University of Nebraska - Lincoln
DigitalCommons@University of Nebraska - Lincoln

Agricultural Research Division News & Annual Reports

Agricultural Research Division of IANR

6-1-1979

Agricultural Experiment Station News June 1979

Follow this and additional works at: http://digitalcommons.unl.edu/ardnews

Part of the Agriculture Commons

"Agricultural Experiment Station News June 1979" (1979). *Agricultural Research Division News & Annual Reports.* Paper 260.
http://digitalcommons.unl.edu/ardnews/260

This Article is brought to you for free and open access by the Agricultural Research Division of IANR at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Agricultural Research Division News & Annual Reports by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

THE AGRICULTURAL EXPERIMENT STATION
INSTITUTE OF AGRICULTURE
AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA-LINCOLN
H. W. OTTOSON, DIRECTOR

Agricultural Experiment Station NEWS

Vol. 12, No. 12, June 1979

FROM THE DIRECTOR'S DESK

Budget Update

The state budget story for 1979-80 is fairly simple as far as the Station is concerned. Of course you are already aware of the average increase in salaries of 7 percent. There will be no increase in operating funds; in real terms this is actually a decrease of 10 percent or more owing to inflation. Coming on top of no increase for 1978-79, the Station will have in effect experienced a decrease of 20 percent in real terms in the operating funds during these two years. How can we adjust to this decrease? We can "tighten our belts" to a certain extent, but this is self-defeating. Increased reliance on grant and contract funds is another alternative. The long-run solution, unless we were to get future offsetting increases will be to reduce the number of positions as vacancies occur, and use the freed resources for operating purposes.

A bright spot in the budget picture is the $270,000 workload increase received by the College, involving eight additional teaching FTEs. Some new teaching staff will be hired; the teaching appointments of other jointly appointed staff will be increased. In both cases the Station will benefit through reduction in teaching obligations of Station staff, and the use of freed resources for research.

The Federal picture looks better for 1979-80, but has not firmed up yet. We will report to you later on that.

Howard W. Ottoson

GRANTS AND CONTRACTS

Anderson, Frank - Agronomy (PH Sta) - Chevron Chemical Co.	$ 1,325
Burnside, Orvin - Agronomy - Ciba-Geigy Corporation	1,000
Burnside, Orvin - Agronomy - Dow Chemical Co.	2,000
Burnside, Orvin - Agronomy - Miscellaneous Donors	1,250
Daigger, Louis A. - Agronomy (PH Sta) - Lockwood Corporation	10,000
Fenster, C. R. - Agronomy (PH Sta) - Shell Chemical Co.	2,000
Fenster, C. R. - Agronomy (Ph Sta) - Miscellaneous Donors	500
Flowerday, A. D. - Agronomy - Ak-Sar-Ben	3,800
Fox, H. M. and Kies, C. V. - Human Nut. and Food Serv. Mgt. - Syntex, Inc.	2,000
Haderlie, Lloyd - Agronomy - Velsical Chemical Corp.	2,500
Haderlie, Lloyd - Agronomy - Miscellaneous Donors	750
Hergert, Gary - Agronomy (NP Sta) - Miscellaneous Donors	1,200
Mayo, Z. B. - Entomology - Mobil Chemical Co.	1,000
Moomaw, Russell - Agronomy (NE Sta) - Miscellaneous Donors	2,450
Moser, Bobby - Animal Science - Fats and Proteins Res. Foundation, Inc.	12,000
Nicholas, James T. - Agronomy (NP Sta) - Allied Chemical product grant	2,600
Omtvedt, Irvin T. - Animal Science - Nebr. Beef Industry Foundation	1,000

Partridge, James E. - Plant Path - Merck & Co., Inc.	1,200
Peters, Leroy - Entomology (SC Sta) - Mobil Chemical Co.	1,000
Roeth, Fred - Agronomy (SC Sta) - Miscellaneous Donors	1,750
Shearman, Robert - Horticulture - Nebraska Turfgrass Foundation	2,000
Steadman, James - Plant Path - Miscellaneous Donors	1,000
Watkins, John - Plant Path - Miscellaneous Donors	950
Wilson, Jr., Robert - Agronomy (PH Sta) - Rocky Mountain Bean Dealers Assn	1,000
Wilson, Jr., Robert - Agronomy (PH Sta) - Schell Chemical Co.	1,000
Wilson, Jr., Robert - Agronomy (PH Sta) - Miscellaneous Donors	1,750
Witkowski, John - Entomology (NE Sta) - Dow Chemical Co.	1,000
Wysong, David - Plant Path - Merck & Co.	1,000
Wysong, David - Plant Path - Miscellaneous Donors	700

PERSONNEL ACTIONS

Tenure Granted

Boellstroff, John (Con-Surv)
Burchett, Raymond (Con-Surv)
DeGraw, Harold (Con-Surv)
Fussell, Jerome (Con-Surv)
Goeke, James (Con-Surv)
Hergert, Gary (Agronomy)
Johnson, Bruce (Ag Econ)
Pabian, Roger (Con-Surv)
Rottmann, Leon (HD&F)
Smith, Frank (Con-Surv)
Supalla, Raymond (Ag Econ)
Souders, Vernon (Con-Surv)
Stohler, Roy (4-H)
Svec, LeRoy (Agronomy)
Swinehart, James (Con-Surv)

GENERAL NOTES

1. There are four newly elected members of the Experiment Station Advisory Committee who join five continuing members. They and their terms are:

New	Continuing
Dr. LeRoy Peters (1 year)	Dr. David Lewis (1 year)
Dr. Gerald Bodman (3 years)	Dr. Robert Mumm (1 year)
Dr. Eric Kerr (3 years)	Dr. Donald Ferguson (2 years)
Dr. John Ward (3 years)	Dr. Lowell Satterlee (2 years)
	Dr. Raymond Supalla (2 years)

2. Assistant Secretary Cutler spoke at the recent dedication of the Roman Hruska U.S. Meat Animal Research Center. He announced the planning for a national workshop to analyze problems and develop research priorities for "Animal Agriculture" similar to a crops workshop of three years ago. He further indicated that this could lead to a competitive grants program focusing on priority issues similar to the "highly successful" one for crops. We heard this with mixed feelings. Certainly development of research priorities is desirable. But whether the competitive grants approach is an efficient process for addressing them is doubtful, particularly at the cost of further erosion of formula support to the national agricultural research system recognized throughout the world for its effectiveness.

3. Diane Mohrhoff has replaced Barb Collins in the AES office and will be working with project document processing as well as serving as Dr. Sahs' secretary.

4. We along with others have been working to cause the serious 1980 federal budget shifts and reductions in agriculture proposed by the Executive branch to be restored in Congress. There have been some encouraging actions by the House Committee and we are cautiously optimistic at this stage.

5. "What you <u>are</u> stands over you the while, and thunders so that I cannot hear what you <u>say</u> to the contrary." --Ralph Waldo Emerson

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - May 1979

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

5689. Testing Soybeans for Heat and Drought Tolerance. J. E. Specht and J. H. Williams. Proceedings of the Eighth Soybean Seed Conference.

5690. Management of Solar Cell Power for Irrigation. Neil W. Sullivan, R. F. Hopkinson and P. E. Fischbach. American Society of Agricultural Engineers.

5691. Plasmids, Biological Properties, and Efficacy of Nitrogen Fixation in *Rhizobium japonicum* Strains Indigenous to Alkaline Soils. Dennis C. Gross and Anne K. Vidaver. Journal of General Microbiology.

5692. A Statistical Investigation of the Effect of Luck and Misinformation on the Discrepancy Between Multiple Choice Test Scores and True Ability. Stephen R. Lowry. Journal of Educational Statistics.

5693. Raw Scores and Corrected for Guessing Scores as Estimators of True Ability. Stephen R. Lowry. Journal of Experimental Education.

5694. Independent Living Techniques and Concepts: Perceptions by Professionals in Rehabilitation. Kathy M. Walton, Lois O. Schwab, Mary Ann Cassatt-Dunn and Virginia K. Wright. Journal of Rehabilitation.

5695. Sting Nematode, *Belonolaimus nortoni*, in Nebraska. Eric D. Kerr and David S. Wysong. Plant Disease Reporter.

5696. Effects of Mineral Elements on Hydrocyanic Acid Potential in Sorghum. R. B. Clark, H. J. Gorz and F. A. Haskins. Crop Science.

5697. Degradation and Distribution of Atrazine and Metabolites in Relation to Movement in Soil. T. H. Dao, T. L. Lavy and R. C. Sorensen. Soil Science Society of America Journal.

5698. Plant Breeding Progress, Politics and Society. Dermot P. Coyne. Journal of the International Association of Torch Clubs, Inc.

5699. Soybean *Glycine max* Growth as Affected by Weed Removal, Cultivar, and Row Spacing. O. C. Burnside. Weed Science.

5700. Registration of Lancota Wheat. J. W. Schmidt, V. A. Johnson, P. J. Mattern, A. F. Dreier and D. V. McVey. Crop Science.

5701. Registration of Agate Wheat. J. W. Schmidt, V. A. Johnson, P. J. Mattern, A. F. Dreier and D. V. McVey. Crop Science.

5702. Texture and Comfort Dimensions of Fabrics Perceived Tactually and Visually. Joan Laughlin. Home Economics Research Journal.

5703. Role of the Plant in Mineral Nutrition as Related to Plant Breeding and Genetics. R. B. Clark and J. C. Brown. Proc. of the ASA Symposium: Moving Up the Yield Curve-advances and Obstacles.

5704. Electronic Moisture Sensor for Maintaining Herbicide Solution on a Roller Applicator. J. S. Schepers and O. C. Burnside. Weed Science.

(over)

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

79-1182. Evaluation of Testing Methods and Genetic Variation of Seed Coat Cracking in Great Northern Dry Beans (*Phaseolus vulgaris* L.) Crosses. Faisal A. Al-Mukhtar and Dermot P. Coyne. Hort. Science - Annual Meeting, American Society of Horticultural Science.

79-1183. A Genetic Analysis of the Seed Setting Capabilities of Sorghum F_1 Male Steriles. Gene H. Hookstra. Proc. 11th Biennial Grain Sorghum Producers Assoc. Research and Utilization Conference.

79-1184. Evidence of Household Production in Nebraska. Dr. Florence S. Walker. American Home Economics Association Workshop, June 21-23, 1979, Ludenwood College, St. Charles, Mo.

79-1185. Homocytotropic Antibodies in the Sera of Swine Immunized with *Ascaris suum*. Rose A. McCullough and Marvin B. Rhodes. Journal of Parasitology.

79-1186. Plasma Concentrations of Thyroxine and Triiodothyronine in Laying Hens in Relation to Time of Day and Ovulation. Y. Arima and F. B. Mather. Annual Meeting of Poultry Science Association.

79-1187. Effect of Added Fat Level in Corn and Milo Diets on Performance of Market Turkeys. T. W. Sullivan. Poultry Science.

79-1188. Influence of Dietary NaCl, Na^+ and Cl^- Levels on Performance of Layers. T. W. Sullivan and P. C. Njoku. Poultry Science.

79-1189. Blood Serum Lipids of Adolescent Humans as Affected by Dietary Fiber. Constance Kies. American Journal of Clinical Nutrition.

79-1190. Lipid Utilization and Metabolism of Human Adults as Affected by Dietary Bran Supplementation. Sharon K. Balters, C. Kies and H. M. Fox. American Dietetic Assn.

79-1191. Ascorbic Acid - Iron Nutritional Status Relationships of Adolescent Boys and Girls. Danette M. Bylund and C. Kies. American Dietetic Association.

79-1192. Wheat, Corn, Rice Bran Supplementation of Diets as Factors in the Zinc and Copper Nutritional Status of Humans. Bernadette F. Lo, C. Kies and H. M. Fox. American Dietetic Association.

79-1193. Tricalcium Phosphate and Limestone as Buffers in Finishing Rations for Steers. V. E. Krause and R. A. Britton. Journal of Animal Science.

79-1194. Some Processing Characteristics of Selected Beef By-products. P. I. Ibarra, K. W. Jones, R. W. Mandigo and D. G. Olson. Journal of Animal Science.

79-1195. The Effects of Incorporating Beef By-products on the Sensory Traits, Cooking and Textural Properties of Restructured Beef Steaks. P. I. Ibarra, R. W. Mandigo and D. G. Olson. Journal of Animal Science.

BULLETINS PRINTED

RB 286. A Forecasting-Programming Method for Placement-Sales Decisions for a Beef Feedlot. Franz Schwarz and J. B. Hassler.