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THE AGRICULTURAL EXPERIMENT STATION
INSTITUTE OF AGRICULTURE
AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA-LINCOLN
ROY G. ARNOLD, DIRECTOR

Agricultural Experiment Station



Vol. 13, No. 11 - May 1980

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FROM THE DIRECTOR'S DESK

Experiment Station

Activities Update

Recent visits and meetings to review research programs and discuss Experiment Station issues have included:

Entomology

Textiles, Clothing & Design

Forestry -- Mead Field Laboratory and Horning Farm

Animal Science -- Swine research program, Mead Field Laboratory

Dairy research program, Mead Field Laboratory

Beef research program, Mead Field Laboratory

Dalbey-Halleck Farm

Agricultural Engineering -- structures and environment research group

Agricultural Communications

Mead Field Laboratory development plan meeting (with Dr. Sahs & unit administrators)

Experiment Station Advisory Committee

Grants Opportunities and Proposals

At the Experiment Station Advisory Committee meeting, the appropriate role of the Experiment Station Director's Office relative to grants was discussed. During visits to units, several Station scientists have suggested a greater role in identification of grant opportunities, monitoring of status of proposals, grantsmanship training, and proposal preparation. The Advisory Committee will be pursuing this issue further. Your suggestions and comments are invited.

Numerous questions concerning preparation and processing of grant proposals continue to surface. Mrs. Heloisa Scholl, secretary to Dr. Kleis in the Station Office, has prepared the feature on grant proposals presented in this issue for your use and future reference. A "Supplemental Information for Completing SOPP Forms" was sent to unit administrators in April, in an attempt to help staff members completing these forms. We hope you will refer to these materials when preparing Experiment Station grant proposals.

Roy G. Arnold
Dean & Director

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IANR Field Day Schedule -- Field Day dates, locations and times are:

- June 20 - High Plains Agricultural Laboratory, Sidney, 8:30 a.m.
- June 26 - Northwest Agricultural Laboratory, Alliance, 6:30 a.m.
- July 24 - Tractor Power and Safety Day, University of Nebraska Field Lab, Mead, 9 a.m.
- Aug. 5 - Sandhills Agricultural Laboratory, North Platte, 8:30 a.m.
- Aug. 7 - Panhandle Station, Scottsbluff, 8:30 a.m.
- Aug. 14 - South Central Station, Clay Center, 8:30 a.m.
- Aug. 26 - Northeast Station, Concord, 8:30 a.m.
- Sept. 12 - Agronomy Field Day, NU Field Laboratory, Mead, time to be announced.

Planning to submit a grant proposal for research work within the Ag Experiment Station?
If so, please:

- Follow the guidelines and the format requested by the granting agency.
- When utilizing personnel services, always make provisions in your budget section for staff benefits and indirect costs.
 - The rates for benefits are: 13% for faculty members, 11% for secretarial and clerical, and 6% for graduate assistants and hourly helpers.
 - The current rate for indirect costs for the Experiment Station is 58.3% of salary and wages only. When the granting agency doesn't pay indirect costs as a matter of policy a statement to this effect should be included with the proposed budget.
- Requests for more than 1 year support should show a budget breakdown for each year separately; however, the SOPP forms should be for the first year only. Renewal figures are shown under #37, #38, #39, #42, #43 and #44 of Page 3 of the SOPP forms.
- Sometimes, especially for small grants, the Station office doesn't receive the agency guidelines. It would save time and phone calls if you could send this information to our office with the original of the proposal.
- We usually need only a few minutes to check proposals and to prepare the transmittal letter. Correcting proposals and collecting the signatures may take additional time even when the documentation is being hand-carried. Proposals hastily prepared have sometimes been submitted without vital information. All proposals are sent from our office to the Administration Building by taxi.
- Experiment Station proposals should always be signed by the Principal Investigator. Department Chairmen or Heads and District Directors should sign the original of the proposal only when requested by granting agency guidelines. However, these unit administrators must sign the proposal checklist form accompanying the SOPP forms. The Associate Director or the Dean & Director of the Agricultural Experiment Station signs the proposal checklist and a transmittal letter and the documents then go through Vice Chancellor Massengale's office for approval and subsequent forwarding to the Office of Research Services.
- Dr. Francis L. Schmehl is the Authorized Institutional Representative who signs for the University. In the case of IANR proposals, Dr. Schmehl signs following review and approval by IANR. Research Services will mail proposals. This office requests that proposals be received one week before the deadline to ensure time for review, processing and mailing.
- If you have questions please call our office before you prepare the final documentation. Everyone involved in the processing of these papers will appreciate your cooperation.

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New Forms -- Research Services has distributed to all unit administrators, under cover memo of April 1st, a set of forms to be used when reporting grants. A 1-page form entitled "Form for Reporting Industry Grant" replaces the old 3-page long form DAS-2000-1. Please make sure you have the new forms when reporting grants.

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GRANTS & CONTRACTS

Arnold, R. G. & L. Satterlee - Food Sci. & Tech. - Beatrice Foods	\$ 3,000
Burnside, O. C. - Agronomy - miscellaneous donors	3,000
Bullerman, L. - Food Sci. & Tech. - Monsanto via University Foundation	16,500
Fenster, C. R. - Agronomy - (PH Station)- miscellaneous donors	2,400
Gast, R. G. - Agronomy - Stauffer	2,000
Hagen, A. F. - Entomology - (PH Station) - Chevron	500
Mandigo, R. W. - Animal Science - American Meat Institute Educ.Fund	1,000
Mayo, Z. B. - Entomology - Mobil	1,500
Moomaw, R. - Agronomy - (NE Station) - miscellaneous donors	1,500
Roeth, F. W. - Agronomy - (SC Station) - miscellaneous donors	2,500
Shahani, K. - Food Sci. & Tech. - National Institutes of Health	27,446
Steadman, J. R. - Plant Path. - DuPont	1,300
Trimmer, W. - Ag. Engineering - (PH Station) - Lockwood Corporation	9,000
Van Etten, J. - Plant Pathology - National Institutes of Health	31,060
Vogel, K. P. - Agronomy - Anna Elliott Fund via University Foundation	603
Wilson, Jr., R. G. - Agronomy - (PH Station) - miscellaneous donors	1,600

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - April 1980

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

5853. The Effect of a Probiotics Culture Upon the Intestinal Microbial Ecology of Ruminant Animals. M. A. Rasmussen and S. D. Farlin. Journal of Animal Science.
5854. Inorganic Phosphorus Fractions in Calcareous Soils as Affected by Phosphorus Application and Time After Application. M. L. Hooker, G. A. Peterson, D. H. Sander and L. A. Daigger. Soil Science Society of America Journal.
5855. Substitution of Peat Moss with Alfalfa Hay and Wheat Straw in Soilless Growing Media. S. S. Salac, E. E. Pierson, W. R. Kehr and R. C. Sorensen. Journal of the American Society for Horticulture Science.
5856. Gaseous Nitrogen Losses from Winter Wheat. M. L. Hooker, D. H. Sander, G. A. Peterson and L. A. Daigger. Agronomy Journal.
5857. Photosynthetic and Photorespiratory Carbon Metabolism in Mesophyll Protoplasts and Chloroplasts Isolated from Isogenic Diploid and Tetraploid Cultivars of Ryegrass (*Lolium perenne* L.). C.K.M. Rathnam and Raymond Chollet. Plant Physiology. v65: 489-494, 1980.
5858. HUMAN MILK RIBONUCLEASE: I. Homogeneity and Properties. B. K. Dalaly, R. R. Eitenmiller, B. Friend and K. M. Shahani. Biochem. Biophys. Acta.
5859. HUMAN MILK RIBONUCLEASE: II. Further Studies on the Isolated Enzyme. B. K. Dalaly, R. R. Eitenmiller, B. A. Friend and K. M. Shahani. Biochem. Biophys. Acta.
5860. Humidity Fluctuations Over a Vegetated Surface Measured with a Lyman-alpha Hygrometer and a Fine-wire Thermocouple-psychrometer. T. Grayson Redford, Jr., Shashi B. Verma and Norman J. Rosenberg. Journal of Applied Meteorology.
5861. Production Rates of Aquatic Insects in a Turbid Reservoir. John C. Lund and Edward J. Peters. Transactions of the Nebraska Academy of Sciences.
5862. The Fishes of Salt Creek Basin, Nebraska. Terry R. Maret and Edward J. Peters. Transactions of the Nebraska Academy of Sciences.
5863. Control of Shattercane in Narrow-Row Soybean Culture. O. C. Burnside. Agronomy Journal.
5864. A Comparison of Use of Time by First Year Teachers and Experienced Teachers of Vocational Agriculture. Roy D. Dillon. The Agricultural Education Magazine.
5865. Presence of Two Subunit Types of Ribulose 1,5-Bisphosphate Carboxylase from *Thiobacillus intermedius*. Llewellyn H. Bowman and Raymond Chollet. Journal of Bacteriology. v141 (2):652-657, February, 1980.
5866. Effect of Reduction and Partial Substitution of Sodium on Bologna Characteristics and Acceptability. Dennis L. Seman, Dennis G. Olson and R. W. Mandigo. Journal of Food Science.
5867. Microbial Changes Associated with Residue Management with Residue Tillage. J. W. Doran. Soil Science Society of America Journal.

(over)

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

- 80-1330. Zinc and Magnesium Utilization as Affected by Graded Levels of Dietary Cellulose, Hemicellulose and Wheat Bran. Helen Papakyrikos and Constance Kies. American Home Economics Association.
- 80-1331. The Effect of Dietary Fiber and Bran Supplementation on Blood Serum Pantothenic Levels of Adolescent Humans. Susan L. Trimbo and Constance Kies. American Home Economics Association.
- 80-1332. Effect of Dietary Cellulose, Hemicellulose and Wheat Bran on Zinc Utilization in Humans. Frances E. Ladlie and Constance Kies. American Home Economics Association.
- 80-1333. Menstrual Losses of Iron, Zinc, Copper and Magnesium in Adult Female Subjects. Josephine Umoren and Constance Kies. American Home Economics Association.
- 80-1334. Textile Consumers' Laundry Maintenance Habits, Practices and Problems in Lincoln-Lancaster County, Nebraska. Joan Laughlin and Rita Margaret Thompson Loveday. AHEA Textile and Clothing Abstracts.
- 80-1335. The Effects of Hydroxyurea on Spermatogenesis in the Adult Rat. A. S. Ramos, Jr. and Young Chin Lin. Society for the Study of Reproduction.
- 80-1336. Increasing the Effectiveness of a Dairy Extension Program Utilizing New Delivery Systems. Don J. Kubik. Journal of Dairy Science.
- 80-1337. Brome Hay and Soyhulls as Fiber Sources in Calf Starters. F. G. Owen, L. L. Larson, S. R. Lowry and J. A. DeShazer.
- 80-1338. Level of Corn Cobs in Complete Calf Starter Rations. F. G. Owen, S. R. Lowry, L. L. Larson and Z. Zia.
- 80-1339. Specific Fluorescein-labelled Antibodies to Bovine Viral Diarrhea Virus Prepared from Sera of Rabbits Immunized with Purified Virus. R. A. Hart and M. B. Rhodes. Can. J. of Comparative Medicine (Research Note).
- 80-1340. Net Genetic and Temporary Epistatic or Maternal Selection Responses in Layers. G. L. Bennett, G. E. Dickerson and R. S. Gowe.
- 80-1341. The Nutritional Value of Three Varieties of Proso Millet and Bird Resistant Sorghum for Poultry. E. S. Luis, T. W. Sullivan and L. A. Nelson. Poultry Science.
- 80-1342. Body Weight Gain and Linear Bone Growth in Large White Turkeys to 20 and 24 Weeks of Age. P. C. Njoku and T. W. Sullivan. Poultry Science.
- 80-1343. Serum Alkaline Phosphatase, Calcium and Phosphorus Levels in Large White Turkeys to 20 and 24 Weeks of Age. P. C. Njoku, T. W. Sullivan and A. J. Lewis. Poultry Science.
- 80-1344. Fecal Phytate, Dietary Phytate, and Utilization of Selected Minerals by Human Adults Fed Fiber/Bran Supplement. C. Kies, T. Peterson, F. Ladlie and H. M. Fox. American Association of Cereal Chemists.
- 80-1345. Asparagine Synthesis in Soybean Nodules. Yiu-Kwok Chan and R. V. Klucas. Annual Meeting of the American Society of Plant Physiologists.