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# Agricultural Experiment Station News September 1976

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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. 9, No. 3, September 1976

## FROM THE DIRECTOR'S DESK

We are planning to test a slight innovation in our practices in our review of Research Bulletins. As you know this class of bulletin has the same publication standards and audience as journal articles. In order to make the review process more comparable we will enlist some peer reviewers (at least one for each manuscript) from other Experiment Stations in the North Central Region. These stations have agreed to cooperate with us in this process. We will give such reviewers the same instructions, and handle their comments in the same way, as in the case of reviewers from our own staff.

### The Old West Regional Commission (OWRC)

A number of Station staff members are involved in research projects funded by the Old West Regional Commission. You might like some background on the organization.

The OWRC was created as one of several regional commissions by Congress in 1965. The membership of the Commission consists of the Governors of the five states included, namely South Dakota, North Dakota, Montana, Wyoming, and Nebraska. The headquarters of the Commission is located at Rapid City, South Dakota.

The Commission receives Federal funds annually from Congress, which it uses for various purposes in the interest of economic and social development of the region, including research, education, promotion, and action. Five advisory committees screen proposed activities and make recommended actions to the Commission, namely; these include: Agriculture and Natural Resources, Energy, Human Resources, Industrial Development, and Transportation. An additional committee is an ad hoc committee on Veterinary Science.

Most research proposals originating among our staff are channeled through the advisory committee on agriculture and natural resources. The committee reviews such proposals and acts on them. Those recommended are forwarded to the Commission, which has the final decision.

Typically, research projects funded by the Commission have the following characteristics:

- a) Not more than two years in length (possibly subject to renewal).
- b) Are applied rather than basic in nature. (In other words, giving promise of relatively quick results.)
- c) Do not cover purchase of equipment.
- d) Have regional applications.
- e) Include demonstrational components.

If you desire more information on opportunities for making proposals to OWRC we shall be glad to provide it to you. If you have an idea about a problem which might make a worthy proposal we suggest you talk to us before spending any time in developing a proposal.

-over-

Howard W. Ottoson

## PERSONNEL ACTIONS

Bader, Kenneth L. - Vice Chancellor Student Affairs & Prof., Agronomy-Resignation  
 Bramlage, William J. - Assoc. Prof., Agronomy-Courtesy appointment  
 Goeke, James W. - Asst. Prof., Conservation & Survey-New appointment  
 Huff, Edward R. - Assoc. Prof., Agricultural Engineering-New appointment  
 Lawton, Dennis R. - Rsch. Hydrogeologist, Asst. Prof., Conservation & Survey-New appt.  
 Morin, George C. A. - Asst. Prof., Agricultural Engineering-New appointment  
 Morris, Charles E. - Rsch. Soil Scientist, Instr., Conservation & Survey-Special appt.  
 Thompson, Thomas L. - Prof., Agricultural Engineering-Leave of absence

## GRANTS AND CONTRACTS

Anderson, F. N. - Agronomy (PH Sta) - Growers-G W Joint Research Committee	17,300
Burnside, O. C. - Agronomy - American Cyanamid Co.	1,000
Campbell, J. B. - Entomology (NP Sta) - Chevron Chemical Co.	500
Coyne, D. P. - Horticulture - Green Giant Foundation	1,500
Fischbach, P. E. - Ag. Engr. - U. S. Dept. of Interior - OWRT	68,456
Frank, K. D. - Agronomy (SC Sta) - Conklin Company	1,000
Gilley, J. R. - Ag. Engineering - OWRT	3,700
Gilley, J. R. - Ag. Engineering - Old West Commission	167,750
Hergert, J. W. - Agronomy (NP Sta) - OWRT	4,500
Kerr, E. D. - Plant Pathology (PH Sta) - Growers-G W Joint Research Committee	2,516
Kerr, E. D. - Plant Pathology (PH Sta) - ICI United States Inc.	650
Klopfenstein, T. J. - Animal Science - Deere & Co.	4,000
Klopfenstein, T. J. - Animal Science - Dow Chemical Co.	4,642
Klopfenstein, T. J. - Animal Science - Lilly Research Labs	2,000
Krause, V. E. - Animal Science (NE Sta) - Cadco, Inc.	2,800
Manbeck, D. M. - Agricultural Engineering - OWRT	2,200
Martin, A. R. - Agronomy - American Cyanamid Co.	500
Moomaw, R. S. - Agronomy (NE Sta) - Eli Lilly & Co.	500
Morris, M. R. - Agronomy - International Atomic Energy Agency	2,000
Nordquist, P. T. - Agronomy (NP Sta) - Growers-G W Joint Research Committee	2,400
O'Keefe, R. B. - Horticulture-Potato Development Division	3,000
Rehm, G. W. - Agronomy (NE Sta) - Malting Barley Improvement Assn.	1,000
Shahani, K. M. - Food Science & Technology - Dannon Research Milk Products	4,200
Sullivan, C. Y. - Agronomy - WRRRI	4,300
Vidaver, A. K. - Plant Pathology - Nebraska Dept. of Agriculture	2,000
Wilson, R. J., Jr. - Agronomy (PH Sta) - Growers-G W Joint Research Committee	4,200

## GENERAL NOTES

1. Grant and Contract proposal writing tips were well presented in Vol. 1, No. 6, "Graduate Studies and Research Review". I cite this and commend it to your attention in the interest of efficiency and success in procuring outside research support
2. Please try to plan ahead and minimize the number of "carry through" documents: requisitions, movement of copy forms, travel requests, grant proposals, etc.
3. Plant Sciences building bids came in nicely within budget estimates. Recent land sales (Havelock area) have gone well. Swine facilities plans are proceeding toward bidding for construction at the Field Laboratory. The East Campus Union Building continues well on schedule. The Greenhouse complex construction is well under way. Facilities projects in general are going well.
4. Dr. Charles Gardner is serving on a Plant Genetics Board along with eleven other nationally distinguished plant scientists appointed by Secretary Butz.
5. Statistical Laboratory card sorter, keypunches, computer terminal and electronic calculators are available for student and staff use 8:00 a.m. to 5:00 p.m. Monday-Saturday, 7:00 to 11:00 p.m. Monday-Friday, and 1:00-5:00 p.m. Sunday.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - August 1976

Journal Articles (contact authors for more information)

5155. An Application of Computer Techniques to Drapery Construction. Audrey Newton, Anne Parkhurst and Anna Nevius. Journal of Interior Design Research.
5156. Butternut Squash "Ponca." Dermot P. Coyne. HortScience.
5157. Butternut Squash "Patriot." Dermot P. Coyne and Robert M. Hill. HortScience.
5158. Comparison of Livestock Price Forecasting Using Simple Techniques, Forward Pricing, and Outlook Information. Glenn A. Helmers and Larry J. Held. Western Agricultural Economics Journal.
5159. Chromosomal Analysis of Fertile Heterosexual Twin Females in Cattle. F. E. Eldridge and W. F. Blazak. Journal of Dairy Science.
5160. Absorption, Mobility and Degradation of Cyanazine and Diuron in Soils. J. T. Majka and T. L. Lavy. Weed Science.
5161. 10 Cycles of Progress from Modified Ear-To-Row Selection in Corn (Zea mays L.). W. A. Compton and Khan Bahadur. Crop Science.
5162. Assay of p-Hydroxybenzaldehyde as a Measure of Hydrocyanic Acid Potential in Sorghums. W. L. Haag, J. E. Specht, H. J. Gorz and F. A. Haskins. Crop Science.
5163. Water-Stability of Soil Aggregates after Three Years of Heavy Application of Beef Cattle Manure. A. P. Mazurak, Leon Chesnin and A. Amir Thijeel. Soil Science Society of America.
5164. A Mare Mule--Dam or Foster Mother? Franklin Eldridge and Yoshiko Suzuki. Journal of Heredity.
5165. Effect of Supplemental Aluminum on the Value of Fertilizer Phosphates in Turkey Diets. A. Cakir, T. W. Sullivan and F. J. Struwe. Poultry Science.
5166. Horse, Ass, and Mule Chromosomes. Franklin Eldridge and William F. Blazak. Journal of Heredity.
5167. Comparison Between the Y-Chromosomes of Chianina - and Brahma Crossbred Steers. Franklin Eldridge and William F. Blazak. Cytogenetics Cell Genetics.
5168. Alleviation of Fluorine Toxicity in Starting Turkeys and Chicks With Aluminum. A. Cakir, T. W. Sullivan and F. B. Mather. Poultry Science.
5169. Effects of Roughage Ration on Viscosity and Theoretical Head Losses In Pipe Flow For Beef Cattle Feces. L. L. Bashford, C. B. Gilbertson, J. A. Nienaber and D. Tietz. Transactions of the ASAE.
5170. Therapeutic Efficacy of Ronidazole in Water Against Histomoniasis in Turkeys. T. W. Sullivan, O. D. Grace and Ayhan Aksoy. Poultry Science.

5171. Insect Parasites of the European Corn Borer *Ostrinia nubilalis* (Hbn) in Nebraska from 1948 to 1971. Roscoe E. Hill. Journal Kansas Entomological Society.
5172. Zinc and Copper Utilization of Orally-Administered Elemental and Liquid Formula Diets. M. K. D. Vemury, Constance Kies, Hazel M. Fox and Susan Calvert. Journal of Clinical Nutrition.
5173. Dietary Hemicellulose Interactions Influencing Serum Lipid Patterns and Protein Nutritional Status of Adult Men. C. Kies and H. M. Fox. Journal of Food Science.
5174. Non Specific Nitrogen and Ammonia in Human Food. C. Kies. Encyclopedia of Food Science.
5175. Methods for Detecting Mycotoxins in Foods and Beverages. L. B. Bullerman. Food and Beverage Mycology. Chapter 15.
5176. Studies of the Nitrogen Fertilization of Soybeans. R. C. Sorenson, E. J. Penas and G. A. Peterson. Agronomy Journal.
5177. Farmability Evaluation of Broadbase and Grassed Backslope Terrace Systems. Howard Wittmuss. International Hill Land Symposium Proceedings.
5178. Destruction of Aflatoxins During Fermentation and By-Product Isolation From Damaged Grains. R. Dam, S. W. Tam and L. D. Satterlee. Cereal Chemistry.
5179. Absence of the Polyamine Spermine in the Filamentous Fungi. Kenneth W. Nickerson, James L. Van Etten and Larry D. Dunkle. Journal of Bacteriology.
5180. Protein Nutritional Value of Several Beef/Soy Snack Type Products. Merlyn K. D. Vemury, Constance Kies and Hazel M. Fox. Journal of Food Science.
5181. Alfalfa Latent Virus, A Naturally Occurring Carlavirus in Alfalfa (Medicago sativa L.). V. Venkateswarlu and M. K. Brakke. Phytopathology.
5182. Inheritance and Association of Some Traits in a Phaseolus vulgaris L. Cross. Dermot P. Coyne and James R. Steadman. The Journal of Heredity.
5183. Influence of Dietary Calcium Level, Source and Particle Size on Performance of Laying Chickens and Egg Shell Quality. H. J. Kuhl, Jr., D. P. Holder and T. W. Sullivan. Poultry Science.

Journal Abstracts (contact authors for more information)

- 76-779. Forage Yields, Quality Evaluations and Root Studies of Cicer Milkvetch (Astragalus cicer L.). Stephen J. Hoy and W. J. Moline. American Society of Agronomy.
- 76-780. Genetic Variability of Quercus rubra. Scott E. Schlarbaum and Walter T. Bagley. Proceedings of the 10th Central States Forestry Improvement Conference.
- 76-781. Performance of Green Ash Provenances of the Great Plains Region. Cheng C. Yeng and Walter T. Bagley. Proceedings of the 10th Central States Forestry Improvement Conference.