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## Agricultural Experiment Station News July 1977

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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. 10, No. 1, July 1977

## FROM THE DIRECTOR'S DESK

Budgeting is an activity which seems to preoccupy a great deal of our attention; presently we are in the process of a) closing the books for the year just ended; b) opening the accounts for the new fiscal year 1977-1978; and c) thinking about the budget which will be considered by the University, the Board of Regents, the Governor, and the Legislature for fiscal 1978-79. Additionally, we are watching with interest the Hatch budget for fiscal 1977-78.

For the new year the additional financial resources allocated to the Experiment Station were distributed to the Station by Vice Chancellor Massengale from the appropriation made to the Institute. I am pleased with the additional resources provided to the Experiment Station.

For the new year starting July 1 the Experiment Station will add the following new positions: 1) Half-time research staff member in range management in the Agronomy Department (also half-time teaching). 2) Stalk rot microbiologist in Plant Pathology, 75% research, 25% teaching. 3) Full-time turf breeder in the Department of Horticulture. 4) Animal pathologist in the Department of Veterinary Science, full-time research. 5) Carbon biochemist in the Laboratory of Biochemistry, full-time research. 6) Full-time research position in the plant physiology Area of Excellence for work on water use efficiency. 7) A 75% research, 25% teaching position in the water use efficiency Area of Excellence, Department of Agricultural Engineering, for work on irrigation efficiency.

Special allocations for research support totalling approximately \$70,000 were made to Food Science and Technology, South Central Station, Plant Pathology, Biochemistry, Agricultural Communications, Entomology, Biometrics and Information Systems Center, Horticulture, Southeast District, Northeast Station, North Platte Station, and the Panhandle Station. Of particular interest in these allocations was the amount of \$16,000 which was provided to the Department of Agricultural Communications for publication activity. In addition, the four district stations were provided \$23,000 for increases in utility costs. A janitor was provided to the South Central Station for the new headquarters building there. Finally, an addition was made to the staff travel account in the Experiment Station to cover the increased commitment there. A special budget of \$168,815 was appropriated to Veterinary Science for work on pseudorabies.

The Vice Chancellor has allocated \$101,000 to the Station for equipment purchases during the coming year. These allocations are being made to various departments and stations in response to their previous requests.

All of these items represent significant enhancements of the Experiment Station program, either for new activities, or for the support of our work underway. I would like to say personally that Vice Chancellor Massengale worked long, hard and tirelessly on behalf of the Institute budget. We have all appreciated his efforts.

Howard W. Ottoson

## PERSONNEL ACTIONS

Byers, Keith L. - Asst. Prof., Co-Chairman Prod. Ag. Tech. (UNSTA) - Resignation  
 Chambers, Donald R. - Instructor, Prof. Ag. Tech. (UNSTA) - Appointment  
 Gallick, Rosemary - Instructor, Ag. Communications - Resignation  
 Hunt, Thomas C. - Instructor, Conservation and Survey - Appointment  
 Kennedy, George A. - Asst. Professor, Veterinary Science - Appointment  
 Lewis, Austin - Asst. Professor, Animal Science - Appointment  
 Moeller, Alan R. - Asst. to Vice Chancellor for Finance & Personnel - Appointment  
 Poe, Stephen R. - Instructor, Plant Pathology - Courtesy appointment  
 Swartzendruber, Dale - Professor, Agronomy - Appointment  
 Twiehaus, Marvin J. - Professor, Veterinary Science - Retirement  
 Wise, Jimmy - Instructor, Animal Science - Resignation  
 Young, Dean - Instructor, Food & Nutrition - Courtesy appointment

## GRANTS AND CONTRACTS

Anderson, F. A., Agron. (PH Sta) - Lockwood Corporation	2,195
Bashford, L. L., Ag. Engr. - State Energy Office	34,820
Bitney, L. L., Ag Econ. - Nebraska Banker's Association	2,800
Bullerman, L. B., Food Sci. & Tech - Monsanto Company	10,000
Burnside, O. C., Agron. - Amchem Products	1,250
Burnside, O. C., Agron. - Rhodia Incorporated & BASF Wyandotte Corp.	1,000
Burnside, O. C., Agron. - American Hoechst, E I DuPont, Gulf Oil	1,500
Compton, W. A., Agron. - Hoegemeyer Hybrids	500
Danielson, D. M., An. Sci. (NP Sta) - Pfizer, Inc.	500
Farlin, S. D., An. Sci. - Eli Lilly and Company	9,400
Fenster, C. R., Agron. (PH Sta) - Chevron Chemical Company	750
Fenster, C. R., Agron. (PH Sta) - Shell Oil Company	3,500
Fenster, C. R., Agron. (PH Sta) - Velsicol Chemical Corp.	750
Fenster, C. R., Agron. (PH Sta) - Monsanto Company	500
Fischbach, P. E., Ag. Engr. - Lincoln Labs, Massachusetts Inst. Tech.	114,258
Hagen, A. F., Entom. (PH Sta) - Shell Oil Company & Chemagro	700
Larson, L. L. & P. H. Cole, An. Sci. - Mid America Dairymen, Inc.	1,622
Moomaw, R. S., Agron. (NE Sta) - BASF Wyandotte Corp & Shell Development Co.	1,000
Perry, L. J. & G. W. Rehm, Agron. - The Old West Commission	49,296
Rosenberg, N. J., Ag. Engr-Meteorology - National Science Foundation	84,200
Sander, D. H. & G. A. Peterson, Agron. - Tennessee Valley Authority	5,000
Sullivan, T. W., An. Sci. - American Hoechst Corporation	7,000

## GENERAL NOTES

1. Bids are being solicited by September 1 for the sale of the several lots and larger parcels of land at the swine complex southeast of 70th and Adams streets. Dick Bennett or Ray Coffey can provide details and documents to anyone interested. Also included in this offering are 210 acres northwest of 84th and Havelock.
2. Mr. Alan Moeller has joined the IANR administrative group as Assistant to the Vice Chancellor for Finance and Personnel replacing Mr. Koopmann. Al has fine training and experience for this important duty and we are pleased to have him join us.
3. Forage related research is a very extensive, important, and diverse portion of the NAES program. We are considering mechanisms for enhancing the coordination and/or communications between the several disciplines, locations, and scientists involved. We do not desire to proliferate formal organizations, operational complications, or committee meetings. We would welcome comments and suggestions.
4. Tractor Power and Safety Day - July 28.
5. Blame yourself as you would blame others; excuse others as you would excuse yourself.

R. W. Kleis

Journal Articles (contact authors for more information)

5326. Differential Response of Corn Inbreds to Zinc. R. B. Clark. Agronomy Journal.
5327. Soils of a Grassland-Forest Ecotone in Eastern Nebraska. Saad Al-Barrak and David T. Lewis. Soil Science Society of America Proceedings.
5328. Dry Matter Accumulation of Four Warm-Season Grasses in the Nebraska Sandhills. William Gilbert and L. J. Perry, Jr. Range Management.
5329. Carbohydrate Translocation in Three Warm-Season Grasses as Affected by Stage of Development. Walter H. Fick and Lowell E. Moser. Range Management.
5330. Effect of Low Nitrogen Intake on Serum Transferrin of Healthy Human Adults. Peter M. Ranum, Constance Kies and Hazel M. Fox. Nutrition Reports International.
5331. Kernel Crown Spot of Sweet Corn. T. P. Reiling, Thor Kommedahl and Anne Vidaver. Plant Disease Reporter.
5332. Forage Quality of Four Warm-Season Grasses in the Nebraska Sandhills. William Gilbert and L. J. Perry, Jr. Range Management.
5333. Solar Energy Used for Conserving Electrical Energy in a Swine Growing-Finishing Facility. James A. DeShazer, Bobby D. Moser, Norman C. Teter, Garland R. Stevens and Larry L. Olson. Transactions of the ASAE.
5334. Computer Blending and Laboratory Evaluation of Protein Foods Having Predetermined Functional and Nutritional Properties. H. W. Hsu, L. D. Satterlee and J. G. Kendrick. Food Product Development.
5335. Optimum Fertilizer Placement for Sugar Beet Seedlings as Determined by Uptake of Radioactive <sup>32</sup>P Isotope. F. N. Anderson and G. A. Peterson. Journal of the American Society of Sugarbeet Technologists.
5336. Further Comments Concerning the Nature of the Psychrometric "Constant." Albert Weiss. Journal of Applied Meteorology.
5337. Alfalfa Weevil: Detection of Summer Adults. G. R. Manglitz, L. E. Klostermeyer, T. L. Lavy and W. R. Kehr. Environmental Entomology.
5338. Impact of Branch-Line Rail Abandonment on Costs and Structure of Fertilizer Distribution. Mary Berglund and Dale G. Anderson. Proceedings, Transportation Forum, Volume XVIII No. 1, 1977.
5339. Zinc Utilization by Human Adults as Affected by Dietary Cellulose, Hemicellulose and Pectin. Donna Beshgetoor, Constance Kies and Hazel M. Fox. Journal of Nutrition.
5340. Factors Influence Growth of Radiation-Resistant Asporogenous Bacteria Found in Foods. M. A. Wilson and R. B. Maxcy. Applied and Environmental Microbiology.
5341. Effect of Genetic Blends of Dry Beans (Phaseolus vulgaris) of Different Plant Architecture on Apothecia Production of Sclerotinia sclerotiorum and White Mold Infection. Dermot P. Coyne, J. R. Steadman and H. F. Schwartz. Euphytica.

Journal Abstracts (contact authors for more information)

- 77-885. Determination of Alfalfa Weevil Strains in Nebraska. L. E. Klostermeyer and G. R. Manglitz. North Central Branch, Entomological Society of America Meeting, Fargo, North Dakota, March 30-April 1, 1977.
- 77-886. Field and Greenhouse Insecticide Trials for Control of Larval Phyllophaga anxia (LeConte). R. L. Rivers, K. S. Pike and Z. B. Mayo. 32nd Annual Meeting, North Central Branch, Entomological Society of America Cereal Insect Section.
- 77-887. Dulotic Behavior in the Subgenus Raptiformica. James B. Ballard.
- 77-888. Fly Control with Dursban<sup>R</sup> and Rabon<sup>R</sup> Eartags. Jack Issac Shugart, J. B. Campbell and David Boxler.
- 77-889. Reaction of Phaseolus Germplasm to Different Strains of Xanthomonas phaseoli and X. phaseoli var. fuscans and Transgressive Segregation for Increased Tolerance. Nicolas E. Valladares, D. P. Coyne and M. L. Schuster. Annual Meeting, American Society for Horticultural Science (published in HortScience).
- 77-890. Development and Use of Selection Indices for Selecting Superior Potato Cultivars. Robert B. O'Keefe. American Potato Journal.
- 77-891. Predicting Long-term Chip Color Through Harvest-time Testing. Robert B. O'Keefe. American Potato Journal.
- 77-892. Effect of Genotype Environment and Their Interactions on Potato Yields and Quality. Robert B. O'Keefe. American Potato Journal.
- 77-893. Stabilization of Bacteriophage  $\phi 6$  and Infectious Bovine Rhino Tracheitis Virus Nucleic Acids by Fixation with Buffered Chromic Acid - Formaldehyde. Willem G. Langenberg and Richard L. Sharpee. Phytopathology.
- 77-894. Beef Strip Loin Steak Palatability as Affected by Marbling Level and Cooking End-Point Temperature. F. Caporaso, A. L. Cortavarria and R. W. Mandigo. 69th Annual Meeting of the American Society of Animal Science.
- 77-895. Effects of Post-Cooking Sample Temperature on Sensory and Shear Analysis of Beef Steaks. F. Caporaso, A. L. Cortavarria and R. W. Mandigo. 1977 IFT Annual Meeting.
- 77-896. Effect of Building Type and Pen Occupancy Rate on Pig Performance During the Growing Phase. R. D. Fritschen and P. J. Cunningham. Journal of Animal Science.

BULLETINS PRINTED

- RP 246. Crossbreeding Evaluation of Finnsheep and Some U. S. Breeds for Market Lamb Production. Gordon E. Dickerson.