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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. 12, June 1976

FROM THE DIRECTOR'S DESK

SIZING UP AGNET

The 1976-77 budget appropriated by the Legislature for the institute included a \$70,000 item labeled "AGNET". This action provides IANR extension, teaching, and research the means to more fully exploit the capability of modern computers in our work. Under this budget, AGNET computing capabilities will be extended to each of the five Extension Districts; on-campus usage in teaching and research will be expanded. Outstate access to the AGNET program library will be provided through two dedicated computer ports and WATS lines. One fixed terminal and one portable terminal for check out use by off-campus research and extension staff will be provided at each District Headquarters location. On-campus users will have access to eleven fixed terminals and one portable check out terminal in the Statistical Laboratory (Miller Hall).

More than 80 interactive programs dealing with topics in agriculture and home economics are currently available and more are being developed. A Users Manual containing samples of terminal sessions and instructions on the use of the system will be available soon for distribution to interested users. The AGNET program is administered by Dr. Will Schutz, Head, Statistical Laboratory. Inquiries about the development of new program modules or the computing capabilities available in AGNET should be directed to Dr. Schutz. The AGNET information delivery system can effectively enhance research, extension, and teaching programs of IANR; all staff are invited to utilize its capabilities.

Howard W. Ottoson

GENERAL NOTES

1. There will be a special conference at 3:30 p.m. on June 24 in the Omaha room of the Nebraska Center for the unveiling of the final STAR report. All staff are cordially invited to attend.
2. The University of Nebraska and the Nebraska Section of the ASAE are hosting the national annual meeting of the American Society of Agricultural Engineers June 27-30. Some 2,000 attendees are expected.
3. The Departments of Food and Nutrition and Human Development and the Family have moved into the completely renovated Food and Nutrition building. This is a fine upgraded facility of the Home Economics complex. We thank the several other departments which helped out by providing temporary accommodations during the renovation.
4. We anticipate that salary notices for next year will come out shortly after the Board of Regents meeting on June 25.
5. The first phase (greenhouse and headhouse facilities) of the Plant Science Complex has been contracted and has a target completion date of July 1, 1977. Phase two (the office-classroom-laboratory building) is scheduled for contracting in early fall with an anticipated two year construction period.

6. Field Days scheduled include:

June 22	Range and Livestock Field Day, Panhandle Station
June 24	High Plains Ag. Lab Field Day
July 22	Tractor Power and Safety Day, Field Laboratory
July 28	Sandhills Ag. Lab Field Day
Aug. 5	Panhandle Station Field Day

7. Sahs Sez - The Field Laboratory has employed an entomological "scout" to monitor the plantings and field areas for insect activity. All seems quiet at this time.
8. We hope you can each work vacation time into your busy schedule and enjoy it. It is important to you, your work and your family.

R. W. Kleis

PERSONNEL ACTIONS

Campion, Dennis R. - Asst. Prof. of Animal Science (Courtesy Appt.) - Resignation
Dillon, Roy D. - Interim Dept. Chairman of Agricultural Education - Extension of Appt.
Eldridge, Franklin E. - Prof. of Animal Science - Leave of Absence
Fitzhugh, Henry A. - Prof. of Animal Science (Courtesy Appt.) - Resignation
Grace, Oliver D. - Interim Dept. Chairman of Veterinary Science - Appointment
Kleis, Robert W. - Dean and Director of International Programs - Appointment
Kohlmeier, Ronald H. - Assoc. Prof. of Animal Science (Courtesy Appt.) - Resignation
Moline, Waldemar J. - Prof. of Agronomy - Resignation
Olive, Lois - Assoc. Prof. Human Development and the Family - Courtesy Appointment

GRANTS AND CONTRACTS

Anderson, F. N. - Agronomy (PH Sta.) - Trans Agra Corporation	\$ 1,000
Burnside, O. C. - Agronomy- Miscellaneous Donors	3,000
Eastin, J. D. Agronomy - U. S. AID	135,000
Farlin, S. D. & R. A. Britton - Animal Science - American Colloid Company	10,000
Farlin, S. D. - Animal Science - Smith Cline Animal Health Products	5,000
Haderlie, L. C. - Agronomy - E. M. Laboratories, Inc.	500
Hagen, A. F. - Entomology (PH Sta.) - Union Carbide Corporation	500
Kies, C. - Food & Nutrition - Ross Laboratories	5,000
Klopfenstein, T. J. - Animal Science - U. S. Brewers Association	5,000
Klopfenstein, T. J. - Animal Science - Dow Chemical Company	7,500
Mayo, Z. B. - Entomology - Miscellaneous Donors	1,350
Mayo, Z. B. - Entomology - Union Carbide Corporation	2,000
Moomaw, R. S. - Agronomy (NE Sta.) - American Hoechst Corporation	500
Olson, R. A. - Agronomy - Farmland Industries, Inc.	5,000
Rehm, G. W. - Agronomy (NE Sta.) - Terra Chemical	500
Rosenberg, N. J. - Agricultural Engr. - National Science Foundation	86,700
Satterlee, L. D. - Food Science & Technology - Dept of Economic Development	6,000
Steadman, J. R. - Plant Pathology - E. I. DuPont & Company	2,000
Steadman, J. R. - Plant Pathology - Olin Corporation	500
Trimmer, W. L. - Ag. Engineering (PH Sta.) - Miscellaneous Donors	1,549
Twiehaus, M. J. - Veterinary Science - Jensen Salsbery Lab	1,090
Vidaver, A. K. - Plant Pathology - Dept. of HEW, National Institute of Health	35,674
Weihing, J. L. - Plant Pathology (PH Sta.) - Miscellaneous Donors	2,100
White, R. G. - Veterinary Science (NP Sta.) - Hoffman-LaRoche, Inc.	960
Wilson, R. G. - Agronomy (PH Sta.) - Ortho Chevron Chemical Company	1,000
Wilson, R. G. - Agronomy (PH Sta.) - Miscellaneous Donors	1,000

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - May 1976

Journal Articles (contact authors for more information)

5089. Use of Electrical Properties for Grain Moisture Measurement. S. O. Nelson. Transactions of the ASAE.
5090. Controlling Peak Electrical Demands by Scheduling Irrigation Systems. LaVerne E. Stetson and John W. Addink. Transactions of the ASAE.
5091. Selection for Ovulation Rate in Swine: Correlated Response in Age and Weight at Puberty, Daily Gain and Probe Backfat. J. R. Newton, P. J. Cunningham and Dwane R. Zimmerman. Journal of Animal Science.
5092. The Adventures of Healthy Henry. Sandra F. Blakeway and Marie E. Knickrehm. School Foodservice Journal.
5093. Microbial Concerns When Wastes are Applied to Land. John W. Doran, James R. Ellis and T. M. McCalla.
5094. Radiofrequency Electrical Treatment Effects on Dormancy and Longevity of Seed. S. O. Nelson, R. M. Heckert, L. E. Stetson and W. W. Wolf. Crop Science.
5095. Microwave Dielectric Properties of Insects and Grain Kernels. S. O. Nelson. Science.
5096. Estrous Cycle Control with Progestogen-Prostaglandin. Gary D. Stauffer, Earl F. Ellington and Merlyn K. Nielsen. Proceedings, Western Section American Society of Animal Science.
5097. Callus and Suspension Cultures of Melilotus alba Tissues and Cells. Tomoaki Taira, F. A. Haskins and H. J. Gorz. Crop Science.
5098. Evaluation of the Optimum Proportions of Lysine and Tryptophan for Growing Rats Based on Performance Parameters and Plasma Metabolites. A. J. Lewis, E. R. Peo, Jr., P. J. Cunningham and B. D. Moser. Journal of Nutrition.
5099. Evaluation of the Optimum Proportions of Lysine and Tryptophan for Growing Pigs Based on Performance Parameters and Plasma Metabolites. A. J. Lewis, E. R. Peo, Jr., P. J. Cunningham and B. D. Moser. Journal of Nutrition.
5100. Temperature Thresholds for Corn Growth in a Controlled Environment. P. M. Singh, J. R. Gilley and W. E. Splinter. Transactions of the ASAE.
5101. Effect of Steroid Implants on Sexual Behavior of Beef Calves. John L. Lesmeister and Earl F. Ellington. Hormones and Behavior.
5102. Genetic Parameters in Progeny-Test Selection for Field Performance of Strain-Cross Layers. Alan Emsley, G. E. Dickerson, T. S. Kashyap. Poultry Science.
5103. Influence of Seed Size and Density on Germination, Seedling Emergence and Yield of Grain Sorghum. Jerry W. Maranville and Max D. Clegg. Agronomy Journal.

5104. Characterization of the Chlorogenic Acid Binding Fraction in Leaf Protein Concentrate. N. L. Lahiry, L. D. Satterlee, H. W. Hsu, and G. W. Wallace. *Journal of Food Science*.
5105. Rapid Detection of Enteric Viruses of Domestic Animals. Rose A. McCullough, Marvin B. Rhodes, Charles A. Mebus. *Science*.
5106. Pathology of Diarrhea in Gnotobiotic Calves Induced by the Human Reovirus-like Agent of Infantile Gastroenteritis. C. A. Mebus, R. G. Wyatt, A. Z. Kapikian. *Veterinary Pathology*.
5107. Characterization of Yield and Economic Loss from Nonuniform Fertilizer Distribution Using Computer Simulation. R. C. Sorensen and R. A. Wiese. *Agronomy Journal*.
5108. Control of Downy Brome on Nebraska Rangeland. L. A. Morrow, C. R. Fenster and M. K. McCarty. *Range Management*.
5109. Spermatozoan Activity and Insemination in Tenebrio molitor L. Following Radiofrequency Electrical Treatment. P. S. Rai, H. J. Ball, S. O. Nelson and L. E. Stetson. *The Annals of the Entomological Society of America*.

Journal Abstracts (contact authors for more information)

- 76-563. Effect of Windbreaks on the Energy Balance of Crops Growing on the Great Plains. Norman J. Rosenberg. Symposium, "Shelterbelts on the Great Plains," Denver, Colorado, April 20-22, 1976.
- 76-564. Corn Gluten Meal as a Protein Source for Cattle. Lyle Petersen and Terry Klopfenstein. *Journal of Animal Science*.
- 76-565. Adaptation to Corn and Wheat Rations. W. R. Fulton, T. J. Klopfenstein, and R. Britton. *Journal of Animal Science*.
- 76-766. Influence of Controlling pH on Intake of Wheat Rations. W. R. Fulton, T. J. Klopfenstein and R. Britton. *Journal of Animal Science*.
- 76-767. Nutritive Value of Field Wilted Dehy Compared to Direct Cut Dehy for Ruminants. Cecelia Dorn, Terry Klopfenstein, R. L. Ogden and W. R. Kehr. *Journal of Animal Science*.
- 76-768. Distillers Feed in Ruminant Rations. John Waller, Whitney Rounds and Terry Klopfenstein. *Journal of Animal Science*.

BULLETINS PRINTED

- SB 537. Grain Drying in Country Elevators: Costs and Economies of Size. Michael S. Turner and Gary B. Baker.
- RB 276. Results of the Fifth International Winter Wheat Performance Nursery Grown in 1973. J. E. Stroike, K. D. Wilhelmi, V. A. Johnson, J. W. Schmidt and P. J. Mattern.