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UNIVERSITY OF NEBRASKA
COLLEGE OF AGRICULTURE
THE AGRICULTURAL EXPERIMENT STATION
E. F. FROLIK, DEAN
R. W. KLEIS, ACTING DIRECTOR

Agricultural Experiment Station



Vol. 6, Number 2, August 1972

FROM THE DIRECTOR'S OFFICE

Dr. Ottoson will return to his position as Director of the Nebraska Agricultural Experiment Station on September 1. I look forward to having him back in the front office and to working with him from "my own office." He will likely be sharing perspectives gained from his year of partial detachment. The result of his year of special duty will surely have continuing effect on University program development.

Dr. Cobb has provided most valuable and extensive administrative assistance to the Experiment Station during his year with us. His unique background and abilities have provided a strong and lasting input to our program. In addition he is a great fellow. We were fortunate to have him with us for a time and we wish him the best as he returns to CSRS, fortified (or weakened?) by his Nebraska experience.

I would express my appreciation for the fine cooperation of all AES staff and others during my "fill-in" year. It is a singular privilege to serve with an able dedicated staff of a vital research program supporting the primary industry of our state.

R. W. Kleis

PERSONNEL ACTIONS

The talents of one of our distinguished colleagues have been particularly recognized and rewarded by the appointment of Dr. Virginia Trotter as Vice Chancellor and Dean of Faculties of the University of Nebraska-Lincoln. We are most pleased, both for her and for the University. Dr. Hazel Anthony has been appointed Acting Dean and Dr. Patricia Sailor, Acting Associate Dean of the College of Home Economics.

Arnold, Roy G. - Asst. Dir. of Resident Instruction and Asso. Prof. of Food Science and Tech. to Acting Dir. of Resident Instruction; Acting Asso. Dean (apt.)
Bader, Kenneth L. - Dean of Student Affairs at Ohio U. to Post Vice Chancellor for Student Affairs at University of Nebraska - Lincoln (appointment)
Froning, Glenn W. - from Professor to Professor and Chairman of Poultry Science (apt.)
Holste, John E. - Asst. Prof. of Veterinary Science (courtesy appointment)
Irvine, Margaret Ann - Instructor in Home Economics Education (new appointment)
Koch, Robert M. - Professor of Animal Science (transferring to USMARC at Clay Center)
Koenig, Richard F. - Instructor in Agronomy (resignation)
Laging, Barbara M. - Assistant Professor of Textiles, Clothing and Design (resignation)
Lesmeister, John L. - Instructor in Animal Science (new appointment)
Smith, Shirley J. - Assistant Professor of Textiles, Clothing and Design (new apt.)
Steel, John C. - Associate Professor of Agri. Engineering (emeritus)
Young, Joseph O. - Professor and Chairman of Horticulture (return from assignment)
Zimmerman, Hugo J. - Associate Professor of Agricultural Economics, Ag. Ext. (new apt.)

GRANTS AND CONTRACTS

Arnold, Roy G. and R. Burt Maxcy - Food Science and Tech. - DHEW NIH	\$19,652
Brakke, Myron K. - Plant Pathology - ARS - USDA	36,000
Burnside, Orvin C. - Agronomy - Miscellaneous Donors	2,000
Campbell, John B. - North Platte Station - Shell Development Company	1,750
Campbell, John B. - North Platte Station - Stauffer Chemical Company	2,000
Campbell, John B. - North Platte Station - American Cyanamid Company	1,000
Danielson, David M. - North Platte Station - Shell Development Co.	3,000
Dickason, Elvis A. - Entomology - Miscellaneous Donors	1,100
Fenster, C. R. - Scotts Bluff Station - Monsanto Company	500
Flowerday, A. D. - Agronomy - Chemagro - A Division of Baychem Corp.	800
Hagen, Arthur F. - Scotts Bluff Station - Chemagro, A Division of Baychem Corp.	750
Klopfenstein, Terry J. - Animal Science - Farmland Industries	3,500
Klopfenstein, Terry J. - Animal Science - Miscellaneous Donors	3,100
Klopfenstein, Terry J. - Animal Science - Wheat Dev. Div. Dept. of Agri.	8,600
Lavy, T. L. - Agronomy - Amchem Products, Inc.	350
Lavy, T. L. - Agronomy - Herman Frasch Foundation	50,000
Lavy, T. L. - Agronomy - Water Resources Research Inst.	7,500
Manbeck, D. M. - Agricultural Engineers - Water Resources Research Inst.	9,200
McCalla, Thomas M. - Agronomy - USDA, ARS, Soil and Water Conservation	18,000
O'Keefe, Robert B. - Hort. and Forestry - Potato Devel. Div. - St. Dept. of Agr.	1,000
Olson, R. A. - Agronomy - Water Resources Research Inst.	46,100
Rosenberg, Norman J. - Hort. and Forestry - National Oceanic and Atmospheric Adm.	30,144
Sander, D. H.; Peterson, G. A. & Louis A. Daigger - Agronomy - Nebr. Dept. of Ag.	10,320
Schmidt, J. W.; Mattern P. J. and V. A. Johnson - Agronomy - Nebr. Dept. of Ag.	12,000
Semancik, J. S. and Anne K. Vidaver - Plant Pathology - DHEW NIH	64,835
Splinter, W. E. - Agricultural Engineering - Food and Ag. Org. of UN	25,100
Steadman, J. R. - Plant Pathology - Water Resources Research Inst.	32,544
Sullivan, C. Y. - Hort. and Forestry - Water Resources Research Inst.	9,000
Sullivan, Thomas W. - Poultry Science - Miscellaneous Donors	1,220
Sullivan, Thomas W. - Poultry Science - American Hoechst Corporation	5,000
Trotter, V. Y. - College of Home Economics - Univ. of Nebraska Foundation	15,000
Wicks, Gail A. - North Platte Station - Miscellaneous Donors	1,500
Wittmuss, H. D. - Agricultural Engineering - Water Resources Research Inst.	8,300
White, R. G. - North Platte Station - Smith Kline and French Laboratories	500

GENERAL NOTES

1. The selection of an Architect for the Veterinary Science Building has been approved by the Board of Regents.

ALOHA

I want to express my appreciation for the assistance and cooperation which I have received during my year in Nebraska. I have been impressed by the research program, the quality and dedication of the station administration and staff, and the potential for continued growth in agriculture. Hopefully the experience that I have gained here will enable me (and CSRS) to do a better job in providing assistance to the Agricultural Experiment Stations of the U.S.A.

Estel H. Cobb

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - July 1972

3430. An Analysis of Reproductive Traits in Beef Cattle. D. D. Dearborn, R. M. Koch, L. V. Cundiff, K. E. Gregory and G. E. Dickerson. *Journal of Animal Science*.
3431. The Specific Heat and Thermal Conductivity of Grain Sorghum. D. K. Sharma and T. L. Thompson. *Transactions of American Society of Agricultural Engineers*.
3432. Immunochemical Studies on the Milk Lysozymes. R. R. Eitenmiller, Beverly A. Friend, K. M. Shahani and Ellen Ball. *Biochim. Biophys. Acta*.
3433. Cell Culture Studies of a Neonatal Calf Diarrhea Virus. Ardyce B. Welch and M. J. Twiehaus. *Canadian Journal of Comparative Medicine*.
3434. Physicochemical Characterization of a Neonatal Calf Diarrhea Virus. Ardyce B. Welch and T. L. Thompson. *Canadian Journal of Comparative Medicine*.
3435. Ammonia Nitrogen Losses From Newly Plowed Native Sods. M. Hooker, G. A. Peterson and D. H. Sander. *Soil Science Society of America*.
3436. Accelerated Pork Processing. VII. Freeze-Dried Pork Chops. L. C. Hinnergardt, R. W. Mandigo and J. M. Tuomy. *Journal of Animal Science*.
3437. The Effect of Pre-Chill Pork on Flaked, Formed, and Sectioned Pork Products. K. R. Hansen and R. W. Mandigo. *Journal of Animal Science*.
3438. Accelerated Pork Processing: Prototype Methods and Results. T. L. Thompson and R. W. Mandigo. *Transactions of American Society of Agricultural Engineers*.
3439. Chicken Transferrin: High Levels in Chickens with Reticuloendothelial Virus Disease. A. Torres-Medina, H. C. Mussman, M. B. Rhodes and M. J. Twiehaus. *Poultry Science*.
3440. The Effect of Grinding Versus Flaking on Porcine Muscle. M. S. Chesney and R. W. Mandigo. *Journal of Animal Science*.
3441. Comparisons of Dry Breakfast Cereals as Protein Resources: Human Biological Assay at Equal Intakes of Cereal. Constance Kies and Hazel Metz Fox. *Cereal Chemistry*.
3442. Comparison of Urea and Diammonium Citrate as Sources of Non-specific Nitrogen for Human Adults. Constance Kies and Hazel M. Fox. *Journal of Nutrition*.
3443. Immediate Post Mortem Effects on the Physical Properties of Porcine Muscle. Kenneth Meier, T. L. Thompson and Roger Mandigo. *Transactions of American Society of Agricultural Engineers*.
3444. Nature and Cause of a Yellow Film Occuring on Milk Handling Equipment. R. B. Maxcy. *Journal of Dairy Science*.
3445. Calf Diarrhea of Viral Etiology. Charles A. Mebus, E. L. Stair, M. B. Rhoes, N. R. Underdahl and M. J. Twiehaus. *Symposium on Physiology and Digestive Pathology of the Newborn Calf*.
3446. Genetic Control of the Reaction to Common Blight Bacteria (*Xanthomonas phaseoli*) in Relation to Stage of Plant Development and Bacterial Multiplication in Beans (*Phaseolus vulgaris* L.). D. P. Coyne, M. L. Schuster and K. Hill. *The Journal of the American Society for Horticultural Science*.

ABSTRACTS

- 72-68. Efficacy of Virginamycin in Prevention of Swine Dysentery. D. M. Danielson and R. G. White. Abstract for American Society of Animal Science.
- 72-69. Loxon Feed Additive as an Anthelmintic in Swine. R. G. White, D. M. Danielson, D. R. Ferguson and C. M. Hibbs. Abstract for American Society of Animal Science.
- 72-70. Physiologic Maturity in Grain Sorghum. J. D. Eastin, J. H. Hultquist and C. Y. Sullivan. American Society of Agronomy.
- 72-71. Seedling Growth of Sorghum in Clay-Sand Mixtures at Various Compactions and Water Contents. D. L. Hemsath and A. P. Mazurak. American Society of Agronomy.
- 72-72. Fertilizer Induced Changes in the Yield, Forage Quality and Botanical Composition of an Irrigated Grass-Legume Forage Mixture. G. W. Rehm, W. J. Moline, J. R. Nichols and R. C. Sorensen. 1972 Agronomy Abstracts.
- 72-73. A Temperature Gradient Sand Bath for Seed Germination and Plant Growth Studies. M. D. Clegg. Agronomy Abstracts.
- 72-74. HSD as a Source of Nitrogen and Roughage. Larry L. Erlinger and Terry Klopfenstein. Abstract for American Society of Animal Science.
- 72-75. Whey in Urea Supplemented Corn Silage Rations. Kern Hendrix and Terry Klopfenstein. Abstract for American Society of Animal Science.
- 72-76. Sodium Hydroxide Treatment of Crop Residues. Walter Koers, Michael Prokop and Terry Klopfenstein. Abstract for American Society of Animal Science.
- 72-77. Disposal of Beef Feedlot Runoff on Corn. C. L. Linermand and N. P. Swanson. American Society of Agronomy Abstracts.
- 72-78. Effect of Level and Form of Dehy in Cattle Finishing Rations. W. W. Schnieder and T. J. Klopfenstein. Abstract for American Society of Animal Science.
- 72-79. Response of Lambs Fed Pressure Treated Wheat Straw. N. N. Umunna and Terry Klopfenstein. Abstract for American Society of Animal Science.
- 72-80. The Isolation and Characterization of a New Factor, and Its Stimulation of Chloroplasts Activity. Fumio Yoshikawa and Charles Y. Sullivan. Agronomy Abstracts.
- 72-81. Performance of Hybrids Involving Selected S₂ Lines from Hays Golden and Mass-selected Populations of Corn. C. O. Gardner. Agronomy Journal.
- 72-82. Relationship Between Claw Dimension, Injury and % Slatted Floor in G-F Pigs. R. D. Fritschen, P. J. Cunningham and W. T. Ahlschwede. Midwestern Section-Abstract for American Society of Animal Science.
- 72-83. Influence of Gain and % Slatted Floor on Bone Breaking Strength in G-F Swine. R. D. Fritschen, E. R. Peo, Jr. and P. J. Cunningham. Midwestern Section-Abstract for American Society of Animal Science.
- 72-84. Effect of Estrogen-Progestogen Implants on Weight Gain and Pelvic Size in Beef Heifers. John L. Lesmeister, Earl F. Ellington and James E. Kinder. Journal of Animal Science.
- 72-85. Wheat Production with Zero Tillage. C. R. Fenster and Gail Wicks. Abstract for 1972 American Society of Agronomy.
- 72-86. Influence of Repeated Defoliation on Yield and Yield Components of Zea mays L. J. J. Vorst and W. L. Colville. Agronomy Journal.