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## Agricultural Experiment Station News March 1979

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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. 9, March, 1979

FROM THE DIRECTOR'S DESK

## Federal Budget Update

The President delivered his 1980 budget message to Congress on January 22. Included in his recommendations were those relating to Experiment Station programs. Here are the highlights:

- a. Hatch and McIntire-Stennis Forestry funds to remain the same as for Fy 1979. (This means a cut of eight to ten percent in real terms because of inflation.)
- b. Title V Rural Development program eliminated. (Nebraska share -- \$25,000.)
- c. Alcohol Fuels Research Grants initiated for FY 1979 eliminated.
- d. Animal Health and Disease Research under Sections 1433-1434, P.L. 95-133 funds eliminated. (Nebraska is receiving \$147,000 under this program during 1979, the first year.)
- e. Competitive Grants program to be doubled over FY 1979, from \$15 million to \$30 million.
- f. Special Grants (P.L. 89-106) cut by \$4 million, with major cut coming in animal health and disease research, but a major addition coming in energy research grants.

The above Hatch "stay-even" budget, coming on top of the stay-even Hatch appropriation for FY 1979 has serious implications to our program. Together, they mean that the real purchasing ability of our Hatch funds would be reduced in two years by 17 to 20 percent, or close to \$400,000.

We are not taking these recommendations lightly; the Land Grant system is reacting vigorously; we would hope that Congress will see fit to provide a 6% increase in research funds, plus an inflation adjustment for FY 1980.

## Center for Agricultural Meteorology and Climatology

At its January meeting the Board of Regents approved a recommendation from IANR to establish a Center for Agricultural Meteorology and Climatology within the Institute. This new entity brings together the Agricultural Meteorology Section in Agricultural Engineering and the Climate Records Office of Conservation and Survey Division. Scientists from other departments and district stations will be brought into association with this Center through joint appointments. Other qualified University staff members will be encouraged to affiliate with the Center through courtesy or joint appointments.

The functions of the Center will be to plan and coordinate research in the agricultural weather and climate area; to collect climatic data and maintain a library of such data; to provide climatic information to agricultural and other users, and to serve as a contact point with federal offices related to the National Climate Program Act of 1978.

This action recognizes the important place which these programs collectively represent in IANR, and provides the mechanism through which they can collectively move forward in serving the interests of Nebraska agriculture and people. It is a significant step.

**PERSONNEL ACTIONS**

Acton, James C. - Assoc. Prof. - Food Science & Technology - New Appointment  
 Hibbs, Clair M. - Professor - Vet Science (NP Station) - Resignation  
 Laster, Danny B. - Assoc. Prof. - Ani Science (MARC) - Resignation from Courtesy Appt.  
 Power, James F. - Professor - Agronomy - Courtesy Appointment  
 Schneider, Norman R. - Assoc. Prof. - Vet Science - New Appointment  
 School, Philip J. - Asst. Prof. - Entomology - Courtesy Appointment  
 Smith, Gerald M. - Asst. Prof. - Ani Science (MARC) - Resignation from Courtesy Appt.

**GRANTS AND CONTRACTS**

Bullerman, L. B. - Food Science & Technology - Monsanto Company	\$ 21,600
Farlin, Stanley D. - Ani Science - American Cyanamid	16,000
Fenster, C. R. - Agronomy (PH Station) - E. I. duPont deNemours & Co.	800
Ferguson, Donald L. - Vet Science - Syntex Corporation	5,000
*Frank, Kenneth D. - Agronomy (SC Station) - Kalo Laboratories, Inc.	1,500
Frey, Merwin L. - Vet Science - Merck and Company, Inc.	5,000
Gleaves, Earl W. - Ani Science - IMC Chemical Group, Inc.	2,200
*Hergert, Gary W. - Agronomy (NP Station) - Big Byron	832
*Klocke, Norman L. - Ag Engineering (NP Station) and Fenster, C. R. - Agronomy (PH Station) - International Harvester	7,302
Leavitt, J. Robert (Agronomy); Gold, Roger (Int. Prog.); Nelson, Emery (Pest. Trng. Coord.); Holcslaw, Terry - Pharmacy - UNMC; and Ryan, Charles R. - Pharmacy - UNMC	15,230
Larson, Larry L. and Foster, Owen G., - Ani Science - Hoffman-LaRoche Chemical Division	4,000
Matter Paul J., and Johnson, V. A. - Agronomy - U.S. Dept. of State AID	90,000
Mayo, Z. B. - Entomology - Dow Chemical Co.	1,000
*Nichols, James T. - Agronomy (NP Station) - Allied Chemical	2,500
Shahani, Khem - Food Science & Technology - National Dairy Council	16,000
*Shearman, Robert C. - Horticulture - Chevron Chemical Co.	500
*Ward, John K. - Ani Science - American Dehydrators Association	3,000
Wicks, Gail - Agronomy (NP Station) - E. I. duPont deNemours & Co.	800
*Wicks, Gail - Agronomy (NP Station) - Chevron Chemical Co.	1,000
Wilson, Robert G. - Agronomy (PH Station) - Dow Chemical Co.	750
Wilson, Robert G. - Agronomy (PH Station) - Jirdon Agri Chemicals, Inc.	2,500

\*Earlier grant not previously listed.

**GENERAL NOTES**

1. Of 17 "special grants" preproposals which we submitted to CR/SEA in January, we have been invited to submit full proposals for seven. It is anticipated that about 30 will be finally selected from 80 full proposals requested nationally. We are running well so far. The other "competitive grant" program of CR/SEA has not yet provided feedback on the 13 proposals submitted from Nebraska.
2. The search and screening committee for a Dean and Director of the Agricultural Experiment Station replacing Dr. Ottoson is being activated. The membership will be announced by Vice Chancellor Massengale soon.  
Those individuals will provide your avenues of input.
3. The summer fellowships program of the AES has attracted a substantial number of very good proposals. Six have been selected for funding for 1979: Dr. Bahar of Electrical Engineering to work with Dr. Splinter; Dr. Schwartzbach of Life Sciences to work with Dr. Chollet; Dr. Wheeler of Chemistry to work with Dr. Bullerman; Dr. Jensen of Psychology to work with Drs. Stubbendieck, Waller and Doane; Miss Fehringer of TC&D for summer research; and Dr. Felton of Economics to work with Dr. Anderson.
4. **Sahs Sez: Stations:** Now is the time to review your winter heating bills for University buildings. Would renovation, insulation or change of use reduce the heating costs for next winter?
5. An interdisciplinary "Forage Research Group" has been established by the AES to provide coordination and stimulation to this program area. Involved are Drs. Nichols, Helmers, Pfeiffer, Thompson, Von Bargaen, Rider, Stubbendieck, Waller, L. Moser, B. Anderson, Klopfenstein, J. Ward, Britton, and Hashimoto. Dr. Klopfenstein will serve as Chairman and Dr. Kleis will serve as Administrative Advisor.
6. The 1980 IANR staff conference program is in early developmental stages. Drs. B. Moser, Mayo, Swartzendruber and Kleis serve the AES on the planning committee. Ideas for the half day devoted to the AES program are welcome.
7. Who knows most, doubts most. --Browning

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - February 1979

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

5644. Impacts of Different Modes of Temperature Change on the Growing Season for Maize. R. E. Neild, M. W. Seeley and H. N. Richman. *Agricultural Meteorology*.
5645. Effects of Herbicides on Sod Transplant Rooting of "Park," "Merion," and "Baron" Kentucky Bluegrasses. R. C. Shearman and E. J. Kinbacher. *Weed Science Journal*.
5646. Residual Control of Greenbugs by Insecticides on Grain Sorghum in Nebraska. R. Staples and S. D. Kindler. *Journal of Economic Entomology*.
5647. A Library System Approach to Textile Resources. Joan Laughlin and Audrey Newton. *Housing Educators Journal*.
5648. Imbibitional Chilling Sensitivity Among Soybean Cultivars. W. J. Bramlage, A. C. Leopold and J. E. Specht. *Crop Science*.
5649. Bacteriological Quality of Runoff Water from Pastureland. J. W. Doran and D. M. Linn. *Applied and Environmental Microbiology*.
5650. Isolation of Radiation-Resistant Bacteria Without the Use of Irradiation. Scott W. Sanders and R. Burt Maxcy. *Applied and Environmental Microbiology*.
5651. Ant Population Estimation by Removal Sampling. James B. Ballard and Kenneth P. Pruess. *Journal of Kansas Entomological Society*.
5652. *Bacillus subtilis* Aminopeptidase: Specificity Toward Amino Acid- $\beta$ -Naphthylamides Mohammed A. Ajabnoor and Fred W. Wagner. *Journal of Biological Chemistry*.
5653. CO<sub>2</sub> Donation by Malate and Aspartate Reduced Photorespiration in *Panicum milioides*, a C<sub>3</sub>-C<sub>4</sub> Intermediate Species. C. K. M. Rathnam and Raymond Chollet. *Biochemical and Biophysical Research Communications*.
5654. Characterization of Biological Types of Cattle - Cycle III. II. Growth Rate and Puberty in Females. Keith E. Gregory, D. B. Laster, L. V. Cundiff, G. M. Smith and R. M. Koch. *Journal of Animal Science*.
5655. Miniature Calves. Keith E. Gregory and Stuart L. Spahr. *Journal of Heredity*.
5656. Effects of Certain Herbicides and their Combinations on Nitrate and Nitrite Reduction. Lowell A. Klepper. *Plant Physiology*.
5657. Longitudinal Changes in the Trace Mineral Content of Human Milk. L. A. Vaughan, C. W. Weber and S. R. Kemberling. *The American Journal of Clinical Nutrition*.
5658. A Comparison of Turfgrass Clippings, Oat Straw and Alfalfa as Mulching Materials. R. C. Shearman, D. H. Steinegger, E. J. Kinbacher and T. P. Riordan. *Journal of American Society for Horticultural Science*.
5659. Nutritional and Healthful Aspects of Cultured and Culture-Containing Dairy Foods. Khem M. Shahani and Ramesh C. Chandan. *Journal of Dairy Science*.

(over)

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

- 78-1143. An Automated System for the Real Time Measurement of Evapotranspiration. A. Weiss, D. L. Gross, T. C. Hsiao and L. A. Akers. 14th Conference on Agriculture and Forest Meteorology and Fourth Conference on Biometeorology.
- 79-1144. Pantothenic Acid Nutritional Status of Older Adult Humans Fed *Lactobacillus acidophilus* Through Bovine Milk. Janet Mathison, C. Kies, H. M. Fox and K. Shahani. Federation Proceedings.
- 79-1145. Nitrogen Efficiency in Grain Sorghum. J. W. Maranville, R. B. Clark and W. M. Ross. Proc. 11th Biennial Grain Sorghum Producers Research and Utilization Conference.
- 79-1146. The Nutritional Adequacy and Tolerance of Vital in Healthy Volunteers. Constance Kies and H. M. Fox. ASPEN.
- 79-1147. Pantothenic Acid Nutritional Status of Adolescent Humans as Affected by Dietary Fiber and Bran. S. Trimbo, J. Kathman, C. Kies and H. M. Fox. Federation Proceedings.
- 79-1148. Sucrose Content of Potatoes as Affected by Genotype and Environments. R. B. O'Keefe. American Potato Journal.
- 79-1149. Mineral Element Deficiency and Toxicity Symptoms of Sorghum. R. B. Clark, J. W. Maranville and P. A. Pier. Proc. 11th Grain Sorghum Util. & Research Conference.
- 79-1150. Microclimate Measurements on Differentially Irrigated Corn. B. R. Gardner, B. L. Blad, D. G. Watts and R. C. Maurer. 14th Conference on Agriculture and Forest Meteorology, April 2-4, 1979, Minneapolis.
- 79-1151. Crop Temperature - Plant Water Status Relationships of Corn and Sorghum Under Several Soil Moisture Regimes. B. L. Blad, B. R. Gardner, D. B. Watts and R. C. Maurer. 14th Conference on Agriculture and Forest Meteorology, April 2-4, 1979, Minneapolis.
- 79-1152. Management Labor Time Analysis in a School Foodservice System. Rebecca Jo McConnell (Dr. Marie Knickrehm). Research Abstracts, American Home Economics Association.
- 79-1153. Food Habit Changes of Persons of Chinese Background Living in Lincoln, Nebraska. Grace Yang (Dr. Fox).
- 79-1154. Effects of Sample Serving Temperature on Sensory Characteristics of Beef Steaks from Different Muscles and Carcass Maturities. D. G. Olson, F. Caporaso and R. W. Mandigo. Journal of Food Science.
- 79-1155. Computer-Assisted Comparison of Labor Hours: Type A versus A La Carte Meal Service in the Public School System. Claire Anne Tunkel Berg (Dr. Marie Knickrehm). Research Abstracts, American Home Economics Association.
- 79-1156. Screening Sorghum for Iron Efficiency. Y. Yusuf and R. B. Clark. Proceeding of the 11th Grain Sorghum Research and Utilization Conference.