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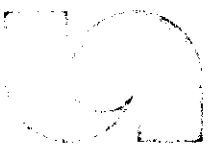
Agricultural Experiment Station News March 1982

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Agricultural Experiment Station News

FROM THE DIRECTOR'S DESK

It seems not so long ago that I was writing my first column as Experiment Station Director. Because of my new assignment as Vice Chancellor of the Institute of Agriculture and Natural Resources, which began on March 1, this is my last column as Experiment Station Director. On March 1, Dr. Robert W. Kleis assumed responsibility as Interim Dean and Director of the Nebraska Agricultural Experiment Station and Dr. Glen Vollmar became Interim Dean and Director of International Programs (0.5 FTE), in addition to his continuing assignment with INTSORMIL. I wish to express my appreciation to both Dr. Kleis and Dr. Vollmar for their willingness to assume these responsibilities on very short notice.

The position of Director of the Nebraska Agricultural Experiment Station has been a challenging and rewarding assignment. It has been a very great pleasure to work with the many outstanding faculty and staff within the Nebraska Station. The breadth, depth and excellent quality of the research programs of the Nebraska Station are impressive. I commend the faculty and staff of the Experiment Station for their continued excellent service, in spite of budget limitations encountered this year. I believe that the budget situation can be and will be improved in the future, even though the short range prospects are not particularly encouraging.

All of us need to help Nebraska citizens understand the importance of the research programs of the Station, and to view research expenditures as an investment in the future. The Nebraska Agricultural Experiment Station plays a significant role in the discovery of new knowledge which may solve important problems and become the basis for new technology, new programs, and new policies to serve Nebraska agriculture, natural resources and home economics. In this way, the Nebraska Agricultural Experiment Station plays an important role in making "the good life" better.

Roy G. Arnold
Dean and Director

IN THE INTERIM

The Agricultural Experiment Station staff has been most fortunate to have had the benefit of Dr. Roy Arnold's able leadership for the past two years. For those of us who work closely with him, it has been a personally enjoyable and professionally gratifying period. We know that you share our respect for him and his ability. He is now moving to a higher and broader leadership role as Vice Chancellor for the IANR. We congratulate both Roy and the Institute and pledge our continued support.

In the interim, until his replacement as Dean and Director of the AES is selected and in place, I have agreed to act in that capacity. Dr. Vollmar will be helping out half time as Acting Dean and Director of International Programs. We appreciate his experience and the capability for that role. We will be operating short-handed but we know that we can count on your understanding and cooperation and we will get the job done. Thank you all in advance. May the search and screening process be as successful as previous ones.

R. W. Kleis

SAHS SEZ

An ad hoc group of Nebraska cattlemen met at the Gudmundsen Sandhills Research Center, (GSRC), Whitman, Nebraska, February 15. The group toured the ranch and inspected facilities and the experimental cattle units.

At a working lunch in Mullen, Nebraska, the group discussed research potentials and the possibilities with representatives of the IANR GSRC Planning and Management Committee.

A joint review of Soil and Water Conservation Research programs at Lincoln, Nebraska; Ames, Iowa; and Columbia, Missouri, was held on February 24-26, 1982 at the Northeast Holiday Inn in Lincoln.

GRANTS AND CONTRACTS

Anderson, B. E. (Agronomy) - Anna H. Elliott Fund	10,720
Anderson, B. E. and Waller, S. (Agronomy) - Monsanto Company	12,353
Ball, E. M. (Plant Pathology) - Agdia, Inc.	50
Ball, H. J. (Entomology) - Ciba-Geigy	500
Clanton, D. C. (North Platte Station) - Distributors Processing, Inc.	5,500
Clanton, D. C. (North Platte Station) - Eli Lilly & Company	8,430
Ferguson, D. L. (Veterinary Science) - American Cyanamid Company	400
Johnson, R. K. (Animal Science) - Union Pacific Foundation	6,000
Schulte, D. (Agricultural Engineering) - Nebraska Concrete Masonry Association (Donation/Gift)	1,750
Vidaver, A. K. (Plant Pathology) - Conklin Company, Inc.	3,000
Ward, J. (Animal Science) - International Minerals & Chemicals	786
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	38,789

GRANTS

The Experiment Station Director is the authorized representative for USDA Special and Competitive grants. Dr. Earl J. Freise is the authorized representative for all other grants. Grants are to be submitted through the Experiment Station for approval and will be forwarded to Research Services.

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - February 1982

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

6784. Laundering Procedures for Removal of 2,4-D Ester and Amine Herbicide from Contaminated Fabrics. C. B. Easley, J. M. Laughlin, R. E. Gold, D. R. Tupy and K. L. Schmidt. Archives of Environmental Contamination and Toxicology.
6785. The Strength of Four Housing Norms. Kenneth R. Tremblay, Jr. Housing and Society.
6786. The Effect of Lactose Supplementation on Feed Intake and Production Characteristics of Laying Hens. Earl W. Gleaves and Ali Ali Salim. Poultry Science.
6787. The Effect of Lactose Source on Feed Intake and Egg Production Characteristics of Laying Hens. Ali Ali Salim and Earl W. Gleaves. Poultry Science.
6788. Aquaculture for Waste Management. Leon Chesnin. Biocycle Journal Waste Management.
6789. Effect of Temperature on Egg Yolk Characteristics of Eggs from Young and Old Laying Hens. D. A. Ngoka, G. W. Froning and A. S. Babji. Poultry Science Journal.
6790. Comparison of T-toxin Production by Cultures of Near-Isogenic Isolates of *Helminthosporium maydis* Races T and O. K. K. Tegtmeier, J. M. Daly and O. C. Yoder. Phytopathology.
6791. Genetic Technology Contributions to Soybean Productivity-Retrospect and Prospect. J. E. Specht and J. H. Williams. Crop Science Symposium Publication.
6792. Recovery of Two Sorghum Varieties from Sublethal Infestations of Chinch Bug, *Blissus leucopterus leucopterus* (Say). Tarik R. Ahmad, S. D. Kindler and K. P. Pruess. Journal of Economic Entomology.
6793. Characterization of Injury to Birch and Bean Leaves by Simulated Acid Precipitation. Ellen T. Papparozzi and H. B. Tukey, Jr. Proceedings of the American Chemical Society.
6794. Effects of Changes in Economic Weights on the Efficiency of Index Selection. Charles Smith. Journal of Animal Science.
6795. Effect of Feeding and Intraperitoneal Implantation of Yogurt Culture Cells on Ehrlich Ascites Tumor. Beverly A. Friend, Robert E. Farmer and Khem M. Shahani. Journal of National Cancer Institute.
6796. Residential Solar Energy Policies: Extent of Public Support. E. Raedene Combs and Kenneth R. Tremblay, Jr. Housing and Society.
6797. Physical and Chemical Properties of Randomly Interesterified Blends of Soybean Oil and Tallow for Use as Margarine Oils. Y. C. Lo and A. P. Handel. Journal of the American Oil Chemists' Society.

6798. Nutritional Impact of Lactobacillic Fermented Foods. Khem M. Shahani. Proceedings, Swedish Nutrition Foundation.
6799. *Ascaris suum*: Antigens in Perienteric Fluid Which Stimulate Antibody Production in Pigs. Marvin B. Rhodes and Lisa A. Staudinger. Experimental Parasitology.
6800. Viruses of Symbiotic *Chlorella*-like Algae Isolated from *Paramecium bursaria* and *Hydra viridis*. J. L. Van Etten, R. H. Meints, D. Kuczmariski, D. Burank and K. Lee. Proceedings of the National Academy of Sciences, USA.
6801. Iodine in Milk: Background, Procedure for Measurement and How to Reduce It. Stan Wallen, Duane Rice and Foster Owen. Dairy and Food Sanitation.
6802. Weed Control in Conservation Cropping Systems - Small Grains. Gail A. Wicks. Chapter in WSSA Monograph.
6803. Control of Weeds in Sugarbeets (*Beta vulgaris*) with Handhoeing and Herbicides. Gail A. Wicks and Robert J. Wilson. Weed Science.
6804. Stability of Yield Components of Grain Sorghum (*Sorghum bicolor* (L.) Moench) Across Diverse Environments. G. M. Heinrich, C. A. Francis and J. D. Eastin. Crop Science.
6805. An X-Y-Plotter-Based Method for Measuring Root Lengths. W. W. Wilhelm, J. M. Norman and R. L. Newell. Agronomy Journal.
6806. Diseases of Major Crops Grown Under Dryland Agriculture in North America. B. Doupnik and R. Frederiksen. Chapter of Monograph on Dryland Agriculture in North America.
6807. Wheat Spindle Streak Mosaic Virus in Nebraska. M. K. Brakke, W. G. Langenberg and R. G. Samson. Plant Disease.
6808. Photosynthetic/Photorespiratory CO₂ Exchange Characteristics of the C₃-C₄ Intermediate Species, *Moricandia arvensis*. A. S. Holaday, A. T. Harrison and R. Chollet. Plant Science Letters.
6809. *Polymyxa betae* in Nebraska. Willem G. Langenberg and E. D. Kerr. Plant Disease Reporter.
6810. Effect of Landscape Position and Aspect of Soil Moisture Recharge. A. Y. Hanna, P. W. Harlan and D. T. Lewis. Agronomy Journal.
6811. Performance of S₁ Progenies Sampled in Different Years from a Sorghum Base Population. W. M. Ross and G. H. Hookstra. Crop Science.
6812. Evaluation of Sustained Releases of *Spalangia endius* for the Control of House Flies and Stable Flies Associated with Confined Livestock in Eastern Nebraska. James J. Petersen, Jeff A. Meyer, David A. Stage and P. B. Morgan. Journal of Economic Entomology.
6813. Chinch Bug Control with Insecticides on Wheat, Field Corn, and Grain Sorghum--1981. Leroy L. Peters. Journal of Economic Entomology.

6814. Analogs of Host-Specific Phytotoxin Produced by *Helminthosporium maydis*, Race T. I. Synthesis. Yoshikatsu Suzuki, H. W. Knoche and J. M. Daly. *Bioorganic Chemistry*.
6815. Analogs of Host-Specific Phytotoxin Produced by *Helminthosporium maydis*, Race T. II. Biological Activities. Yoshikatsu Suzuki, K. J. Tegtmeier, J. M. Daly and H. M. Knoche. *Bioorganic Chemistry*.
6816. Effect of Landscape Position and Aspect on Available Soil Moisture. A. Y. Hanna, P. W. Harlan and D. T. Lewis. *Agronomy Journal*.
6817. Preemergence Herbicide Control of Prostrate and Spotted Spurge in Cool Season Turfs. R. C. Shearman, E. J. Kinbacher, T. P. Riordan and A. H. Bruneau.
6818. Sex Determination of Plains Pocket Gophers by Incisor Width. Ronald M. Case and Alan B. Sargeant. *Journal of Mammalogy*.
6819. Factors Influencing the Dietary Intake of Noninstitutionalized Elderly. N. M. Betts and V. M. Vivian. *Journal of the American Dietetic Association*.
6820. The Dietary Intake of Noninstitutionalized Elderly. N. M. Betts and V. M. Vivian. *Journal of the American Dietetic Association*.
6821. Maize Geotype by Cropping Pattern Interactions: Monoculture Versus Intercropping. C. A. Francis, M. Prager, G. Tejada and D. R. Laing. *Crop Science*.

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

- 82-1686. Automated Data Collection for Nebraska Agricultural Operation. N. J. Rosenberg, K. G. Hubbard and D. C. Nielsen. ASAE 1982 Winter Meeting.
- 82-1687. Response of *Bromus inermis* Leyss. to Spring Burning. Roger N. Gates, Donn K. Schmidt and Steven S. Waller. The Nebraska Academy of Sciences.
- 82-1688. Vented and Unvented Heaters for Swine Housing. David P. Shelton and Dennis D. Schulte. ASAE Livestock Environment Symposium.
- 82-1689. Use of Repeated Matings to Estimate Environmental and Genetic Trends and Effects of Relaxing Selection in a Selected Strain of Leghorn Chickens. G. E. Dickerson, T. S. Kashyap, G. L. Bennett, K. Goodwin and J. A. B. Emsley. *Poultry Science*.
- 82-1690. Pyridoxine Utilization from Bread as Affected by Bran or Iron Supplementation. Hinda-Rose Bizem, S. Kan, C. Kies and H. M. Fox. Nebraska Academy of Sciences.
- 82-1691. Food Wastage in the Home. C. Schwarz and H. M. Fox. Nebraska Academy of Sciences.
- 82-1692. Magnesium and Manganese Utilization from Enteral Formula Diets. Judy Corrington, C. Kies and H. M. Fox. Nebraska Academy of Sciences.
- 82-1693. Calcium and Phosphorus Utilization by Omnivores and Vegetarians. Nweze Nnakwe, C. Kies and H. M. Fox. Nebraska Academy of Sciences.

- 82-1694. Magnesium Utilization of Humans as Affected by Level and Type of Dietary Wheat Bran Supplementation. Alice Downes, H. Papakyrikos, C. Kies and H. M. Fox. Nebraska Academy of Sciences.
- 82-1695. Communication Strategies to Improve Nutritional Practices of Families. Debbie Legg and H. M. Fox. Nebraska Academy of Sciences.
- 82-1696. Cellulose Digestion in Humans. Vilka Sanchez, C. Kies and H. M. Fox. Nebraska Academy of Sciences.
- 82-1697. Detergents and Water Temperature as Factors in Methyl Parathion Removal from Denim Fabrics. C. B. Easley, J. Laughlin, R. E. Gold and K. Schmidt. Proceedings, Nebraska Academy of Sciences.
- 82-1698. Laundering Procedures for Removal of 2,4-D Amine and Ester Herbicide from Contaminated Fabrics. J. Laughlin, C. B. Easley, R. E. Gold and D. Tupy. Proceedings, Nebraska Academy of Sciences.
- 82-1699. Limiting Dermal Exposure to 2,4-D Herbicide Through Laundering Protective Clothing. J. Laughlin, C. B. Easley, R. E. Gold and K. Schmidt. AHEA Research Abstract.
- 82-1700. Home Laundering Conditions as Determinants of Methyl Parathion Removal from Work Fabrics. C. B. Easley, J. Laughlin, R. E. Gold and K. Schmidt. AHEA Research Abstract.
- 82-1701. Electrolyte Adequacy of Commercially Available, Defined Formula Diets Fed to Healthy Human Adults. Njeri Karanja, C. Kies and H. M. Fox. Nebraska Academy of Sciences.

BULLETINS PRINTED

- RB 270 Leaf Freckles and Wilt of Corn Incited by *Corynebacterium Nebraskense* Schuster, Hoff, Mandel, Lazar, 1972. M. L. Schuster.