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## Agricultural Experiment Station News February 1973

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UNIVERSITY OF NEBRASKA-LINCOLN  
COLLEGE OF AGRICULTURE  
THE AGRICULTURAL EXPERIMENT STATION

E. F. FROLIK, DEAN  
H. W. OTTOSON, DIRECTOR

# Agricultural Experiment Station



Vol. 5, No. 8, February 1973

## FROM THE DIRECTOR'S DESK

The coming crunch. Bad news came from Washington on the last day of January! I am sure that your Chairman (Superintendent) has already told you about our problem, but I shall summarize briefly.

President Nixon has recommended a reduction of 18% in the Hatch funds going to Experiment Station for the new year starting on July 1. This amounts to a reduction of about \$166,000 of formula Hatch funds, and about \$57,000 of Regional Research funds for the Nebraska Station. McIntire Stennis Forestry funds would also be reduced about \$11,000, or 25% compared to this year. This proposed cut, coupled with the present necessity to reduce the seriously excessive negative balance now carried by the Nebraska Station means that we are facing a net reduction of about \$250,000, or 5% in the Experiment Station budget on July 1, 1973, compared to the present level.

We think there is hope that Congress might restore the cuts in Hatch funds; however, they may still be impounded by the President. In any case such restoration will not be effective until next fall or winter. Alternatively, we can ask for help from State government; the possibility of such help is unknown at this time.

How will we solve this \$250,000 problem? The answer is simple, but painful; the budget will have to be reduced, and all departments and stations will have to share in the reduction. We will start, logically, by terminating vacant professional lines, under the assumption that preserving support for our present staff should take priority over recruiting replacement staff. But this won't solve the problem; we will have to reduce operating budgets, equipment, hourly labor, classified staff, and graduate assistance until the books are balanced. That means that we will have to reduce our level of activity; we have no choice. This will not allow business as usual.

We ask your understanding and patience during this trying time. In the meantime please be assured that we will be trying in every way to get the Hatch funds restored. We are not giving up!

Howard W. Ottoson

P.S. Concerning Agricultural Research Service. The President has also recommended a cut of about 8 or 9 percent in appropriations for the Agricultural Research Service. This reduction will have impacts on Nebraska Agricultural Research also, including the termination of cooperative programs at North Platte and Scottsbluff, and the transfer of three professional members out of the state. It also means the termination of a professional position at Lincoln; the net reduction of activity in Nebraska amounts to about \$135,000 per year. Beyond this, USMARC stands to lose its impounded increase of 1½ million dollars which it was allocated for the present year.

# PERSONNEL ACTIONS

Arnold, Roy G. - Asst. Dir. of Resident Instr. and Asso. Prof. of FS&T (readjustment)  
 Ball, Ellen M. - Asso. Prof. of Plant Pathology (leave of absence)  
 Burbank, John A. - Asso. Ext. Agric. and County Ext. Agent-at-large (adjustment)  
 Hartung, T. E. - Asso. Dean of the College of Ag. and Dir. of Resident Instr. (appointment)

# GRANTS AND CONTRACTS

Anderson, Frank N. - Agronomy (SB Sta.) - Growers-GW Joint Res. Comm.	\$8,250
Burnside, Orvin C. - Agronomy - BASF Wyandotte Corporation	500
Campbell, John B. - Entomology (NP Sta.) - McLaughlin Gormley King Co.	1,000
Campbell, John B. & R. G. White - Ent. & Vet. Sci. (NP Sta.) - Shell Develop. Co.	500
Daigger, Louis - Agronomy (SB Sta.) - Growers-GW Joint Research Comm.	1,000
Farlin, S., R. Britton and T. Kolpfenstein - Ani. Sci. - Neb. Livestock Fnd.	4,000
Fenster, Charles F. - Agronomy (SB Sta.) - Dow Chemical Co.	1,200
Fischbach P. E. - Agricultural Engineering - Water Resources Res. Institute	9,915
Hagen, Arthur F. - Entomology (SB Sta.) - Union Carbide Corporation	1,000
Kerr, Eric D. - Plant Path. - (SB Sta.) - Growers-GW Joint Research Comm.	2,670
Klopfenstein, T. and R. Britton - Animal Science - CPC International Inc.	6,000
Klopfenstein, T. and R. Britton - Animal Science - Distillers Feed Res.	4,000
Lucas, Leo - North Platte Station - Norden Laboratories	1,000
Lucas, Leo - North Platte Station - Miscellaneous Donors	3,250
Mayo Z. B. - Entomology - E. I. DuPont	750
Nichols, J. T. - Agronomy (NP Sta.) - Water Resources Res. Institute	9,645
Nordquist, Paul T. - Agronomy (NP Sta.) - Growers-GW Joint Research Comm.	2,000
Sullivan, Thomas S. - Poultry Science - Mercer and Company	1,000
Tolman, W. and P. Guyer - Ani. Sci. (NE Sta.) and Ani. Sci. (Neb. Livestock Fnd.)	4,000
Twiehaus, M. J. - Veterinary Science - Dellen Laboratories	897
Twiehaus, M. J. - Veterinary Science - Hess and Clark	800
White, R. G. and John Campbell - Vet. Sci. and Entomology (NP Sta.) - Chemagro	1,200
Wicks, Gail A. - Agronomy (NP Sta.) - Growers-GW Joint Research	4,800
Wicks, Gail A. - Agronomy (NP Sta.) - Dow Chemical Company	1,800

# 1973-74 STATE BUDGET PENDING

The Governor's budget recommendations include \$500,000 of the Board of Regents squeezed down \$1,200,000 request for program improvement at UN-L. Agriculturally related items fared with a total of \$245,000 in the Governor's recommendation as compared to \$280,000 requested by the Board.

UNSTA (Curtis)	\$40,000	(of \$50,000)
Livestock Development Ext. & Res. (Vet. Sci., An. Sci., Info.)	97,000	(of \$97,000)
Range Management Res. & Ext.(SB Sta.)	28,000	(of \$28,000)
Sandhills Agril. Lab.	50,000	(of \$50,000)
Turf Management	0	(of \$25,000)
Irrigation Res. (Agril. Eng.)	30,000	(of \$30,000)
	<u>\$245,000</u>	<u>(of \$280,000)</u>

These are identified appropriation request which cannot be programmed to offset the problems described by Director Ottoson.

The Governor's capital improvement recommendations include the Veterinary Science building (phase I) and \$465,000 (of 750,000) requested for UNSTA and outstante stations as two of the five items for UN-L.

R.W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - January 1973

- 3539. Protein Nutrition Value of Opaque-2 Corn for Adolescent Boys. Mary Korslund, Constance Kies and Hazel Metz Fox. Journal of Nutrition.
- 3540. Comparison of the Protein Nutritional Value of TVP, Methionine-enriched TVP and Beef for Adolescent Boys. Mary Korslund, Constance Kies and Hazel M. Fox. Journal of Food Science.
- 3541. Efficiency of Grain Dry Matter Accumulation in Grain Sorghum. J. D. Eastin. Proceedings of 1972 American Seed Trade Association Meeting.
- 3542. Genetic Studies in an Exotic Population of Corn (Zea mays L.) Grown Under Two Plant Densities. I. Estimates of Genetic Parameters. Subandi and W. A. Compton. Theoretical and Applied Genetics.
- 3543. Genetic Studies in an Exotic Population of Corn (Zea mays L.) Grown Under Two Plant Densities. II. Choice of a Density Environment for Selection. Subandi and W. A. Compton. Theoretical and Applied Genetics.
- 3544. Selection Effects in Beef Cattle. 1. Selection Intensity and Generation Interval. Robert M. Koch, Keith E. Gregory and Larry V. Cundiff. Journal of Animal Science.
- 3545. Selection Effects in Beef Cattle. II. Selection Practiced and Response. Robert M. Koch, Keith E. Gregory and Larry V. Cundiff. Journal of Animal Science.
- 3546. Mycotoxin Producing Potential of Fungi Isolated from Flour and Bread. L. B. Bullerman and T. E. Hartung. Applied Microbiology.
- 3547. A Modification of the Gardner-Eberhart (1966) Model for Evaluating Cycles of Selection. J. J. Hammond and C. O. Gardner. Crop Science.
- 3548. Fatty Acid Composition of Bulls and Steers as Influenced by Age and Dietary Energy Level. Edgar Clemens, Vincent Arthaud, Roger Mandigo and Walter Woods. Journal of Animal Science.
- 3549. How Can Clothing Be A Habitating Tool? Audrey Newton. Journal of Home Economics.
- 3550. Evapotranspiration by Subirrigated Alfalfa and Pasture in the East Central Great Plains. Blaine L. Blad and Norman J. Rosenberg. Agronomy Journal.
- 3551. Multicomponent Properties of Barley Stripe Mosaic Virus. A. O. Jackson and M. K. Brakke. Virology.

ABSTRACTS

- 73-146. Effect of Varying the Ratio of Beef and Textured Vegetable Protein Nitrogen on Protein Nutritive Value for Humans. Constance Kies and Hazel Fox. Proceedings of the Annual Meeting of the Institute of Food.
- 73-147. Niacin/Protein and Pantothenic Acid/Protein Interrelationships Influencing Nutritional Value of Dry Breakfast Cereals. Anne T. H. Chan. Journal of Home Economics.

- 73-148. Comparison of the Protein Nutritional Value of Several Vegetable Protein Products at Equal Levels of Nitrogen Intake for Adult Humans. Merlyn Kalyani Doraiswamy. Journal of Home Economics.
- 73-149. Niacin Status of Adolescent Boys Consuming Corn-based Diets Under Several Total Environmental Conditions. Olga Maria Echeverri. Journal of Home Economics.
- 73-150. Sequential Evaluation of the Effect of Methionine Supplementation of Legume-based Diets for Humans. Matin Fatma. Journal of Home Economics.
- 73-151. Protein Needs and Quality of Selected Plant Proteins in 11 to 17 Year Old Boys. Mary Korslund. Journal of Home Economics.
- 73-152. Effect of Low Nitrogen Intake on Human Serum Transferrin Levels in Healthy Adults. Peter M. Ranum. Journal of Home Economics.
- 73-153. Development and Evaluation of a Training Program for Food Service Personnel in Day Care Centers. Dalia Restrepo-Ramirez. Journal of Home Economics.
- 73-154. The Nutrition Knowledge and Attitudes of Registered Nurses. Janet Pekny Vickstrom. Journal of Home Economics.
- 73-155. Relationship of Personal History Characteristics of Dietary Employees to Job Tenure. Rebecca Ann Dowling Wertz. Journal of Home Economics.
- 73-156. Ribonucleic Acid Polymerase Activity Associated with Bacteriophage 6. J. L. Van Etten, A. K. Vidaver, R. K. Koski and J. S. Semancik. American Society of Microbiology.
- 73-157. Irrigated Pastures and Stored Feeds for Dairy Cows. Myron G. A. Rumery. Paul T. Nordquist and Bertrand R. Somerhalder. Journal of Dairy Science.

BULLETINS PRINTED

86th Annual Report of the Nebraska Agricultural Experiment Station.

- OTC 150. Performance of Soybean Varieties in Nebraska, 1972. A. F. Dreier, J. H. Williams, R. S. Moomaw, G. M. Dornhoff and P. H. Grabouski.
- OTC 151. Nebraska Spring Small Grain Variety Tests, 1972. A. F. Dreier, J. W. Schmidt, L. A. Nelson and R. S. Moomaw.