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THE AGRICULTURAL EXPERIMENT STATION
INSTITUTE OF AGRICULTURE
AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA-LINCOLN
ROY G. ARNOLD, DIRECTOR

Agricultural Experiment Station

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Vol. 14, No. 6, January 1981

Looking ahead: Experiment Station FROM THE DIRECTOR'S DESK

Following my visits to the several units of the Agricultural Experiment Station, discussions with AES staff, and time to reflect on numerous comments and suggestions received, I have identified the following issues for major attention by the Station Office in 1981.

- 1) Station projects ... format, review process, reporting. A subcommittee of the Experiment Station Advisory Committee is developing recommendations in this area. These recommendations will be shared for discussion and comment.
- 2) Strengthen information and assistance capabilities within Station Office for research grants and contracts.
- 3) Promote more in-house "research update" workshops, and encourage more group research efforts, where appropriate. Some impressive examples exist, and numerous other opportunities have been pointed out.
- 4) Achieve greater visibility for research programs of the Station.
- 5) Seek improved funding for research programs of the Station (an on-going, long-term effort).
- 6) Completion of development plan for Field Laboratory at Mead and initiation of efforts to attract external funds to assist in this development.
- 7) Develop improved internal service capabilities for repair and maintenance of scientific instruments.

Welcome to Mrs. Linda Arnold:

Effective January 5, Mrs. Linda Arnold assumed the responsibilities of the Secretarial Specialist position in the Ag. Experiment Station Office. Linda comes to this position with 13 years of experience within the University. For the past eight years, she served as secretary to the Assistant to the Chancellor, UN-L, and receptionist in the Office of the Chancellor. Earlier assignments included the UN-L Personnel, Accounting, and Comptroller offices. Currently, Linda is serving as President of the University of Nebraska Office Personnel Association. Linda is a native of David City, NE. She and her husband, Chuck, have a 10-year-old son, Chris. We welcome Linda to this new position.

Federal Budget Update:

The Fiscal-1981 Federal budget for USDA-SEA included the following changes:

Hatch formula funds: +8.4% (Note: Doesn't reflect actual increase for Nebraska programs, in that some additional eligible institutions are to be funded out of increase and elimination of earmarked funds for rural development.)

McIntire-Stennis Cooperative Forestry funds: +7.7%.

Title V Rural Development Act funds: Eliminated as earmarked funds.

Section 1433 Animal Health and Disease Research funds: Restored, and increased 8.3% (\$ 6,500,000).

Section 1419 Alcohol Fuels Research Grants funds: maintained at FY '80 level (\$ 500,000).

Competitive Research Grants: maintained and increased 3.2% (Plant Science research, \$ 13 million; Human Nutrition research, \$ 3 million).

Special Research Grants (selected components of potential interest to Nebraska AES staff):

Food and agriculture policies	\$ 150,000
Soybean research	500,000
Integrated pest management (consortium)	1,500,000
Pesticide clearance	1,250,000
Pesticide impact assessment	1,810,000
Animal health research	5,050,000
Energy research	1,900,000
Germplasm resources research	500,000

Roy G. Arnold

Sahs Sez:

The IANR is, or soon will be, recognized as the national leader in range and ranch related research. A multi-discipline IANR Planning Committee will convene Jan. 16th at North Platte to develop plans to operate, as of May 1, 1981, and later develop the recently acquired Gudmundsen 12,000 acre ranch north of Whitman, NE. It will be known as the Gudmundsen Sandhills Research Center and will be the site for extensive research, cooperative extension, and in time, possibly, off-campus teaching activities. We hope to have a suitable on-site dedication of the facility in June, 1981.

The IANR Pesticide committee visited project areas at the Field Laboratory in November and December. With their good help, advise and counsel, the Field Laboratory "passed inspection" as of December 23, 1980.

Grants and Contracts:

Amend, James F. (Veterinary Science) - Eli Lilly and Company	4,800
Baker, Maurice (Ag Economics) - USDA/ESCS	16,000
Bodman, G. R., DeShazer, J. A., & Schulte, D. D. (Ag Engineering) - USDA/SEA	54,300
Burnside, O. C. (Agronomy) - Diamond Shamrock	400
Chollet, Raymond (Ag Biochemistry) - USDA/SEA	58,000
Coyne, D. P. (Horticulture) - Anna H. Elliott Fund (via Foundation)	1,083
Coyne, D. P. (Horticulture) - Union Pacific Foundation (via UN Foundation)	6,500
DeShazer, J. A. (Ag Engineering) - Nebraska Inter-Industry Electric Council	1,000
Dickey, E. C. (Ag Engineering) - UN Foundation	31,000
Dickerson, G. E. (Animal Science) - UN Foundation	1,000
Doran, J. W., Wilhelm, W. W. (Agronomy), Fenster, C. R. (Panhandle) - Anna Elliott Fund (via Foundation)	6,500
Fenster, C. R. (Panhandle Station) - Eli Lilly and Company	2,000
Ferguson, Donald L. (Vet Science) Danielson, Murray (North Platte) - Hoechst-Roussel Pharmaceuticals Inc.	9,500
Francis, C. A. (Agronomy), Eastin, J. D. (Agronomy), Nelson, L. A. and Fenster, C. R. (Panhandle Station) - Union Pacific Foundation	5,500
Froning, G. W. (Animal Science) - Poultry Science Association	100
Gardner, C. O. (Agronomy) - Institute of International Education	1,541
Omtvedt, I. T. (Animal Science) - USDA/SEA	50,000
Peters, Leroy L. (South Central Station) - Union Pacific Foundation	10,350
Roeth, F. W. (South Central Station) - Mobay Chemical Corporation	125
Roeth, F. W. (South Central Station) - American Hoechst Corporation	300
Rosenberg, N. J. (Center for Ag Meteorology & Climatology) - National Science Foundation	27,820
Rush, Ivan G. (Panhandle Station) - Eli Lilly and Company	9,300
Satterlee, L. D. (Food Science & Technology) - A. E. Staley Manufacturing Company	1,575
Schmidt, J. W., Johnson, V. A., Mattern, P. J. (Agronomy) - Rohm and Haas Company	1,000
Shahani, K. M. (Food Science & Technology) - International Multifoods	225
Thompson, Thomas L. (Ag Engineering) - USDA/SEA	23,500
Torres-Medina, Alfonso (Veterinary Science) - National Institutes of Health	12,800
Vidaver, Anne K. (Plant Pathology) - USDA/SEA	32,800
Wicks, G. A. (North Platte Station) - Stauffer Chemical Company	500
Wicks, G. A. (North Platte Station) - Monsanto Company	750
Witkowski, John (Northeast Station) - American Cyanamid Company	1,500
Witkowski, John (Northeast Station) - Dow Chemical	1,000

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - December 1980

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

5972. The Mg and CO₂ Problems in Nitrate Recovery by Stream Distillation. C. Clausen, B. R. Bock, G. A. Peterson and R. A. Olson. Soil Science Society of America Journal.
5973. Acetanilide-Antidote Combinations for Weed Control in Corn and Sorghum. M. E. Winkle, J. R. C. Leavitt and O. C. Burnside. Weed Science.
5974. Estimating Apparent Protein Digestibility from *In Vitro* Assays. L. D. Satterlee, J. G. Kendrick, D. K. Jewell and W. D. Brown. Proceedings from the NSF sponsored conference entitled, "Protein Quality in Humans-Assessment and In Vitro Estimation."
5975. Nutritional Value of Anaerobically Fermented Beef Cattle Wastes for Beef Cattle and Sheep. R. L. Prior, R. A. Britton and A. G. Hashimoto.
5976. Soybean Cropping Sequence Influence on Physical Properties of Soil. A. A. Fahad, L. N. Mielke, A. D. Flowerday and D. Swartzendruber.
5977. Regulation of Photorespiration. Rathnam Chaguturu and Raymond Chollet. Current Advances in Plant Science.
5978. Screening Sorghum for Aluminum Tolerance in Nutrient Solutions. P. R. Furlani and R. B. Clark. Agronomy Journal.
5979. Control of Weeds in Winter Wheat and Untilled Stubble with Herbicides. H. Ghadiri, G. A. Wicks, C. R. Fenster and O. C. Burnside. Weed Science.
5980. A Differential Effect of Race T Toxin on Dark and Photosynthetic CO₂ Fixation by Thin Leaf Slices from Susceptible Corn. J. M. Daly and Balázs Bárna. Plant Physiology.
5981. Net Genetic and Temporary Epistatic or Maternal Environmental Responses to Selection for Egg Production in Leghorn Chickens. G. L. Bennett, G. E. Dickerson, R. S. Gowe, A. J. McAllister and J. A. B. Emsley. Genetics.
5982. An Improved Electronic Circuit for the Detection of Leaf Wetness and a Comparison of Two Sensors Under Field Conditions. A. Weiss and D. L. Lukens. Plant Disease.
5983. Registration of Perry Alfalfa. W. R. Kehr, G. R. Manglitz and R. L. Ogden. Crop Science.
5984. Extraction and Processing of Various Components from Egg Yolk. J. E. Larsen and G. W. Froning. Poultry Science Journal.
5985. An Economic Analysis of Land Values in Two Soil Zones With and Without Fertilizer. H. Douglas Jose and Dwight D. Markland. Journal of Soil and Water Conservation.
5986. Registration of Sno-Fox Italian Millet. Lenis A. Nelson. Crop Science.

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

- 80-1440. Interesterified Blends of Corn Oil and Edible Tallow for Use as Margarine Oils. A. Philip Handel and Oscar Chacon. American Oil Chemists' Society Annual Meeting.
- 80-1441. Degumming of Soybean Oil: Quantitative Analysis of Phospholipids in Crude and Degummed Oil. Linda M. Drews and A. Philip Handel. American Oil Chemists Society Annual Meeting.
- 80-1442. Mechanisms of Experimental Monensin Toxicosis in Ponies. F. M. Mallon, J. F. Amend, A. S. Ramos, C. J. Morrow and W. B. Wren. Federation Proceedings.
- 80-1443. Field Corn, European Corn Borer Control, 1980. John F. Witkowski. Insecticide and Acaricide Tests.
- 80-1444. Soil Persistence of EPTC With and Without a Microbial Inhibitor. R. G. Wilson, A. R. Martin and F. W. Roeth. Proceedings of North Central Weed Control Conference.
- 80-1445. Control of Weeds in Alfalfa in Western Nebraska. R. G. Wilson and Don Huls. Proceedings of North Central Weed Control Conference.
- 80-1446. Progress of *Trichosiocalus horridus* Panzer in Bio-Control of Musk Thistle. L. L. Phillips and M. K. McCarty. North Central Weed Control Conference.
- 80-1447. Variability in Leafy Spurge (*Euphorbia esula* L.). D. H. Ebke and M. K. McCarty. North Central Weed Control Conference.
- 80-1448. Effect of Musk Thistle Weevil on Seed Production in Central Nebraska. M. K. McCarty and W. O. Lamp. North Central Weed Control Conference.
- 80-1449. Selective Control of Sunflowers in Soybeans. S. M. Irons and O. C. Burnside. North Central Weed Control Conference.
- 80-1450. Levels of Amino Acids and Ureides from Soybean Nodule Exudate as Related to Nodule Age. Linda Shearman and Robert V. Klucas. 1980 Agronomy Abstracts.
- 80-1451. The Use of Glyphosate in Rope-Wicks and Roller Applicators for Controlling Shattercane and Volunteer Corn in Grain Sorghum. John D. Furrer, William E. Lueschen, Alex R. Martin and Orvin C. Burnside. North Central Weed Control Conference.
- 80-1452. Comparative Effectiveness of New Generation Applicators for Controlling Weed Escapes in Soybeans and Grain Sorghum. John D. Furrer, William E. Lueschen, Alex R. Martin and Orvin C. Burnside. North Central Weed Control Conference.

BULLETINS PRINTED

- RB 295. Growth and Survival of Nebraska Panhandle Wheat Farms Under Selected Financial Conditions. Larry J. Held and Glenn A. Helmers.