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## Agricultural Experiment Station News June 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. 12, June 1973

## FROM THE DIRECTOR'S DESK

Budgeting for fiscal year 1973-74 is over as far as our office is concerned; no doubt you would like a recap of the main features. They include the following:

- A. New Programs (Totaling \$149,501 for the Station):
  1. A research virologist and support in Veterinary Science
  2. Graduate research assistants in Animal Science
  3. A range management specialist (Research & Extension) and support at Scotts Bluff
  4. A research engineer in irrigation, and support, in Agricultural Engineering
  5. Increased support for the Sandhills Agricultural Laboratory
  6. A veterinary science technician at North Platte
- B. Salary increases averaged 4.5 percent for A- and B-line personnel; for classified the increases were established by the State Pay Plan.
- C. Concerning Hatch cuts; all budgets in the Experiment Stations were reduced by 4.0 percent from 1972-73 levels to meet the projected cut in Hatch funds for next year, as well as to provide an extra one percent of increase on A- and B-line salaries over the guideline 3.5 percent. In addition, all A-line TBAs were put in "deep freeze." We still have some hope that the Hatch funds may be restored, but we won't really know until next fall.

This is the budget story; not too bad from the standpoint of State funds; still grim from the Federal standpoint, but let's not give up yet! One encouraging note--a lot of good friends have been writing letters on our behalf to Congress. The help of several department chairmen is also sincerely appreciated.

Have a good summer!

Howard W. Ottoson

## CAPITAL IMPROVEMENTS--1973-74

Recent Legislative and Administrative actions have resulted in numerous capital improvement projects for 1973-74 which will enhance the program capabilities of the College of Agriculture. Briefly the projects and appropriations are:

Veterinary Diagnostic Laboratory (Lincoln).....	\$1,000,000
(\$400,000 in FY 1974 and \$600,000 in FY 1975)	
Animal Health Research Facility (Planning).....	250,000
Remodeling and Renovation (Both UN-L Campuses).....	100,000
UNSTA (Curtis)--several projects.....	134,000
Northeast Station feed storage and handling.....	55,000
Northeast Station miscellaneous renovations.....	5,000
South Central Station H. Q. Building (planning).....	3,000
North Platte Station Vet. Diag. Lab Addition.....	100,000
North Platte Station miscellaneous renovations.....	5,000
North Platte Station plant material facility (planning).....	1,000

Sandhills Agricultural Laboratory purchase.....	180,000
Scotts Bluff Station plant materials and environmental control facility...	200,000
Scotts Bluff Station machinery service and research building.....	100,000
Scotts Bluff Station irrigation development.....	100,000
Scotts Bluff Station, silos, boiler, and residence renovation.....	80,000
Scotts Bluff Station miscellaneous renovations.....	5,000

#### GRANTS AND CONTRACTS

Burnside, Orvin C. - Agronomy - Chemagro	500
Burnside, Orvin C. - Agronomy - E. I. Du Pont De Nemours Incorporated	500
Burnside, Orvin C. - Agronomy - Hercules Incorporated	500
Campbell, John B. - Entomology (NP Sta.) - Chevron Chemical Co.	1,000
Clegg, M. D. - Agronomy - Pioneer Hi-Bred Company	2,000
Fenster, C. R. - Agronomy (SB Sta.) - U. S. Borax Research	500
Hagen, Arthur F. - Entomology (SB Sta.) - FMC Corporation	500
Hagen, Arthur F. - Entomology (SB Sta.) - Union Carbide Corporation	750
Hagen, Arthur F. - Entomology (SB Sta.) - E. I. Du Pont De Nemours & Co.	500
Hanway, D. G. and Dickason E. A. - Agronomy & Entomology - NSF	14,785
Kies, Constance and Hazel Fox - Food and Nutrition - Fairmont Foods Co.	2,140
Kindler, Dean - Entomology - E. I. Du Pont De Nemours & Company	500
Lucas, Leo - North Platte Station - Miscellaneous Donors	2,650
Mayo, Z. B. and H. J. Bali - Entomology - FMC Corporation	1,000
Mayo, Z. B. - Entomology - Dow Chemical Company	1,000
Mayo, Z. B. - Entomology - Nor-Am Agricultural Products, Inc.	600
Rosenberg, Norman - Horticulture and Forestry - National Sci. Foundation	14,500
Shahani, Khem, M. - Food Science and Technology - Dannon Milk Products	4,200
Sullivan, Thomas S. - Poultry Science - Commercial Solvents Corporation	4,000
Wicks, Gail - North Platte Station - Hercules Inc.	500

#### GENERAL NOTES

1. The Animal Science Department and the Meat Animal Research Center are joint hosts for the 65th Annual Meeting of the American Society of Animal Science in Lincoln and Clay Center July 28 to August 1. Governor Exon has declared the week as "Animal Agriculture Week." In addition to recognizing the importance of animal enterprises in Nebraska's economy, these activities focus attention on the 75th Anniversary of the University's Animal Science Department.
2. Dr. Sahs urges vigilance in weed control. Project leaders should inspect acreages for musk thistle, hemp, field bindweed, etc. Hand removal of the musk thistle is in order as the time for herbicide spraying of this species is past.
3. The committee for planning and conducting the next biennial Station and Extension Workers Conference has been established and will be active soon: Kleis, Chairman; Raun, Vicechairman; Sullivan and Krohn Cochairmen of Program Subcommittee; Sutton Sahs, Stewart, Koopman, Graham, Florell, Hanway, Fischer, Clanton, Paul, Schnieder, Skinker, Frank and Miller (Don). This conference is tentatively scheduled for early January 1975. Please provide any suggestions you have to any of the committee members.
4. Field days scheduled for this summer:

High Plains Agricultural Laboratory.....	June 22
Northwest Agricultural Laboratory.....	June 28
Tractor Power and Safety Day (Field Lab).....	June 26
Sandhills Agricultural Laboratory.....	August 7

Scotts Bluff Station.....August 9  
 South Central Station.....August 28  
 Field Laboratory (Crops and Soils).....September 17  
 North Platte Station (Crops and Irrigation).....September 18

5. If you pick up a starving dog and make him prosperous, he will not bite you. This is the principal difference between a dog and a man--Mark Twain.

R. W. Kleis

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Journal Articles (contact authors for more information)

3619. Isolation and Purification of Turkey Hemeproteins. D. G. Cornish and G. W. Froning. Journal of Poultry Science.
3620. Effect of Cooper Binding on the Autoxidation of Oxymyoglobins. M. Bembers, N. Y. Zachariah, L. D. Satterlee and R. M. Hill. Journal of Food Science.
3621. Life History and Predatory Habits of Philonthus theveneti against Stable Flies, House Flies and Face Flies under Laboratory Conditions. J. B. Campbell and John F. Hermanussen. Environmental Entomology.
3622. Sulfur and Manganese Release from Soils Fertilized with Prilled Sulfur and Sulfur - Bentonite. D. L. Lindell and R. C. Sorensen. Soil Science Proceedings.
3623. Comparative Effects of Nitrogen and Sulfur Fertilization and Liming on Three Crops Grown on Four Soils. D. W. Kemper and R. C. Sorensen. Agronomy Journal.
3624. Improve Instruction Via Multi-Mediated Mechanics Material. Richard L. Douglass, James T. Horner, Richard A. Bringelson, R. L. Peterson, S. A. Weeks and U. E. Wendorff. Journal of Educational Research.
3625. Effect of Temperature and Moisture Conditions on Breaking Strength of the Egg Shell. G. W. Froning. Journal of Poultry Science.
3626. Studies on Possible Routes of Ammonium Assimilation in Soybean Root Nodules Bacteroids. Stanley D. Dunn and Robert V. Klucas. Canadian Journal of Microbiology.
3627. Self-Imposed Standards: Cleaning the Living Room. Florence S. Walker. Home Economics Research Journal.
3628. Genetic Advances in Wheat Protein Quantity and Composition. V. A. Johnson, P. J. Mattern and J. W. Schmidt. Proceedings of 4th International Wheat Genetics Symposium.
3629. A Simple, Low-Cost, Electronic Integrator and Readout. Hollis Shull. Agricultural Engineering Journal, instrument news section.
3630. Inheritance of Genes Controlling Male Fertility Restoration in the Wheat Cultivar Primepi. J. F. Miller, J. W. Schmidt and V. A. Johnson. Crop Science.
3631. Additional Evidence for Possible Autolytic Activity During Glutaraldehyde Fixation of Maize Dwarf Mosaic Virus Infected Corn. Willem G. Langenberg and Helen F. Schroeder. Phytopathology.
3632. An Effective Educational Approach for Working With Adult Farmers. D. C. Spitze, D. W. Rehm and R. S. Moomaw. Journal of Agronomic Education.

3633. Comparative Protein Value of Three Lines of Winter Wheat by Adult Human, Growing Human, and Mouse Bioassay Procedures. C. Kies, H. M. Fox, P. J. Mattern, V. A. Johnson and J. W. Schmidt. Cereal Chemistry.
3634. Fashion Perception Among Selected College Women. Gail Skinner and Patricia Sailor. Home Economics Research Journal.
3635. Comparative Protein Value of Several Vegetable Protein Products Fed at Equal Nitrogen Levels to Human Adults. Merlyn K. Doraiswamy, C. Kies and H. M. Fox. Journal of Food Science.
3636. Acceptability of Reconstituted Nonfat Dry Milk by Preschool Children. Alice Oggel and Constance Kies. Journal for Nutrition Education.
3637. Performance of Hydraulic Lysimeters as Compared with Weighing Lys. Hollis Shull and Gary Daigger. Transactions of the ASAE.
3638. Use of  $\gamma$ -Irradiation to Prevent Aflatoxin Production in Bread. L. B. Bullerman, H. M. Barhart and T. E. Hartung. Journal of Food Science.
3639. Design and Operation of a Feedlot Runoff Disposal System--A Case Study. J. A. Nienaber, C. B. Gilbertson, J. R. Ellis, T. M. McCalla and F. M. Kestner. ASAE Transactions.
3640. Cell Walls of Germinating Uredospores. II. Carbohydrate Polymers. Paul Trocha and J. M. Daly. Journal of Plant Physiology.

Journal Abstracts (contact authors for more information)

- 73-214. Effect of Effluent from Beef Feedlots on Physical Properties of Soil. D. G. Hinrichs, A. P. Mazurak, N. P. Swanson and L. N. Mielke. Proceedings of American Society of Agronomy Meeting.
- 73-215. Development of Synthetic Varieties of Perennial Grasses from Germplasm of Known Geographic Origins. L. C. Newell. Proceedings: Twenty-second Western Grass Breeders Work Planning Conference.
- 73-216. Fatty Acid Patterns of Teen-Age Boys Receiving Free and Controlled Diets. Constance Kies. L. Lin and Hazel M. Fox. Journal of Nutrition.
- 73-217. Methods to Increase Efficiency of Crop Water Use in Western Agriculture. Norman J. Rosenberg. For presentation to the American Society for Horticultural Science--Western Region June 18-20, 1973, Ft. Collins, Colo.
- 73-218. Ruminal Histamine, Lactate and Animal Performance. Walter C. Koers, W. R. Woods, T. J. Klopfenstein and R. Britton. Journal of Animal Science.
- 73-219. Intake as Related to Ruminal Histamine and Lactate. Walter C. Koers, W. R. Woods, T. J. Klopfenstein and R. Britton. Journal of Animal Science.
- 73-220. Triticale and Human Nutrition. C. Kies. Cereal Science Today.
- 73-221. Feed Additives for Swine Jowl Abscess Prevention. R. G. White and Murray Danielson. Journal of Animal Science.
- 73-222. Evaluation of Calf Scour Vaccines Under Range Conditions. R. G. White and C. A. Mebus. Journal of Animal Science.
- 73-223. Chemical and Physical Characteristics of Soil Profiles under Abandoned Feedlots. L. N. Mielke and J. R. Ellis. ASA Meeting, November 1973.