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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. 11, No. 2, August, 1978

FROM THE DIRECTOR'S DESK

The BIFAD (Board for International Food and Agriculture Development), the responsible body for the new Title XII program under the new Foreign Assistance Act, has selected sorghum and millet as one of the four high priority areas for early activation as a research network. The University of Missouri was awarded a planning grant in the fall of 1977 to submit a set of recommendations on the sorghum program to BIFAD; their recommendations are now going forward.

Nebraska will carry a substantial share of the twelve state program as recommended by Missouri. In addition to that, the University of Nebraska is being recommended as the "base institution" in the 3.5 million dollar program, with the program administrator being associated with the IANR International Programs office.

It appears that the new program will be activated on October 1, 1978. Our selection as base institution is a distinct honor; beyond that the research work which the Station will carry on under the new program is a recognition of our past efforts in this area, and an opportunity to participate on an international basis in a unique research partnership. This partnership will involve not only several U.S. Experiment Stations, but also international research centers and scientists in the developing nations where sorghum is presently or potentially an important food grain. Also unique in this program is the underlying philosophy; it is not a "foreign aid" program; it is a program of joint effort by the cooperators for mutual benefit.

Drs. Eastin, Francis, Gast and Kleis have represented Nebraska and had extensive inputs to the development of this program.

Equal Opportunity

The following are three elements of the Experiment Station policy concerning Equal Opportunity practice about which all staff should be aware:

A. Equal opportunity with respect to research: It is the policy of the Experiment Station that research results of any project are available to anyone on a non-discriminatory basis. Generally our research results are taken to the public thru the extension service. County agents are to check cooperating routes to see that they do not discriminate. If you participate at a meeting not sponsored by Extension, it is appropriate to check with the requesting individual to see that the meeting is open to everyone.

B. Publications: Experiment Station publications are available to anyone and are distributed on a non-discriminatory basis.

C. Graduate students at the University: The University of Nebraska is an equal opportunity educational institution.

PERSONNEL ACTIONS

Cunningham, Peter J. - Professor - Animal Science - Resignation
Duffert, Charles M. - Instructor - Conservation & Survey Division - Resignation
Henderson, Philip - Professor - Agricultural Economics - Retirement
Kennedy, George A. - Asst. Professor - Veterinary Science - Resignation
Kofoid, Kenneth D. - Research Asst. - Agronomy - Resignation (to North Dakota State Univ)
Vitzhum, Edward F. - Instructor - Agricultural Communications - New Appointment
Wilke, W. Lee - Asst. Professor - Veterinary Science - Resignation

GRANTS AND CONTRACTS

Burnside, O. C. - Agronomy - Shell Development Company	$ 1,500
Burnside, O. C. - Agronomy - Miscellaneous Donors	1,500
Campbell, J. B. - Entomology (N.P. Sta.) - Burroughs Wellcome Company	2,000
Compton, W. A. - Agronomy - Illinois Foundation Seeds, Inc.	1,000
Doupnik, Ben & John Watkins - Plant Pathology (S.C. Sta.)- Rohm & Haas Co.	750
Fischbach, P. E. - Ag. Engineering - MIT, Lincoln Laboratory	102,724
Fenster, C. R. - Agronomy (P.H. Sta.) - Shell Chemical	500
Fritschen, R. D. - Animal Science (N.E. Sta.) - American Cyanamid	7,560
Gold, R. E. - Environmental Programs - Velsicol Chemical Corporation	1,500
Hagen, A. F. - Entomology (P.H. Sta.) - E. I. DuPont DeNemours	500
Kelling, C. L. - Veterinary Science - USDA-ARS	15,000
Kerr, E. D. - Plant Pathology (P.H. Sta.) - Diamond Shamrock Corp.	1,050
Lagrone, W. F. - Ag. Economics - USDA-ESCS	3,000
O'Keefe, R. B. - Horticulture (P.H. Sta.) - Diamond Shamrock Corp.	500
Rhodes, M. B. - Veterinary Science - Miscellaneous Donors	330
Roeth, F. W. - Agronomy (S.C. Sta.) - E. I. DuPont DeNemours & Co. Inc.	300
Rosenberg, N. J. - Ag. Engineering/Ag. Meteorology - NSF	64,804
Steadman, J. R. - Plant Pathology - The UpJohn Company	300
Trimmer, W. L. - Ag. Engineering - Miscellaneous Donors	450
Vidaver, A. K. - Plant Pathology - NSF	60,000
Wicks, G. A. - Agronomy (N.P. Sta.) - E. I. DuPont DeNemours & Co. Inc.	400
Wilson, R. G., Jr. - Agronomy (P.H. Sta.) - Miscellaneous Donors	1,750
Wilson, R. G., Jr. - Agronomy (P.H. Sta.) - Stauffer Chemical Company	1,500

GENERAL NOTES

1. The North Platte Station is this year observing its 75th Anniversary. They plan a special program and openhouse of their programs and facilities on Sunday, September 24. The fine record of research accomplishment and service is witnessed by the growth, stature and public support of this Station.

2. Dr. W. E. Splinter was installed as President of the American Society of Agricultural Engineers at the recent annual meeting of that organization in Logan, Utah. Congratulations, Bill.

3. The construction activity north of the Tractor Testing track is the "Agricultural Engineering Annex" which will accommodate new tractor testing facilities as well as equipment, teaching and research laboratories. It is moving along well. Plans are progressing toward final form for the larger companion project of renovating the present Agricultural Engineering building.

4. Marie Schamp is the new secretary in the AES office working with me. She will be working with many of you on matters related to grants, contracts, regional funds, etc. You will find her both cooperative and capable. We are pleased to have her working with us.

5. Only he who is lying on the ground cannot fall.

R.W. KLEIS

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - July 1978

Journal Articles (contact authors for more information)

5539. The Nebraska Burn Study Part II: Characteristics of the Clothing-Related Burn Incident. Joan Laughlin and Judith Besel Trautwein. Textile Chemist and Colorist: The Journal of the Association of Textile Chemists and Colorists.

5540. Temperatures of Liquid in Household Refrigerators. R. B. Maxcy. Journal of Food Protection.

5541. Seed Selection by an Ant Pheidole bicarintat longula Emery (Hymenoptera: Formicidae). J. B. Ballard and K. P. Pruess. Journal of Kansas Entomological Society.

5542. Selection for Ovulation Rate in Swine: Correlated Response in Litter Size and Weight. P. J. Cunningham, M. E. England, L. D. Young and Dwane R. Zimmerman. Journal of Animal Science.

5543. A Selective Medium, CNS, for Isolation of Corynebacterium nebraskense from Soil and Plant Parts. D. C. Gross and A. K. Vidaver. Phytopathology.

5544. Germination and Seedling Development of Canada Thistle (Cirsium arvense (L.) Scop.). Robert G. Wilson, Jr. Weed Science.

5545. Bacteriocin, Plasmid, and Pectolytic Diversity in Pseudomonas cepacia of Clinical and Plant Origin. Carlos F. Gonzalez and Anne K. Vidaver. Journal of General Microbiology.

5546. The Microclimate of Furrow Irrigated Dry Edible Beans and Implications Toward White Mold Disease Caused by Sclerotinia sclerotiorum. A. Weiss, L. E. Hipps, B. L. Blad and J. R. Steadman. Agricultural Meteorology.

5547. Turbulence Under Conditions of Sensible Heat Advection. R. P. Motha, S. B. Verma and N. J. Rosenberg. Journal of Applied Meteorology.

5548. Significance of Mycotoxins to Food Safety and Human Health. L. B. Bullerman. Journal of Food Protection.

5549. Use of Immobilized Enzymes in the Food Industry: A Review. Arun Kilara and Khem M. Shahani. Critical Reviews in Food Science and Nutrition.

5550. Turbulence Spectra Above a Vegetated Surface Under Conditions of Sensible Heat Advection. R. P. Motha, S. B. Verma and N. J. Rosenberg. Journal of Applied Meteorology.

5551. Exchange Coefficients Under Sensible Heat Advection Determined by Eddy Correlation. R. P. Motha, S. B. Verma and N. J. Rosenberg. Agricultural Meteorology.

5552. Mycoplasma hyopneumoniae Infection in Gnotobiotic Pigs. Norman R. Underdahl, George A. Kennedy and Angel S. Ramos, Jr.

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Journal Abstracts (contact authors for more information)

78-1048. Feedlot Pest Management Data, Nebraska. C. D. McNeal, Jr. and J. B. Campbell. North Central Branch, E.S.A., Madison, Wisc., April 5-7, 1978.

78-1049. Face Fly Feeding Injury to Eye Tissue of Cattle. Jack I. Shugart. North Central Branch, E.S.A., Madison, Wisconsin, April 5-7, 1978.

78-1050. Stable Fly Population Dynamics, Mark, Release and Recapture of Flies at Feedlots. Rebecca Rasmussen, J. B. Campbell and Ivan Berry. North Central Branch, E.S.A., Madison, Wisconsin, April 5-7, 1978.

78-1051. Efficacy of Shell Synthetic Pyrethroid and Dursban in Eartags for Fly Control. Jack Shugart and J. B. Campbell. North Central Branch, E.S.A., Madison, Wisconsin, April 5-7, 1978.

78-1052. Evaluation of Bimilin (TH-6040) as a Residual, Dust, and Granule Formulation for Control of House, Horn, Face and Stable Flies. D. J. Boxler and J. B. Campbell. North Central Branch, E.S.A., Madison, Wisconsin, April 5-7, 1978.

78-1053. Evaluation of Ectiban (ICI, AMA'S) at Feedlots for Stable and House Fly Control. J. B. Campbell and Dave Boxler. North Central Branch, E.S.A., Madison, Wisconsin, April 5-7, 1978.

78-1054. The Nutrition Knowledge, Attitudes and Concerns of Food Cooperative Shoppers in Lincoln, Nebraska. Kathleen Ehlers (Dr. Hazel Fox). Research Abstracts, American Home Economics Association.

78-1055. Nutritional Intake and Weight Changes of Infants and Lactating Women. Susan L. Anthony. (Dr. Hazel Fox). Research Abstracts, American Home Economics Association.

78-1056. The Effect of Dietary Fiber and Zinc on Ascorbic Acid Utilization of Human Adults. Frances R. Costanzo (Dr. Constance Kies). Research Abstracts, American Home Economics Association.

78-1057. Resistance to Change Toward Adoption of Cooperative Food Purchasing in the University of Nebraska-Lincoln Greek Systems. Beth Kouba (Dr. Marie Knickrehm). Research Abstracts, American Home Economics Association.

78-1058. Use of Internal and Surface Temperature in Assessing Hot-Holding Techniques for Selected Menu Items. Lois E. Jensen (Dr. Marie Knickrehm). Research Abstracts, American Home Economics Association.

78-1059. Dietary Cellulose, Hemicellulose and Pectin: Effects on Adult Humans. Martha M. Anderson (Dr. Constance Kies). Research Abstracts, American Home Economics Association.

BULLETINS PRINTED

RP 253. Consumer Perceptions of Selected Community Services in the Great Plains. Paul H. Gessaman, Lonnie L. Jones, William E. Kamps and William C. Nelson.

RB 284. Sulfur Fertilization of Alfalfa and Corn on the Sandy Soils of Nebraska. G. W. Rehm.