

# THE NORTHWEST MONTHLY



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## COMMUNITY CLUBS WILL VISIT SCHOOL AND STATION

Forty-one communities were represented in the program of visitations to the Northwest School and Station last summer. A still greater number is expected this year and a number of tentative dates have already been arranged. Among the communities not represented last year, who are planning to come this summer are Highland, Pennington County; Gary, Norman County; Gonvick, Clearwater County, and Barnesville, Clay County. According to A. A. Trovaten, president of the Barnesville Commercial and Community club, plans are under way to charter a special train on the Great Northern.

Last year the first of the visits was by the Boxville Farmers' Club, Warren, on June 13, and the last was by the Twin Valley Community on August 4. These dates include the period best suited for the tours, as the work carried on at the station can best be observed during the growing season.

The plan carried out last year will be followed again this year, with some additions. Each community brought picnic lunches with them and spread their dinners or suppers on the campus. After a short explanation of the program for the day the men were conducted by guides through the various fields, gardens and barns. The ladies were taken through the vegetable and flower gardens, the poultry plant and school buildings. The boys and girls found equipment and apparatus with which to stage games and field sports. Whenever time permitted the guests were shown movies in the auditorium. This year it is planned that one of the instructors in the Home Economics department will be present to demonstrate questions of interest to the women.

These tours to the Northwest School serve as real community days, combining recreation and study together. It furnishes an ideal method of

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## Cattle Feeders' Day, Friday, May 16

Farmers of the Northwest who are interested in beef cattle production will have the opportunity May 16 of viewing the results and hearing the discussion of the work in beef feeding experiment that has been conducted the past winter at the Northwest Experiment Station.

This is the second winter's experimental work in feeding beef cattle to

ting sweet clover with alfalfa, first cutting alfalfa has been used to make the comparison comparable.

The plan of feeding that has been followed this winter in feeding each lot is as follows:

Lot 1—Alfalfa hay, first cutting; oat straw; silage, full feed.

Lot 2—Sweet clover, first cutting; oat straw; silage, full feed.

Lot 3—Sweet clover, first cutting; oat straw.

Lot 4—Wild hay; oat straw.

The results secured show that our coarse and sometimes poorly cured first cutting sweet clover ranks high as a roughage for wintering cattle. The wild hay used in this experiment was a good quality hay that was produced on the prairies near Goodridge, in Pennington county.

Complete figures for each lot will be ready on Feeders' Day, May 16. Professor W. H.

Peters, Chief of the Division of Animal Husbandry, University Farm, St. Paul, will be present to assist in interpreting results of the experiment. Other livestock men will be on hand to give timely addresses on livestock production. The program will begin at 1:30, Friday, May 16.

## HOLSTEIN BULLS FOR SALE

The Northwest Station has a group of six Holstein bull calves that are being offered for sale. These are September and October calves and sired by Sir Pietertje Mamsell Ormsby 358486, whose dam has a record as a junior 4 year old of 31515.9 lbs. of milk, 1317.54 lbs. butter. The dams of these calves are on official test or have official records.

Those needing future herd sires should select a calf from this herd. Prices \$75.00 to \$125.00.



THE HOLT COMMUNITY CLUB—ONE OF THE 41 COMMUNITIES WHICH VISITED THE NORTHWEST SCHOOL AND STATION LAST YEAR.

—By courtesy of The Farmer, St. Paul.

determine the feeding value of sweet clover hay in a wintering ration to feeder cattle. This year's work will cover a feeding period of 196 days. The experiment started November 1 and will be closed May 14. A very uniform lot of grade Shorthorn and Hereford steers have been used in this experiment. Twenty-eight steers have been used in 4 lots of 7 steers each.

Very interesting results can be shown in the experiment this year. The experiment this year is a continuation of the work carried on the previous year, with some changes in the rations fed to the different lots. All through the experiment first cutting sweet clover and first cutting alfalfa hays were used. Last year second cutting sweet clover hay was used. First cutting of sweet clover produces a hay that is supposed to rank low in quality on account of its coarseness and the difficulty in getting it properly cured. In comparing first cut-

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Issued Monthly by  
**THE UNIVERSITY OF MINNESOTA**  
**NORTHWEST SCHOOL OF**  
**AGRICULTURE**

C. G. SELVIG, Superintendent

## OFFICE

Northwest Experiment Station,  
 Crookston, Minnesota

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

## 1923 REPORT NOW READY

A copy of the 1923 Report of the Northwest Experiment Station may be obtained upon request. The report covers in considerable detail investigational work with crops, soils, livestock, and poultry. Recommendations based upon field trials over a number of years are made in each division.

Of particular interest this year is the report of work done in feeding sweet clover hay and hogging off corn and soybeans; potato spray and sugar beet trials; and extensive corn variety tests.

As an appendix to the report, there are full discussions of the following subjects by the heads of departments: Corn in the Red River Valley; Variety and Fertilizer Trials at Mahnomon; Feeding Experiments at the Northwest Station, and Production of Winter Eggs.

## JUNIOR GIRLS WILL

### ATTEND STATE FAIR

Sixteen Junior girls will represent the Northwest School at the Minnesota State Fair this fall, according to plans recently announced. They have been selected to assist in the farm boys camp and will receive for their services, free transportation, including room, board, and lodging expenses.

Junior girls were selected because there will be opportunity for them to attend demonstrations which will be of value in connection with their school work as seniors. This follows a suggestion made by the Home Economics department of the Northwest School. Miss Schenck will be in charge of the girls at the farm boys camp and will personally arrange a schedule for the demonstration work.

The girls who went to the state fair two years ago were selected from the senior class. In selecting from the Junior class this year girls who had won a place on the honor list were given first preference. The remainder were selected by lot, as there are only 16 places available.

The demonstrations, lectures, and exhibits at the fair which will be available to the girls will include lectures which are given in the art, health and women's buildings; bread making, garment making, sewing and canning demonstrations, and exhibits of sewing, art work, canning and modern house equipment. Senior theses

will be selected by the Juniors and material gathered for their thesis during state fair week.

The names of the sixteen girls who will represent the Northwest School will be published in an early issue of the Northwest Monthly.

## STUDENTS ARE

### CHAMPION BREADMAKERS

As a result of the advanced bread-making contest held at the Northwest School on April 3, the team representing the Northwest School was awarded first place and the Fergus Falls High School team second place. The teams from other district competing were Hawley and Wadena. The winning team is composed of Helen Gibbons, Crookston, and Cora Walters, Beltrami. The girls will receive a free trip to the Minnesota State Fair this fall, where they will demonstrate in competition with teams from other district of Minnesota. According to plans now under way the senior theses next year will be in the form of demonstrations, thereby enabling a greater number of students to compete in other district contests.

## POULTRY PROJECTS

### ARE PROGRESSING

Beginning with the fall of 1922, all of the Northwest Station pullets were trap-nested from the date of beginning laying until they completed one full year. Of these pullets, twelve made records of two hundred eggs or over. The highest record was made by a White Leghorn pullet, No. 92, with a year's total of 260 eggs. The highest producing pullet from the Barred Plymouth Rocks was No. 35, with a record of 201 eggs.

Following up the trap-nest work, selected matings were made from the high producers, mating them with males from known high egg producing blood lines. From these special matings one hundred and twenty-five pedigree pullets were produced from known parentage and 108 pedigree cockerels. Of these cockerels, selection was made for the 1924 mating pens and every cockerel used this year is from known parentage. Special pens have again been mated up this spring from the high producers from the 1922 pullets, now yearling hens, and the 1923 pullets. Each pen is headed by a cockerel of high egg blood lines. Eight of the twelve hens that produced over 200 eggs in the season of 1922-23 are mated to a cockerel whose dam produced 293 eggs in her pullet year.

It is the aim of the department to produce a strain of birds of high egg blood lines, keeping in mind standard requirements and at the same time aid in every way possible the breeding and raising of better poultry in the community.

## STUDENTS ELIGIBLE

### FOR CORN CONTEST

Students of the Northwest School and others within the prescribed age limits are eligible to compete for liberal prizes offered for corn growing in Northwestern Minnesota by the Boys and Girls Club Department of the Min-

nesota Extension Division. Two contests have been arranged, the one-acre project for boys and girls 10 to 20 years of age, and the five-acre project for those from 15 to 20 years old. Awards are to be based upon yield and quality of corn produced and accuracy and completeness of record. These contests will be of special interest to students enrolled in corn growing as a home project in connection with the school this summer, as the home project and the corn club contest requirements are practically identical.

Students who wish to compete for the prizes offered should enroll with their local club leader or county agent or make application directly to A. J. Kittleson, assistant state leader, Crookston, Minnesota. Each club member will be furnished with blanks for record and story. Yields will be taken under the supervision of county agents and club leaders. Exhibit samples should be selected by each contestant for the corn shows next winter. Samples may be entered also for prizes offered in the club division at the state fair, and county fairs, and at the Red River Valley Winter Shows.

Enrollment must be completed by June 1, hence all who wish to compete should write at once to A. J. Kittleson, Crookston, for enrollment card or apply to local club leader. A copy of new bulletin on "Corn in the Red River Valley" may be obtained by request to the Northwest Experiment Station.

## EXPERIMENTAL PLOTS

### AT MAHNOMEN AND GARY

Although the Fargo clay loam on which the Northwest Experiment Station is located, represents a considerable acreage of land in the Red River Valley, there are other important soil types which from observation and reports of farmers, behave differently as to varieties of crops and fertilizer applications. It has been considered desirable to institute some test plots in order to secure information of a more local nature.

Last year both variety and fertilizer tests were begun about one mile east of Mahnomon, and this year similar trials are to be made near Gary. The soil at Mahnomon is lighter than the station soil and could probably be classed as a silt loam, while that at Gary represents a light, sandy loam subject to blowing.

Phosphate fertilizers have given a very definite increase at Mahnomon on corn, wheat, oats, barley, and flax. Of particular interest in the variety trials was the performance of White Russian oats which outyielded all other varieties, but at Crookston has been a consistently low yielder.

At Gary, it is the intention to make some preliminary trials this year with a view to starting more comprehensive soil investigations later.

The establishment of these fields has been possible largely through the splendid co-operation of the Schermerhorn Farms at Mahnomon and the active interest of the Gary Community Club.

**AGRICULTURAL CREDIT  
CORPORATION LOANS FOR  
LIVESTOCK PURCHASES**

The initial step that has been taken for the proper distribution of a fund of \$1,000,000 to be loaned to northwestern farmers for livestock purchases should be a means to assist in promoting a more stable agriculture throughout the spring wheat growing area.

In order to avoid any possibilities of bringing discredit on the whole scheme, the committee in charge has limited the activities of the corporation to a "try out territory." This territory is to include counties in North Dakota and northwestern Minnesota that have county agents, with certain restrictions to other territory. Loans may be granted on a petition, approved by the Agricultural Credit Corporation, from a well organized local community in counties of northwestern Minnesota, North and South Dakota and Montana, that do not now have county agents.

The entire plan can briefly be summarized as follows:

Farmers will be able to borrow money at 6%. An additional one per cent will be added to serve as a mutual insurance fund. Loans cannot exceed \$1,000 to any individual. Loans may be made up to the entire purchase price of the animal.

Terms of payment: Cattle loans to be paid off at least ten per cent after one year, 20 per cent the second year, 30 per cent the third year and 40 per cent the fourth year. Hog and sheep loans to run three years, with payments of 20 per cent the first year, 30 per cent and 50 per cent the second and third years.

Without a campaign of education the extended aid through the loans that will be made will fail in its purpose or at the least be slow in producing desired results. It is of the utmost importance, therefore, that the local committee use good judgment in recommending the kind of livestock to be purchased. There are enough "culls" now on farms of the Northwest. Quality rather than quantity must be the slogan, otherwise more harm than good will result. Not every farmer is ready for purebreds. In making cattle purchases through this loan, the purebred may well be limited to the sire, with the females good grades. Limited capital in the purchase of good grade cows is far better than using the same amount for the purchase of inferior purebreds.

Good judgment must be used in recommending individuals to be assisted by a loan. The best men of a community needing such help should be selected. The success of these men will be the best demonstration of the possibilities in livestock production for the northwest. It must be kept in mind that the transition from grain growing to livestock production is a process of development and the ideas of many will not be changed except by the well demonstrated facts secured by neighboring farmers.

Those to be assisted should be equipped to shelter, care for and feed the stock purchased. Good feeding of livestock in the northwest is the exception rather than the rule. There is no excuse for stock to come thru a winter in a starved, debilitated condition.

Northwestern Minnesota farmers can raise feeds of all kinds in abundance. The first requisite to livestock production is the arrangement of the cropping system to producing as much of the grain as possible and all the right kind of roughage necessary for the amount of livestock that will be handled on any particular farm. Proper feeding may be considered as constituting 50% of successful livestock management. To seed as a start in livestock production, a reasonable acreage of alfalfa or sweet clover and corn fodder, to replace the coarse wild hay and straw that now furnishes the bulk of winter roughage for cattle, is far better than to purchase stock and later plan for the amount of feed to raise. Better pastures also constitute a part of right feedings. Comfortable but inexpensive shelter is a factor that must be considered.

Leah Stewart, '19, writes that she is teaching in the primary department, Tolono, Illinois. This is her fourth year in this work.

Lloyd Stewart, '16, is working on one of the Reiss Company boats of the Great Lakes. He is working up to become an engineer. This is his third season on this boat.

**AN EXPERIMENT TO DETERMINE  
THE FEEDING VALUE  
OF FLAX SCREENINGS**

During the winter an interesting experiment was conducted by the Animal Husbandry Department to determine the feeding value of Flax Screenings. Two lots of nine fall pigs each were used in this experiment.

The experiment began December 11, when the pigs averaged in weight about 75 pounds each, and was concluded April 1, after 112 days of feeding. The pigs averaged at the close of the feeding trial, 227.9 lbs. for Lot 1 and 214.5 lbs. for Lot 2.

Lot 1 received a ration of ground barley, ground oats and tankage; lot 2 was fed a mixture of ground flax screenings, ground oats, and tankage. The ration for Lot 2 was the same proportion as that for Lot 1. The self-feeder was used in feeding each lot. During the 112 days, the pigs in Lot 1 made an average daily gain of 1.372 lbs. and the average daily gain for Lot 2 was 1.258 lbs. To produce 100 lbs. gain Lot 1 required 453.68 lbs. of feed, and Lot 2 530.23 lbs. With barley at 46 cents per bushel, oats at 36 cents per bushel and tankage at \$90 per ton, 100 lbs. of gain for Lot 1 cost \$6.22. On the same basis of cost of 100 lbs. gain for Lot 2, the flax screenings has a feeding value of \$14.72 per ton.

A seed analysis of the flax screenings showed \$2.84 per cent of flax.

The remainder consisted principally of pigeon grass and a considerable percentage of lambsquarters. The flax contained in the screenings were the immature and shriveled seed, which would have but little influence on the feeding value of the screenings.

\*Chemical Analysis of the Screenings

Moisture	Moisture-free Basis				
	Ash	Protein	Fat	Crude Fiber	Nitrogen-free Extract
6.17	5.69	15.08	7.20	14.15	57.88

\*Determined by the Division of Agricultural Biochemistry, University Farm, St. Paul.

The results secured in this experiment showed that flax screenings has a high feeding value and can well be utilized as a part of a ration for growing pigs. By using the screenings that are usually produced in raising flax and often with small grain, a very good profit can be made from a product that otherwise has no market value.

(Continued from Page 1)

**Community Clubs Will**

**Visit School and Station**

becoming acquainted with the work of the Experiment station and many valuable suggestions were received by observation and through the explanations of the instructors. An invitation is hereby extended all communities to set aside some time during the summer for their trip and it is urged that dates be reserved as soon as possible so that there may be no conflicts with other groups for the same date.

**NORTHWEST SCHOOL STUDENTS AMONG WINNERS**

Several Northwest School students made excellent records at the recent Winter Shows. Albert Kopecky, Angus, a senior, was awarded the grand champion prize on his exhibit of Gehu flint corn. This was a special distinction, as the corn show was among the largest ever held, there being 121 exhibits. Earl Luchau, of Gary, a freshman, who was a boys' and girls' club member last year in Norman county, won second place with his calf in the club competition.

Elmer Anderson, a junior at the Northwest school, from Clearbrook, scored the highest among all the stock judges in the livestock judging contest. There were 54 individuals in the various contests which speaks well for Elmer's ability.

Ole Flaatt, who graduated in 1916, won individual honors in the farm club judging teams in the dairy class. Ole is one of the latest additions to the list of Guernsey breeders and will soon be in the show ring with his own stock.

Walter Luchau, of Gary, a Northwest School senior, won second place in the professional class and first in the amateur class with his white dent corn.

## SCHOLASTIC HONOR ROLL

The following students were listed on the honor scholastic roll for the second term:

**Seniors**—Sylvester Adamski, Nielsville; Howard Balk, Guthrie; Robert Davids, Bagley; Alice Engelstad, Nielsville; Ebenhard Gandrud, Detroit; Helen Gibbons, Crookston; Gladys Gunufson, Fertile; Marie Hamrick, Angus; James Hanson, Cass Lake; Martin Harstad, Fertile; Oliver Howard, Highland; Walter Luchau, Gary; Inger Lundin, Erskine; Lydia Miller, Roseau; Wallace Miller, Roseau; Emma Nelson, Gatzke; Adolph Reski, Oslo; Gladys Rice, Bronson; Arnie Solem, Thief River Falls; Marie Strickler, Euclid; Walter Turgeon, Brooks; Jalma Udstrand, Holt.

**Advanced**—Iver Johnson, Crookston.

**Juniors**—Elmer Anderson, Clearbrook; Einar Ellertson, Drayton, N. Dak.; Anna Flekke, Thief River Falls; Helen Flekke, Thief River Falls; Agnes Forsness, Greenbush; Selma Hamre, McIntosh; Elmer Krogstad, Fertile; Einar Loven, Gatzke; Elmer Miller, Erie; Jullus Nelson, Radium; Theodore Neske, Princeton; Amy Onneland, East Grand Forks; Clarence Ofstedal, Winger; Kate Osterloh, Angus; Benneth Sharpe, Shelly; Theo. Silnes, Halma; Stella Sorenson, Plummer; Esther Strickler, Euclid; Della Strommer, Clearbrook; Cora Thompson, McIntosh.

**Freshmen**—Alvira Applequist, Warren; Ole Breivold, Wanke; James Brown, Warroad; Richard Brown, Warroad; Earl Burk, Brooks; Albert Carlson, Stephen; John Covlin, Erskine; Elwilda Eklund, Gilbert; Naomi Forder, Gatzke; Tillie Fort, Erie; Alicia Hoppe, Crookston; Caroline Hruska, Lockhart; Ben Hurner, Glyndon; Paul Jennings, Angus; Clarence Krogstad, Gully; Rose Kozojed, Erie; Violet Lundberg, Kennedy; Ray Magneson, Grygla; Agnes Nelson, Lockhart; Melvin Person, Ulen; Arthur Pederson, Clearbrook; Oliver Peterson, Grygla; Edna Peterson, Grygla; Arthur Ramse, McIntosh; Julia Rude, Gonvick; Mabel Rude, Fertile; Wesley Sheldrew, Grygla; Oscar Sletteland, Munich, N. Dak.; Phinney Stenborg, Clearbrook; Oliver Swenson, Hawley; Ernest Thompson, Mer; Lily Walhaug, Plummer; Hefter Welman, Bagley; Theodore Ysteness, Fertile.

## FROM NEAR AND FAR.

Einar Aakre, '20, is employed in the agronomy department at the N. W. School.

Harold H. Grandy, '15, who has charge of the art department of the Hicks, Chatten Engraving Company at Portland, Oregon, the past year, writes that he has had a very successful year. He is opening a studio of his own this spring and after May 1 will be located in the Henry building. Mr. and Mrs. Grandy, (nee Blanche Morrison, '16) send greetings to their classmates and friends.

Joseph Lundin, '23, writes from Big Bay, Michigan, where he is working

at the present time, that he plans to complete high school next fall.

Clarence Meyer, '23, writes from Lakefield, Minnesota, that he is testing for the Jackson County No. 1 Cow Testing association. He likes his work very much.

James Hanson, '24, is employed by F. S. Edney, Route 1, Good Thunder, Minnesota.

Howard E. Balk, '24, writes that he is working in Bemidji. He gets mail care of General Delivery.

Elmer Miller, Clearbrook, is employed in the agronomy department at the Northwest School.

Ivar Eklund writes from Gilbert that he is taking a five weeks' short course in poultry under Mr. Hoberg. He also attended a three day short course at the N. C. Experiment Station, Duluth, where he was a member of a farmers' club stock judging team that won the silver cup.

Mrs. Roy Melick (nee Florence Dougherty), Strathcona, is secretary of the Daughters of Ceres, a club which is a member of the ninth district federation of women's clubs.

Morrill Campion, '20, Warren, has been initiated into Alpha Gamma Rho, professional agricultural fraternity at the University of Minnesota, where he is a student. He visited his home during the inter-quarter vacation. Two other graduates of the N. W. School, Norris M. Johnson, '14, and Thorval Tunheim, '16, are also members of this fraternity.

Milton Warner, '20, who is employed in an undertaking parlor in Minneapolis, visited his home near Warren the week of April 28. He made the trip by automobile.

Olga Tunheim, '19, has completed a term of school near Strandquist and is planning to spend the summer with her father at Warren. She was in charge of a sectional reading circle, of which there are 18 in Marshall county.

Oscar Tunheim, '17, is a member of the school board of the school in which he acquired his elementary education, namely, district No. 69, Marshall county, near Newfolden.

Herman Osterloh has converted an old junked automobile which he purchased from a neighbor into a tractor, and now does all of the feed grinding and wood sawing on his father's farm with the new machine. Herman always was handy at things, mechanical while attending the N. W. School and has followed this line since leaving the school.

A series of sectional play days throughout Marshall county is keeping Nels M. Engen, '15, county superintendent of schools, Warren, busy. Mr. Engen is also secretary of the Marshall County Public Health association and is in charge of the itinerary of a public health nurse, who was recently employed by the association to work with the rural school children in the county.

Friends of Arthur Skonovd, '18, will regret to learn of his father's death at the Skonovd home, near Vik-

ing, recently, after a lingering illness. His father, O. L. Skonovd, was a county pioneer and was well known, having taken a prominent part in community and county affairs.

Mr. and Mrs. H. P. Constans, of the University, Grand Forks, were recent campus visitors.

A. H. Larson directed community singing at the Junior Short Course at University Farm, St. Paul, the week of April 14.

Dr. and Mrs. Harry Hedin announce the birth of Helen Louise on March 27.

Mr. and Mrs. S. L. Victor, Marshall, Illinois, announce the arrival of a son, Williman Weir.

T. M. McCall attended a noon-day meeting at Thief River Falls on April 10, and spoke on city beautification.

E. W. Avery gave his address on "Sidelights of the Life of Abraham Lincoln," to the Fisher-Bygland club on the evening of April 12, and at the Brandt-Heigeland club on the evening of April 25.

R. S. Dunham attended a meeting of the Erhard's Grove Better Farming club, Erhard, on April 25.

Miss Mildred Schenck addressed the meeting of the Lake View farmers' club, Detroit, on April 25.

A. H. Larson assisted County Superintendent Ole R. Sande with field day exercises in Pennington county on April 24, and 25. On May 2 he will attend at Donnelly, Marshall county; May 5-8, Roseau county, and on May 12 at Angus.

A. K. Pierce's address is 1808 University Avenue, Minneapolis.

Bernice I. Nolan and her mother, 610 W. Franklin, Apt. 212, Minneapolis, were hostesses recently to a number of Northwest School faculty who were in the Twin Cities. Those present were Agnes Bothne, Anne Thiel, Lucille Dokken, Alma Johnson, Mary B. Meade, A. K. Pierce, D. H. LaVol, DeEtte Cenfield, A. H. Larson, A. J. Kittleson and Mr. and Mrs. J. P. Bengtson.

Katherine Kneeshaw and her mother, who spent a very pleasant winter in Florida, have now returned to their home in Pembina, North Dakota.

Bernice I. Nolan spent her between semester vacation at the Northwest School. She staid over for the commencement exercises.

Miss Lucille M. Dokken, who had charge of piano instruction in the Northwest School music department, the past year, has announced her engagement to Elmer Uggen, Crookston, who had charge of the school orchestra and violin instruction.

Supt. Selvig has accepted invitations to deliver commencement addresses at Waubun, May 28; Crookston, May 29, and Red Lake Falls, on May 31.

Fanny B. Lippitt is enjoying a month's vacation from her duties in the N. W. school dining hall and is spending it with her mother in Denmark, Iowa.