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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



Vol. 8, No. 2, August 1975

FROM THE ACTING DIRECTOR'S DESK

Comments about Regional Research: About 25 percent of all NAES projects are contributing to regional projects in which several states are cooperating in jointly planned research. Most of these 50 regional projects are of the "North Central" region but we also participate in a few selected projects of the Southern, Western, and Northeast regions. Federal regional research funds are provided to the Station to be allocated to support Nebraska projects contributing to federally approved regional projects. Not all contributing projects receive regional fund allocations (about 40 projects receive some RRF support) but they that do not are no less "regional". Regional funds to projects having allocations represent a small portion of the total funding of the projects. Twenty percent of each state Station's regional research funding must be used for "marketing" related research.

The real purpose of regionally planned and executed research is multi-state coordination and cooperation to increase total research output and effectiveness. It provides for communication of scientists working in similar areas to: (1) prevent unnecessary duplication or repetition, (2) pooled scientific competence in planning research and interpreting results and (3) broadened and/or accelerated investigations involving several researchers in a joint effort. Thus, while supplemental funding is important, regional projects and committees should not be regarded as automatic funding mechanisms but rather as opportunities for enhanced research efficiency.

There are a few special regional committees but the primary categories are:

- NC-XX (about 50) - numbered subject matter committees and projects approved for use of regional funds at the discretion of each Station Director.
- NCR-XX (about 45)- research planning and coordinating committees of common interest scientists but not involving a regional project or funding authorization except for meeting expenses.
- NCA-XX (about 15)- Department Chairmen committees for research needs evaluation, priorities establishment and regional project recommendations.

The role of our representative on any of these committees is most important. It is to represent all relevant staff and programs of the Station as inputs to the committee and to provide for feedback from the committee to all who would benefit.

PERSONNEL ACTIONS

- Baxter, W. Neal - Acting District Director, North Platte Station District II (Appt.)
- Elliott, Lloyd F. - Assoc. Prof. of Agronomy--Courtesy (Resignation)
- Gingles, Ruby H. - Professor of Human Development and the Family (Retirement)
- Goodding, Richard D. - Agr'l Engineering Ext. Specialist--Youth Safety (Appointment)
- Pohl, Stephen H. - Instr. & Dist. Ext. Specialist, Agr'l Engineering--NE Sta. (New Appt.)
- Schuman, Gerald E. - Assistant Prof. of Agronomy--Courtesy (Resignation)

GRANTS AND CONTRACTS

Anderson, D. G. - Agricultural Economics - USDA, ERS	\$15,000
Anderson, F. N. - Agronomy (PH Sta.) Grower-G. W. Joint Research Committee Inc.	6,000
Burnside, O. C. - Agronomy - Chemagro	1,200
Burnside, O. C. - Agronomy - Stauffer Chemical	1,000
Burnside, O. C. - Agronomy - BASF Wyandotte Corporation	1,000
Burnside, O. C. - Agronomy - Rohm and Hass Company	500
Burnside, O. C. - Agronomy - Amchem Products	750
Burnside, O. C. - Agronomy - Hercules Incorporated	500
Campbell, J. B. - Entomology (NP Sta.) - FMC Corporation	500
Clanton, D. C. - Animal Sci. (NP Sta.) - International Minerals & Chemicals Corp.	2,000
Evans, T. A. & K. M. Shahani - Food Science and Technology - Microlife Technics, Inc.	800
Fenster, C. R. - Agronomy (PH Sta.) - Chevron Chemical Company	500
Fenster, C. R. - Agronomy (PH Sta.) - Shell Development Company	1,000
Kerr, E. D. - Plant Pathology (PH Sta.) - Hooker Chemical Corporation	1,000
Kies, C. & H. M. Fox - Food and Nutrition - Ross Laboratories	13,000
Kindler, S. D. - Entomology - Velsicol Chemical Corporation	500
Mandigo, R. W. - Animal Science - USDA, ARS	7,020
Mayo, Z. B. - Entomology - Chemagro	1,200
O'Keefe, R. B. - Horticulture - Diamond Shamrock Chemical Company	500
Olson, L. L. & J. A. DeShazer - Agricultural Engineering - USDA, ARS	30,000
Peters, L. L. - Entomology (SC Sta.) - Chemagro	1,000
Peters, L. L. - Entomology (SC Sta.) - Miscellaneous Donors	700
Shahani, K. M. & L. B. Bullerman - FS&T - Gist-Brocades Industrial Products	10,000
Shearman, R. C. - Horticulture - Miscellaneous Donors	950
Steadman, J. R. - Plant Pathology - Olin Corporation	1,000
Wilson, R. G. - Agronomy (PH Sta.) - CIBA-Geigy	600
Wilson, R. G. - Agronomy (PH Sta.) - U. S. Borax Research	750
Wilson, R. G. - Agronomy (PH Sta.) - Chevron Chemical Company	1,000

GENERAL NOTES

1. Special congratulations to Dr. Leo Lucas on his appointment as Dean and Director of the Cooperative Extension Service. We look forward to working with him in that new role and to continued close coordination of research and extension. Congratulations also to Dr. Breckenridge as Vice Chancellor for Academic Affairs.
2. Congratulations to Don Clanton, Warren Sahs, Marv Twiehaus, Dermot Coyne, Vince Arthaud and Max Schuster for high recognition and awards recently conferred by their respective national professional societies.
3. Please be reminded that all journal article manuscripts should be submitted with movement of copy forms for approval and number assignment. This is not a long or challenging process and it does permit keeping a complete record of this important segment of Station output.
4. Students will soon be returning and traffic and parking needs will be increased. Please make maximum use of the "parking compound" for state owned vehicles in order to free close-in spaces for more active parking needs.
5. The Board of Regents has designated architects for both the Plant Sciences Complex and the South Central State Headquarters building. Planning and design is getting under way.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - July 1975

Journal Articles (contact authors for more information)

4019. Infiltration on a Cattle Feedlot. L. N. Mielke and A. P. Mazurak.
4020. Blending and Evaluating Added Food Proteins for Specific Functional and Nutritional Properties. A. Stark, L. D. Satterlee and J. G. Kendrick. Journal of Food Product Development.
4021. Fate of Post-Cooking Microbial Contaminants of Some Major Menu Items. R. Burt Maxcy. Journal of Food Science.
4022. Examination of Swiss Cheese for Incidence of Mycotoxin Producing Molds. L. B. Bullerman. Journal of Food Science.
4023. Reovirus-Like Calf Enteritis. C. A. Mebus. American Journal of Digestive Diseases. 1975 (in press)
4024. Syndactyly in Holstein-Friesian, Hereford, and Crossbred Chianina Cattle. S. A. Ojo, H. W. Leipold, M. M. Guffy and C. M. Hibbs. Journal of the American Veterinary Medical Association. v166 (6):607-609, March, 1975.
4025. A Sterol Methyltransferase from Bean Rust Uredospores, *Uromyces phaseoli*. Hung-Kuang Lin and Herman W. Knoche. Journal Phytochemistry.
4026. Nitrogen in Subsurface Discharge from Agricultural Watersheds. R. E. Burwell, G. E. Schuman, K. E. Saxton and H. G. Heinemann. Journal of Environmental Quality.
4027. Extracting Nitrates from Ground Water with Corn. Paul E. Fischbach, H. R. Mulliner and Ken Frank. Transactions of the ASAE.
4028. The Relationship Between Soil-borne Wheat Mosaic Virus and Tobacco Mosaic Virus. Charles A. Powell. Virology.
4029. Effect of Prepuberal Estrogen-Progestogen Administration on Weight Gain, Pelvic Size and Fertility in Beef Heifers. John L. Lesmeister and Earl F. Ellington. Journal of Animal Science.
4030. Properties of Agricultural and Municipal Wastes. T. M. McCalla, J. R. Peterson and C. Lue-Hing. SSSA Symposium, "Soils for Management and Utilization of Organic Wastes and Waste Waters."
4031. A Nutrition Workshop for Home Economics Teachers. Alice Henneman, Hazel Fox and Shirley Kreutz. Journal of Nutrition Education.
4032. Soil Compaction in Eastern Nebraska After 25 Years of Cattle Grazing Management and Weed-Control. M. K. McCarty and A. P. Mazurak. Society of Range Management.
4033. The Physician As A Nutrition Educator. Tama O. Krause and Hazel M. Fox. The Nebraska Medical Journal.
4034. Ultrastructure of Bacteriophage $\phi 6$: Arrangement of the Double Stranded RNA and Lipid Envelope. C. F. Gonzalez, W. G. Langenberg, J. L. Van Etten and A. K. Vidaver. Journal of Virology.

Journal Abstracts (contact authors for more information)

- 75-464. Protein and Lysine Contents of Whole Grain, Endosperm, and Bran of the Parents and Progenies of High Protein and/or High Lysine Crosses of Common Wheat. K. P. Vogel, V. A. Johnson and P. J. Mattern. Agronomy Abstracts.
- 75-465. Management and Supplementation of Standing Crop Residues. L. J. Perry and John Ward. Agronomy Abstracts.
- 75-466. Animal Wastes as Sources of Heavy Metals When Applied to Soils for Crop Production. Dr. Leon Chesnin. Proceedings of Fifteenth Hanford Life Sciences Symposium.
- 75-467. Relationship of Microclimate and White Mold Disease in Dry Bean Crops as Influenced by Irrigation and Canopy Structure. Blaine L. Blad and James R. Steadman. Agronomy Abstracts.
- 75-468. Time and Rate of Fertilizer Application for Seeded Warm-Season and Native Prairie Grasses. I. Yield and Botanical Composition. G. W. Rehm, R. C. Sorensen and W. J. Moline. Agronomy Abstracts.
- 75-469. Time and Rate of Fertilizer Application for Seeded Warm-Season and Native Prairie Grasses. II. Forage Quality and Nutrient Content. R. C. Sorensen, G. W. Rehm and W. J. Moline. Agronomy Abstracts.
- 75-470. Fungi Associated with the Temporary Storage of High Moisture Shelled Corn Using Aeration. Ben Doupnik, Jr. and Thomas L. Thompson. Annual Proceedings, American Phytopathological Society.
- 75-471. Nitrate Reductase Activity of Field Grown Turfgrasses. E. J. Kinbacher and Jerry Francis. Agronomy Abstracts.
- 75-472. The Emphasis Placed on the Appearance and Dress of Public Service Employees in a Selected Business by the Management, Employees and Clientele. Dr. Audrey Newton and Rita McKenna Kean.
- 75-473. Cytokinin Like Activity of Organic Sulfur Compounds as Measured by Sorghum Callus Growth. M. D. Clegg, H. M. Nadar and J. W. Maranville. Plant Physiology, 1975 Abstracts.
- 75-474. Comparative Measures of Mirid Damage on Alfalfa Forage. J. L. Kugler, W. R. Kehr and R. L. Ogden. Central Alfalfa Improvement Conference.
- 75-475. Nutrient Density Perspectives of Cereals in Human Diets. Constance Kies. Cereal Foods World.
- 75-476. A Q-Study of Young Homemakers' Views of Clothing Resources. Kathleen Kokes Sullivan. Master's Thesis.

BULLETINS PRINTED

- SB 536. Evaluation, Winter Protection, & Disease Studies of Roses. S. S. Salac and L. T. Palmer.