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Agricultural Experiment Station News May 1972

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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. 4, Number 11, May 1972

FROM THE DIRECTOR'S DESK

County Agents have both a need and a reasonable expectation to be made aware of College of Agriculture program-activities in their counties. They are staff colleagues with specific program responsibilities and relationships to the people and organizations in a county. It is important to them and to us all that they not be caught "off guard" by our activities in their area. This is not a process of seeking approval of the Agent, but is basically a professional courtesy to an institutional colleague.

While their specific program responsibilities relate to Extension, their public appropriately regards them as representatives of all agricultural and/or home economics' programs of the University. This of course includes activities of research, testing, demonstration, etc., conducted at off Station facilities by Experiment Station staff.

If the Agent is to have any involvement in arrangements for, conduct of, or follow up on the activity, he should be brought in on the early planning. Whether or not your objectives require his involvement, there may be opportunity for "greater mileage" through also relating it to his program. Let us not let terms like "extension" or "research" interfere with team effort in serving agriculture.

* * *

The major reorganization of the Agricultural Research Service, USDA is unfolding. The traditional 15 Divisions, over 50 Branches and 4 Deputy Administrators are being superceded by a new "simple line and staff organization" effective July 1, 1972.

The Administrator's (T. W. Edminster) immediate national staff will consist of two staff groups: (1) four Assistant Administrators with staff specialists for program development, evaluation and coordination and (2) a small Business Administration staff under a Deputy for Administration Management.

The line research administration authority steps directly from the Administrator to a "Regional Deputy Administrator" in each of four regions corresponding to the four Experiment Station regional groups. Nebraska is in the North Central Region with Mr. Earl R. Glover designated as our Regional Deputy Administrator (Dr. S. C. King, Sr., A. W. Cooper and Dr. H. R. Thomas will head the Northeast, Southern and Western regions respectively).

Within each region there will be several "Areas" (usually consisting of 2 to 4 states) with designated "Research Area Directors" with leadership responsibility for programs within that area. Our area is Kansas and Nebraska with Dr. Keith Gregory, Director of the MARC at Clay Center, being designated as our Research Area Director. He will have continued responsibility for directing MARC and will be naming an Assistant for Area administration. There is every indication that this new structure will indeed simplify our administrative associations and transactions with ARS.

R. W. Kleis

GRANTS AND CONTRACTS

Anderson, Frank A. - Scotts Bluff Station - John R. Jirton Foundation, Inc.	\$5,000
Baker, Maurice E. - Agricultural Economics - Salt Valley Watershed District	1,000
Ball, Harold J. - Entomology - Chevron Chemical Company	2,500
Borchers, R. L. - Biochemistry and Nutrition - National Institutes of Health	6,105
Burnside, Orvin C. - Agronomy - Monsanto Company	1,500
Burnside, Orvin C. - Agronomy - Geigy Agricultural Chemicals	1,500
Burnside, Orvin C. - Agronomy - Diamond Shamrock Chemical Co.	500
Burnside, Orvin C. - Agronomy - Shell Development Company	500
Clanton, Donald C. - North Platte Station - Nebraska Alfalfa Dehydrators Asso.	3,500
Dickason, Elvis A. - Entomology - Chevron Chemical Company	2,500
Fenster, C. R. - Scotts Bluff Station - U. S. Borax Res. Corporation	500
Fenster, C. R. - Scotts Bluff Station - Monsanto Company	500
Fenster, C. R. - Scotts Bluff Station - Shell Oil Company	1,000
Hagen, Arthur F. - Scotts Bluff Station - E. I. Du Pont De Nemours & Co.	500
Hartung, T. E. - Food Science and Technology - USDA	7,616
Klopfenstein, Terry - Animal Science - Metro-Life Livestock Feeds, Inc.	1,000
Klopfenstein, Terry - Animal Science - Nebraska Livestock Foundation	9,500
Martin, Alex R. - Agronomy - Monsanto Company	500
Olson, Robert A. - Agronomy - Deere and Company	4,500
Stair, E. L. - Veterinary Science - Merck & Company	9,100
Twiehaus, M. J. - Veterinary Science - Eli Lilly and Company	1,300
Wicks, Gail A. - North Platte Station - Monsanto Co.	1,000

PERSONNEL ACTIONS

Gerald Moline will be the Manager of the new Sand Hills Agricultural Laboratory at Tryon, Nebraska effective May 8. John Bishop will replace him as Manager of the High Plains Agricultural Laboratory at Sidney.

Since the Board of Regents has not met since the last newsletter, we are unable to report additional personnel actions.

GENERAL NOTES

1. The 10th anniversary of the establishment of the University of Nebraska Field Laboratory, Mead will be celebrated in conjunction with the 21st annual Tractor Power and Safety Day at the laboratory, Thursday, July 20. It is hoped that Earl Butz, Secretary of Agriculture, USDA will be able to attend.
2. Hazel Anthony, Associate Dean of Home Economics, was named an Honorary member of Mortar Board on Spring Day. Leo Lucas, Superintendent of the North Platte Station, was honored recently for "Outstanding Service to the Pork Industry 1972" by the National Hog Farmer.
3. We wish to remind you that all budget and data forms and other documents relating to research grants, contracts, and cooperative agreements should be channeled through this office for review and approval en route to Dr. Francis L. Schmehl, Research Administrator.

R. W. Kleis
E. H. Cobb

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - April 1972

3373. Broadcast or Banded Atrazine-Propachlor with Tillage Variables in Corn. R. S. Moomaw and L. R. Robison. Weed Science Journal.
3374. The Effect of pH and Certain Additives on Heat Denaturation of Turkey Meat Myoglobin I. Model System. D. M. Janky and G. W. Froning. Poultry Science.
3375. Insect Control Possibilities Using Electromagnetic Energy. S. O. Nelson. Cereal Science Today.
3376. Genetic and Phenotypic Relations Associated with Prewaning and Postweaning Growth of Hereford Bulls and Heifers. R. M. Koch, L. V. Cundiff, K. E. Gregory and G. E. Dickerson. Journal of Animal Science.
3377. Protein Synthesis During Fungal Spore Germination VII. Differential Protein Synthesis During Germination of *Botryodiplodia theobromae* Spores. J. L. Van Etten, Henry R. Roker and Eric Davies. Journal of Bacteriology.
3378. Selective Control of Weeds in Soybeans with Postemergence-directed Herbicides. R. G. Wislon, Jr. and O. C. Burnside. Weed Science Journal.
3379. A Simple Technique for Selective Light and Electron Microscopy of Flat Embedded Tissues and in situ Grown Cells. Willem G. Langenberg, Helen F. Schroeder, Ardyce B. Welch and Gilbert E. Cook. Stain Technology.
3380. Construction Requirements and Cost Analysis of Grassed Backslope Terrace Systems. Howard Wittmuss Transactions of American Society of Agricultural Engineers.
3381. A Heavy Duty Tree Planting Machine. Walter T. Bagley. Tree Planters' Note.
3382. Microclimate Modification by Shelterbelts. David R. Miller, Walter T. Bagley and Norman J. Rosenberg. Forest Science.
3383. Field Trials to Control European Corn Borer With Insecticides. Richard N. Wedderburn, J. D. Munson and J. L. Wedberg. Journal of Economic Entomology.
3384. Physiologic Maturity in Grain Sorghum. Jerry D. Eastin, Joe H. Hultquist and C. Y. Sullivan. Crop Science.
3385. Registration of Three Sorghum Germplasm Random-Mating Populations. P. T. Nordquist, O. J. Webster, C. O. Gardner and W. M. Ross. Crop Science.

ABSTRACTS

- 72-23. Mustard Meal Diets for Growing-Finishing Swine. H. L. Peterson and D. M. Danielson. American Society of Animal Science Proceedings.
- 72-24. The Effect of Terramycin, Penicillin, Bacitracin and Sulfaquinoxaline on the Biotin Requirement of Starting Turkeys. D. P. Holder and T. W. Sullivan. Poultry Science.
- 72-25. Effect of Branched-Chain VFA on Urea Utilization. N. N. Umunna, Walter Woods and Terry Klopfenstein. Journal of Animal Science.
- 72-26. The Effects of Power Cleaver Vs. Power Say for Cutting Bone-In Pork Loins. J. A. Kintner and R. W. Mandigo. Journal of Animal Science.

- 72-27. Effect of Salt Content and Flaking Temperature on Flaked, Formed and Sectioned Meat Products. R. W. Mandigo, K. R. Hansen and M. S. Chesney. Journal of Animal Science.
- 72-28. Combinations of Proteins and Urea. N. N. Umunna, Sumer Hasimoglu, Walter Woods and Terry Klopfenstein. Journal of Animal Science.
- 72-29. Fat and Hydroxide Additions to Wheat Rations. William Fulton, Terry Klopfenstein, Walter Woods and Larry Varner. Journal of Animal Science.
- 72-30. High Protein Dehydrated Alfalfa as a Protein Source. Vernon Krause and Terry Klopfenstein. Journal of Animal Science.
- 72-31. Response of Lambs Fed Pressure Treated Corn Cobs. N. N. Umunna, Terry Klopfenstein and Keith Bolsen. Journal of Animal Science.
- 72-32. Deoxyribonucleic Acid Polymerase from *Rhizopus Stolonifer*. C. Gong, L. D. Dunkle and J. L. Van Etten. Phytopathology.
- 72-33. Differential Synthesis of Proteins During the Germination of Botryodiplodia Theobromae Spores. J. L. Van Etten, H. J. Roker and E. Davies. Phytopathology.
- 72-34. Characteristics of an Electrophoretic Mutant of Cowpea Mosaic Virus. G. D. McLean, J. B. Dixon and J. S. Semancik, Phytopathology.
- 72-35. Fine Structure of Porcine Oviducal Epithelium During Early Pregnancy. R. K. Nayak and Dwane R. Zimmerman. Journal of Animal Science.
- 72-36. Serum LH Levels and Structural Alterations in Testosterone-treated Female Rats. E. F. Ellington and R. B. Osland. Journal of Animal Science.
- 72-37. Cyclic Structural Changes in Bovine Oviductal Epithelium. R. K. Nayak and E. F. Ellington. Journal of Animal Science.
- 72-38. Maintenance Levels of Protein and Energy Voluntarily Consumed by Laying Hens. Earl W. Gleaves and Harlan Hochstetler. Poultry Science.
- 72-39. Safety and Toxicity of the Dietary Carbarsone, Nitarsone and Roxarsone Relative to Performance of Young Turkeys. T. W. Sullivan and Ali A. Al-Timimi. Poultry Science.
- 72-40. Interrelationship of Dietary Vitamin D₃ with Zinc and Iron in Young Turkeys. T. W. Sullivan and Ayhan Aksoy. Poultry Science.
- 72-41. The Effect of pH and Certain Additives on Heat Denaturation of Turkey Meat Myoglobin in Model and Meat Systems. D. M. Janky and G. W. Froning. Poultry Science.
- 72-42. Effect of Polyphosphate Chilling on the Characteristics of Mechanically Deboned Fowl Meat. G. W. Froning. Poultry Science.
- 72-43. Effect of Skin Content on Emulsifying and Color Characteristics of Mechanically Deboned Back Meat. G. W. Froning. Poultry Science.
- 72-44. Analysis of the 1971 Ak-Sar-Ben 4-H Beef Carcass Contest. R. W. Mandigo, K. R. Hansen and R. L. Kracke. Journal of Animal Science.
- 72-45. Specificity of In Vitro Reconstitution in Tobacco Rattle Virus. T. J. Morris and J. S. Semancik. Phytopathology.