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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. 8, No. 1, July 1975

FROM THE ACTING DIRECTOR'S DESK

There were several needs of the Agricultural Experiment Station for which the 1975 legislative session did not provide. This was disappointing, but we must not fail to note that the Legislature and the Governor did provide substantial increases in support of our research programs for the state. An inventory of appropriation components reveals that they provided a 16 percent increase in appropriated dollars over 1974-75. The primary increase categories are:

1. Making permanent from tax funds the special 1974-75 salary adjustment which had been provided from nonrecurring land sale funds.-----\$250,000
2. Water Resources Management, area of excellence----- 264,000
3. AES salary adjustments----- 438,569
4. Operating budget increase - 7.5 percent----- 52,447
5. Specific increases in support budgets of present programs----- 178,400
6. Increased staff benefits cost----- 31,479

Items 1 and 2 are for IANR and not exclusively AES. Including only that AES components of these two items, the total increase in appropriated dollars to the Agricultural Experiment Station exceeds \$900,000. We must recognize this as very significant.

It was a relatively good year in terms of capital facility legislation. The funding was provided for a major next construction stage in the Animal Health Complex and authorization was passed and planning funds were appropriated for the very large Plant Sciences Complex and the South Central Station headquarters building.

We have an obligation to analyze and define needs and problems in our research programs as a vital part of our public charge and to make every effort to cause them to be resolved. We have done this and will continue to do so through internal management and through the budget request process. The basic and overriding responsibility of every one of us is to execute the most effective package of research that we possibly can with the public resources committed to us.

The NAES has 88 years of history distinguished by research productivity. It is stronger in 1975-76 than ever before. Let us continue this history of effective service to Nebraska as we also work to fill gaps and strengthen weaknesses.

PERSONNEL ACTIONS

- Barber, Larry R. - Assistant Professor of Forestry - Dist. III Ext. Forester (Resignation)
Caldwell, William E. - Assistant Director--Extension for 4-H and Youth Development (Appt.)
DeFrain, John D. - Assistant Professor of Human Development and the Family (Appointment)
Edwards, Arthur P. - Associate Professor of Agronomy (Resignation)
Gama, Milford A. - Assistant Professor of Agr'l Engineering and Food Science (Appt.)
Mulliner, H. Robert - Extension Specialist, Irrigation - Associate Prof.--SC Sta. (Retirement)

Personnel Actions (continued)

Sulek, Helen C. - Interim Chairman & Associate Prof. of Human Devel. & the Family (Appt.)
Sullivan, Kathleen A. - Shift to Associate State Leader, Home Economics (Promotion)
Watkins, John E. - Assistant Professor--Extension Plant Pathology (Appointment)
Webster, Jason S. - Assistant Professor of Agronomy, Emeritus (Retirement)

GRANTS AND CONTRACTS

Boosalis, M. G., et al - Plant Pathology - USDA, CSRS	\$ 99,943
Bullerman, L. B. - Food Science and Technology - DHEW	27,227
Burnside, O. C. - Agronomy - Monsanto	1,000
Burnside, O. C. - Agronomy - Shell Chemical Co.	500
Coyne, D. P. - Horticulture (Panhandle Station) Bean Companies	1,900
Ferguson, Donald L. - Veterinary Science - Hoeschst-Roussel Pharmaceuticals Inc.	6,500
Kendrick, J. G. & L. D. Satterlee - Food Science and Technology - NSF	121,900
Mayo, Z. B. - Entomology - Stauffer Chemical Company	750
Mayo, Z. B. - Entomology - Ciba-Geigy Corporation	750
Roeth, F. W. - Agronomy (South Central Station) - Monsanto	500
Splinter, W. E. - Agricultural Engineering - EPA	27,619
Steadman, J. R. - Plant Pathology - E. I. DuPont	600
Stetson, L. E. - Agricultural Engineering - National Rural Electric Cooperative Assn.	25,000
Wicks, G. A. - Agronomy (North Platte Sta.) - Fisons Corporation	1,400
Vidaver, A. K., et al - Plant Pathology - USDA, CSRS	63,664

GENERAL NOTES

1. CORRECTIONS of last newsletter items!

Sandhills Agricultural Laboratory Field Day is August 8 (not Aug. 28)
North Platte Horticulture Open House is September 28 (not Field Lab)

- Dr. Dickason has at his request returned to full-time duty as Chairman of Entomology. The functions of foreign programs administration will be handled through the Vice Chancellor's office with Dr. Sheffield providing assistance to the Vice Chancellor in this area.
- The new three page "DAS FORM 2000-1" Data and Budget forms will be used for all grants and contracts. Except for federal agency accounts, page three need not be completed except for the approvals section.
- Effective immediately all proposed research projects involving human subjects must be cleared by the review committee chaired by Louis H. Ourin, UNMC, before they may be activated or submitted to a federal funding agency. Six weeks should be allowed for such clearance. If human subjects are not involved, no problem (at least not this problem). If in doubt call our office or Mr. Ouren--8-7930.
- Tractor Power and Safety Day is July 24. In addition to the opportunity to show our various programs at the Field Lab to a large audience, we plan also some public citation for 100 years of Experiment Station history. (See the lead story in the summer issue of the Quarterly).
- Schnieder on Safety - Portable containers of gasoline should not be carried inside vehicles.
- We welcome Dr. John Woodward as the new Assistant Director of the AES for Home Economics replacing Dr. Sailor.

R. W. Kleis

Journal Articles (contact authors for more information)

4003. Influence of Carbohydrate and Nitrogen Sources on Patulin Production by Penicillium patulum. W. T. Stott and L. B. Bullerman. Applied Microbiology.
4004. Deep Percolation In a Furrow-Irrigated Sandy Soil. C. L. Linderman, L. N. Mielke and G. E. Schuman. Transactions of the ASAE.
4005. A Computer-Statistical Procedure to Determine Agroclimatic Analogues for Tea Production in Colombia. Fransisco Boshell and R. E. Neild. Agricultural Meteorology.
4006. Hormonal Involvement in Metabolism at Host-Parasite Interactions. J. M. Daly and H. W. Knoche. Biochemical Aspects of Plant Parasite Relationships, Symposium.
4007. Rheological Properties Related to Bread Freshness. Leonard L. Bashford and T. E. Hartung. Journal of Food Science.
4008. A D-Vac^R Calibration Technique. K. P. Pruess and R. W. Whitmore. Economic Entomology.
4009. Frequency and Moisture Dependence of the Dielectric Properties of Hard Red Winter Wheat. S. O. Nelson and L. E. Stetson. Journal of Agricultural Engineering Research.
4010. Imaginary Play Companion: Annotated Bibliography According to Selected Categories. Violet Kalyan-Masih and Janis Adams. ERIC/ECE (Educational Resources Information Center/Early Childhood Education).
4011. The Isolation and Partial Characterization of Four Peroxidase Isozymes from Rust-affected Wheat Leaves. Francis Catedral and J. M. Daly. Phytochemistry.
4012. N and P Movement from Agricultural Watersheds by Crop Uptake, Overland Flow, and Subsurface Discharge. R. E. Burwell, G. E. Schuman, H. G. Heinemann and R. G. Spomer. Journal of Environmental Quality.
4013. The Effect of Source and Level of Dietary Protein and Genetic Line on Growth Performance and Muscle Development of the Pig. B. D. Moser, E. R. Peo, Jr., and P. J. Cunningham. Journal of Animal Science.
4014. Imaginary Play Companions: Abstract Bibliography. Violet Kalyan-Masih and Janis Adams. ERIC/ECE (Educational Resources Information Center/Early Childhood Education).
4015. In-Migrant Response to Industrialization in Four Developing Areas, 1965-70. Duane A. Olsen and Curtis Braschler. Growth and Change.
4016. Viral Calf Enteritis. C. A. Mebus. Journal of Dairy Science.
4017. The Release and Estimation of Chlorogenic Acid in Leaf Protein Concentrate. N. L. Lahiry and L. D. Satterlee. Journal of Food Science.
4018. English and Metric Conversion Tables for Agronomic Research and Teaching. R. P. Waldren and A. D. Flowerday. Journal of Agronomic Education.

Journal Abstracts (contact authors for more information)

- 75-450. Heat Losses of Pullets After Initial Grouping at Different Bird Densities Per Cage. J. A. DeShazer and F. B. Mather. Poultry Science.
- 75-451. Effect of Cupric Oxide and Cupric Sulfate on Growth and on Liver and Fecal Copper Levels of Broiler Chicks. David K. Beede and T. W. Sullivan. Poultry Science.
- 75-452. Evaluation of Brewers Dried Grains in Diets for Starting and Growing-Finishing Turkeys. T. W. Sullivan, H. J. Kuhl, Jr. and D. P. Holder. Poultry Science.
- 75-453. Fluorine and Phosphorus Relationships in Diets for Starting and Growing-Finishing Turkeys. F. J. Struwe and T. W. Sullivan. Poultry Science.
- 75-454. Effect of Cupric Sulfate on Growth, Feed Efficiency and Cu Residues in Body Tissues and Litter of Turkeys Fed Bacitracin. T. W. Sullivan, G. D. Tordrup and Leon Chesnin. Poultry Science.
- 75-455. The Effect of Stress Conditions Prior to Slaughter, Struggle and Anesthesiation on Color and Textural Characteristics of Turkey Meat. G. W. Froning and A. S. Babji. Poultry Science.
- 75-456. Effects of Dietary Calcium, Protein and Energy on Feed Intake, Egg Shell Quality and Hen Performance. Earl W. Gleaves, F. B. Mather and Malik M. Ahmaç. Poultry Science.
- 75-457. Coronavirus Enteritis in Calves. C. A. Mebus. 3rd International Congress for Virology.
- 75-458. Restructured Meat. Roger W. Mandigo. Proceedings, 11th Meat Industry Research Conference.
- 75-459. Cropping an Abandoned Feedlot to Prevent Nitrate Movement into the Groundwater. G. E. Schuman and L. F. Elliott. Agronomy Abstracts.
- 75-460. Quantification of Indole and Skatole in an Enclosed Swine Unit. T. A. Travis and L. F. Elliott. Agronomy Abstracts.
- 75-461. Persistence of Pathogens Associated with Land Applications of Municipal and Animal Wastes. L. F. Elliott and J. R. Ellis. Agronomy Abstracts.
- 75-462. Sprinkler Irrigation of Beef Cattle Feedlot Runoff on Sod-Planted Corn. J. R. Ellis, H. D. Wittmuss and T. M. McCalla. Agronomy Abstracts.
- 75-463. Field Occurrence of Aflatoxins in Strawberry Popcorn. Jack Riesselman and Ben Doupnik, Jr. Annual Proceedings, American Phytopathological Society.

BULLETINS PRINTED

- SB 531. Perennial Flowers and Ground Cover for Nebraska. R. D. Uhlinger, D. S. Nuland and S. S. Salac.
- RB 270. Leaf Freckles and Wilt of Corn Incited by *Corynebacterium Nebraskense* Schuster, Hoff, Mandel, Lazar, 1972. M. L. Schuster.