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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 .NEWS.

Vol. 8, No. 5, November 1975

FROM THE ACTING DIRECTOR'S DESK

THE 100TH ANNIVERSARY OF THE AGRICULTURAL EXPERIMENT STATIONS' SYSTEM in the United States provided the theme for much of the program emphasis at the annual meeting of the Association of State Universities and Land Grant Colleges this month. Many nationally prominent people, including Secretary Butz, participated in the special events. There were many eloquent expressions of pride and praise for the accomplishments of this agricultural research system which was started in Connecticut in 1875. The system has contributed heavily to the envied productivity of American agriculture, to our standard of living, and to the world food supply. We are fortunate to be associated with it.

It was gratifying that relatively little emphasis was committed to basking in the glory of the past as compared to the major attention to the challenges of the present and future. The need to nearly double the present world food supply in the next 25 years is sobering. The Secretary pointed out that this need must be met without benefit of new continents to discover, new prairies to plow, or arable lands to clear. The inputs to develop this greatly increased food supply are science and education.

UNFINISHED MIRACLES is a newly produced 28 minute film depicting a century of agricultural research. It portrays vividly how agricultural scientists have joined hand in hand with nature to help achieve miracles in production of food and fiber for an ever expanding world population. The film illustrates the complexities of agricultural technology as well as the geographic spectrum of our food production and processing industry. It cites many milestones of scientific accomplishment as well as the lingering problems facing agricultural producers.

We believe that this film is very well done and urge its extensive showing, particularly to consumer audiences. We have two copies of the film available through the Film Library, 421 Nebraska Hall and through the Department of Agricultural Communications.

THAT WE MAY EAT is the title of the 1975 Yearbook of Agriculture just off the press. It also is dedicated to the centennial year story of the success of the Agricultural Experiment Station system. It extensively and interestingly documents AES accomplishments and includes several references to the Nebraska Station. Its very last sentence is appropriately "The tougher job lies ahead."

R. W. Kleis

GREETINGS FROM THE FROLIKS

Rita and I appreciate this opportunity, provided by Bob Kleis, to extend our greetings to you, our colleagues in the University. I have completed an interesting and challenging two-year assignment in Iran, serving as consultant to the Iranian Ministry of Agriculture, our research administration and organization. Our homecoming has been most pleasant and we appreciate the warm welcome we have received from so many of you. We are back in our home, getting reestablished, and look forward to visiting with all of you once again.

Rita and Elvin

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PERSONNEL ACTIONS

Bachmann, Marlene - Assistant Prof. of Education and Family Resources (Resignation)
Doran, John W. - Assistant Professor of Agronomy (Courtesy Appointment)
Torres-Medina, Alfonso - Assistant Professor of Veterinary Science (Resignation)

GRANTS AND CONTRACTS

Arnold, R. G., et al - FS&T - University of Nebraska Foundation	$ 12,000
Bullerman, Lloyd B. - Food Science and Technology - PHS, NIH	20,146
Campbell, J. B. - Entomology (NP Sta.) - Chevron Chemical Co.	800
Campbell, J. B. - Entomology (NP Sta.) - Dow Chemical Company	1,000
Fischbach, P. E. - Agr'l Engineering - Stauffer Chemical Company	1,600
Hagen, A. F. - Entomology (PH Sta.) - FMC Corporation	500
Klopfenstein, T.-Animal Science - American Dehydrators Association	4,500
Lavy, T. L. - Agronomy - Northern Petrochemical Company	10,000
Moomaw, R. S. - Agronomy (NE Sta.) - Stauffer Chemical Company	700
Teter, N. C. - Agr'l Engineering - Neb. Inter-Industry Electric Council	1,690

GENERAL NOTES

1. The departments of Horticulture and Entomology are back in the Plant Industry building as the restoration of the basement, first and second floors nears completion. The roof is restored also but the third floor (Plant Pathology) is yet far from ready for reoccupancy.

2. Congratulations to Drs. Coyne and Schuster as co-recipients of the 1975 National Bean Improvement Cooperative award for research.

3. We are grateful that the University was spared the 3% reduction of its current budget. Other good news is that the recently passed federal appropriation for agricultural research came through with some increase.

4. Sahs Sez - A one day workshop will be held at the Field Laboratory on December 10 addressing the topic "Organic Residues and By-products in Crop and Animal Production." Some 15 staff members will report on research and extension activities in this area. The meeting is open to all who are interested.

5. The search committee for the North Platte District Directorship has reported its recommendations to the Vice Chancellor. They handled their task thoroughly and expeditiously. Our thanks for their good work.

6. Schnieder on Safety - Drivers of state vehicles are under the watchful eyes of the Nebraska taxpayer. For this reason and for your own welfare, follow all rules of the road including the 55 mph limit.

7. Have a happy and meaningful Thanksgiving holiday.

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - October 1975

Journal Articles (contact authors for more information)

4085. Base Sequence Homology in the RNA's of Barley Stripe Mosaic Virus. M. K. Palomar, M. K. Brakke and A. O. Jackson. Virology.

4086. Oats Response to Herbicides Applied Postemergence for Broadleaf Control. C. R. Fenster and L. R. Robison. Agronomy Journal.

4087. An Agroclimatic Procedure and Survey of the Pineapple Production Potential of Colombia. R. E. Neild and F. Boshell. Journal of Agricultural Meteorology.

4088. Volumetric Determination of Grease in Sewage. R. B. Maxcy. Journal of the Water Pollution Control Federation.

4089. Relationships of Egg Shell Thickness and Specific Gravity to Quasi-Static Compression Tests. Malik M. Ahmad, G. W. Froning, F. B. Mather and L. L. Bashford. Poultry Science.

4090. Selection Criteria for Intensive Market Lamb Production: Carcass and Growth Traits. Larry W. Olson, G. E. Dickerson, H. A. Glimp and J. D. Crouse. Journal of Animal Science.

4091. Availability of Tryptophan in Some Feedstuffs for Swine. Pedro H. Rivera L., E. R. Peo, Jr., T. Stahly, B. D. Moser and P. J. Cunningham. Journal of Animal Science.

4092. Concentration and Infectivity of Barley Stripe Mosaic Virus in Barley (Hordeum vulgare L.). M. K. Palomar and M. K. Brakke. Phytopathology.

4093. The Carbon Balance of Diseased Plants: Changes in Respiration, Photosynthesis and Translocation. J. M. Daly. Chapter in Handbook of Plant Physiology -- Springer-Verlag.

4094. The Relationship of Dietary Calcium and Phosphorus to Atrophic Rhinitis in Growing-Finishing Swine. I. Performance, Blood and Bacteriological Characteristics. R. G. White, D. M. Danielson and E. R. Peo, Jr. Journal of Animal Science.

4095. The Relationship of Dietary Calcium and Phosphorus to Atrophic Rhinitis in Growing-Finishing Swine. II. Bone Analysis, Histopathology, Epiphysis, and Turbinates. R. G. White, D. M. Danielson and E. R. Peo, Jr. Journal of Animal Science.

4096. Fertilizing Subirrigated Hay Meadows at Various Rates and Frequencies of N-applications Using SCU and Other N Sources. L. A. Daigger and W. J. Moline. Agronomy Journal.

4097. Survival of Bacterial Pathogens of Soybeans. M. L. Schuster. Crop Science.

4098. Weight Gain Response and Efficacy of Washing and Various Insecticide Treatments for Control of Flies Feeding on Shear Wounds of Summer Shorn Lambs. J. B. Campbell and T. H. Doane. Journal of Economic Entomology.

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Journal Abstracts (contact authors for more information)

75-485. Immune Response to Attenuated Calf Diarrheal Coronavirus. C. A. Mebus and A. Torres-Medina. Proceedings, 56th Conference of Research Workers in Animal Diseases.

75-486. Partial Characterization of the Soluble Proteins from Thiry-Vella Intestinal Loops in Pigs. M. B. Rhodes, C. A. Mebus, C. A. Klucas and R. A. McCullough. 18th West Central States Biochemistry Conference.

75-487. Soil Persistence of Corn Herbicides During the Year of Application. O. C. Burnside. North Central Weed Control Conference Research Report.

75-488. Effect of Row Spacing, Population and Nitrogen on Dry Bean Yield. F. Anderson, J. Hart and G. Peterson. Joint Bean Improvement Committee of the National Dry Bean Council.

75-489. Diarrhea in Gnotobiotic Calves Caused by the Reovirus-like Agent of Human Infantile Gastroenteritis. C. A. Mebus, R. G. Wyatt and A. Torres-Medina. Abstract for 56th Conference of Research Workers in Animal Diseases.

75-490. Control of Weeds in Close-Seeded Sorghum. O. C. Burnside. North Central Weed Control Conference Research Report.

75-491. Selective Control of Weeds in Corn with Preplant, Preemergence and Post-emergence Herbicides. O. C. Burnside. North Central Weed Control Conference Research Report.

75-492. Control of Weeds in Close-Drilled Soybeans. O. C. Burnside. North Central Weed Control Conference Research Report.

75-493. Persistence of Soybean Herbicides in the Soil During the Year of Application. Orvin C. Burnside. North Central Weed Control Conference Research Report.

75-494. Soil Persistence of Sorghum Herbicides in the Year of Application. Orvin C. Burnside. North Central Weed Control Conference Research Report.

75-495. Human Reovirus-like Agent Induced Diarrhea in Gnotobiotic Pigs. A. Torres-Medina, N. R. Underdahl, C. A. Mebus, R. G. Wyatt, A. Z. Kapikian, A. R. Kalica and D. Vankirk. Conference of Research Workers in Animal Diseases.

75-496. Laboratory Measurements of Atrazine Volatility from a Valentine Sandy Loam. D. L. Bucholtz and T. L. Lavy. North Central Weed Control Conference Research Report.

75-497. Use of Soil-Water Collection Apparatus in Monitoring Herbicide Leaching in a Soil Profile. R. H. Hammons and T. L. Lavy. North Central Weed Control Conference Research Report.

75-498. Mobility and Adsorbent Properties of Atrazine in the Upper 300 cm of a Jansen Sandy Loam. T. H. Dao and T. L. Lavy. North Central Weed Control Conference Research Report.

75-499. Influence of Atrazine on the Mobility of Alachlor in Soil Columns. T. H. Dao and T. L. Lavy. North Central Weed Control Conference Research Report.