

Minnesota Extension News

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No. 7

8 N. W. Counties Tackle Phosphate Deficiency

AT least eight counties in the north-west district have decided to make the problem of phosphate deficiency in livestock a major project this year, according to C. L. McNelly, district county agent leader. The counties are East Polk, West Polk, Pennington, Traverse, Norman, Yellow Medicine, Wilkin and Stevens. Kittson and Roseau are also considering the plan.

West Polk and Traverse have made application to feature the phosphate problem in a county extension project booth at the State Fair. It is probable that one of them will be asked to handle such a booth. A film strip, covering the subject of phosphate deficiency very comprehensively, is being prepared which will be available, early in April, to any of the 30 counties in the affected area. East Polk is planning meetings in every community, and will be assisted by T. W. Gullickson of the dairy division, who has done much of the research work in connection with this problem, and D. C. McLeod of the Soo Line Railway.

The project aims to make available to people generally in the affected areas the new research information on this problem brought out by the dairy and biochemistry divisions.

Five Counties Plan Big Drive on Wheat Smut

STEVENS, Lac qui Parle, Traverse, Yellow Medicine and West Otter-tail counties are making an intensive drive on smut in wheat this spring and throughout the season. Agents from these counties held a conference with R. C. Rose, C. L. McNelly and others, at the West Central School at Morris on February 17 and discussed plans for carrying on the program. Speakers included H. R. Sumner, secretary of the Northwest Crop Improvement association, Dr. R. J. Haskell, extension plant pathologist, Washington, D. C., Mr. Rose and Lynn Sheldon of Lac qui Parle county.

Included in the program in each county will be meetings of the county smut committee, a meeting of grain buyers, and another of local milling or elevator men. Methods and result demonstrations, including a tour, will also be put on and surveys will be made to determine smut losses and the effectiveness of various control methods. Township committees will be appointed to see that seed treating supplies and facilities are available, to take orders, and to arrange for township meetings and other local details.

Follow-up work will be done with druggists, elevators, farmers, and terminal markets. Posters, window displays, circular letters, and other exhibits and publicity will be used.

Churchill, McNally, Silcox and Partan now have mats ready.

Coming Events

- April 23-25, 1931—High School Livestock Judging Contest, University Farm
April 25, 1931—Annual Meeting, Minnesota Chapter, Future Farmers of America, University Farm
April 28-30, 1931—Mid-West Extension Supervisors Meeting, Lincoln, Nebraska
- DISTRICT ANNUAL CONFERENCES**
- May 5-6, 1931—Rochester
May 7-8, 1931—Marshall
May 12-13, 1931—Crookston
May 14-15, 1931—Grand Rapids
- May 7-9, 1931—Editors' Short Course, University Farm
June 3-5, 1931—4-H Leaders' Camp, Itasca Park
June 8-11, 1931—4-H Short Course, Crookston
June 8-13, 1931—American Institute of Co-operation, Manhattan, Kansas
June 9-12, 1931—Junior Short Course, University Farm
June 15-16, 1931—West Central 4-H Short Course, Morris
June 15-18, 1931—Sixth Annual Women's Camp, Crookston
September 5-12, 1931—Minnesota State Fair, St. Paul

Home Demonstration Conference Brings New Ideas and Inspiration for 1931

(The following account of the conference consists mainly of excerpts from the Summary prepared by a special committee of which Miss Gwendolyn A. Watts, Rice county, was chairman.)

SEVENTEEN home demonstration agents; the state leader, Miss Julia O. Newton; and seven subject matter specialists attended the twelfth annual Conference of Home Demonstration Workers at University Farm, March 2 to 7. During the latter half of the week, some 40 county and urban home chairmen met with the home demonstration agents and the state staff to take up problems relative to the Extension-Farm Bureau plan of work.

Four new home demonstration agents were added during the past year. The ever-increasing demand for extension work has, since two and one-half years ago, brought an increase of more than 100 per cent in the number of home demonstration staff members. The annual conference fills a great need in maintaining the year's program of work, and in bringing to the workers new and better ideas, maintaining high standards, and providing for a helpful exchange of ideas and methods.

Following are the counties represented and the names of their delegates:

Anoka, Mrs. W. E. Bradley; Blue Earth, Mrs. A. D. Stanford; Brown, Miss May Bertrand; Cottonwood, Mrs. John Grant; Dodge, Mrs. G. A. Gray; Faribault, Mrs. O. T. Osmundson and Mrs. W. F. Merrill; Freeborn, Mrs. Albert Ruble; Goodhue, Mrs. T. L. Perkins; Hennepin, Mrs. J. C. Heinemann; Houston, Mrs. E. J. Schech; Itasca, Mrs. R. B. Rasmussen; Lac qui Parle, Mrs. Henry Roise; LeStueur, Mrs. John Coughlin; Lincoln, Mrs. Sofus Lund; Lyon, Mrs. Hector Marcotte; Martin, Mrs. H. W. Brodt; Mower, Mrs. R. C. Hastings; Murray, Mrs. O. C. Wornson; Nicollet, Mrs. Ralph Buckeye; Nobles, Mrs. W. W. Gundry; Olmsted, Mrs. G. W. West; Pipestone, Mrs. C. C. Gilmore; Ramsey, Mrs. P. H. Hamm; Redwood, Mrs. C. D. Clippell; Rice, Mrs. A. J. Lashbrook; St. Louis, Mrs. Fred Ward and Mrs. Alex Savolainen; Steele, Mrs. Wm. J. Mollenhauer; Stevens, Mrs. H. D. Hultgren; Wadena, Mrs. Thomas Ross; Waseca, Mrs. Fred D. Scholljegerdes; Washington, Mrs. H. G. Maxfield; Wilkin, Mrs. Margaret Marsh; Winona, Mrs. H. S. Groger; Watonwan, Mrs. W. J. Marsh.

The three urban representatives were as follows:

Minneapolis, Mrs. J. W. Anderson; St. Paul, Mrs. W. G. Metcalf and Mrs. John Dando.

The Economic Aspect

In speaking to the home demonstration staff, Director F. W. Peck stated that there is need to consider the economic challenge in home demonstration work. Aims for meeting this challenge might include increasing the family income, or effecting a monetary saving through wiser home expenditures. Still another might be the saving of time through one's efforts. It may be by increasing human satisfactions.

In appeals to economic reasoning, many things must be considered. The list includes economic gains; health (from the standpoint of efficiency); leisure time; pride of accomplishment; beauty; comfort; and education.

Are We Blue Printing Our Work?

"We need to get an engineer's viewpoint of our jobs," was Director Peck's statement in leading a discussion with the home demonstration staff. "In analyzing our respective pieces of work there is a need of defining the work clearly. What is it? The need to be accurate, positive, to use simple terms, be concrete and logical. Our methods of attack need to be practical and organized. In the attack, you are the engineer who plans the work and others do the work. Break the problem into parts. Plan for co-ordination."

(Continued on page 2)

Anthony Rollin To Be Assistant in Aitkin

ANTHONY R. ROLLIN has been appointed assistant county agent for Aitkin county, from April 1 to September 15. He will secure county agent training under Christian Nash.

Mr. Rollin was graduated from the Minnesota College of Agriculture in 1926, and since that time has been with the De Laval Separator company, doing sales and inspection work among dairy farmers. In addition to this experience with the dairy industry, Mr. Rollin spent 10 years working with dairy cattle on the State School dairy farm at Owatonna, and 5 years with the Dairy division at University Farm while attending college.

Besides earning his way through college, Mr. Rollin found time for football and wrestling on varsity teams, and in 1925 taught wrestling and basketball at the School of Agriculture. He is well known to many Minnesota county agents and other extension workers, who wish him much success and enjoyment in the extension fold.

Norman County Putting In County Agent Again

COUNTY agent work is being re-established in Norman county. George Landsverk, Fosston high school agriculture instructor, has been hired to take over the office on June 1. Clement C. Chase, assistant agent in West Polk for the past year, who will handle the work until Mr. Landsverk comes, began on March 16. The Norman county farm bureau organization has remained active since the extension work closed there about a year ago, and has again taken the initiative in reestablishing the service.

Mr. Landsverk is a graduate of the North Dakota Agricultural College in 1926. He was raised on a farm in the Red River Valley and for 2 years operated the old home farm while the estate of his father was being settled. He has been at Fosston the last 2 years where he has made a fine record, and has cooperated closely with Russell Morgan, county agent, on club work and community activities.

Mrs. Miller, Mrs. Olsen Die

The week of the annual Home Demonstration Conference was saddened for Miss Mary May Miller, home management specialist, and Miss Anna S. Olsen, Hennepin home demonstration agent, by the death of their mothers. Mrs. Miller died at Fargo, N. D., March 6, following an illness of several weeks. Miss Miller had been with her mother since February 18 when she was called home. Mrs. Olsen died at Minneapolis, February 27. Her health had been failing for some time. Miss Olsen had been with her mother for a week before her death, but attended a part of the conference afterward.

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APRIL, 1931

A caller at the Extension office recently made this remark, "I wish it were possible to bring pressure to bear upon the county agents to insure the inclusion of this proposal in their regular programs." During the same afternoon, another caller, in describing his relations with county agents in several states, emphasized the point that it had been his impression that the agent was subjected to all types and degrees of pressure from outside agencies to take certain projects into a program, to emphasize this or that phase of a project, or to undertake this or that responsibility.

The Extension Service is always under pressure. It works under pressure. A driving force develops a physical, as well as a mental, strain, unless this pressure is recognized, weighed and measured, and utilized as an advantage to the work, rather than as an adverse influence. This pressure, with which every extension worker is confronted, emphasizes the great need of calmly studying the extension job, of getting a true prospective of the essential relationships with the various co-operating groups, and so organizing the work as to profit by, rather than suffer from, the many types of pressure.

Without adequate planning of the extension work in the counties, or in the State office, there soon is developed a haste in the doing of daily tasks and a frantic seeking of ways and means to meet emergencies. This is in contrast to careful development of a planned program in which individuals have their own selected parts to play and which, as it develops, unfolds into a well recognized piece of valuable educational extension service.

What I am trying to say is, that there is a distinct difference between being on top of a job—even under pressure of various kinds—and having the job on top of one, dictating the emphasis here and there in a haphazard way and leaving in the minds of the workers a feeling of futility, of unorganized effort, of lost motion, or indefinite results, and finally a question as to whether the work is worth while.

There is a distinct difference between yielding to pressure and using the spur of pressure to grasp an opportunity to further one's job. But, in any event, to be constantly dominated by pressures of any kind, is to be mastered by expediency and by the dictates of those who often would

use educational organization for selfish private ends.

The Extension Service can afford to be spurred on by the proper types of pressure, but never to be mastered by them.

Home Demonstration Meet Brings Ideas, Inspiration

(Continued from page 1)

4-H Club Work Discussed

If we are to have 4-H club work in the full sense of the term we need to place greater stress on the Health H of the 4-H club name, according to T. A. Erickson, state leader for 4-H club work. To date, health work in club work has been almost incidental when compared to other projects. In creating more interest among our 4-H club members in health work, the co-operation of parents, doctors, nurses, and many others will be of help.

A Health record was shown with the suggestion made that it be stapled to each record blank and each member urged to record their food choices and general health rules. This was discussed at some length and a committee appointed to work out the best means for securing health records—Miss Boyd, chairman, and Misses Deniston, Stewart, Wessel, and Schenck.

Publicity Is Important

H. L. Harris, publicity specialist, discussed the subject of helping group reporters. Among suggestions brought out in the ensuing group discussion, Miss Reid stated that the publicity school conducted in Nobles county had brought marked improvement in the work of reporters in that county. On assurance from Director Peck that funds would be available for the publicity specialist's help in conducting such schools during the next year, Miss Newton recommended to all agents that they consider the matter seriously and make requests for help if desired.

It was decided that Mr. Harris, co-operating with the home demonstration specialists and agents, should prepare a mimeographed circular embodying suggestions for group reporters, and make copies available to county and home demonstration agents.

Teaching Problems

Principles of teaching were admirably discussed by A. B. Graham of the United States Department of Agriculture. Good teaching leads from the known to the unknown, from the concrete to the abstract; it starts from a simple practice and lets the people know that before beginning something else. It instructs them to do a thing and then find out why afterwards. To teach more successfully the things in keeping with men's needs we must know their mental characteristics. The purpose of a teaching process is to guide the mind of a person to do a thing better than he had done it before.

In a second talk, Mr. Graham stressed the use of fundamentals of teaching. He stated that pleasure or comfort are the basis of every motive for action. The desire for them must be satisfied and to do this a variety of means and agencies and continuity of thought are required. The teach-

ing requires knowledge of four groups of people. The first have initiative; the second group or type have some initiative, but the imagination is predominant; the third group intelligently imitates, while the fourth have their chief interest in doing what the group does.

Why Do We Remember?

As Miss Reid says, "Why Do We Forget?" might interest us a lot, but "Why Do We Remember?" by Mr. Graham interested us even more.

You cannot make people remember very much unless they have a present or anticipated use for the information, thinks Mr. Graham. What they feel they need or will need, they are eager for.

Miss Ethel Phelps of the home economics staff of the University of Minnesota, in speaking of the household buyer and methods of standardization, explained the research work being done on standardization of products used in the home and recommended reference material each might get. She supplied each with printed material and showed booklets also giving information on the subject.

Mrs. Erkel, urban home demonstration agent from St. Paul, discussed ways and means of passing on this material to women in the various counties. Among the means suggested were summer project study on standardization, work with the General Federation of Women's Clubs, Farm Bureau talks, etc.

Marketing Farm Home Products

Farm production and marketing are inseparably connected, according to Dr. O. B. Jesness, chief of agricultural economics. Products need to be produced with the market definitely in mind. The term "home products" he takes to include eggs, poultry, preserves, jams, jellies, and many other products. In the southern states, considerable in the way of basket making, bed coverlet weaving, etc., are resorted to by farm women as added sources of income.

Each should try to imagine the consumer and his wants, trying to produce goods of quality, uniformity and fair price. Confidence must be built up.

What About the Family Budget?

Well qualified to talk on this subject, Professor Charles Lively stated that the development of farm household accounting in a state may be expected to result to some extent in the changing of family buying habits, increasing the contribution of the farm garden, improving family nutrition, increasing returns for money expended, increasing intelligence about problems of living on the farm, and increasing appreciation of the value of living from the farm.

The extension services often find the needs of, and subject matter for, new projects. The home management project gains basic help. Greater co-operation among specialists result, i.e., home management, nutrition, gardening, and farm management. And finally the work may serve as the focus for all work with the family.

Material Equipment of Family Life

Professor Lively continued his contribution to the program with a discussion of the material equipment of family life, saying that the traditional family of American literature is the farm family, not the urban one.

Material equipment refers to housing and moveable furnishings and equipment. On a farm there is a

trend to include more of the fixed equipment like built-in furniture, etc. Equipment is made for economic or domestic arts, which are most important, and for cultural, recreational and other social purposes.

The best of equipment is important for the housewife so that she does not suffer from over-work and so that she does not neglect her family. It must always be remembered that the housewife is first of all, not just a laborer, but primarily a wife and mother.

Following a visit to the Northrop Memorial Auditorium to attend an address by Admiral Wm. S. Sims, the groups heard Mr. Graham talk on Home Recreation. Mr. Graham emphasized the need for recreation. Much recreation appears to be passing amusements, but we never can tell. Let's never look at it as trivial. And let's not spend all our time on community welfare, but take our little folks in our own homes and play with them, and bring others to doing it, too.

Homemade tops and other toys, shadow pictures and "homemade" games have a mighty fine appeal and much can be taught with them. Tell or read standard stories, and we need not be fearful of having well illustrated, suitable books that are beyond the years of the child.

Dean Coffey Discusses Life About Us

Attempts have been made to distinguish between a high standard of life and a high standard of living. And rightly so. Although a high standard of living can aid and exalt a high standard of life, we must keep in mind that a high standard of life takes precedence over a high standard of living. Therefore when conditions threaten our standard of living we must use all possible ingenuity in preventing any let-down in our standard of life.

In country and city alike, we are faced by the possibility of lower material standards of living because of unfavorable economic conditions. One good way out is to produce more of the family living at home.

By drawing on more of the things we may have around us, we can appreciate life about us more than we otherwise could. There is genuine satisfaction to be secured by watching a well kept garden grow. Trees in blossom and in fruit are a joy to look at. Stocks of food in the cellar give a sense of satisfaction and security which aids the standard of life.

Home Extension Work in Saskatchewan

"This work is carried on by Homemakers' Clubs, by women's sections of the United Farmers of Canada, by agricultural societies, ladies' aid societies, and community clubs," stated Miss Bertha Oxner. "The work began in 1911 by the union of a number of women's clubs in the province on a non-sectarian and non-partisan basis, taking as a motto "For Home and Country." Now affiliated with the Homemakers' Clubs are the Provincial Council of Women and the Federated Women's Institutes of Canada.

Organization Activities Are Educational

Mrs. E. V. Ripley, state home and community chairman, talked on the "Development of Farm Women Through Organization Activities." "The development of farm women

(Concluded on page 4)

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4-H Staff Members To Aid in Summer Camps

DATES for a number of county 4-H club camps have been filed with the state club department. The list of counties, together with the dates and members of the state club staff assigned, follows:

- Leaders' Training Camp, Itasca Park, June 3-5—Erickson, Schenck and Pflughoeft
- Steele, June 1-3—Stegner and Wessel
- Waseca, June 4-6—Stegner and Wessel
- Stevens (Morris short course and camp), June 15-18—Giberson, Schenck and Wessel
- Cottonwood, June 15-17—Stegner and Halvorson
- East Ottertail, June 18-20—Kittleson and Halvorson
- West Ottertail, June 18-20—Pflughoeft and Wessel
- Roseau, June 22-24—Pflughoeft and Halvorson
- Clearwater, June 24-27—Pflughoeft and Halvorson
- Dakota, Goodhue and Olmsted (Old Frontenac), June 25-28—Kittleson and Wessel
- Scott, Nicollet and LeSueur, June 29, 30 and July 1—Kittleson and Halvorson
- Houston, July 1-3—Stegner and Halvorson
- St. Louis, July 7-10—Kittleson and Schenck
- Fillmore, July 13-15—Stegner and Halvorson

Work for Older 4-H'ers Should Be Emphasized

EVERY leader and extension agent is urged to emphasize the work with the older boys and girls. These larger projects provide one of the best contacts with actual farm and home operations.

This year the 4-H program includes advanced projects in practically all lines. The following are the most important:

- The production project for dairy club members, in which they keep production records on one or more producing cows.
- The ton-litter for the pig club members.
- The 10-ewe project for sheep club members.
- The flock-of-50-pullets production contest for poultry club members.
- The 5-acre project for corn club members.
- The advanced baking and the room furnishing projects in the home economics work.
- The junior leadership project which is especially desirable.
- Special awards in the form of scholarships, educational trips, medals, etc., are offered for all of these projects.

22 Summer Club Leaders Begin Work in April

THE following counties have completed arrangements whereby they will employ a 4-H club leader this summer to assist the county agent in carrying out his program of boys' and girls' club work:

- Houston—Marjorie Perrizo, Delevan (Home address)
- Fillmore—Ruth Utley, Preston
- Murray—Esther Peters, Slayton
- Cottonwood—Irene Hanson, Mankato
- Watsonwan—Irene Haseman, Butterfield
- Scott—Lily Drews, Fergus Falls
- Blue Earth—C. J. Arnold, Mankato
- Crow Wing and Morrison—Gertrude Anderson, Little Falls
- Olmsted—Esther Kunerth, Rochester
- Ramsey—Clara M. Oberg, St. Paul
- Waseca—Dorothy McGrath, New Richland
- West Ottertail and Wadena—Arletta Ness, Murdock
- Pipestone—Sophia Boerboom, Ghent
- Winona—Mrs. Della Marie Selvig, Lewiston
- Washington—Alma Josephson, Withrow
- Hennepin—Fred Johnson, Deerwood
- Nicollet—Wayva Baustian, Jasper
- East and West Polk—Evelyn Bierbaum, Clearbrook

In addition to the above, the following non-agent counties have also provided for summer club leaders:

- Douglas—Arvid Sponberg, New Richland
- Grant—Viola Ellison, Elbow Lake
- Pope—Arthur Grove, Roseau county
- Stearns—Frederick Welch, Barnum

Most of the leaders will begin their work April 1 or 15 and will continue until after the State Fair or, in some cases, until after the local county fair.

Dry Milk Contests In Dairy, Poultry Work

IN order to stimulate the use of dry skimmilk in the territory of the Twin City Milk Company, and other communities where whole milk is sold, two \$100 scholarships are offered to the winners in the dairy calf and poultry projects who show best results from feeding dry skimmilk. One scholarship will be given to the 4-H member raising the best calf on dry skimmilk, while the other will be awarded the poultry club member getting the best results by feeding dry skimmilk to chicks.

Calendar for 4-H Reports From Counties

It is very necessary that certain reports be made to the State Club Office, on or before definite dates, in order to qualify winning club members for state and national events. The following are the most important. *Mark all of these on your calendar for 1931:*

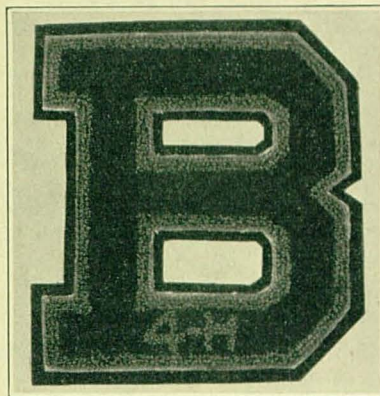
- May 1—Report county trip winners to Junior Short Course, University Farm
- July 1—Final date county club enrolments
- July 15—Recommend one candidate from livestock work for McKerrow scholarship
- July 15—Recommend one junior leader for trip to National Club Congress
- August 20—Report all individual and team winners of State Fair trips
- September 15—Recommend county dairy club candidate for trip to National Dairy Show
- September 15—Dairy production contest records must be in state office
- September 15—All junior leadership reports to be sent
- October 10—Report representatives to Junior Livestock Show
- October 15—Report county garden club winner
- October 15—Report county potato club winner
- October 15—Send all reports in the special meat animal production contest, for Thomas E. Wilson awards
- October 20—Send all records competing for International Harvester scholarships
- November 15—Report county corn club winner
- December 1—Report two candidates for 1932 State Fair Farm Boys' Camp

These are final dates. Club members' individual records should accompany reports.

Blue Earth H. S. Honors Students for 4-H Work

FOUR-H club work has been recognized as a major activity by the Blue Earth high school of Faribault county, which this year awarded letters to 14 students who had won state or national trips for 4-H club work. This idea, initiated by Superintendent Lee R. Pemberton, and the school principal, Miss Florence Nibbe, places club work on a par with other leading activities of the school, such as debating and participation on athletic teams. The letters awarded for these different activities are identical, except for the emblem placed near the bottom of the letter, as shown in the accompanying photograph.

The awards were made at the annual activities banquet at the school auditorium. Miss Mary Jane Boyd, Faribault county home demonstration agent, presented the letters to the seven girls, and A. E. Engebretson,



Activities letter awarded by Blue Earth high school to students for 4-H achievement

Faribault county agent and livestock specialist, to the seven boys. Honors won included 10 state trips and four national trips, an equal number of each having been won by the boys and the girls.

Roy Pettinger of Blue Earth, Minnesota's 1929 candidate for the Moses trophy, received three letters, one each for basketball, football and 4-H club work.

Another Minnesota high school which recognizes 4-H club work similarly is that of Bloomington. Eligibility for such awards depends on satisfactory grades, as well as the necessary honors in club work.

The 1931 State Fair 4-H premium lists are ready. How many can you use?

Suggestions for April Or May Club Meetings

LAST month the 4-H clubs put special emphasis on the health H in their club meetings. For the April or May meetings, special stress may be put on some other phase of our club program such as "Requirements in Our Club Projects." The following suggestions are given for such a meeting:

1. Club pledge
2. Ploughing Song
3. Roll call—Each member responds by naming his project and short report on progress to date.
4. What Is Required of Us in Our Project, by a boy or girl for each project taken up in the club.
5. Talk—The Value of the Record in Our 4-H Club Work, by county agent or club leader.
6. Short individual demonstration (not over three or four minutes) by one of the club members on some subject such as "Making and Fitting a Calf Blanket"; "The Ration I Feed My Calf"; "Measuring Flour", etc.
7. Dreaming Song

Other suggestions may be had by referring to Organization Bulletin No. 1.

Farm papers and other magazines publish from time to time material that is quite suitable for club meetings. Ask all boys and girls to be on the lookout for such material. Appoint a librarian to collect and keep this material for future club meetings.

Health Topics Fine For Demonstration Teams

NOW is the time to plan your demonstration team program. Extension agents and leaders are urged to emphasize topics for demonstrations which bring interest to the health work.

The following are a few excellent subjects for the dairy demonstration team:

- How To Use a Quart of Milk a Day Making and Serving Cottage Cheese
- Making and Serving Cream Puffs, Cream Pie, or other Custard Dishes

These are good subjects for the garden teams:

- An Apple a Day (Show various ways of serving an apple: in salad, baked, etc.)
- A Vegetable Salad

- Make and Serve a Creamed Vegetable
- Clothing and Room Furnishing subjects:

- How To Make a Bed
- Selecting and Fitting School Shoes
- Be Your Own Best Exhibit

The canning demonstration team has an excellent opportunity of emphasizing the health work through such subjects as:

- Canning Tomatoes and How To Use Them
- Canning Vegetables for a Balanced Meal
- Canning Fruits and How To Use Them

4-H Radio Programs

Every Saturday from 12:35 to 12:55, Station WCCO will broadcast a national 4-H program. Every Saturday from 12:45 to 1, Station KSTP broadcasts a Minnesota 4-H club program. The first Saturday of each month, Station KSTP also broadcasts a national 4-H program from 11:30 to 12:30.

Health Program Material

The health program material is available and the back orders are being filled. It is hoped that all club members will get started soon. Four-H leaders and members are taking up the health work with great enthusiasm.

What's This? Yes, It's True! Congrats, Henry!

HENRY G. ZAVORAL, livestock specialist, on leave in Russia as an adviser to the Soviet government, will bring back a wife from Moscow. This interesting announcement, which has been rumored at University Farm for some time, has been confirmed by Miss Angie W. Keenan of Minneapolis, who is to become Mrs. Zavoral, April 14, at Berlin, Germany.

Miss Keenan is a graduate of the University of Minnesota, and for the past few years has been personnel director at the Young-Quinlan store. Previously she was employed by the National Dairy Council.

Miss Keenan planned to sail from New York City, April 2, on the S. S. Berlin to Bremen, and proceed from there to Berlin, arriving April 12. There, Henry plans to meet her while visiting Germany in the interests of the Soviet Union. It is understood that the official purpose of his trip is to purchase purebred livestock. Mr. and Mrs. Zavoral will make their home at Moscow until September, when they plan to return to Minnesota.

Harriet Jones Quits; Returns to Indiana

MISS HARRIET JONES, who has been in charge of the mailing room at University Farm since 1913, has resigned. She returned April 1 to her home in Indianapolis, where she will live with a sister. Miss Jones went as far as Lafayette, Indiana, with Miss Laura B. Hadley, who is leaving the home economics staff at University Farm to take up a position at Purdue University in her native state.

Miss Jones will be greatly missed by her many friends and all those of the extension service whom she has served so faithfully the last 15 years. Since 1928, when the mailing and mimeograph departments were merged, Miss Jones has been in charge of both these services, which now require a staff of six. During 8 years of her stay in Minnesota, Miss Jones made her home with Miss Alice McFeely, assistant bulletin editor.

Lamb Production Contest To Set New High Mark

ALTHOUGH entry blanks have not been called in, indications are that the Lamb Production contest will enroll a record number of contestants, says W. E. Morris, who is in charge. William Sharkey and Sons of Le Sueur county were first to enter. County Agent Hugh Firmage also reports several other entries. The largest number so far reported from any county was seven from Clearwater.

That this contest is of great educational value is proven by the steady increase in the average production per ewe during the 3 years it has been held. The average production of lamb per ewe for the men who completed the first year was 84 pounds; the second year, 100 pounds; and the third year, 111 pounds. This point stands out the more clearly because the 1930 champion, Frank Passi of Pitt, was a participant all 3 years, the first year producing 104 pounds of lamb per ewe, the second year 120 pounds, and last year setting a new contest record of 159.8 pounds, at the same time raising a larger flock than ever before.

Wm. Underwood, Former Minn. Agent Is Killed

WORD reached University Farm recently of the accidental death of William W. Underwood, former Minnesota county agent and extension worker, and more recently farm management specialist at Purdue University, Indiana.

Mr. Underwood was a native of Minnesota, born at Hutchinson in 1884. He graduated from the University of Minnesota in 1913, having been an extension office assistant from 1911 to 1913. From 1913 to 1916 he was county agent in Lac qui Parle county, when he went to South Dakota as county agent, later becoming assistant state leader. Thereafter he was assistant director of extension work in Washington. In August, 1929, he came to the University of Minnesota for a year of graduate work, and in August, 1930, become a member of the Purdue farm management department.

Details of the fatal accident, supplied through the courtesy of the Purdue publicity department, are as follows: "Mr. Underwood was driving toward Bloomington, on Road 27; witnesses reported that he turned out to avoid a snowdrift; his car struck an icy spot on the road and spun around, striking the rear end of a coupe. Underwood's car was overturned and he was thrown out. He was unconscious when passersby reached him and he died 2 hours later at the hospital."

Home Demonstration Meet Brings Ideas, Inspiration

(Concluded from page 2)

through organizations," says Mrs. Ripley, "often reveals hidden qualifications, characteristics and abilities that are as much of a surprise to the woman herself as they are to those who are watching the development. If this development is to be well-rounded and balanced it should be three-fold, of the mind, of the spirit, and of the body.

"The organizations that furnish the greatest opportunities for this growth and development are:

1. The home, which is the most important organization
2. The church, that develops the spirit
3. The community organization, that considers the economic, social and recreational needs of the farm family

It is within these organizations that the farm women spend most of their time, thought and energy."

Two other interesting and valuable talks were those by Dr. L. S. Palmer of the agricultural biochemistry division, "Vitamins Fresh From the Farm," and Miss Wylle B. McNeal, head of the home economics division, "Adapting Home Economics Education to Meet Changing Social and Economic Conditions." No copies or abstracts of these addresses were available in advance, so extracts from them were unavoidably omitted from the summary report.

More than 200 4-H club members had enrolled in Scott county up to March 25. At least 400 members are anticipated by May 15.

Eight counties in southwestern Minnesota have organized the Southwestern Minnesota Shorthorn Breeders' association. One or two consignment sales of top cattle will be held annually, the first to be held in June.

Farm Economics

Conducted by W. L. Cavert

Corn, Alfalfa Best S. W. Crops in 1930

THE following is an abstract of the data presented in a recent report by Professors Geo. A. Sallee, G. A. Pond and Routeman Robert H. Loreaux of the division of Agricultural Economics on the cost of field crops in Rock and Nobles counties in 1930:

Kind of crop	Yield per acre	Cost per bushel or ton	Dec. 1 price per bushel or ton	Return per man hour	Return for land per acre
Husked corn	31.7	\$.54	\$.48	\$.16	\$ 4.23
Oats	50.7	.27	.24	.10	4.65
Barley	29.2	.48	.38	none	3.07
Flax	13.0	1.31	1.48	.58	8.25
Alfalfa	1.6	8.80	14.50	1.17	14.31
Silage	5.1	4.34	4.50	.35	6.80

Man labor was charged at 30 cents per hour, horse labor at 10.5 cents, tractors at 75 cents and \$1 per hour and land at \$6.00 per acre. The foregoing figures merely put in black and white the general experience that it has been difficult to make money with staple crops at current prices.

It is interesting to note that, with the yield reduced to 1.6 tons by dry weather, alfalfa was produced at a cost of \$8.80 per ton. This indicates that with normal yields alfalfa can be produced in this territory for about \$7 per ton with land rent and labor as in 1930. Probably, the 1930 price of \$14 per ton is materially higher than can be expected in this section over a period of years. However, the figures do emphasize that alfalfa should be raised abundantly.

In the care of corn, the cost per bushel varied from 43 cents per bushel to 77 cents. Expressed in terms of per man hour after allowing for other costs, the return varied from 46 cents to less than nothing.

The authors show the following table as to costs and returns per acre, based on average yields and prices:

	Corn	Oats	Barley	Flax
Cost per acre	\$17.40	\$14.24	\$14.33	\$16.85
Yield, 10 year average, bu.	34	35½	30	10¾
Cost per bushel	\$.51	\$.40	\$.48	\$1.57
Dec. 1 price, 7 year average	\$.64	\$.35	\$.55	\$2.21
Net return per acre	\$4.36	\$1.81*	\$2.17	\$6.91

* Loss.

With prices and yields as they have been, flax and corn have been the outstanding cash crops for profit. Success with flax is limited to land that is fairly free of weeds. Barley shows up better than oats but the advantage of barley over oats is probably limited to land that has been maintained in a high state of productivity.

Corn and Alfalfa Low Cost Feeds

The following table has been prepared as to the cost of digestible nutrients in the various feed crops.

Crop	10 year average yield	Digestible nutrients per acre			Cost per 100 lbs. Total nutrients
		Protein	Other	Total	
Grains	Bu.	Lbs.	Lbs.	Lbs.	
Corn	34	135	1,769	1,904	\$1.12
Barley	30	130	1,310	1,440	1.25
Oats	35½	110	1,026	1,136	1.78
Roughages	Tons				
Alfalfa	2	424	1,616	2,040	\$.78
Cornfodder	2¾	204	2,442	2,646	.70
Wild hay	1	60	904	964	.87
Silage	6	156	2,028	2,184	1.10

Gopher Oats and Velvet Barley Yield Best

Extension workers will be interested to know that Gopher oats out-yielded other varieties by a wide margin. The figures are as follows:

Variety	Total acres	Yield per acre
Gopher	295	62
Green Russian	443	54
Other varieties	426	49

Velvet barley averaged 34 bushels per acre, compared with 28 bushels for other common varieties. A copy of the report may be had upon application to the Division of Agricultural Economics, University Farm.

Northern Minnesota To Have Accounting Work

FOLLOWING the successful development of the Southeast Minnesota Farm Accounts' association, a similar group is being developed in northern Minnesota. Much the same plan will be followed, except that no field man will be employed and detailed distribution of feed will not be followed as closely.

Each farmer keeps a yearly record on a book furnished from University Farm. At the close of the year, the book is taken to University Farm, where a confidential study and analysis of the farm business is made for the benefit of the cooperator. This project is proving very popular in southeast Minnesota, and it is expected that it will be as well appreciated in northern Minnesota when people become acquainted with it. A charge of \$4 per farmer is made in northern Minnesota in place of the \$16 charge to those in southeast Minnesota, the difference being due to the much less complete analysis made.

It is expected that at least 100 co-operators will be included in the project in 12 or 13 northern Minnesota counties. In Clearwater county, 12 are reported as signed up, with a number of others in line. Good reports are also coming from other counties.

The inventory date on the new association is April 1, which will give an opportunity for men to join the association this spring, and will make it much simpler to take the inventories than if it were necessary to invoice the supply of feed and materials on hand as of January 1. The area covered includes the following counties: Pine, Aitkin, Crow Wing, Carlton, South St. Louis, North St. Louis, Lake, Itasca, Hubbard, Beltrami, Clearwater, East Polk, Wadena.