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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

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Vol. 7, No. 8, February 1975

THE NEBRASKA AGRICULTURAL EXPERIMENT STATION

It may be informative and useful to all associated with the Nebraska Agricultural Experiment Station to note some descriptive general facts about our organization and its operation.

1. The term "Station" in our title is singular. There is only one Agricultural Experiment Station in each state except Connecticut and New York which have two each. We tend to confuse this ourselves by our "district stations" terminology but they are, of course, components of the one Nebraska Agricultural Experiment Station.
2. The NAES has a staff of about 205 scientists (Assistant Professor and above) of which all but 29 also have teaching and/or extension appointments. The full time equivalent scientific staff is about 130 (SMYs).
3. The support staff totals about 425 FTEs (all non-professional categories including hourly labor).
4. Research is conducted under about 225 active projects of which 45 are regional and involve other states' Stations.
5. The total Station research budget last year was slightly over \$9.1 million and was derived from the following sources: Federal formula funds--14%; state general funds--47%; cash revolving funds--25%; and grants, gifts, contracts, agreements and endowments--14%.
6. The general category usage of the \$9.1 million was as follows: Salaries, wages and benefits--62%; supplies and services--32% and equipment and improvements--6%. These percentages are greatly influenced by revolving funds in a few programs. The appropriated (hard) funds were used in corresponding percentages of 83, 12, and 2.
7. In addition to the above budget figures, the Station administers "Agency revolving funds" of \$2.6 million (FY 1974) including MARC, Tractor Testing and the Foundation Seed Division. These funds are all self-generated.

FORESTRY CHAIRMAN

Dr. Mitchell D. Ferrill has accepted the Chairmanship of our newly established Department of Forestry. He will also be State Forester. Dr. Ferrill comes to us from the University of Connecticut where he has developed and headed the Natural Resources department. Originally from southern Illinois, he earned his B.S. from Missouri (1957), his M.F. from Louisiana State University (1958) and his D.F. from Duke University (1963). He has an impressive record of professional accomplishment and varied experience.

Dr. and Mrs. (Martha) Ferrill and their three children will be joining us in Nebraska about June 1.

PERSONNEL ACTIONS

Dornhoff, Gary M. - Assistant Professor of Agronomy, South Central Sta. (resignation)
Fonken, David W. - Assistant Professor of Agr'l Engineering, Panhandle Sta. (resignation)
Hamilton, Rickey A. - Assistant Professor of Agronomy (new appointment)
Harlan, Phillip W. - Assistant Professor of Agronomy (new appointment)

Lane, Leslie C. - Assistant Professor of Plant Pathology (new appointment)
Newell, Lawrence C. - Professor of Agronomy--Emeritus (retirement)
Roeth, Fred W. - Assistant Professor of Agronomy, South Central Sta. (new appointment)
Viessman, Warren - Director, Water Resources Research Institute (resignation)

GRANTS AND CONTRACTS

Anderson, F. N. - Agronomy (PH Sta.) - Grower-G.W. Joint Research Comm.	6,600
Bullerman, L. B. - Food Science and Technology - PHS, NIH	12,985
Grabouski, P. H. - Agronomy (NP Sta.) - Nebraska Crop Improvement Assn.	2,500
Klopfenstein, T. - Animal Science - Liquid Feed Commodities Inc.	8,359
Mayo, Z. B. - Entomology - Dow Chemical Company	850 ✓
McCarty, M. K. - Agronomy - Dow Chemical Company	1,500 ✓
Nelson, L. A. - Agronomy (PH Sta.) - Nebraska Crop Improvement Assn.	2,500
Nordquist, P. & Grabouski P. - Agron. (NP Sta.) - Grower-G.W. Joint Res. Comm.	3,000
Rehm, G. W. - Agronomy (NE Sta.) - Dow Chemical Company	1,000 ✓
Shahani, Khem M. - Food Science and Tech. - J. Gordon Roberts Investments	6,000
Twiehaus, M. J. - Veterinary Science - Eli Lilly et al	4,530 ✓

GENERAL NOTES

1. Dr. Irvin Omtvedt, Chairman of Animal Science, is now on the job and with his family is getting settled in their new home at 8121 Imperial Circle. Welcome to Nebraska.
2. Correction--The indirect cost charged against grants for campus based projects is 63.49% of salaries and wages rather than 63.59% as listed in last month's letter.
3. The search screening committee for replacement of Dr. Viessman as Director of the WRRRI has fourteen members including Drs. Lucas, Splinter, Swoboda, Lavy, Fischer and Kleis. They solicit your suggestions and nominations.
4. Miss Lorraine Walsh has replaced DaLene Wiess in our office staff and will be working with project documents and reports.
5. Charges against this year's appropriated funds must be paid after delivery and prior to June 30. Any carry-over encumbrances will go against next year's allocation and unused funds of the current year will be lost. So plan ahead and order early enough to get delivery and payment completed.
6. Schnieder on safety - Rooms in which flammable liquids are stored or handled must not be heated by a means involving a source of ignition such as a pilot light. If such materials are pumped or dispensed inside, adequate ventilation is also essential for safety.
7. Many people who never doubt the sincerity of any compliment quickly question the accuracy of any criticism.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - January 1975

Journal Articles (contact authors for more information)

3917. Genetic and Breeding Strategy for Resistance to Rust (Uromyces Phaseoli (Reben) Wint.) in Beans (Phaseolus Vulgaris L.). D. P. Coyne and M. L. Schuster. Euphytica.
3918. High Frequency of a Robertsonian Translocation in One Herd of British White Cattle. Franklin E. Eldridge. Veterinary Record.
3919. Isotope Effects in Relation to the Interpretation of $^{15}\text{N}/^{14}\text{N}$ Ratios in Tracer Studies. A. P. Edwards. Joint FAO/IAEA Symposium on Isotope Ratios as Pollutant Source and Behavior Indicators.
3920. Negative Phototactic Activity Used to Determine Larval Toxicity of Insecticides to Diabrotica virgifera LeConte. H. J. Ball, C. A. Staetz and G. L. Rolofson. Journal of Economic Entomology.
3921. Effect of Short-Chain Fatty Acids Extracted from Beef Cattle Manure on Germination and Seedling Development. G. E. Schuman and T. M. McCalla. Journal of Environmental Quality.
3922. New Concepts in TGE. Norman R. Underdahl. Proceedings of the American Association of Swine Practitioners.
3923. Inhibition of Dark CO_2 Fixation and Photosynthesis in Leaf Discs of Corn Susceptible to the Host-Specific Toxin Produced by Helminthosporium maydis race T. Balwant S. Bhullar, J. M. Daly and D. W. Rehfeld. Plant Physiology.
3924. Genetics of Stigma Shape, Cotyledon Position, and Flower Color in Reciprocal Crosses Between Phaseolus Vulgaris L. and Phaseolus Coccineus (LAM.). A. M. Ibrahim and D. P. Coyne. Journal of American Society for Horticultural Science.
3925. Composition of Corn and Grain Sorghum Residues. L. J. Perry and D. H. Smith. American Forage and Grassland Council Proceedings. 1975.
3926. The Future of Automated Sprinkler Irrigation Systems. W. E. Splinter. Proceedings, Sprinkler Irrigate Assoc. Tech. Conference.
3927. The Effect of Detachment on the Development of Rust and the Hypersensitive Response of Wheat Leaves Infected with Puccinia araminis tritici. S. Mayama, D. W. Rehfeld and J. M. Daly. Phytopathology.
3928. Frequency of Alfalfa Plants with Combined Resistance to the Pea Aphid in Aphid-Resistant Cultivars. S. D. Kindler and J. M. Schalk. Journal of Economic Entomology.
3929. Influence of N, P, and K Fertilizer on the Quality and Nutrient Composition of Forage from an Irrigated Pasture. G. W. Rehm, R. C. Sorensen, J. T. Nichols and W. J. Moline. Agronomy Journal.

3930. Genetic Regulation of Flavonoid Content in Seeds and Seedlings of Melilotus alba. James E. Specht, Herman J. Gorz and Francis A. Haskins. *Phytochemistry*.
3931. Isolation and Study of Bovine Pancreatic Lipase. III. Lipolysis of Various Oils and Fats and Fatty Acid Specificity. R. C. Chandan, I. M. Khan and K. M. Shahani. *Journal of Dairy Science*.
3932. Effect of Conveyor Speed on Mechanical Tenderization of Beef Inside Rounds. W. C. Schwartz and R. W. Mandigo. *Journal of Food Science*.
3933. A Community Action Program in Changing Eating Behavior. Verona E. Lambert and Lois O. Schwab. *Journal of Home Economics*.
3934. Contents of Chlorophylls a and b in Chlorophyll-Deficient Mutants of Sweetclover. J. E. Specht, F. A. Haskins and H. J. Gorz. *Crop Science*.
3935. Effect of Methods of Nitrogen Application on Corn (Zea mays, L.) Grown on Irrigated Sandy Soils. G. W. Rehm and R. A. Wiese. *Soil Science Society of America Proceedings*.

BULLETINS PRINTED

- OTC 165. Performance of Soybean Varieties in Nebraska 1974. A. F. Dreier, J. H. Williams, R. S. Moomaw, G. M. Dornhoff and P. H. Grabouski.
- RB 266. Growth Potential of Sandhills Ranches Through Irrigation. R. D. Carver and G. A. Helmers.
- RB 267. Rates of Water Entry Into the Subsoil of Several Soil Series in Nebraska. David T. Lewis.

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