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THE AGRICULTURAL EXPERIMENT STATION
INSTITUTE OF AGRICULTURE
AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA-LINCOLN
H. W. OTTOSON, DIRECTOR

Agricultural Experiment Station NEWS

Vol. 7, No. 4, October 1974

IRRIGATION DEVELOPMENT PROGRAM

The Irrigation Development Program was established effective August 1, 1971 as the result of a proposal forwarded to NU President D. B. Varner from the College of Agriculture in the spring of 1971. Funding was provided from the Regents Discretionary Fund and supplemented by the Extension Service and Experiment Station for a stepped-up program of extension and research related to irrigation in Nebraska. The four positions established are staffed by Dr. L. F. Sheffield, Coordinator; Dr. John W. Addink, Department of Agricultural Engineering; Dr. David W. Fonken, Panhandle Station; and Darrell Watts, North Platte Station.

One of the activities related to the Irrigation Development Program has been the holding of annual Nebraska Water Conferences starting in March, 1972. The first such conference led to the establishment of a 25-member Nebraska Water Conference Committee charged: (1) to plan and conduct annual Nebraska Water Conference to bring together the different interests involved in the state's water resources; and (2) to deal with interim issues related to the proper use and management of Nebraska's water and related resources. In the spring of 1974, this committee was expanded to 50 persons representing the different public and private interests in water resources in the state of Nebraska. The Coordinator serves as Secretary to the Nebraska Water Conference Committee. A total of 10 different Task Forces have been established to work on specific areas of interest and concern for 1974-75.

The three Irrigation Engineers located at Lincoln, Scottsbluff and North Platte have developed programs involving both extension and research needs relating to irrigation in their geographic areas of assignment. Their programs are integrated with the other extension and research programs of the administrative unit where they are located as well as being integrated into the state-wide program. - L. F. Sheffield

PERSONNEL ACTIONS

Arthaud, Vincent H. - Acting Chairman of Animal Science (appointment)
Coyne, Dermot P. - Acting Chairman of Horticulture (appointment)
Christoff, Gary T. - Asst. Prof. of Forestry--District II (resignation)
Edling, Robert J. - Asst. Prof. of Agr'l Eng'g, Panhandle Station (appointment)
Gavit, Richard J. - Acting Chairman of Forestry (appointment)
Gipson, Philip S. - Asst. Prof. of Poultry and Wild Life Sciences (appointment)
Haas, Stanley C. - Asst. Prof. of Agr'l Communication, Panhandle Dist. (appointment)

Masson, Jeanne F. - Instr. in Human Dev. and the Family (appointment)
Merchant, Marolyn - Instr. in Human Development and the Family (appointment)
Olson, Larry L. - Instr. in Agricultural Engineering (appointment)
Socha, Thomas E. - Instr. in Veterinary Science (courtesy appointment)
Vogel, Kenneth P. - Asst. Prof. of Agronomy (courtesy appointment)
Weeks, Stanley A. - Instr. in Agricultural Engineering (resignation)
Williams, Susan Kay - Instructor in Food and Nutrition (resignation)

GRANTS AND CONTRACTS

Anderson, Frank N. - Agronomy (PH Sta.) - Campbell Soup Company	$ 825
Burnside, Orvin C. - Agronomy - BASF Wyandotte Corporation	600
Dillon, R. D. - Agricultural Education - US Dept. of Labor, Manpower Adm.	11,200
Farlin, S. D. and Robert Britton - Animal Science - American Colloid Co.	5,000
Fenster, C. R. - Agronomy (PH Sta.) - Miscellaneous Donors	1,250
Mayo, Z. B. - Entomology - Chemagro	600
Moline, W. J. - Agronomy - Garst & Thomas Hybrid	2,500
Morris, Rosalind - Agronomy - Research Corporation	12,000
Moser, Bobby D. - Animal Science - Fats and Protin Research Foundation	12,000
Nordquist, P. T. - Agronomy (NP Sta.) - Campbell Soup Company	825
Palmer, Louis T. - Plant Pathology - Chemagro	500
Retzlaff, Robert - Agr'l Economics (PH Sta.) - Dept. of Ag., St. of Neb.	4,000
Sullivan, Thomas W. - Poultry and Wildlife Sciences - Radcliff Materials	1,500
Wysong, David D. - Plant Pathology - Garst and Thomas Corn Co.	2,500

GENERAL NOTES

1. On November 1, 1974 the University of Nebraska Department of Agronomy Foundation Seed Division will celebrate its 25th Anniversary of serving Nebraska farmers and seedsmen with a source of pure seedstocks of new and established crop varieties adapted to Nebraska conditions. The Foundation Seed Division is an important link between farmers and the Agricultural Experiment Station.

   In recognition of this 25th Anniversary, the Foundation Seed Division will hold an open house and dedication of its newly developed seed processing facilities at the University of Nebraska Mead Field Laboratory. Station Staff are invited to visit these facilities on Friday, November 15, 1974 between the hours of 1:00 and 5:00 p.m. A formal dedication ceremony will be held at 2:00 p.m.

2. Congratulations to Frank Baker and Wes Antes for receiving the Agricultural Achievement Award from Aksarben. Both awards are very well deserved on the basis of contributions to our state.

3. Enrollments

	Agriculture		Home Economics	
	1973-74	1974-75	1973-74	1975-75
Freshmen	419	424	263	220
Sophomores	305	346	272	243
Juniors	364	317	270	292
Seniors	355	327	232	255
Unclassified	6	8	5	7
Total	1,449	1,422	1,042	1,017

4. Schnieder on Safety - Shortening days and the return of standard time mean more driving during low visability periods. This combined with harvesting machinery and grain transport units on the roads during the fall calls for extra caution by both motorists and equipment operators.

5. You may wonder about the several current diggings on the East Campus. They relate to the Barkley Center construction SE of Dentistry; the Diagnostic Laboratory N of Law; the recreation facilities W of Law; Dead-Man's-Run development NW of Stewart Seed Lab; and the new bridge at 33rd and Huntington. The campus road out to Huntington should be paved yet this fall.

6. The Field Laboratory will again open major areas to small game hunting, November 2 to January 12. The students of the Wildlife Club will be providing valuable inputs to posting, registering, monitoring and analyzing the "take". Staff and public are welcome.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - September 1974

Journal Articles (contact authors for more information)

3864. Gnotobiotic Calf Intestine Visualized by Scanning Electron, Light and Transmission Electron Microscopy. C. A. Mebus, L. E. Newman and E. L. Stair. American Journal of Veterinary Research.

3865. Influence of Wheat Variety Upon In Vitro and In Vivo Lactate Levels. Larry W. Varner and Walter Woods. Journal of Animal Science.

3866. Low Quality Feedstuffs - Alternatives to Grain for Beef Rations. Paul Q. Guyer. Journal of Animal Science.

3867. Microbiological Assay of Patulin Using Bacillus megaterium. W. T. Stott and L. B. Bullerman. Journal of the Association of Official Analytical Chemists.

3868. Rehabilitation of Physically Disabled Women in a Family-Oriented Program. Lois O. Schwab. Rehabilitation Literature.

3869. Effects of a Wide-Area Application of ULV Malathion on Leafhoppers in Alfalfa. Steven D. Koinzan and K. P. Pruess. Journal of Economic Entomology.

3870. Calving Difficulty and Its Association with Body Characteristics of the Cow and Calf. John K. Ward. Journal of Animal Science.

3871. Coronavirus Infected Gnotobiotic Calf Intestine Visualized by Scanning Electron, Light and Fluorescent Microscopy. C. A. Mebus, L. E. Newman and E. L. Stair, Jr. American Journal of Veterinary Research.

3872. Changes in Bovine Cervical and Vaginal Mucus During the Estrous Cycle and Early Pregnancy. J. J. Noonan, A. B. Schultze and E. F. Ellington. Journal of Animal Science.

3873. Effects of Radiofrequency Electrical Treatment on the Reproductive Potential of Tenebrio molitor L. (Coleoptera:Tenebrionidae). P. S. Rai, H. J. Ball, S. O. Nelson and L. E. Stetson. Annals of the Entomological Society of America.

Journal Abstracts (contact authors for more information)

74-366. Rumen Bypass of Dehy Protein. Vernon Krause and Terry Klopfenstein. Journal of Animal Science.

74-368. High Moisture Corn Metabolism. Norman Barney, Terry Klopfenstein and Walter Tolman. Journal of Animal Science.

74-369. Opaque-2 and Waxy Corn for Ruminants. Robert McCormick and Stanley D. Farlin. Journal of Animal Science.

74-370. Varieties and Cutting Practices in Integrated Alfalfa Pest Management. W. R. Kehr, R. L. Ogden and S. D. Kindler. 24th National Alfalfa Improvement Conference.

74-371. Resistance of Red Clover to the Clover Leaf Weevil. H. J. Gorz, G. R. Manglitz and F. A. Haskins. 17th Forage Insect Research Conference.

- over -

74-372. Host Range of the Bluegrass Billbug. Dean Kindler and E. J. Kinbacher. 17th Forage Insect Research Conference.

74-373. Dissipation of Herbicides in Soil-Water Systems. C. W. Weidner and T. L. Lavy. Weed Science of America.

74-374. Comparison of Normal and Calf Diarrheal Coronavirus Infected Intestine Using Scanning Electron and Light Microscopy. C. A. Mebus and L. E. Newman. Proceedings of the 55th Conference of Research Workers in Animal Diseases.

74-375. Soil Persistence of Soybean Herbicides During the Growing Season. Orvin C. Burnside. North Central Weed Control Conference Research Report.

BULLETINS PRINTED

RB 264. Structural and Operational Characteristics of Nebraska and Kansas Feeder-Cattle Growing Operations. J. L. Jorgensen, J. G. Kendrick, A. C. Wellman, J. H. McCoy, J. W. Koudele and Q. C. Smith.