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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. 12, No. 6, December 1978

## FROM THE DIRECTOR'S DESK - GENERAL NOTES

THE DIRECTOR'S OFFICE STAFF WISHES EACH OF YOU A VERY MERRY HOLIDAY SEASON AND HAPPY 1979!

2. There will be a comprehensive review of the Home Economics extension and research programs in the IANR (except Human Nutrition and Food Service Management) January 8-11, 1979. The review team will include Dr. Peggy Berger, CR-SEA; Dr. Lois Dickey, Ohio State; Dr. Ron Pitzer, University of Minnesota; Dr. Francis Fortenberry, Mississippi State; and Dr. James Walters, University of Georgia.

3. Three parcels of northeast Lincoln land (40, 30 and 5 acres) associated with the vacated swine research area were offered for sale via sealed bids in November. Bids on the two larger parcels were substantially below appraised value and were rejected. The high bid on the five acre parcel was accepted. Had all parcels offered been sold, the intended sale of lands in the "Havelock area" would have been completed.

4. At their December meeting, the Board of Regents approved the appointment of Dr. Howard Ottoson as Assistant Vice Chancellor of the IANR, effective January 1. He will serve as Acting Director of the Agricultural Experiment Station until a replacement is selected.

5. On January 1, Professor Robert Fritschen, Swine Specialist at the Northeast Station will assume new duties as Associate District Director of the Panhandle Station and District I. Bob will be working with John Wehling in a role similar to that vacated by Dr. Lloyd Andersen when he moved to new duties in Lincoln.

6. As you communicate with potential industrial or organizational representatives in developing grant arrangements, please make it clear that the University (or any of its elements) cannot waive or in any way forfeit the right to publish or otherwise use data or results from such research as it sees fit. Neither can patent or other proprietary rights be forgone or assigned in advance.

7. The new Agricultural Engineering Annex Building is nearing completion. This will house new tractor-testing facilities and several other laboratory functions of the department and will be ready for use as the testing season starts in early spring. This project is separate from the anticipated major renovation and modernization of the main agricultural engineering building.

8. The new Plant Sciences Building is in wrap-up stage. The Department of Horticulture has been in it for some time as have some components of the Agronomy Department. It is now anticipated that the move in will be completed in January as Plant Pathology and other Agronomy units make the shift.

9. Enrollments in agricultural curricula for 1977-78 and 1978-79 are summarized as follows:

	1977-78		1978-79	
	Male	Female	Male	Female
Freshmen	459	113	406	108
Sophomores	330	84	358	87
Juniors	350	68	387	77
Seniors	340	47	318	62
Unclassified	9	0	7	1
	1,488	312	1,476	335
	1,800		1,811	

10. Budget stress within the Agricultural Experiment Station continues to be a concern as we seek to make up deficits of resources adequate to cover July 1, 1978 budget allocations to units. It does appear now that we can come out even next June 30 by use of certain unallocated AES resources and recovery of open A and B line salaries.

11. The deadlines for submission of 1979 SEA, USDA competitive grants proposals have been delayed. Proposals relating to "Biological Stress", "Nitrogen Fixation" and "Food Habits" are now due in this office Dec. 22, 1978. Proposals on "Genetic Mechanisms", "Photosynthesis" and "Human Nutrient Requirements" are due at the AES Jan. 22, 1979. These are the only categories of research involved in this program.

12. There are new animal disease research funds provided in the current year SEA budget for both formula support and competitive grants for state station programs. These have potential for Veterinary Science, Animal Science and Entomology projects which qualify. Our planning and proposal preparation has been activated.

#### PERSONNEL ACTIONS

Arthaud, Agnes L. - Assoc. Dean & Director - Coop. Extension - Retirement, Jan. 1.  
 Edling, Robert J. - Ass't Prof. - Ag Eng (PH Sta) - Resig. - Louisiana St. U.  
 Kinder, James. E. - Ass't Prof. - An. Science - New Appointment  
 Levis, Donald G. - Ass't Prof. - An. Science (SC Sta) - New Appointment  
 Lewis, Gary L. - Water Resources Ctr. - Reappointment to Acting Director  
 Newton, Audrey E. - TCD - Chairman - Leave of Absence (June-December, 1979)  
 Ottoson, Howard W. - Ass't Vice Chancellor - IANR - Change in Title  
 Rupnow, John. - Ass't Prof. - Food Science and Technology - New Appointment

#### GRANTS AND CONTRACTS

Baker, Maurice - Ag Economics - Lower Platte South	2,000
Frey, Merwin - Vet Science - Old West Regional Commission	65,021
Frey, Merwin - Vet Science - Merck, Sharpe & Dohme	2,500
Handel, Philip A. - Food Science & Tech. - Allen Products Co., Inc.	150
Hudson and Hibbs (NP Sta.) and Kelling (Vet. Sci.) - Calf Scour V. Fds.	17,750
Hudson, Don - NP Station - Merck and Company, Inc.	12,300
Kleis, R. W. - Ag Experiment Station - USDA/SEA/SRS Regional Research	511,906
Klopfenstein, Terry - Animal Science - Distillers Feed Res. Council	5,000
Klopfenstein, Terry - Animal Science - Liquid Feed Commodities, Inc.	997
Larson and Owen (An Sci) and Erickson (Vet Sci) - Calf Scours Vac. Fds.	11,300
Leavitt, Robert C. - Agronomy - Ciba Geigy Corporation	2,000
Mayo, Z. B. - Entomology - Environmental Protection Agency	24,000
Ottoson, Howard W. - Ag Experiment Station - McIntire-Stennis	68,553
Shearman, Robert - Horticulture - Chemlawn Corporation	2,500
Vet Science Staff - Calf Scours Vaccine Royalty Funds	32,660
Wilson, Robert, Jr. - PH Station - Pennwalt Corporation	500
Witkowski, John - NE Station - ICI Americas, Inc.	700

"The man who strives to educate himself must win a certain victory over his own nature. He must learn to smile at his dear idols, analyze his every prejudice, scrap if necessary his fondest and most consoling belief, question his assumptions and take his chances with the truth...." - Everett D. Martin

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - November 1978

Journal Articles - Submitted for Publication (contact authors for more information)

5599. A Preliminary Study of Seed Predators of the Platte Thistle in the Nebraska Sandhills. William O. Lamp and M. K. McCarty. Transactions, Nebraska Academy of Science.
5600. Association of Soil-borne Pathogens with Soybean Platte Valley Yellow. M. L. Schuster and Lisa R. Brezina. Phytopathology.
5601. Some Effects of Greenbug Control on Resistant and Susceptible Grain Sorghum Hybrids. S. D. Kindler, R. Staples, L. L. Peters and P. T. Nordquist. Journal of Economic Entomology, Section F.
5602. Marriage Rituals: Implications for Marriage and Family Relationships Classes. Barbara Jo Chesser. The Family Coordinator.
5603. Growth, Income and Survivorship Relationships in Wheat Farming. Larry J. Held and Glenn A. Helmers.
5604. Adaptation to High Concentrate Diets by Beef Cattle. I. Adaptation to Corn and Wheat Diets. W. R. Fulton and T. J. Klopfenstein. Journal of Animal Science.
5605. Gastrointestinal Parasites in Beef Cows. John K. Ward, Donald L. Ferguson and Anne M. Parkhurst. Journal of Animal Science.
5606. Adaptation to High Concentrate Diets by Beef Cattle. II. Effect of Ruminant pH Alteration on Rumen Fermentation and Voluntary Intake of Wheat Diets. W. R. Fulton, T. J. Klopfenstein and R. A. Britton. Journal of Animal Science
5607. Tax and Inflation Adjustments to Machinery Cost Models. Myles J. Watts and Glenn A. Helmers.
5608. Characteristics of Some Radiation Resistant Hemolytic Micrococci Isolated from Chicken. Ardyce B. Welch and R. B. Maxcy. Journal of Food Science.
5609. Significance of Hemolytic Activity of Some Radiation-Resistant Micrococci in Food. Ardyce B. Welch and R. Burt Maxcy. Applied and Environmental Microbiology.
5610. Effect of 3-Hydroxy-3-Methylglutaric Acid on Cholesterol Metabolism in Female Japanese Quail. Michael E. Labate and Richard Dam. Poultry Science.
5611. Bacteriocins of Phytopathogenic *Corynebacterium* Species. D. C. Gross and A. K. Vidaver. Canadian Journal of Microbiology.
5612. AGNET - A Management Tool for Agriculture. T. L. Thompson, J. G. Kendrick and A. L. Stark. Agricultural Engineering or Transactions of the ASAE.
5613. Syringomycin Production and Holcus Spot Disease of Maize: Plasmid-associated Properties. Carlos F. Gonzalez and Anne K. Vidaver. Journal of Bacteriology.

(over)

Journal Abstracts - Submitted for Publication (contact authors for more information)

- 78-1099. Herbage Yield and Quality of Fertilized Cool Season Grass-Legume Mixtures. R. D. Schultz and J. Stubbendieck. 1979 Society for Range Management Annual Meeting.
- 78-1100. Herbage Yield of Eight Irrigated Grass-Legume Mixtures. J. Stubbendieck and R. D. Schultz. 1979 Society for Range Management Annual Meeting.
- 78-1101. Maintaining Spray Solution on a Weed Roller. J. S. Schepers and O. C. Burnside. North Central Weed Control Conference Research Report.
- 78-1102. Immunization of Pigs to *Ascaris suum*, the Large Intestinal Roundworm. M. B. Rhodes and Renee' A. Hart. 59th Conference of Research Workers in Animal Diseases.
- 78-1103. Defoliation of Hemp Dogbane by Insects. M. E. Schultz and O. C. Burnside. North Central Weed Control Conference Research Report.
- 78-1104. Allelopathic Influence of Hemp Dogbane on Corn, Soybean, and Grain Sorghum. M. E. Schultz and O. C. Burnside. North Central Weed Control Conference Research Report.
- 78-1105. Feasibility of the Roller Applicator for Controlling Weed Escapes in Soybeans. S. M. Irons and O. C. Burnside. North Central Weed Control Conference Research Report.
- 78-1106. Postemergence Treatments for Hemp Dogbane Control in Cropland. M. E. Schultz and O. C. Burnside. North Central Weed Control Conference Research Report.
- 78-1107. Control of Weeds in Close-Drilled Sorghum. Orvin C. Burnside. North Central Weed Control Conference Research Report.
- 78-1108. Selective Control of Weeds in Close-Drilled Soybeans. Orvin C. Burnside. North Central Weed Control Conference Research Report.
- 78-1109. Permanent Plot Markers for Locating Perennial Weed Control Plots. Gary L. Cramer, Marvin E. Schultz and Orvin C. Burnside. North Central Weed Control Conference Research Report.
- 78-1110. Selective Control of Weeds in Corn. Orvin C. Burnside. North Central Weed Control Conference Research Report.
- 78-1111. Control of Hemp Dogbane as Influenced by Time of Clipping after 2,4-D Application. Marvin E. Schultz and Orvin C. Burnside.
- 78-1112. Control of Hemp Dogbane as Influenced by Time of Clipping After Glyphosate Application. Marvin E. Schultz and Orvin C. Burnside. North Central Weed Control Conference Research Report.
- 78-1113. Influence of Water Types on Toxicity of Glyphosate to Hemp Dogbane. Marvin E. Schultz and Orvin C. Burnside. North Central Weed Control Conference Research Report.