crookston, a son, on June 18, at Crookston.

*** To Mr. and Mrs. Bruce Kramer, '54, (Arlis Iwen), a son, on June 16, at Crookston.

*** To Mr. and Mrs. Ray Ahmann (Helen Auer, '44), a daughter, Eileen Ramona, on June 10, at East Grand Forks. Their address: 522-13th Ave. N., East Grand Forks, Minnesota.

*** To Mr. and Mrs. Jack Paul, a son, Steven John, on June 13, at East Grand Forks, Minnesota. Mrs Paul was a member of the Northwest School faculty, 1955-56.

*** To Mr. and Mrs. Harold Kasprick, '40, of Angus, a daughter, Patricia Rae, on June 13.

*** To Mr. and Mrs. Andy Parsell (Betty Halliday, '42), a daughter, Laurie Jeanne, on March 6, at Colton, California. Their address: 1754 Kippy Drive, Colton, California.

*** To Mr. and Mrs. Lyle Durdahl, '52, of Crookston, a son, on April 15.

*** To Mr. and Mrs. James Thiboda, '48, of Stephen, a son, on April 11 at Crookston.

*** To Mr. and Mrs. Maurice Dufault, '41, of Argyle, a son, on April 9.

*** To Mr. and Mrs. Jack Romuld (Helen Reitmeier, '46), a son, on February 13, at Crookston.

*** To Mr. and Mrs. Charles Holmquist, '52, (Burnette Vesledahl, '53), a daughter, Vicky Lee, on January 6, at Minneapolis.

*** To Mr. and Mrs. Raymond Stromstad, '48, (Marvlyn Vesledahl, '49), of Crookston, a son, Ron Michael, on January 9, at Crookston.

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1909 Graduate Visits School

Mrs Oline Olson (Lena Opdahl, '09), a member of the first Northwest School graduating class, and now of Seattle, Washington, stopped at the Northwest School recently for a visit. It was most interesting to hear her tell of the early Ag school days.

She had a picture of the campus—the Home Economics building was the only large building and it served as boys' dormitory on the third floor with nine rooms and a bathroom. The second floor had two classrooms, library, and office space. The first floor housed the heating plant, dining hall, and cooks' quarters.

Mrs. Olson is one of five girls who were part of the first graduating class and she is one of two or three living class members. The best of all to you, Mrs. Olson; the N.W.S.A. invites you to visit again.

NORTHWEST SCHOOL BRIEFS

(continued from col. 2)

*** To Mr. and Mrs. Dennis Carpenter, '51, (Patricia Erickson, '52), a daughter, Shelley Marie, on March 19, at Baudette.

*** To Mr. and Mrs. Calmer Johnson, '45, of Beltrami, a son, on May 2, at Crookston.

*** To Mr. and Mrs. B. C. Beresford, a son, on April 20, at Crookston. Mr. Beresford is a member of the Northwest School faculty.

Deaths

*** Peter Schirrick, Jr., '46, of Red Lake Falls, on June 14, at Havre, Montana.

*** Mrs. Rose Gackowski, May 29, at Duluth; Miss Lillie Huot, May 26, at Crookston; and Ernest Wrage, May 18, at Crookston. They were Northwest School Employees.

BEEF STEER FEEDING TRIALS

(continued from page 2)

Summary

The current feeding trials indicated that in spite of the high cost, pelleting of barley and oat rations is profitable because beef steers gained faster on less feed and returned a greater profit than steers fed ground grain. Pelleted grains are cleaner and easier to handle and there is normally less feed wasted.

Stilbestrol fed at the rate of 11 milligrams per day in grain rations produced faster and more economical gains in beef steers. The return over feed costs were greater in stilbestrol fed cattle.

It appeared that stilbestrol will also make potato-fed steers gain faster and more economically. The potato-fed steers reach a satisfactory market finish in a feeding period of 139 days.