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UNIVERSITY OF NEBRASKA-LINCOLN
COLLEGE OF AGRICULTURE
THE AGRICULTURAL EXPERIMENT STATION

H. W. OTTOSON, DIRECTOR AND
ACTING DEAN

Agricultural Experiment Station NEWS

Vol. 6, No. 9, March 1974

FROM THE DIRECTOR'S DESK

College of Agriculture staff members and their spouses are invited to a reception for Vice Chancellor and Mrs. Duane Acker on Thursday, April 11, 1974, between 3:00 and 5:30 p.m. at the Nebraska Center for Continuing Education.

You are welcome to come at any time during the reception to meet the Ackers and to visit with leaders in Nebraska's agricultural organizations who will be guests. However to spread the visiting time as evenly as possible, we are suggesting that staff members come at the following times, according to your last initial, if convenient:

A through D	3:00-3:30 PM
E through I	3:30-4:00 PM
J through N	4:00-4:30 PM
O through S	4:30-5:00 PM
T through Z	5:00-5:30 PM

Schedules are being arranged for Vice Chancellor Acker to visit each of the College of Agriculture regional stations sometime during the spring. This will provide the opportunity for Extension and Research field staff to meet the Vice Chancellor in smaller groups.

Foreign Visitors. The College continues to attract a large number of foreign observers. Visitors cleared through the Dean's office in 1973 included 16 students on degree programs sponsored by AID or FAO and 189 non-degree participants here for stays ranging from one day to five months. They came from 42 countries. Foreign students under sponsorship other than AID or FAO are not included in the totals.

Your help in hosting these people is appreciated. You have made important contributions to the agricultural background of the visitors and the interaction with these professionals from other countries has broadened our viewpoint.

Howard W. Ottoson

GRANTS AND CONTRACTS

Anderson, Frank - Agro. (PH Sta.) - Growers GW Joint Res. Com.	$ 4,325
Burnside, Orvin C. - Agronomy - Farmland Industries, Inc.	4,200
Danielson, David M. - Animal Science (NP Sta.) - Shell Devel. Co.	8,000
Eastin, J. D. - Agronomy - AID	160,000
Klopfenstein, Terry - Animal Science - Distillers Feed Research Council	4,000
Klopfenstein, Terry - Animal Science - Scott Paper Co.	6,000
Manbeck, Dean - Agr'l Eng. - Upper Big Blue Natural Resources District	9,000
Mayo, Z. B. - Entomology - Union Carbide Corporation	750
Nordquist, P. & Grabouski P. - Agro. (NP Sta.) - Grower GW Joint Res. Com.	2,000
Twiehaus, M. J. - Veterinary Science - Norden Laboratories	7,500
Wicks, Gail A. - Agronomy (NP Sta.) - Shell Chemical Company	500

- over -

GENERAL NOTES

1. On March 21 and 22, we will have a comprehensive review and planning session on the forage research program in Nebraska. This will relate to both the NAES and the ARS inputs and the broad spectrum of activities ranging from breeding to utilization.

   Drs. Haskins and Gorz for NAES and ARS respectively have organized this review as part of their new assignment to provide coordinating leadership to this total program. They have worked effectively together for many years and their own research is shifting. It seems desirable that their role include this informal technical coordination of the many important areas of forage research.

2. Grants and Contracts continue to be a very important component of Experiment Station support. The total input from such sources is holding steady at about 20% of the total station program, although the sources have shifted some in the last couple years. The basic initiative for procuring such support is in the hands of you, the researchers.

3. Sources of support for the total Experiment Station operation can be summarized by the obviously rounded figures for 10,20,30 and 40% for federal, grant, revolving and state funds respectively. The "federal" 10% includes Hatch formula funds only. It should be noted that a substantial portion of the "Grants" 20% is also from federal agencies.

4. Sahs Sez - "Now is the time to spring clean the debris from winter operations; from offices, labs, shops, feed areas, operations yards, etc."

5. Streets have been named and street signs installed on the East Campus. This has been a long process starting with Dr. Dickason's idea and several of us pushing for it through Physical Plant. Perhaps it will aid in locating places for those unfamiliar with our campus.

6. Schnieder on Safety - "22 people lost their lives last year in Nebraska in tractor overturns. There were no lives lost in overturns where a roll over protective structure was in place. These 22 people didn't think tractors would overturn for them. Do you have the same attitude?"

7. It is important that all Experiment Station facilities be brought into conformity with Department of Environmental Control regulations. This applies currently to livestock feeding operations. Although we may not be legally under the regulations, we should conform unless research on the topic requires experimental deviation. In some cases we have no problem. Beef facilities at the Field Laboratory are being developed for conformity by June 1.

8. Now is the time to:

   Get organized for spring
   Talk to your wife
   Get reorganized for spring
   Talk to your wife
   Abandon the entire idea
   Talk to yourself

9. Every "maybe" has a "maybe not".

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - February 1974

Journal Articles (contact authors for more information)

3737. Characterization of Tenacious Residue of Alkaline Circulation Cleaning. R. B. Maxcy and R. G. Arnold. Journal of Milk and Food Technology.

3738. An Improved Technique for Evaluating Resistance of Corn to Corynebacterium nebraskense. A. G. Calub, M. L. Schuster, W. A. Compton and C. O. Gardner. Crop Science.

3739. Wind Reduction by a Highly Permeable Tree Shelterbelt. D. R. Miller, N. J. Rosenberg and W. T. Bagley. Agricultural Meteorology.

3740. Improved Preservation of Tissue by Brief Fixation in Glutaraldehyde Followed by Osmic Acid. W. G. Langenberg and H. F. Schroeder. Journal of Ultrastructure Research.

3741. Potential Problems in Chrysanthemum Production. Roger D. Uhlinger. The Plant Propagator.

3742. Bovine Congenital Defects: Variations of Internal Hydrocephalus. H. J. Greene, H. W. Leipold and C. M. Hibbs. Journal of the American Veterinary Medical Association.

3743. Freeze Dried Alfalfa as a Protein Source for Turkeys, 0-4 Weeks of Age. D. P. Holder, T. W. Sullivan, G. O. Kohler and A. L. Livingston. Poultry Science.

3744. Future Direction of Beef Cattle Environment Research and Needs for Additional Knowledge. Norman C. Teter. International Livestock Environment Symposium.

3745. Reflectant Induced Modification of Soybean (Clycine max. L.) Canopy Radiation Balance II. A Quantitative and Qualitative Analysis of Radiation Reflected from a Green Soybean Canopy. Raoul Lemeur and Norman J. Rosenberg. Agronomy Journal.

3746. Occurrence of Blue-Eye Condition in Commercial Popcorn. L. B. Bullerman. Cereal Science Today.

3747. Misdivision of Homoeologous Group 5 Univalent Chromosomes in Hexaploid Wheat. II. Univalents Derived from American and European Cultivars. R. Morris, T. Taira, J. W. Schmidt and M. Sasaki. Canadian Journal of Genetics and Cytology.

3748. Influence of Heating Methods. Pauline C. Paul.

3749. Registration of Alfalfa Germplasm Pool NC-83-1. W. R. Kehr, D. K. Barnes, E. L. Sorensen, W. H. Skrdla, C. H. Hanson, L. J. Elling, D. A. Miller, R. L. Taylor, M. D. Rumbaugh, T. E. Thompson, I. T. Carlson, E. T. Bingham and D. E. Brown. Crop Science.

3750. Registration of Alfalfa Germplasm Pool NC-83-2. W. R. Kehr, D. K. Barnes, W. L. Sorensen, W. H. Skrdla, C. H. Hanson, D. A. Miller, T. E. Thompson, I. T. Carlson and M. K. Miller. Crop Science.

3751. Inheritance of Seed and Seedling Color in Sweetclover. H. J. Gorz, J. E. Specht and F. A. Haskins. Crop Science.

3752. Intergenotypic Competition Studies in Corn (Zea mays L.). A. Jurado-Tovar and W. A. Compton. Theoretical and Applied Genetics.

3753. Selection Criteria for Efficient Beef Production. G. E. Dickerson, Niklaus Künzi, L. V. Cundiff, R. M. Koch, V. H. Arthaud and K. E. Gregory. Journal of Animal Science.

3754. Isolation of the Avian Reticuloendothelial Virus (Strain T)--Historical Note. F. R. Robinson and M. J. Twiehaus. Avian Diseases.

Journal Abstracts (contact authors for more information)

74-287. Some Constituents in the Atmosphere of a Housed Swine Unit. L. F. Elliott, J. A. DeShazer, E. R. Peo, Jr., T. A. Travis and T. M. McCalla. International Livestock Environment Symposium.

74-288. Effects of Thermal Acclimation and Magnitude of Environmental Temperature Change on Physiological Responses of Roosters. F. B. Mather, J. A. DeShazer and Malik M. Ahmad. International Livestock Environment Symposium.

74-289. Effect of Modified Plant Architecture of Dry Beans (Phaseolus vulgaris) on White Mold Severity and Yield. D. P. Coyne, J. R. Steadman and F. N. Anderson. Report of the Bean Improvement Cooperative.

74-290. The Effect of Building Type, Management and Percent Slatted Floor on Performance and Health Characteristics in G-F Pigs. R. D. Fritschen, N. R. Underdahl and J. A. DeShazer. International Livestock Environment Symposium.

74-291. A Plant-Component Genetic Approach to Breeding for Tolerance to the Bacterial Pathogens, Pseudomonas phaseolicola and Xanthomonas phaseoli. D. P. Coyne and M. L. Schuster. Report of the Bean Improvement Cooperative.

74-292. Studies on Soybean Nodule Senescence. Robert V. Klucas. Proceedings of The Nebraska Academy of Sciences.

74-293. Photolysis of Trifluralin. James C. Markle and H. W. Knoche. Proceedings of The Nebraska Academy of Sciences.

74-294. Characterization of Δ^{24}-Sterol-Methyl-Transferase from Bean Rust Uredospores. Hung-Kuang Lin and Herman W. Knoche. Proceedings of The Nebraska Academy of Sciences.

74-295. More on Modified Ear-to-Row Selection in Corn (Zea mays L.). W. A. Compton and R. E. Comstock. Crop Science.

74-296. Precision Sensible Heat Source. James A. DeShazer and Larry L. Olson. Agricultural Engineering.

74-297. Some Aspects of Cobalt Activation of Bacillus subtilis Aminopeptidase I. Fred W. Wagner and Kenneth E. Wilber. Proceedings of The Nebraska Academy of Sciences.

74-298. Ion Movements in Bovine Rod Outer Segments. Fred W. Wagner and Kenneth E. Wilber. Proceedings of The Nebraska Academy of Sciences.