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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. 4, October 1976

FROM THE DIRECTOR'S DESK

EXTERIOR RELATIONSHIPS: This title should arouse your curiosity; when one reviews them, the number of relationships which the Experiment Station has with the surrounding regional, national, and world communities is rather impressive.

The Experiment Stations of the country are divided into four groups, the regional associations. We are a member of the North Central State Agricultural Experiment Station Directors Association. This association has several kinds of committees which represent mechanisms for information exchange, coordination, minimization of duplication, and increasing our efficiency by joint research effort. The Nebraska Station is active in a large number of these.

At the national level the Experiment Station is involved in an additional set of relationships. Under the Hatch Act, we are accountable to Cooperative States Research Service, USDA, for our utilization of federal funds. We are part of the Division of Agriculture of the National Association of State Universities and Land Grant Colleges; and as such have a voice in the policy making, budget formulating, and long-range research planning activities of that important national organization.

Another important element in our national relationships is our cooperation with the research agencies of the USDA, particularly the Agricultural Research Service and the Economic Research Service. With the change of the organization of the Agricultural Research Service, the state stations of the North Central region have particularly close working relationships with the ARS regional office at Peoria which is headed by a deputy administrator, and with the Nebraska area through Dr. Keith Gregory, area director.

Many other national research relationships involve staff members for the Station, including those with the National Science Foundation, the National Institute of Health, and other research granting agencies operating at the national level.

With the passage of the Foreign Agricultural Assistance Act of 1975 and particularly Title XII of that Act, a new dimension of international relationships involving the Experiment Stations has been created. Of course, in the past, we have had points of contact worldwide and cooperative research relationships through our AID contract programs in sorghum and wheat. Under Title XII, the Land Grant Universities will be more heavily involved in worldwide relationships and the Agricultural Experiment Stations will have a particularly important role with respect to the research networks which are envisaged.

Howard W. Ottoson

PERSONNEL ACTIONS

Chen, Yud-ren - Asst. Professor, Ag. Engineering (MARC) - Courtesy appointment
Cross, Otis E. - Assoc. Professor, Ag. Engineering - Return from leave
Hanway, D. G. - Professor, Agronomy - Change from Chairman of Department of Agronomy
Haskins, Francis A. - Professor, Agronomy - Additional appointment as Acting Chairman
dson, Donald B. - Assoc. Professor, Veterinary Science & Extension Veterinarian - Appointment
Lane, Delbert E. - Asst. Professor, Ag. Engineering - Disability leave
Olson, Dennis G. - Asst. Professor, Animal Science - Appointment
Wilhelm, Wallace W. - Asst. Professor, Agronomy - Courtesy appointment (ARS)
Wright, Ronald W. - Business Manager - Resignation

GRANTS AND CONTRACTS

Bashford, L. L. - Ag. Engineering - Nebraska Soybean Development Board	5,000
Burnside, O. C. - Agronomy - Velsico Chemical	500
Fenster, C. R. - Agronomy (PH Sta) - E. I. DuPont	600
Fenster, C. R. - Agronomy (PH Sta) - Eli Lilly & Company	1,300
Fenster, C. R. - Agronomy (PH Sta) - Wheat Commission	3,000
Flowerday, A. D. - Agronomy - Nebraska Soybean Development Board	4,800
Hagen, A. F. - Entomology (PH Sta) - Chevron Chemical Co.	1,000
Kerr, E. D. - Plant Pathology (PH Sta) - Diamond Shamrock	500
Krause, V. E. - Animal Science (NE Sta) - N.E. Nebraska Experimental Farm Ass'n.	1,616
Leopold, A. C. - Agronomy - Nebraska Soybean Development Board	8,300
Mandigo, R. W. - Animal Science - Nebraska Beef Industry	18,300
Martin, A. R. - Agronomy - American Cyanamid Co.	500
Mayo, Z. B. - Entomology - Environmental Protection Agency	22,000
Nichols, J. T. - Agronomy (NP Sta) - U of N Foundation-Anna H. Elliott Fund	7,400
Roeth, F. W. - Agronomy (SC Sta) - Eli Lilly and Company	500
Roeth, F. W. - Agronomy (SC Sta) - Stauffer Chemical Company	500
Satterlee, L. D. - Food Sci. & Tech. - National Science Foundation	7,100
Schmidt, J. W. - Agronomy - Nebraska Department of Agriculture	10,000
Shahani, K. M. - Food Sci. & Tech. - Gist-Brocades Delft-Holland	1,095
Stubbendieck, J. L. - Agronomy (PH Sta) - State Department of Agriculture	7,420
Sullivan, T. W. - Poultry & Wildlife Sci. - Olin Corp. Chemicals Group	3,000
Sullivan, T. W. - Poultry & Wildlife Sci. - Occidental Chemical Co.	900
VonBargen, Kenneth & N. C. Teter - Ag. Engineering - Deere & Company	26,157
Weiss, Albert - Ag. Engr.(PH Sta) - Anna H. Elliott Fund - U of N Foundation	9,600
Wicks, G. A. - Agronomy (NP Sta) - Shell Development Co.	1,000
Wicks, G. A. - Agronomy (NP Sta) - Miscellaneous Donors	800
Wilson, R. G., Jr. - Agronomy (PH Sta) - PPG Industries, Inc.	500
Wilson, R. G., Jr. - Agronomy (PH Sta) - Anna H. Elliott Fund - U of N Foundation	3,000

GENERAL NOTES

1. ENROLLMENTS:

	Agriculture			Home Economics		
	1966	1975	1976	1966	1975	1976
Freshmen	430	460	520	203	250	263
Sophomores	300	385	387	216	239	250
Juniors	228	359	407	142	284	281
Seniors	183	309	333	82	283	305
Unclassified	12	4	10	9	4	3
TOTAL	1,153	1,517	1,657	652	1,060	1,102

2. Departmental program reviews have been scheduled through CSRS, USDA for this year as follows: Horticulture, October 26-28; Food Science & Technology, Food and Nutrition, Agricultural Biochemistry, November 30-December 3; Plant Pathology, February 8-10; Forestry, April 14-15. All staff of the departments involved and others interested will want to guard these dates for participation in these open reviews.
3. Sahs sez - Major areas of the Field Laboratory will be open to small game hunting again this year on October 30.
4. Schnieder on safety - With the heating season starting, it is important to make certain that heating equipment is clean, tight, and separated from extraneous combustible accumulations of the off-season. (A bird's nest in a fireplace chimney has caused a fatality this season.)
5. You have each received a communication from Deans Ottoson, Hartung or Lucas concerning the "Time Management Workshop" being considered for sometime in January. This would be a staff development activity and a rather special one-time replacement for the Staff Conference which has been cancelled. We urge staff to respond to the survey of interest on this.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - September 1976

Journal Articles (contact authors for more information)

5184. Comparative Viability of Parent and Gamma Irradiated Bacterial Cells. R. B. Maxcy. *Journal of Food Science*.
5185. The Solubility Rate of Large Particle Oyster Shell and Limestone In Vivo and In Vitro. H. J. Kuhl, Jr. and T. W. Sullivan. *Poultry Science*.
5186. Volumetric Method for Estimating Air Content of Flexible Packages of Food. R. B. Maxcy. *Journal of Food Science*.
5187. Copper Essential to Reproductive Phase of Growth in Wheat. J. C. Brown and R. B. Clark. *Plant and Soil*.
5188. Alterations of Yield, Test Weight, and Protein in Lodged Grain Sorghum. Jeffrey C. Larson and Jerry W. Maranville. *Agronomy Journal*.
5189. An Analysis of Selected Factors Influencing Use of Time by 40 Vocational Agriculture Instructors in Nebraska. Roy D. Dillon. *Journal of the American Association of Teacher Educators in Agriculture*.
5190. Inhibition of Growth and Aflatoxin Production by Cinnamon and Clove Oils, Cinnamic Aldehyde and Eugenol. L. B. Bullerman, F. Y. Lieu and Sally A. Seier. *Journal of Food Science*.
5191. Simultaneous Production of Penicillic Acid and Patulin by a Penicillium Species Isolated from Cheddar Cheese. F. J. Olivigni and L. B. Bullerman. *Journal of Food Science*.
5192. Control of Weeds in Non-Cultivated, Narrow Row Sorghum Production. O. C. Burnside. *Agronomy Journal*.
5193. Clothing for a Growing Population. Dotti Callahan and Audrey Newton. *Journal of Extension*.
5194. Niacin and Pantothenic Acid Excretions of Humans on Low-Methionine, Plant-Based Diet. Mary L. Duke, Constance Kies and Hazel M. Fox. *Journal of Nutrition*.
5195. Incidence and Control of Mycotoxin Producing Molds in Domestic and Imported Cheeses. L. B. Bullerman. III IUPAC Symposium on Mycotoxins in Foodstuffs, Paris, France, September 16-18, 1976.
5196. Teaching and Leadership Experience Influence Use of Teacher Time. Roy D. Dillon. *Agricultural Education Magazine*.
5197. Some Factors That Make A Difference in Use of Teacher Time. Roy D. Dillon. *Agricultural Education Magazine*.
5198. The Intelligence and Creativity of Children with Imaginary Play Companions. Violet Kalyan Masih. *Developmental Psychology*.
5199. Interstate Highway Road-Killed Animals: A Data Source for Biologists. Ronald M. Case. *Wildlife Society Bulletin*.

5200. Production and Stability of Aflatoxins, Penicillic Acid and Patulin in Several Substrates. F. Y. Lieu and L. B. Bullerman. *Journal of Food Science*.
5201. Facilities for Beef Housed Feedlot. C. B. Gilbertson. *Feedlot Management Magazine*.
5202. Tillering in Irrigated Smooth Bromegrass (Bromus inermis Leyss.) as Affected by Elongated Tiller Removal. James W. Krause and Lowell E. Moser. XIII International Grassland Conference.
5203. Incidence and Control of Mycotoxin Producing Molds in Domestic and Imported Cheeses. L. B. Bullerman. Third IUPAC Sponsored Symposium on Mycotoxins in Foodstuffs, Sept. 16-18, 1976, Paris, France.
5204. Descriptions of the Larva and Pupa of Osmoderma subplanata (Casey) and Cremastochelius wheeleri LeConte (Coleoptera: Scarabaeidae). Brett C. Ratcliffe. Kansas Entomological Society.
5205. Effects of Capreomycin Disulfate and Oxamycin on Ruminal pH, Lactate and Volatile Fatty Acid Concentrations in Sheep Experiencing Induced Acidosis. David K. Beede and Stanley D. Farlin. *Journal of Animal Science*.
5206. Effects of Antibiotics on Lactate and Volatile Fatty Acid Concentrations: In Vitro Rumen Fermentation Studies. David K. Beede and Stanley D. Farlin. *Journal of Animal Science*.

Journal Abstracts (contact authors for more information)

- 76-782. Bioassay Competition for Atrazine. D. W. Hoffman and T. L. Lavy. *Weed Science Journal Abstract*.
- 76-783. Leaf and Stem Yields and Crude Protein of Three Range Grasses Fertilized with Nitrogen Fertilizer. L. J. Perry, Jr. *Range Management Journal Abstract*.
- 76-784. Pesticide Interactions on Oats Grown in the Greenhouse. D. L. Bucholtz and T. L. Lavy. *Weed Science Journal Abstract*.
- 76-785. Atrazine Adsorption in a Low Water/Soil Ratio System as Influenced by Temperature and Soil Water Content. T. H. Dao and T. L. Lavy. *Weed Science Journal Abstract*.
- 76-786. Oat Yields the Year Following Herbicide Applications onto Corn That Was Grown in Untilled Wheat Stubble (ecofallow). O. C. Burnside. North Central Weed Control Conference.

BULLETINS PRINTED

- RB 277. Performance of Certified Seed Lots of Dawson Alfalfa. W. R. Kehr and G. R. Manglitz.
- SB 539. Wheat Production Costs in the Southwestern & Panhandle Areas of Nebraska, 1974 Robert E. J. Retzlaff.