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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. 3, October, 1978

FROM THE DIRECTOR'S DESK

Federal budget: At long last Congress has acted on the federal portion of the Station budget for the fiscal year starting October 1. The big news: the Hatch funds were restored to the FY 1978 levels. It is ironic to rejoice over the status quo, but there were several threats, including the administration's original recommendation, that we would suffer a cut for FY 1979. Other highlights of the new budget: (a) the new competitive grant program was continued at the same level with \$9.7 million being earmarked for research on crop production, and \$4.9 million for nutrition research; (b) the special grant program (PL 89-106) includes titles as follows: food and agriculture policy; soybean research; pest management research; transportation, marketing, and storage research; genetic vulnerability; pesticide clearance; dried bean research; pesticide impact assessment; and animal health research.

Official channels for grants and contracts: Please be reminded that for Experiment Station faculty the official channel for transmission of all grant and contract documents, including budget and data sheets, is through the department head or district director to the Experiment Station office. We "sign off" on them, and forward them as appropriate. We keep a file of all research grants and contracts received by Station faculty.

Photos for new staff: As you know, from time to time we run pictures of new staff members in our newsletter. We get the pictures from Agricultural Communications. It would be helpful, shortly after they arrive, if new staff members would make an appointment with Photographic Productions to have their pictures taken. They should tell Photographic Productions that the picture is for the Agricultural Communications bio file. This service is free, and the pictures will automatically be sent to Agricultural Communications.

Howard W. Ottoson

PERSONNEL ACTIONS

Bauer, Dennis E. - Asst. B-K-R Extension Agent Chairman (NP Sta) - New Appointment
Huso, Scott K. - Inst. (Research Soil Scientist) - Cons. & Surv. Div. - New Appointment
Schmerdtmann, Nancy H. - Home Economics - Extension Administrator - New Appointment
Timm, Robert M. - Pest Mgmt. Specialist - Asst. Prof. - For. Fish. & W.L. - New Appt.
Tisdale, Shirley M. - Area Ext. Agent (PH Sta) - Resignation (to University of Guam)

GRANTS AND CONTRACTS

Arnold, R.G. - Food Sci & Tech - Nebr. Soybean Dev., Util. & Mktg. Bd.	\$ 6,000
Campbell, J.B. - Entomology (NP Sta) - USDA/SEA-AR	1,000
Coyne, D.P. & J.L. Weihing - Hort. & PH Sta. - Anna H. Elliott Fund	6,000
DeShazer, J.A. - Ag. Engineering - Alcoa Foundation	5,000
Flowerday, A.D. - Agronomy - Nebr. Soybean Dev., Util. & Mktg. Bd.	8,300
Hanna, M. - Ag. Eng./Food Sci & Tech - Nebr Soybean Dev., Util. & Mktg. Bd.	5,000
Klucas, R.V. - Ag. Biochemistry - Nebr. Soybean Dev., Util. & Mktg. Bd.	7,800
Klucas, R.V. - Ag. Biochemistry - USDA/SEA-CR	67,600
Martin, A.R. - Agronomy - Stauffer Chemical Company	500
Mattern, P.J. - Agronomy - Nebr Soybean Dev., Util. & Mktg. Bd.	1,000
Moomaw, R.S. - Agronomy (NE Sta) - Miscellaneous Donors	1,100
Peters, L.L. - Entomology (SC Sta) - American Cyanamid Company	500
Roeth, F.W. - Agronomy (SC Sta) - American Cyanamid Company	750
Rush, I.B. - Animal Science (PH Sta) - Dow Chemical Company	6,000
Schuster, M.L. - Horticulture - Green Giant Foundation	1,500
Specht, J.E. - Agronomy - Nebr. Soybean Dev., Util. & Mktg. Bd.	2,450
Specht, J.E. - Agronomy - Nebr. Soybean Dev., Util. & Mktg. Bd.	7,000
Steadman, J.R. - Plant Pathology - National Science Foundation	1,350
Svec, L.S. - Agronomy (SC Sta) - Nebr. Soybean Dev., Util. & Mktg. Bd.	2,350
Torres-Medina, Alfonso - Vet. Science - Nebr. Pork Producers Assn.	6,000
Wiese, R.A., R.C. Sorensen & E.J. Penas - Agron - NE Soy. Dev., Util. Mkt. Bd.	5,000
Williams, J.H. - Agronomy - Nebr. Soybean Dev., Util. & Mktg. Bd.	8,000
Wilson, R.G., Jr. - Agronomy (PH Sta.) - Hercules Incorporated	500
Wilson, R.G., Jr. - Agronomy (PH Sta.) - Rocky Mtn. Bean Dealers Assn.	1,000

GENERAL NOTES

1. The new USDA/SEA competitive grant program, funded at \$15 million last year has been activated with grant awards just ahead of the end of the year (September 30). Isn't the increased efficiency of the new USDA organization impressive?? We submitted 14 proposals. Two were funded to state scientists and one to a federal (AR) coworker. It appears that about half the awards went to Land Grant institutions. The other half includes other public and private universities and private firms.
2. The Calf Scours Vaccine Royalty funds have provided for grant funding of four projects in Veterinary Science, Animal Science and North Platte livestock health programs with \$61,000 for 1978 - 1979.
3. The Food Science and Technology Department has observed its tenth anniversary by preparing an impressive document outlining its program goals for "Decade II".
4. A planning committee has been established for the 1979-80 IANR Staff Conference. It includes Dr. E.B. Mayo, Dr. Dale Swartzendruber, Dr. Ron Hanson, Dr. Bobby Moser, Dr. Mary Quinn, Professor Shirley Niemeyer, Professor Harold DeGraw, Professor Gary Whitely, and Dr. R.W. Kleis. They will welcome your suggestions for a productive conference as they start their planning well ahead of time.
5. Remember when instant recall meant good intelligence rather than bad manufacturing?

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - September 1978

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

5569. Effects of Brewers Dried Grains on Nitrogen Utilization and Performance of Ruminants. Neal Merchen, Whitney Rounds and Terry Klopfenstein. Journal of Animal Science.
5570. Ruminant Bypass of Brewers Dried Grains Protein. Neal Merchen and Terry Klopfenstein. Journal of Animal Science.
5571. Inactivation of Tobacco Ribulosebisphosphate Carboxylase by 2,3-Butanedione. Raymond Chollet. Biochem. Biophys. Res. Commun.
5572. Improved Soybean Meal. Raymond Borchers. Journal of Nutrition.
5573. Food Habit Changes of Persons of Chinese Background Living in Lincoln, Nebraska. Grace I-Ping Yang and H. Fox. Journal, American Dietetic Assn.
5574. Protein Quality Evaluation of Spent Hops. Stanley E. Wallen and Henry F. Marshall, Jr. Journal of Agricultural and Food Chemistry.
5575. The Planning and Designing of Experiments to Detect Differences in Sensory Data as Affected by Marbling Level and Cooking Endpoint Temperature. Stephen R. Lowry. Journal of Food Science.
5576. Nutrients Available in Livestock and Poultry Manure Residue as Reflected by Management Systems. C. B. Gilbertson, D. L. VanDyne, C. J. Clanton and R. K. White. Transactions of the ASAE.
5577. Bacterial Diseases of Legumes: Breeding and Resistance. Dermot P. Coyne and M. L. Schuster. Proc. First International Legume Conference (Invitational Paper), Kew Gardens, England.
5578. Protein Quality Determination of Bone Residue from Mechanically Deboned Chicken Meat. M. J. D. Wallace and G. W. Froning. Poultry Science.
5579. Bacteriocin-like Substances Produced by *Rhizobium japonicum* and Other Slow-Growing Rhizobia. D. C. Gross and A. K. Vidaver. Applied & Environmental Microbiology.
5580. Competition of *Rhizobium japonicum* in Soybean Nodule Development and in Relation to Bacteriocin Production. D. C. Gross, A. K. Vidaver and R. V. Klucas. Applied & Environmental Microbiology.
5581. Modification and Verification of Nebraska's Corn Growth Model - CORNGRO. Philip Tscheschke and James R. Gilley. American Society of Agricultural Engineers.
5582. High-Clearance Small-Plot Sprayer. Leroy L. Peters and Fred W. Roeth. Journal of Economic Entomology.
5583. Nitric Oxide (NO) and Nitrogen Dioxide (NO₂) Emissions from Herbicide-Treated Soybean Plants. Lowell Klepper. Journal of Atmospheric Environment.

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

- 78-1071. The Face Fly *Musca Autumnalis* DeGeer: Ability to Cause Mechanical Damage and Transmitt Pinkeye Pathogens. Jack I. Shugart. North Central Branch, E.S.A., Madison, Wisconsin, April 5-7, 1978.
- 78-1073. Evaluation of Three Cell Lines for Use in the Pseudorabies Serum-Virus Neutralization Test. C. L. Kelling, J. L. Nelson, L. D. Nelson, N. J. Brown, P. D. Lay and K. L. Nix. Proceedings, N.C. Conf. Vet Lab Diagnosticians and N.C. Poultry Disease Conference.
- 78-1074. Development of Multiple Pest Resistance in Three Alfalfa Populations. B. D. Thyr, W. R. Kehr, G. R. Manglitz, B. J. Hartman and O. J. Hunt. Report of the 26th Alfalfa Improvement Conf. June 1978.
- 78-1075. Recycling Paunch Manure in Soils. Leon Chesnin. Western Society of Soil Science Abstract to be presented at July 17-20, 1978 meetings.
- 78-1076. Field Performance of 12 Strains of *Rhizobium* on 4 Alfalfa Varieties. W. R. Kehr, R. C. Sorensen and J. C. Burton. Proceedings, 26th Alfalfa Improvement Conference, Brookings, S. D., June 1978.
- 78-1077. Contamination on Contiguous Borders. D. E. Brown, W. R. Kehr, G. R. Manglitz and J. H. Elgin, Jr. Proceedings 26th Alfalfa Improvement Conference, Brookings, S. D., 1978.
- 78-1078. Field Performance of Rhizobium Inoculation Methods on Two Alfalfa Varieties. W. R. Kehr, R. L. Ogden and R. C. Sorensen. Proceedings 26th Alfalfa Improvement Conference, Brookings, S. D. June 1978.
- 78-1079. Ultrastructural Differentiation of the Rat Sertoli Cells. A. S. Ramos, Jr. American Association of Veterinary Anatomists.
- 78-1080. Efficacy of Levamisole Against Experimental *Ascaridia galli*, *Capillaria obsignata* and *Heterakis gallinarum* Infections in Young Turkeys. D. L. Ferguson and T. W. Sullivan. Proc. North Central Vet Lab Diagnosticians and North Central Poultry Disease Conference.
- 78-1081. Diets and Weight Changes in Breast Fed and Formula Fed Infants and of Lactating Mothers in Nebraska. H. M. Fox, S. Anthony and J. Peterson.
- 78-1082. Effects of Subterraean Aphids, *Geocica squamosa*, on Forage Yield and Quality of Sand Lovegrass, *Eragrostis trichodes*. K. P. Vogel and S. D. Kindler. To be presented at 1978 ASA and CSSA Convention.
- 78-1083. Monensin Self-Fed on Pasture with Salt Regulator. L. L. Berger, D. C. Clanton, J. C. Parrott. Journal of Animal Science.

BULLETINS PRINTED

- RB 283. Forage Quality Evaluations of Twelve Grasses in Relation to Season for Grazing. L. C. Newell and W. J. Moline.