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UNIVERSITY OF NEBRASKA-LINCOLN
COLLEGE OF AGRICULTURE
THE AGRICULTURAL EXPERIMENT STATION
E. F. FROLIK, DEAN
H. W. OTTOSON, DIRECTOR

Agricultural Experiment Station



Vol. 6, Number 3, September 1972

FROM THE DIRECTOR'S OFFICE

Dear Colleagues:

It's good to be back! My year's special environmental assignment ended on August 31. I find the Experiment Station office operating smoothly. It was good to have Dr. Kleis, Dr. Sahs, and Dr. Cobb carrying on so effectively while I was away.

The year was an educational experience for me in which I got a new appreciation of the complexity of environmental issues in our society, as well as the large social commitments which have been made to improve our long-run situation. Of course in an agricultural-rural state like Nebraska many activities of the Experiment Station relate directly to the environment; I think that we are doing a pretty good job. However, I am certain that our concerns and involvements must increase as time goes on.

I shall be looking forward to seeing everyone, and catching up on what is going on in your program areas.

Howard W. Ottoson

NEW ACCOUNT NUMBERING SYSTEM

In further pursuit of the objective of human domination by computers, our fiscal account designation system has been "simplified." On July 1, 1972, the University of Nebraska account numbering system was changed to an all numeric account number, thereby eliminating the "G" and "X" designations.

In order to maintain management capabilities of the "X" (now referred to as revolving) accounts, we have established an identifying digit in the new numbers and have set up separate numbers for each activity as we had in the past. For example, in the number 02-126-202-30, the first 2 of the third group is common to all revolving fund accounts for the Experiment Station in sub-program 02. This is not true for grant accounts (Sub-program 85, 86, or 87).

Three segments of our activity, USMARC, Tractor Testing, and Foundation Seed have been designated as cash auxiliary accounts to more accurately recognize their rather special nature. The redesignation of accounts does not change the activities for which the accounts were established or are to be used.

R. W. Kleis

PERSONNEL ACTIONS

Adams, Chas. H., - Acting Asst. Dir. of Res. Instruction, 1/2 time (Appt.)
Evans, B. M., - Asst. Prof. of Agr'l Econ. to Associate Prof. of Econ. (Transfer)
McGill, Lawrence - Asst. Prof. of Vet. Science (Appointment)

-over-

Resignations

Schmitz, John - Asst. Prof. of Vet. Science (Resignation) to Oregon
Semancik, Joseph - Asst. Prof. of Plant Path. (Resignation) to Calif.
Vidaver, Anne - Asst. Prof. of Plant Path. (Appointment)

GRANTS AND CONTRACTS

Burnside, Orvin C. - Agronomy - Mobil Chemical Company	\$ 1,000 ✓
Clanton, D. C.; Nichols, J.; and L. E. Lucas - N. P. Sta. - Neb. Livestock Found.	8,500 ✓
Coyne, Dermot P. - Hort. and Forestry - Green Giant Foundation	1,500
Danielson, David M. - North Platte Station - Diamond Shamrock Chemical Co.	1,700
Dickason, Elvis A. - Entomology - Eli Lilly and Company	500
Dickason, Elvis A. - Entomology - Mobil Chemical Company	1,500
Eastin, Jerry D. - Agronomy - Dekalb Foundation	5,000 ✓
Eastin, Jerry D. - Agronomy - Miscellaneous Donors	6,250 ✓
Fenster, C. R. - Scotts Bluff Station - Wheat Devel. Div. St. Dept. of Ag.	3,000 ✓
Fenster, C. R. - Scotts Bluff Station - Chevron Chemical Company	500
Anderson, J. W. Fenster, C. R. - Scotts Bluff Station - Great Western Sugar Company	4,500
Flowerday, A. D. - Agronomy - Chemagro	500 ✓
Froning, Glenn W. and Earl Gleaves - Poultry Science - Intl. Multifoods Corp.	1,000 ✓
Klopfenstein, Terry - Animal Science - Miscellaneous Donors	2,050 ✓
Klopfenstein, Terry - Animal Science - City of Omaha	10,000 ✓
Lagrone, William F. - Agricultural Economics - USDA, ERS	1,000
Lavy, T. L. - Agronomy - Geigy Agricultural Chemicals Company	500
Lucas, Leo E. - North Platte Station - Kiewit Foundation Fund	3,000 ✓
Olson, R. A. - Agronomy - Farmland Industries	3,600
Ottoson, Howard H. - Agricultural Experiment Station - ALCOA Foundation	1,000 ✓
Shahani, Khem M. - Food Science and Tech. - Dairy Research Inc.	1,500
Sullivan, Thomas W. - Poultry Science - Neb. Turkey Growers Cooperation Ass'n	500
Satterlee, L. D. and J. G. Kendrick - Food Science and Tech. - Neb. Alf. Dehy. Asso.	850
Twiehaus, Marvin J. - Veterinary Science - Dellen Laboratories	2,500
Twiehaus, Marvin J. - Veterinary Science - Hess and Clark	800

GENERAL NOTES

1. Ten years of impressive progress in development of the Field Laboratory was recognized at a recent luncheon program featuring Governor Exon. We move into the second decade with numerous further developments in progress.
2. The Sandhills Agricultural Laboratory is taking shape for researching problems relating to that region. Three small (40-50 acre) pivot irrigation systems are on site as is a solid-set system to provide for varied and controlled plot studies.
3. Numerous field days sponsored by Extension and research units have been programmed to present research results. These are time consuming but impressive and important to our mission. Our newest Station, South Central, had an excellent program August 22 based upon their already impressive research programs.
4. A committee has been established to develop recommendations on a successor to Dean Trotter. Members are Appleman (Agriculture), Arthaud (Extension), Kleis (Exp. Sta.), Thorpe (Teachers College), Lidolph (County) and Newkirk, Walker, Paul, Voss, Albus, Woodward and three students (Home Economics). Committee members would be glad to receive suggestions.
5. Silence gives consent.

R. W. Kleis

3447. Subjective Evaluation of Teat Canal Anatomy. Robert D. Appleman. Journal of Dairy Science.
3448. Accelerated Pork Processing. VI. Fresh-Frozen Pork Chops. L. C. Hinnergardt, R. W. Mandigo and J. M. Tuomy. Journal of Animal Science.
3449. Comparison of Expressed Goals and Simulated Behavior by Food Purchasers. Laura Darnell, Constance Kies and Orian Captain. Journal of Nutrition Education.
3450. Effect of Skin Content on Emulsifying and Color Characteristics of Mechanically Deboned Chicken Back Meat. G. W. Froning, L. D. Satterlee and Faye Johnson. Poultry Science.
3451. Effect of Chilling in the Presence of Polyphosphates on the Characteristics of Mechanically Deboned Fowl Meat. G. W. Froning. Poultry Science.
3452. Differential Response of Maize (Zea Mays L.) to Mass Selection in Diverse Selection Environments. Fernando Arboleda-Rivera and William A. Compton. Crop Science
3453. Educational Experiences Given to Newly Blinded Homemakers by Rehabilitation Teachers of the Blind. Carolyn A. Rainey and Lois O. Schwab. The New Outlook for the Blind.
3454. Specialization and Flexibility Considerations in a Polyperiod Firm Investment Model. Glenn A. Helmers, Gary W. Lentz and James G. Kendrick. American Journal of Agricultural Economics.
3455. Gain, Feed Conversion and Carcass Traits of Swine Fed Under Two Nutritional Regimes. P. J. Cunningham, T. E. Socha, E. R. Peo, Jr. and R. W. Mandigo. Journal of Animal Science.
3456. Soybean Water Use Efficiency and Turbulent Transport in the Shelter of a Slat-Fence Windbreak. David R. Miller, Norman J. Rosenberg and Walter T. Bagley. Agricultural Meteorology.
3457. Some Measurements of Urinary Pantothenic Acid Excretions of Alcoholic Patients. Helen G. Tao and Hazel M. Fox. Journal of Clinical Nutrition.
3458. Sequential Evaluation of the Effects of Methionine Supplementation of Legume Based Diets: Chemical Evaluation and General Methods. Matin Fatma, Constance Kies and Paul Mattern. Home Economics Research Journal.
3459. Sequential Evaluation of the Effect of Methionine Supplementation of Legume Based Diets: Sociological Evaluation. Matin Fatma, Constance Kies and Hazel M. Fox. Home Economics Research Journal.
3460. Sequential Evaluation of the Effect of Methionine Supplementation of Legume Based Diets: Human Biological Evaluation. Matin Fatma, Constance Kies and Hazel M. Fox. Home Economics Research Journal.
3461. Protein/Pantothenic Acid Interrelationships in Growing Rats. Helen Tao and Hazel M. Fox. Journal of Nutrition.
3462. Automated Total Nitrogen Analysis of Soil and Plant Samples. G. E. Schuman, M. A. Stanley and D. Knudsen. Soil Science Society of America Proceedings.
3463. Early Root and Shoot Development of Nine Plant Species. L. L. Evetts and O. C. Burnside. Weed Science.
3464. Solids Trap for Beef Cattle Feedlot Runoff. N. P. Swanson and L. N. Mielke. Transactions of the American Society of Agricultural Engineers.

ABSTRACTS

- 72-87. Effect of Burial Location and Exhuming Date on Germination of 13 Weed Species. L. L. Evetts, O. C. Burnside and C. R. Fenster. North Central Weed Control Conference Reserach Report.
- 72-88. Optimum Temperature for Germination and Seedling Development of Hemp Dogbane. L. L. Evetts and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-89. Susceptibility of Common Milkweed and Hemp Dogbane to 11 Herbicides. L. L. Evetts and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-90. Root and Top-Growth Characteristics of Six Weed and Crop Species. K. L. Burgert and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-91. Germination Characteristics of Five Milkweed Species. L. L. Evetts and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-92. The Optimum Temperature for Germination and Seedling Development of Black Nightshade. K. L. Burgert and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-93. Seed Weight and Germination of 25 Selections of Common Milkweed. L. L. Evetts and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-94. Depth of Emergence of Hemp Dogbane Seedlings. L. L. Evetts and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-95. Perennating Activity of Hemp Dogbane Seedlings. L. L. Evetts and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-96. The Effect of Soil Type and Depth of Planting on the Emergence of Black Nightshade. K. L. Burgert and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-97. Geological Nitrogen in Nebraska. E. C. Seim and R. A. Olson. Agronomy Journal.
- 72-98. Influence of Fertilizer Practices on Quality of Nebraska Water. R. A. Olson, John Muir and E. C. Seim. Agronomy Journal.
- 72-99. Influence of Weeds on Harvesting Efficiency in Soybeans. O. C. Burnside. Weed Science Society of America Proceedings.
- 72-100. Effect of DMSO on Herbicidal Activity. L. L. Evetts and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-101. Control of Common Milkweed. L. L. Evetts and O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-102. Oat Yields the Year Following Herbicide Applications on Sorghum. O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-103. Phytotoxicity of Bromacil in Different Asphalt Emulsion. O. C. Burnside. North Central Weed Control Conference Research Report.
- 72-104. Phytotoxicity of Various Herbicides Mixed in Asphalt. O. C. Burnside. North Central Weed Control Conference Research Report.