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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 NEWS

Vol. 13, No.9 - March 1980

FROM THE DIRECTOR'S DESK

Report on recent activities:

During February and the early part of March, I have visited the following units to meet with faculty:

- Animal Science
- Ag Climatology & Meteorology
- Human Development & the Family
- Northeast Station
- South Central Station
- U.S. Meat Animal Research Center
- Agricultural Engineering
- Agricultural Biochemistry
- Agricultural Biometrics and Information System Center

Several additional visits to other units and return visits to some of the aforementioned units to review specific aspects of their programs are scheduled during the remainder of March and April. These visits have been interesting and informative. I appreciate the willingness of faculty to share information about their programs, and to express their ideas and concerns relative to the Experiment Station.

During February the Station Office was involved in scheduling and hosting meetings for members of Nebraska Wheat Growers and MARC scientists. Station scientists and unit administrators from several units participated actively and effectively in these sessions, for which I express my appreciation.

Also during February, I participated in four reviews of new Station projects, and in a meeting of the Nebraska Corn Development, Utilization and Marketing Board, High Plains Production Agriculture meeting at Sidney, Northeast Experimental Farm Association meeting at the Northeast Station, and portions of the Nebraska Water Conference. I have been impressed with the several excellent presentations by IANR faculty members at these various sessions.

Let's remember to say "thanks"

At one of the sessions I attended recently, visuals presented by an IANR staff member included an acknowledgement of those organizations or agencies providing support for the research being reported. I was reminded of the importance of publicly acknowledging those who support our research investigations in oral and written reports of results of research projects.

While these expressions of thanks are extremely important, it should be indicated that outside funds represent partial support of the research. Appropriated Agricultural Experiment Station funds generally support the salary of the scientist in proportion to the time commitment to the project, and frequently support additional staff, equipment, facilities and some operating expenses associated with the research. Acknowledging Agricultural Experiment Station support of research investigations is yet another opportunity to inform the general public of the returns on their investment in our research programs. I encourage you to not overlook opportunities to acknowledge Agricultural Experiment Station support of our research investigations and, when appropriate, to acknowldge the support of other agencies and organizations.

Roy G. Arnold

PERSONNEL ACTION

Fleming, Richard L. - Head, Dept. of Ag Communications - new appointment
Kroutil, Wayne - Prof. Ag Engineering - transfer from N. Platte Station to Lincoln
Schaefer, Mary M. - Asst. Prof. Animal Science - new appointment
Swanson, Norris P. - Assoc. Prof. Ag Engineering - retirement from courtesy appointment
Wolverton, Doyle R. - Assoc. Prof. Animal Sci. & Ext. Youth Specialist - new appointment

GRANTS & CONTRACTS

Campbell, J. B. - Entomology - (NP Station) - Pesticide Impact Assess.Program	$ 13,000
DeShazer, J. A., D. G. Overhults, & B. Moser - Ag Eng.& Anim.Sci.- Pork Producers	2,100
Flowerday, A. D. - Agronomy - Cominco-American, Inc.	1,500
Frey, M. L. - Veterinary Science - Old West Regional Commission	58,350
Gast, R. G. - Agronomy - B. K. Heuermann Farms	2,000
Hergert, G. W. - Agronomy - (NP Station) - National Fertilizer Solutions Assoc.	2,000
Klopfenstein, T. - Animal Science - American Soybean Assoc. Res. Foundation	25,830
Omtvedt, I. T. - Animal Science - Janet G. Cameron via Univ. Foundation	500
Rehm, G. W. - Agronomy - (NE Station) - National Fertilizer Solutions Assoc.	2,000
Steadman, J. R. - Plant Pathology - NC Regional Pesticide Impact Assess.Program	6,500
Splinter, W. E. & A. G. Hashimoto - Ag Engineering - USDA/SEA	46,000
Ward, J. K. - Animal Science - Eli Lilly & Company	3,000
Wicks, Gail - Agronomy - (NP Station) - E.I. Dupont de Nemours & Company	900

GENERAL NOTES

1. The Second Conference on Water Data Programs and Needs will be held on Friday, April 4, in the Nebraska Center for Continuing Education. The title of the conference is "Nebraska Water Data, How I Use It and What I Really Want and Need".

2. The Plant Science Dedication will be held on April 7 and 8. The dedication ceremony will be on Tuesday, April 8 at 10 AM. Highlights of the dedication will include a symposium conducted by such national and international experts as: Jules Janick, Arthur Kelman, and Glenn Burton. This symposium will be held on April 7, from 1 PM to 4:30 PM in the Great Plains Room of the East Campus Union. A banquet will be held on Monday night. President Roskens will speak on the topic, "Toward Excellence in Plant Science". A luncheon will be held Tuesday, April 8, at noon, where Regent Robert Raun will speak on the topic "The Windup".

3. Governor Charles Thone will present a seminar on April 23, at 3:30 PM. He will discuss the general topic of "Opportunities and Overseas Markets for Nebraska Agricultural Products". The seminar will be conducted in the Prairie Suite at the East Campus Union.

4. Form DAS 2000-1, used when submitting industry grants, is being revised. Research Services is informing us that the new form will be short and easy to fill out.

5. The Ag Experiment Station Office is preparing supplemental information on how to complete form 2000-2. It is a step-by-step description on how to fill out SOPP forms. We hope this information will help reduce the amount of time our staff members spend preparing these forms. The suggestions received were useful and appreciated. Thanks for bearing with us in satisfying these requirements.

6. Summer Research Faculty Fellowships Awarded -- A large number of excellent proposals were submitted to the Agricultural Experiment Station for summer research faculty fellowships. Obviously, there were more proposals than we could fund this year. The following are the awards that were made:

   Phyllis Staats, Dept. of Human Nutrition and Food Service Management, project entitled "Effect of Portion Size and Cost vs. Protein Content on Entree Selection of Patrons at the East Campus Union Cafeteria".

   Dr. Emyr Owen, from Reading, England, who will do a project sponsored by Dr. Terry Klopfenstein, Animal Science Dept., entitled "Corn and Wheat Residues, Digestion and Treatment".

   Dr. Barbara Chesser, Dept. of Human Development and the Family, project entitled "The Crisis of Chronic Illness".

   Dr. Robert C. Balling, Jr., Dept. of Geography, will conduct a project sponsored by Dr. Norman Rosenberg, Director, Center for Ag Meteorology & Climatology, entitled "Quantitative Evaluation of Weather/Feedlot Cattle Performance".

   Dr. Richard Waldren, Dept. of Agronomy, project entitled "Summarization of Crop Production Research".

   Dr. John R. Felton, Dept. of Economics, will conduct a project sponsored by Dr. Dale G. Anderson, Ag Economics, entitled "Commodity, Place ard Quantity Discrimination in Truck Transportation in Nebraska".

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - February 1980

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

5824. Response of Different Genetic Lines of Boars to Varying Levels of Dietary Calcium and Phosphorus. R. D. Nimmo, E. R. Peo, Jr., B. D. Moser, P. J. Cunningham, T. D. Crenshaw and D. G. Olson. Journal of Animal Science.

5825. Ascorbic Acid and Iron Utilization of Adolescents. Danette M. Bylund and C. Kies. Journal of American Dietetic Association.

5826. Adsorption and Translocation of Buthidazole. Lloyd C. Haderlie. Weed Science.

5827. The DC-PER Assay: A Method for Predicting Protein Quality Solely from Amino Acid Compositional Data. D. K. Jewell, J. G. Kendrick and L. D. Satterlee. Nutrition Reports International.

5828. Nutritional Quality and Chemical Composition of Mechanically Deboned Poultry Meat. A. S. Babji, G. W. Froning and L. D. Satterlee. Journal of Food Science.

5829. Lanosterol, the First Polycyclic Intermediate in Sterol Biosynthesis by *Uromyces phaseoli*. Surendra K. Bansal and Herman W. Knoche. Phytochemistry.

5830. Firm Growth and Survival vs. Income and Cash Flow: The Influence of Land Appreciation. Glenn Helmers and Larry Held. A.A.E.A. Meeting.

5831. Developing Effective International Cooperative Linkages for Animal Research and Training. I. In the Middle East. I. T. Omtvedt. Journal of Animal Science.

5832. Biological Activity of Purified Host-Specific Pathotoxin Produced by *Bipolaris* (*Helminthosporium*) *Maydis*, Race T. Gary Payne, H. W. Knoche, Y. Kono and J. M. Daly. Physiological Plant Pathology.

5833. Inheritance of Teat Number and Its Relationship to Maternal Traits in Swine. R. A. Pumfrey, R. K. Johnson, P. J. Cunningham and Dwane R. Zimmerman. Journal of Animal Science.

5834. Incidence of Mycotoxic Molds in Domestic and Imported Cheeses. L. B. Bullerman. Journal of Food Safety.

5835. Effect of Varying Levels of Dietary Calcium and Phosphorus on Performance, Blood and Bone Parameters in Growing Boars. R. D. Nimmo, E. R. Peo, Jr., B. D. Moser, P. J. Cunningham, D. G. Olson and T. D. Crenshaw. Journal of Animal Science.

5836. Leaching of Atrazine Through Sand Under High Leaching Conditions. J.R.C. Leavitt and Duane R. Tupy. Weed Science.

5837. Dosage-Mortality Data for Insecticides Topically Applied to Larvae of Three European Corn Borer Ecotypes. Frederick S. Koziol, John F. Witkowski and William B. Showers. Journal of Economic Entomology.

5838. Attitudes of Selected University Faculty Members Toward Disabled Students. Gail G. Fonosch and Lois O. Schwab. Research in Higher Education.

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

80-1304. Total and Ionized Serum Calcium Fractions and Their Disturbance by Lactic Acidosis in Ruminant and Non-ruminant Species. Francine M. Mallon and James F. Amend. Nebraska Academy of Sciences.

80-1305. Mechanisms of Monensin Sodium Toxicity in Domestic Ponies. James F. Amend, Donald V. Caine, Patrick E. Phillips and W. Bruce Wren. Nebraska Academy of Sciences.

80-1306. Ascaris suum: Cell Mediated Response in Swine to Oral Inoculation. M. B. Keralis and M. B. Rhodes. Nebraska Academy of Science.

80-1307. A Statewide Survey for the Detection of Specific Antibodies to Ascaris suum in Swine. Lisa A. Staudinger and Marvin B. Rhodes. Nebraska Academy of Sciences.

80-1308. Effect of Dietary Ca-P Level Fed During Growth on Performance, Blood and Bone Parameters of Gilts. R. D. Nimmo and E. R. Peo, Jr. American Society of Animal Science.

80-1309. Effect of Dietary Ca-P Level During Gestation on Bone Strength and Related Parameters of Gilts Following One Lactation. R. D. Nimmo and E. R. Peo, Jr. American Society of Animal Science.

80-1310. Digestibility and Apparent Metabolizable Energy of Rolled or Whole Reconstituted High Moisture Milo and Dry Milo for Swine. J. D. Crenshaw, E. R. Peo, Jr., A. J. Lewis, B. D. Moser and T. D. Crenshaw. American Society of Animal Science.

80-1311. Fecal Fiber Excretion of Humans as Effected by Selected Bran Intake. Mary Elizabeth Westring and Constance Kies. Research Abstract American Home Economics Association.

80-1312. The Effect of Selected Brans (Wheat, Corn and Rice) on Zinc and Copper Utilization in Humans. Bernadette F. Lo and Constance Kies. Research Abstract American Home Economics Association.

80-1313. The Effect of Phytate Content in Selected Fiber Diets (Cellulose, Hemicellulose and Wheat Bran) on Fecal Excretions in Humans. Tallulah E. Peterson and Constance Kies. Research Abstract American Home Economics Association.

80-1314. Selection in Beef Cattle: Postweaning Feed Consumption and Efficiency of Gain. R. M. Koch, L. V. Cundiff and K. E. Gregory.

80-1315. A Vegetative Analysis on Three Selected Farms. Cathie Wiederspan, J. Stubbendieck and Kathie J. Kjar.

80-1316. Registration of NS(FS)LFW-8 and NB(FS)LFW-8 Maize Germplasms. C. O. Gardner, M. L. Schuster and D. D. Hall. Crop Science.

BULLETINS PRINTED

RB 291. Results of the Second High Protein-High Lysine Wheat Observation Nursery Grown in 1976. S. L. Kuhr, K. D. Wilhelmi, V. A. Johnson and P. J. Mattern.