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MARSHALL COUNTY FAIR AT WARREN, MINNESOTA, AUGUST 10, 11 and 12, 1908.

SUPT. A. J. MCGUIRE GIVES RESULT

Gives Practical Result of Dairy Test Made at the Northeast Experimental Station.

Superintendent A. J. McGuire of the Northeast Experimental Farm at Grand Rapids, has sent us Bulletin No. 76, which, no doubt, will interest a large number of our readers and is reproduced for their benefit.

Mr. McGuire has made careful study of his fine dairy herds at the experimental station from which he gives us the following:

Number of cows milked, 17
Pounds of milk per cow, 4,730
Pounds of butter per cow, 222
Value of butter at 28c lb. \$64.54
Cost of feed per cow, Oct 15 to May 15, \$29.50
Net profit per cow, \$35.04
Of the 17 cows milked 7 were heifers.

Breed: Common grade cows, such as may be found on the average farm. The object being to show what may be done with the common cow.

The average milking period was 10 months.

Four fifths of the cows freshed in September. The feed from 1 to Oct. 15, was second crop clover pasture. From Oct. 15 to Dec. 1, fodder corn, stock carrots and bran and shorts half and half. After Dec. the fodder corn was replaced with clover and timothy hay and the stock roots with fodder corn ensilage.

The fodder corn was fed whole in bundles, a load being hauled in from the field as needed. It was fed in the manger, and there was no waste whatever. It contained much of its succulence and gave very satisfactory results.

The stock carrots were also fed whole and with the tops while they were being taken from the field. This was done in the way of an experiment for economy in time. While there was no bad results from feeding them whole, it is more desirable to cut them when time will permit.

The ensilage was made from fodder corn grown so thickly that no ears ever formed. It was cut Aug. 28, about two weeks after it had tasseled out, or soon after it had reached its maximum growth. Its yield on the higher land not so much affected by the wet season was 10 tons per acre. The quality of the ensilage made of this was first-class and gave very satisfactory results as a succulent winter feed. Compared with roots (stock carrots) ensilage gives a little better results pound for pound.

The quality of grain fed (bran and shorts) was determined by each individual cow: Two fifths the number of pounds of grain the cow could be made to give pounds of milk. A cow giving 10 pounds of milk daily got 4 pounds of grain, one giving 20 pounds of milk, 8 pounds of grain, and one giving 30 pounds of milk, 12 pounds of grain. In connection with this form 18 to 24 pounds of roots or ensilage was fed and all the fodder corn or hay that would be eaten up clean.

During the winter the feed per cow averaged about 6 pounds of grain, 10 pounds of hay and 20 pounds of ensilage daily. They also had access to the straw used for bedding.

The price of bran and shorts was figured at \$25 per ton, hay at \$10 per ton, and ensilage at \$2 per ton. It is estimated that the skim milk, calves and manure will pay for the labor and pasture.

The system of caring for the cows is one that is planned to economize as much in labor as possible so as to combine with the other farm work, as would be necessary and practical on the average farm.

The cows are fed but twice a day and watered once a day. The feeding, milking and separating is done before breakfast in the morning, and between 4 and 6 o'clock in the evening, giving a fair days time to the other farm work. The boys get to the barn at 5:10 in the morning and all the work is done on schedule time and in definite order. No farm

hand ever objects to the daily work, as the barn is clean, warm and well lighted, and things arranged so that the work may be done most conveniently. In the evening it is not added to the full day's work but made a part of the regular day's work, and finished at 6 o'clock.

The cows are turned out for a short time every day when the weather is at all pleasant, as they are turned out each day for water on the average farm.

The length of time they are left out is determined by a rule that is easy to remember, and important: "As long as a man would care to be out without an overcoat, and not working." The most common mistake made by farmers in carrying for their stock is in leaving milch cows out of door the greater part of the day in winter. When a cow is uncomfortable from the cold or any other cause she will produce but little milk.

The record of the herd for the past year (222 lbs. of butter per cow) is considered only fair. It was lowered considerably by the number of heifers in the herd but even then it is unsatisfactory. No farmer should be satisfied with cows that average less than 300 lbs. of butter yearly, and it is our aim to breed up a herd that will do even better than this, and through ways that may be followed by the average farmer. We are now using a pure bred Guernsey sire, and by keeping a record with the individual cows the poorer ones may be culled out, and heifers raised from the better ones to replace them.

There is often a great difference between cows, even of the same breed, and getting the same feed and care. The only sure way to determine the better cows from the poorer ones is by weighing the milk and testing it. Weighing the milk of each cow every day may seem unpractical but there is nothing on the farm that is more practical or of more value. It is a business proposition. A farmer who keeps a record with his herd won't sell a cow for \$30 or \$40 that will make over \$50 net profit in a single year, and on the other hand he won't keep a cow very many years that don't pay for her feed.

A daily record will tell more than that. It tells the comparative value of milk producing quality of different feeds. It will tell you that it don't pay to leave the cows out on a cold day, or to be irregular in feeding and milking them. And most of all it will give you an interest in the work. Instead of mere milking it becomes a business and gradually you will come to see that dairying is the most profitable work you can engage in as a farmer.

Dairy farmers the world over are the most prosperous farmers, and there is a reason for it. A dairy cow is the most productive of all farm animals. The common cow is capable of producing 5,000 lbs. of milk yearly or over two and one half tons. To one who has never kept a record with cows this may seem incredible but this amount is only common. Well bred dairy cows produce 8,000 lbs. of milk yearly on an average and in exceptional cases cows have produced over twice this amount.

Aside from the productiveness of the cow there is another reason why dairy farmers are generally prosperous. In raising grain from \$8 to \$12 worth of soil fertility is sold from the farm in every ton of grain, but when this grain is fed on the farm and the products sold in the form of butter, less than 50 cents worth of fertility is sold. The ton of grain containing \$10 worth of fertility sell at from \$20 to \$35. The ton of butter containing less than 50 cents worth of fertility sell for over \$500.

Northern Minnesota has natural conditions very favorable to the dairy industry. The general sentiment now is for dairying. Already the farmers' co-operative creamery is being successfully operated in many sections. Whenever 300 or more cows can be had within a township a creamery may be safely started. Information in organizing a co-operative creamery association, and building and equipping a creamery will be gladly furnished upon application. We have started to raise a breed of dairy cattle (the Guernseys) and what breeding animals we shall have to spare will be for sale at a very reasonable price.

Very respectfully,
A. J. MCGUIRE,
Superintendent.

MANY SCHOOL MA'AMS IN TOWN

Attendance at the Summer School has passed the 80 Mark.

The attendance at the summer school has already passed the eighty mark and is still climbing. Good work is being done by the student, teachers and their instructors, work that will make for better teaching in the rural schools. County superintendent has introduced the study of agriculture, and finds that it is creating a great deal of interest.

The following teachers are now enrolled in the school:

Warren: Esther B. Ballard, Emma A. Buchholz, Cora A. Head, Nannie E. Head, Minnie Holson, Julia Iverson, Rose Keppler, Della Magladry, Rose Maruska, Selma E. Peterson, Simon Raadquist, Mabel C. Roan, Signe Roley, Minnie Skog, Glynn Sinclair, Flo Wadsworth, Anna M. Boyd, Lillian Boyd.

Argyle: Lela B. Boyce, Amanda Elfrink, Ellen Grund, Esther M. Johnson, Selma C. Johnson, Julia Amanda Johnson, Geo. J. Proulx, Alice R. Wallace, Olive Stewart.

Stephen: Lottie Beebe, Florence Bush, Leesa Isaacson, Phebe A. Le Munyan, Hilda J. Lundin, Elsie Ozmun, Annie L. Sinnott, Bessie Sinnott, Mary C. Sinnott, Soohine Torreson, Anna Lundin, Bertha Mjoberg, Maggie McGlynn, Lillie Benson, Jennie M. Peterson, Carrie Peterson.

Alvarado: Olga M. Dagoberg, Anna J. Elden, Inga Imsdahl, Edna Sands, Selma D. Sylvander, Josephine Fering.

Fork: John Arness.

Bigwoods: Clara Tonderum, Annie Joranson.

Klep: Annie L. Bjorsness, Emily Bjorsness.

Newfolds: Mary Hevle, Olga Hevle, Alma Saugen.

Englund: Ada E. Johnson.

Viking: Freda M. Beckman, Bertha Forsberg, Ida R. Stengelsen, Hilda Rud, Clara Loverud.

Middle River: Elizabeth I. Rankin, Ruth Ann Rankin, Olga Willer.

Thief River Falls: Olga C. Larson, Alma Mickelson, Gunda Johnson.

Hellem: Ellen A. Forsberg.

Ellerth: Esther Thomas.

Foidahl: Amelia A. Hogberg.

Crookston: Edna L. Glenn, Emelia Lewton, Ina Mae Phillips, Ada H. Tofsv, Christine Ulseth.

Baitic: Emma Stokke.

Tabor: Mary Vavrina.

Llewellyn: Mrs. Hilda M. Silverness.

Oslo: Karen D. Flinseth.

Önskar päminna att biljetter till fller från Gamla Landet säljes billigast af Albin Young

A co-operative telephone route has been established north east from Angus into town of Helzeland, serving a number of farmers among them being: Mr. Sande, Mr. Gjerde, Oscar Hauglid, Ole Peterson, Gilbert Aurhauy, Albert Peterson, Christ Solvik, Albert Enzen, John Olson, Andrew Olson, Elling Olson, Martin Carlson, Hans Christifferson, John Dobeas, and Mr. Seoul.

GRADUATES FIRST CLASS OF NURSES

Three Young Ladies Finish Course of Training at Warren City Hospital.

Last Friday was an epoch making day in the history of the Warren City Hospital, as on that day it graduated its first class of trained nurses. The young ladies who have served in the institution nearly since it had finished the prescribed course of work and study and were given their diplomas. The names of the young ladies are: Miss Anna Erlandson, Miss Anna Svaren and Miss Hilma Wahlberg.

The graduating exercises were held in the Swedish Lutheran church, commencing at 8 p. m. For the occasion the church was tastily decorated in the class colors. Dr. T. Bratrud, president of the Hospital Association, had charge of the program.

First came the invocation by Rev. Grant Stroh, of the Presbyterian church, after which Henry Dalquist rendered a beautiful solo entitled, "The Lord is My Light."

Judge A. Grindelund, of the Board of Directors and a warm friend of the institution, next delivered a stirring address in which he first reviewed graphically the progress that Warren has made during the past quarter of a century. If any one had told him in the early days that Warren would some time have a large, modern and well equipped hospital like the one we now have, he would have considered it a dream never to be realized.

The enterprising people of Warren had gone ahead and added one improvement after another as the years have rolled by. The building of a modern brick school house and establishing a first class State High School, the flour mill, water works, electric light plant, sewer system, city hospital, Warren Business College, and North Star College, were among the institutions named. Mr. Grindelund spoke of the good work that the hospital has done since it was established and how it has been the means of alleviating human suffering and prolonging human life.

He praised the attending physicians, the head nurse and all the other nurses and attendants for their patient, faithful, skillful and self sacrificing work in caring for the numerous patients, and on behalf of the Board of Directors, he thanked them for their excellent service. The nurses' calling is a most noble one, and woman can fill it best of all. She is a ministering angel and knows best how to extend sympathy, solace and help in sickness and distress. He congratulated the young ladies who had finished the course and wished them success as they went forth into the world to do deeds of kindness and minister unto the sick and suffering.

At the conclusion of Judge Grindelund's address a quartette from the Swedish Lutheran church sang "Come, Where the Lillies Bloom." Dr. Bratrud then presented the diplomas, and the beautifully wrought hospital pin containing the words, "Deeds Not Words," to the members of the class. He thanked them for the faithfulness and devo-

tion to their duties which they have shown while in the hospital service. They had started in the work when the institution was yet in its infancy and its success problematical. Much of the success the hospital had attained was due to the excellent service rendered by the head nurse and the other nurses of the institution.

The doctor also thanked the citizens of Warren and vicinity for the great interest they have taken in the work of the hospital. A beautifully rendered vocal solo, "Oh, For a Burst of Song" by Minnie Tullar, and the benediction pronounced by Rev. E. O. Chejgren closed the first graduating exercises for nurses of the Warren City Hospital.

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Man Suicided after Dance.
Peter O. Ruud, of Thorwick, Minn., aged 48 years, after having unharnessed one of the horses he had just brought into the barn and partially unharnessed the other, discontinued his work and committed suicide by hanging. The suicide is the father of Mrs. Thomas Tharoldson, of Grand Forks, who was visiting at the parental home at the time of the affair, and Mr. Taroldson, who is employed on Grand Forks Times left for Thorwick, near Thief River Falls next morning.
Mr. and Mrs. Ruud had been to a dance on Saturday evening returning Sunday noon. Mrs. Ruud went into the house while Mr. Ruud proceeded to unhitch the horses. He had completed the work of removing the harness of one of the horses when he discontinued the work. A rope was thrown over a rafter and used in ending life.
It is supposed that the unfortunate man was delirious as he had been subject to such spells.

RACE SAVED HER CLAIM

Miss Ella Johnson Secures Decision at United States Land Office.

On Tuesday Judge Montague of the United States Land Office at Crookston handed down decision dismissing the contest brought by Mike Deep against Miss Ella Johnson to secure a homestead, near Fram, in Marshall County.

Miss Ella Johnson is assistant postmistress at Vining, in Otter Tail County, and May 13 last made a sensational race thru the swamps, 20 miles east of Middle River from her claim to Fram postoffice, where the hearing was had on the contest before Allan W. Clark, United States Commissioner at that point. Miss Johnson carried over 50 pounds of luggage on her trip.

Miss Johnson accepted the position as assistant postmistress May 2nd, 1907, and had held that position ever since.

Attended Normal.

The land office also dismissed the suit brought by Erick Anderson against Miss Emma S. Erickson, contesting the right of the lady to a homestead near Jevne north of Thief River Falls. Miss Erickson filed on the land April 26, 1904, and tried to make commutation proof September 1st last but proof was rejected as insufficient residence shown.

Miss Erickson had read in the papers that she was permitted to attend school and leave her claim and she had accordingly attended the Normal School at Moorhead and taught school, remaining away from her home.

August 17th last she was appointed and assumed the assistant postmistress position of the postoffice at Sooner, Minnesota. Contest was brought by Anderson this spring while Miss Erickson was away, but the contest is dismissed.

RADIUM REPLIES TO ALVARADO.
In last week's Sheaf some comments on the ball game between the Radium and Alvarado nines at Warren on the Fourth, are indulged in by the Alvarado correspondent. He tries to convey the idea that Alvarado played against a nine made up of Radium and Thief River Falls players, and that that is the reason they got beat. Now, we wish to state emphatically that said correspondent is entirely mistaken and is evidently trying to find a soft spot in which to light after the defeat. The Radium nine is made up entirely of residents of Radium and the town of Comstock in which the village is situated, there being not a single outside player from Thief River Falls or anywhere else. It is a home team with all that the name implies. The homes of every player can be pointed out if Alvarado correspondent wants to come here to investigate. No Radium does not need to import outside players. It has a team that we are not afraid to match with any other nine in the county. If Alvarado wants to cross bats again we are ready for them. But when criticising our ball team in the future keep to the facts.
F. W. Hilton,
Wm. Potucek.

WARREN FOUNDRY STARTS TO-DAY.

The iron foundry of the Warren Machine & Iron Works Co., expect to turn out their first castings this afternoon. This new enterprise has been established in our city without any blowing of trumpets. A building has been erected for the foundry in the rear of the machine shop and during several weeks past skilled workmen have been busily engaged in making moulds and doing other work preparatory to the opening of the foundry. Several orders for castings have already been received, the first one being from F. S. Doege & Co., general contractors, of Thief River Falls, who have ordered 2200 lbs. of sash weights.

The establishing of a foundry means much for the city, as it will furnish employment to a number of men, who with their families go to swell the population of the city. It is also a splendid advertisement for Warren. The enterpriser of the Warren Machine & Iron Works is certainly commendable. A few more such energetic and pushing concerns would be very desirable.

The German Luth. Congregation at Radium will celebrate their mission festival in Frank Monroe's gorge, on Sunday, July 19th. Services will be conducted in morning at 10:30, and afternoon at 12:30. In the morning services which will be in the German language Rev. H. C. Ritz, of Minneapolis, will preach and in the afternoon services, which will be in the English language, Rev. I. T. Aastad, of Thief River Falls will preach, who will also make a few remarks in the Scandinavian language. The choir of the Synod church of Warren will render selections for both services. Dinner will be served to all participants free of charge. Our many Lutheran friends in and around Warren, as well as the public in general are cordially invited.
Rev. F. J. Seltz.

POSITION WANTED.
In general store by Scandinavian. Age 27 years. Have seven years experience in northern Minnesota. Address No. 501, Warren, Minn.

A nice line of souvenir postal card albums at the Sheaf office.

FARMERS' MEETING.
C. O. Dravton, President 'the Illinois State Union of the American Society of Equity' will meet with the farmers of this locality on July 25th, at Warren, two o'clock, at Opera house.
Subject of Address.
"How to Secure Profitable Prices for all Farm Products."
He will explain in detail the principles of controlled marketing and price making on the farm and show how the uncertainties in prices for farm products is being removed.
All who are interested in securing profitable prices for farm products are especially requested to attend this meeting. This movement effects every product of the farm.
Come and bring your wife and young folks.