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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



Vol. 10, No. 4, October 1977

FROM THE DIRECTORS DESK

At the year's end in 1976 we had some discussion with the IANR Liaison Committee concerning the establishment of an Advisory Council for the Experiment Station. Such a Council would serve to represent the Station faculty interests in advising the Director on matters relating to Station operation and programs.

We agreed that such a Council might best be initiated through the setting up of an Ad Hoc committee representing various disciplines and staff areas in the Experiment Station. Such an Ad Hoc committee including the following members, Dr. Peo, Dr. Kies, Dr. Fischer, Dr. Dickason, Dr. DeShazer, Dr. M. Daly, Dr. Rehm, was established and asked to do the following: 1) outline a statement and responsibility for such an Advisory Council; 2) suggest procedures for nominating candidates for such a Council; and 3) develop procedures for the election of Council members.

The committee has met several times and has now recommended that we move forward along the following lines: 1) The Experiment Station staff should be divided into nine districts of approximately equal FTE's on Experiment Station appointment. We have made a rough cut of such voting districts in the Station, these districts having the principle attribute of being approximately 15 FTE's in size. Of course, a particular voting district would include a variable number of people. 2) The Ad Hoc committee has recommended that our office prepare a list of all individuals holding A-line appointments in the Experiment Station and that these names, by districts, be forwarded to the IANR nominating committee, for nomination of two individuals from each district. In an election by the members of each district one person would be elected to serve on the Experiment Station Advisory Council. 3) The committee has recommended that no particular effort be made to identify the units involved in a particular voting district. Roughly, there would be one district in the social sciences, one district in the physical sciences, two districts in the plant sciences, two districts in the animal sciences, two districts of the district stations, and one miscellaneous district. 4) The committee recommends that individuals serve on the committee for a five-year term with some random method employed to determine rotation. 5) The Ad Hoc committee proposes the following initial functions for the Advisory Committee, recognizing that its functions would evolve depending on needs and experience: a) devise procedures for itself; b) identify agricultural research needs in Nebraska; c) monitor research and development statewide and nationally; d) promote information exchange; e) advise the Station concerning resources and programs; and f) serve as a sounding board for the Director.

The Ad Hoc committee has enunciated the fact that such a committee necessarily would be an advisory committee to the Experiment Station Director, and not carry administrative responsibilities of its own. Personally, I am enthusiastic about such a committee, and feel that it would serve very useful functions. We will be glad to have your comments, questions, and reactions. If this format and approach seems reasonable, as reflected in reactions from you, or lack of them, we would plan to institute an election around the year's end.

Howard W. Ottoson

(over)

GRANTS AND CONTRACTS

Boosalis, M. G. - Plant Pathology - Rocky Mt. Forest & Range Exp. Station	\$ 7,000
Burnside, O. C. - Agronomy - Stauffer and Velsicol Chemical Companies	1,250
Campbell, J. B. - Ent. (NP Sta) - Burroughs Wellcome & Thompson-Hayward Co.	5,000
Caporaso, F. - Food Science and Technology - Nebraska Pork Producers Assoc.	5,491
Clanton, D. C. - Animal Science (NP Sta) - Eli Lilly and Co.	3,000
Compton, W. A. - Agronomy - Illinois Foundation Seeds, Inc.	1,000
Coyne, D. P. - Horticulture - Rocky Mountain Bean Dealers Association	2,500
Coyne, D. P. - Horticulture - Anna Elliott Fund	6,000
Fenster, C. R. - Agronomy (PH Sta) - Ciba-Geigy, Chemagro & Soil Enterprise	2,450
Fenster, C. R. - Agronomy (PH Sta) - Wheat Division	3,000
Krause, V. E. - Animal Science (NE Sta) - Cado, Inc.	2,800
Hanna, M. - Ag Engineering - Nebraska Soybean Devel., Util. & Mkt. Board	5,000
Lindgren, D. T. - Hort. (NP Sta) - ICI-United States	500
Martin, A. R. - Agronomy - American Cyanamid Company	500
Mayo, Z. B. - Entomology - Stauffer Chemical Company	1,000
Moomaw, R. S. - Agronomy (NE Sta) - Velsicol, Eli Lilly, & BASF Wyandotte	1,500
Roeth, F. W. - Agronomy (SC Sta) - Eli Lilly and Velsicol Chemical	1,000
Rhodes, M. B. - Veterinary Science - Old West Regional Commission	41,907
Satterlee, L. D. - Food Science and Tech. - Nebr. Wheat Division	5,500
Steadman, J. R. - Plant Pathology - BASF Wyandotte Corporation	500
Shearman, R. D. - Horticulture - Chemical Lawn Corporation	2,500
Schuster, M. L. - Horticulture - Green Giant Company	1,500
Watkins, J. E. and Doupnik, B. L. - Plant Path. (SC Sta) - Merck & Company	500
Wicks, G. A. - Agronomy (NP Sta) - Wheat Division	3,000
Wicks, G. A. - Agronomy (NP Sta) - NORAm, Velsicol, Ciba-Geigy, BASF & Chevron	2,750
Wiese, R. A. - Agronomy - Allied Chemical Company	2,000
Wilson, R. G. - Agronomy (PH Sta) - Dow Chemical, & Monsanto	3,000

GENERAL NOTES

1. Enrollments in agricultural curricula continue an upward pattern greater than that of the University in total. College of Agriculture enrollments:

	1976-77		1977-78	
	Male	Female	Male	Female
Freshmen	428	92	459	113
Sophomores	324	63	330	84
Juniors	357	50	350	68
Seniors	304	29	340	47
Unclassified	10	0	9	0
	<u>1,423</u>	<u>234</u>	<u>1,488</u>	<u>312</u>
TOTAL	1,657		1,800	

2. The nominal 210 acres parcel of land north of Havelock Avenue and west of 85th Street has been sold along with several house lots south of the Adams Street swine complex. The only land yet to be sold in the Lincoln area is the approximately 80 acres of the swine research area.

3. The National Science Foundation has announced that about 130 Science Faculty Professional Development Program grants will be awarded for FY 1979. Five years teaching experience is required in science, engineering or mathematics. Special application forms are required and due on or before December 16, 1977.

4. The recently announced reorganization of the USDA reduces by combinations the number of separate units from 40 to 26. The Cooperative State Research Service and the Federal Extension Service are merged and together with the Agricultural Library now constitute the Food and Agriculture Science and Education Administration (FASES).

R. W. Kleis

Journal Articles (contact authors for more information)

5372. Removal of the Growth Inhibitor(s) From Acid and Pressure Hydrolyzed Sawdust. Robert Britton.
5373. The Effect of Free and Bound Chlorogenic Acid on the In Vitro Protein Digestibility and Tetrahymena Based PER of a Casein Model System. M. J. Dryden and L. D. Satterlee. Journal of Food Science.
5374. Uptake of ¹⁵N Tagged Nitrate by Sugar Beets from Depths Greater than 180 Centimeters. G. A. Peterson, F. N. Anderson, G. Varvel and R. A. Olson. Agronomy Journal.
5375. Light Transmission Through Selected Cuticular Areas of Blaberus craniifer Burmeister. Harold J. Ball. Annals of the Entomological Society of America.
5376. On the Mechanism of Aging in Soybean Seeds. David J. Parrish and A. Carl Leopold. Plant Physiology.
5377. Individual Heterosis for Postweaning Growth Efficiency in Beef Cattle. Larry W. Olson, G. E. Dickerson, Larry V. Cundiff and K. E. Gregory. Journal of Animal Science.
5378. Maternal Heterosis Effects on Postweaning Gain and Carcass Traits in Beef Cattle. Larry W. Olson, Larry V. Cundiff and Keith E. Gregory. Journal of Animal Science.
5379. Maternal Heterosis Effects on Postweaning Growth Efficiency in Beef Cattle. Larry W. Olson, Larry V. Cundiff, G. E. Dickerson and K. E. Gregory. Journal of Animal Science.
5380. Ascaris suum: Immunization of Pigs with Hatching Fluid. Carol A. Klucas and Marvin B. Rhodes. Experimental Parasitology.
5381. Chromic Acid-Formaldehyde Fixation of Nucleic Acids of Bacteriophage $\phi 6$ and Infectious Bovine Rhinotracheitis Virus. W. G. Langenberg and R. L. Sharpee. Journal of Gen. Virology.
5382. Population Trends of Corynebacterium Flaccumfaciens Strains in Leaves of Phaseolus Species. M. Hulluka, M. L. Schuster, J. L. Weihing and D. P. Coyne. Phytopathology.
5383. Press/Cleave Portioning and Mechanical Tenderization of Beef Top Loins as Affected by Nutritional Regimes and Biological Type. K. L. Neer, J. F. Campbell, R. W. Mandigo, F. Caporaso and G. M. Smith. Journal of Food Science.
5384. A Destructive Leaf Spot of Wheat in Nebraska. J. E. Watkins, G. N. Odvody, M. G. Boosalis and J. E. Partridge. Plant Disease Reporter.
5385. Evaluation of Grain Sorghum R Lines with Three Testers. W. M. Ross and K. D. Kofoid. Crop Science.
5386. Yield Stability of Sorghum Random-Mating Populations. K. D. Kofoid, W. M. Ross and R. F. Mumm. Crop Science.

Journal Abstracts (contact authors for more information)

- 77-926. Influence of N Fertilization on IVDMD and Protein Production of Proso Millet (Panicum miliaceum L.). Louis A. Daigger and Lenis A. Nelson. Agronomy meetings in Los Angeles.
- 77-927. Temperature Tolerance in Soybeans-Artificial Hardening Effects. J. E. Specht, J. H. Williams and J. R. Martineau. American Society of Agronomy.
- 77-928. Emphasis on Net Profit Rather Than Top Yield Produces Useful Adult Education Program. G. W. Rehm, D. C. Spitze, P. L. Swanson and G. L. Zoubek. American Society of Agronomy.
- 77-929. Forage and Weed Yields and Forage Quality of Three Warm-Season Grasses. L. J. Perry and David D. Baltensperger. Range Management.
- 77-930. Mechanical and Chemical Control of Weeds in a Sorghum-Soybean Rotation. O. C. Burnside. Weed Science Society of America Proceedings.
- 77-931. Impact of Plains Pocket Gophers on Herbage Production and Composition. J. Stubbendieck, Michael A. Foster and Ronald Case. 1978 Society for Range Management Annual Meeting.
- 77-932. Plant Succession on Plains Pocket Gopher Mounds. Michael A. Foster, J. Stubbendieck and Herbert G. Fisser. 1978 Society for Range Management Annual Meeting.
- 77-933. Evaluation of Grazing Systems and Range Fertilization in Western Nebraska. J. Stubbendieck and D. F. Burzlaff. 1978 Society for Range Management Annual Meeting.
- 77-934. Herbage Yield and Quality of Carex filifolia Nutt. Michael A. Foster and J. Stubbendieck. 1978 Society for Range Management Annual Meeting.
- 77-935. Effect of Nitrogen on IVDMD and Cell Wall Constituents of Wheatgrass. M. R. Jones, J. Stubbendieck and L. J. Perry, Jr. Range Management.
- 77-936. Effect of Nitrogen on Dryland Seedings of Cool Season Grasses. M. R. Jones, J. Stubbendieck and L. J. Perry, Jr. Range Management.
- 77-937. Changes in Botanical Composition of True Prairie Vegetation Due to Selective Grazing. E. C. Conard, Lowell E. Moser and L. J. Perry, Jr. Range Management
- 77-938. Ralgro Implants From Birth Through Finishing. J. K. Ward, T. J. Klopfenstein, S. D. Farlin, L. Peterson and G. E. Schindler. Journal of Animal Science.
- 77-939. Absorption and Translocation of Buthidazole in Soybeans. Lloyd C. Haderlie. 1978 Weed Science Society of America Proceedings.
- 77-940. Wheat Straw in Growing Cattle Rations. Gary Lesoing, Ivan Rush, Terry Klopfenstein and John Ward. Journal of Animal Science.
- 77-941. Sampling Intervals and Markers on Abomasal Flow Determination. John Waller Neal Merchen, Tom Hanson and Terry Klopfenstein. Journal of Animal Science.