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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

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Vol. 8, No. 11, May 1976

FROM THE DIRECTOR'S DESK

Fiscal year 1977 will be a good one for the Experiment Station as far as the budget is concerned. Areas of improvement in which the Station was involved, and the funds provided, included the following:

- 1) Areas of Excellence
 - a) Crop physiology. Includes two research positions (nitrogen metabolism and sorghum physiology), two graduate assistants, a technician, a part-time secretary, equipment, and other support. \$160,515
 - b) Animal Science (Swine). Includes postdoctoral fellow, Instron food testor, and miscellaneous support 56,740
- 2) Replacement equipment. A specified list of equipment will be replaced in twelve departments and district stations. 143,662
- 3) Support to existing programs. About 15 FTE's of support personnel, as well as supplies, operating budgets and travel are provided to 14 departments and district stations. . . . 200,347
- 4) Ag Net is a program which affects extension, research, and teaching. The total appropriation for Ag Net is \$70,184.
- 5) Veterinary Science. The appropriations bill provides salary and support for four new staff members in the new diagnostic laboratory (microbiologist, pathologist, virologist, and toxicologist) and one new research microbiologist. 322,294

All told the improvement increases, excluding Ag Net as well as salary and operating increases for inflation, represent an increase of about 15 percent in State funds for the Station.

In addition, of course, were the seven percent increase in average salaries, \$200,000, special salary improvement for the IANR A-line staff, and six percent increase in operating budgets. These increases represent a real vote of confidence in us and our programs. They also represent a challenge to us to demonstrate that this confidence is well-founded.

Howard W. Ottoson

The Field Laboratory is launching into a new season with facilities and land fully programmed. Approximately 125 head-high coniferous trees, excess to a tree seed orchard project, were moved to aesthetically chosen sites on the Lab. The new Field Laboratory Feed Mill is working very well with a minimum of problems. Depopulation of the swine herds is underway at Mead with a significant increase of swine research activities at Lincoln until SPF stock repopulate the Mead site. Animal Scientists and the Physical Plant are busily engaged in planning a new swine complex at Mead financed by Lincoln area land sale funds. This complex will permit vacating the Havelock site by July, 1978.

Two additional center pivot irrigation systems have been installed. The area received 3.60 inches of precipitation in April. After a very dry fall and winter we have approximately 40 inches of subsoil moisture.

Warren W. Sahs

PERSONNEL ACTIONS

Diedrichsen, Ethel - Associate Professor of Food & Nutrition - Emeritus (retirement)
 Supalla, Raymond J. - Associate Professor of Agricultural Economics (appointment)

GRANTS AND CONTRACTS

Blad, B. L. - Ag. Engineering - Purdue EMBRAPA	\$1,900
Burnside, O. C. - Agronomy - BASF Wyandotte Corp.	750
Burnside, O. C. - Agronomy - CIBA-Geigy	1,000
Burnside, O. C. - Agronomy - Mobil Chemical Co.	750
Burnside, O. C. - Agronomy - Chevron	1,000
Burnside, O. C. - Agronomy - E. I. DuPont Co.	500
Compton, W. A. - Agronomy - Miscellaneous Donors	560
Compton, W. A. - Agronomy - Hoegemeyer Hybrids	500
Fenster, C. R. - Agronomy (PH Sta.) - American Hoechst Corp.	750
Fenster, C. R. - Agronomy (PH Sta.) - Monsanto Co.	500
Klopfenstein, T. J. & J. K. Ward - Animal Science - Commercial Solvents Corp.	6,000
Larson, L. L. - Animal Science - Norden Labs	700
Martin, A. R. - Agronomy - Monsanto Co.	500
Mayo, Z. B. - Entomology - Mobil Chemical Co.	2,000
Moline, W. J. - Agronomy - Chevron Chemical Co.	500
Moomaw, R. S. - Agronomy (NE Sta.) - Monsanto Co.	500
Moomaw, R. S. - Agronomy (NE Sta.) - BASF Wyandott Corp.	500
Nichols, J. T. - Agronomy (NP Sta.) - Allied Chemical Division (equipment)	3,070
Shearman, R. C. - Horticulture - Nebraska Turfgrass Council	1,200
Underdahl, N. R. - Veterinary Science - E. R. Squibb & Son	3,600
Wicks, G. A. - Agronomy (NP Sta.) - Monsanto Co.	750
Wicks, G. A. - Agronomy (NP Sta.) - Chevron Chemical Co.	1,000
Wicks, G. A. - Agronomy (NP Sta.) - Shell Chemical Co.	500
Wiese, R. A. & G. W. Rehm - Agronomy - National Fertilizer Solutions Assn.	2,000
Wilson, R. G. - Agronomy (PH Sta.) - E. M. Laboratories, Inc.	500

GENERAL NOTES

1. Please be reminded that purchases from current year funds must be delivered by June 30. Deliveries after June 30 will be charged to FY 1977.
2. Dr. Jack Adams was in Lincoln over last weekend enroute from his temporary home base in Columbia, Missouri, to meetings in Brookings. He is making good progress in his recovery and is enjoying his assignment there.
3. The University is in the process of closing sales on several parcels of AES land south and west of the swine research facilities south of Adams street. These receipts will go toward development of swine research facilities at the Field Laboratory.
4. Increased use of the parking compound west of Stewart Seed Lab for special vehicles can provide equipment security and release parking spaces on campus.
5. Most of you have had your defensive driving course but if not, you must get it scheduled before the end of June. It is required for driving state cars or personal cars for reimbursement after July 1.
6. Schnieder on safety - Backward overturns have accounted for three of the four Nebraska tractor deaths to date in 1976. Hitch to the drawbar, not to the three-point hitch. Make sure the counterbalance rear loads with the front end weights.
7. The road to success is almost always under construction and lined with signs saying "men working".

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - April 1976

Journal Articles (contact authors for more information)

5075. Combining the Computer and Flanders' Interaction Analysis to Better Prepare Teachers. R. L. Douglass, J. T. Horner and T. L. Hoover. Industrial Teacher Education.
5076. "Climate and Food Production" for Inclusion in The Atmospheric Sciences: Scientific Problems and Applications. Norman J. Rosenberg. A publication of the Committee on Atmospheric Sciences National Academy of Sciences/National Research Council.
5077. Ultrastructural and Ultracytochemical Cyclic Changes in the Bovine Uterine Tube (oviductal) Epithelium. R. K. Nayak and E. F. Ellington. American Journal of Veterinary Research.
5078. Nutrition Education in the Little Rock School Lunch Program. Sandra F. Blakeway and Marie E. Knickrehm. Journal of Nutrition Education.
5079. Herbicides for No-Tillage Corn in Alfalfa Sod. R. S. Moomaw and A. R. Martin. Weed Science.
5080. Light Sensitive Zinc Content of Protein Fractions from Bovine Rod Outer Segments. S. William Tam, Kenneth E. Wilber and Fred W. Wagner. Biochem. Biophys. Res. Comm.
5081. Scanning Electron, Light and Fluorescent Microscopy of Intestine of Gnotobiotic Calf Infected with Reovirus-Like Agent. Charles A. Mebus and L. E. Newman. American Journal of Veterinary Research.
5082. Influence of Various Row Widths on Yield and Agronomic Characteristics of Proso Millet (Panicum miliaceum L). Lenis A. Nelson. Crop Science.
5083. Diarrhea in Gnotobiotic Calves Caused by the Reovirus-Like Agent of Human Infantile Gastroenteritis. C. A. Mebus, R. G. Wyatt, R. L. Sharpee, M. M. Sereno, A. R. Kalica, A. Z. Kapikian and M. J. Twiehaus. Infection and Immunity.
5084. Emergency Post-Planting Applications of Insecticides to Control Larvae of the Western and Northern Corn Rootworm in Nebraska. Z. B. Mayo. Journal of Economic Entomology.
5085. The Effect of Total Solids Content, Pipe Diameter and Flow Velocity on Beef Manure Slurry on Head Loss in PVC Pipe. Marlin Rolfes, Conrad Gilbertson and Jack Nienaber. Transactions of the ASAE.
5086. Natural Antibiotic Activity of Lactobacillus acidophilus and bulgaricus. II. Isolation of Acidophilin from L. acidophilus. K. M. Shahani, J. R. Vakil and A. Kilara. Cultured Dairy Products Journal.
5087. Natural Antibiotic Activity of Lactobacillus acidophilus and bulgaricus. I. Cultural Conditions for the Production of Antibiosis. K. M. Shahani, J. R. Vakil and A. Kilara. Cultured Dairy Products Journal.
5088. Growing Degree Day Predictions for Corn and Sorghum Development and Some Applications to Crop Production. R. E. Neild. Agronomy Journal.

Journal Abstracts (contact authors for more information)

- 76-550. Mechanical Tenderization of Beef Inside Rounds as Affected by Ration and Biological Type. J. F. Campbell, K. L. Neer, R. W. Mandigo, F. Caporaso and G. M. Smith. Proceeding of the Reciprocal Meat Conference.
- 76-551. Development of Fertilized Sheep Ova in Culture. R. K. Christenson and D. D. Lunstra. Society for the Study of Reproduction.
- 76-552. Toxinogenic Potential of Molds Isolated from Moldy Cheese Trimmings. L. B. Bullerman. Sixty-Third Annual Meeting of International Association of Milk, Food & Environmental Sanitarians, Inc.--Chicago.
- 76-553. Alfalfa Weevil: Migration of Summer Adults. G. R. Manglitz, L. E. Klostermeyer, T. L. Lavy and W. R. Kehr. North Central Branch - ESA, Meeting, Denver, Colorado, March 1976.
- 76-554. Sampling for Summer Alfalfa Weevils: Pyrethrin Drench vs. Soil Sampling. L. E. Klostermeyer and G. R. Manglitz. North Central Branch - ESA, Meeting, Denver, Colorado, April 1976.
- 76-555. Utilization of Grain Sorghum Residues. L. J. Perry, Jr., D. Smith, J. Schmitz and J. K. Ward. Journal of Animal Science.
- 76-556. Allelopathic Influence of Common Milkweed and Hemp Dogbane on Grain Sorghum. J. B. Wyrill, III and O. C. Burnside. 1976 North Central Weed Control Conference.
- 76-557. Influence of Additives on Toxicity of Glyphosate to Common Milkweed. J. B. Wyrill, III and O. C. Burnside. 1976 North Central Weed Control Conference.
- 76-558. The Economics of Stable Flies on Feedlot Cattle. J. B. Campbell, J. E. Wright and R. G. White. Proceedings, North Central Branch Entomological Society of America.
- 76-559. Beef Cow Performance on Grain Sorghum Stubble. J. Schmitz, J. K. Ward, D. Smith and L. J. Perry. American Society of Animal Science.
- 76-560. Value of Treated Corn Cobs When Fed With Corn Silages in a Complete Ration. I. G. Soper, F. G. Owen and M. K. Nielsen. American Dairy Science Association.
- 76-561. Estrous Cycle Control with Progestogen - Prostaglandin Treatment. Gary D. Stauffer, Earl F. Ellington and Merlyn K. Nielsen. Journal of Animal Science.
- 76-562. Dimensions of Fabric Texture and Comfort as Perceived Through the Visual and Tactile Senses by a Select Group of Women 65 Years of Age and Over. Dr. Joan Laughlin and Sandra L. Wiley. M.S. Thesis.

BULLETINS PRINTED

- SB 528. Growing Muskmelon and Watermelon. R. E. Neild.