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## Agricultural Experiment Station News September 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. 3, September 1977

## LAND USE IN PROGRAMS OF THE AGRICULTURAL EXPERIMENT STATION, IANR

The Experiment Station relies on its research centers and field laboratories to provide applied knowledge for development of Nebraska's largest industry - agriculture. Nebraska's greatest resources are its soil, water, abundant radiant energy, and its people. Nebraska is a large state and has great variations due to topography, changes in elevation, and the continental type of climate. Therein lies the need for research centers at various locations.

University of Nebraska Field Laboratory, Mead - 9,400 acres acquired from the United States government which serves Lincoln based staff and programs of research, extension, and demonstration.

Northeast Lincoln - About 500 acres of land to be retained for research usage for projects requiring closer proximity to campus resources.

Northeast Station, Concord - 480 acres owned (gift) and leased serving as the IANR programs' center for the northeast district (III).

South Central Station, Clay Center - 480 acres made available by the USDA which serves the research and extension programs of District IV (not to be confused with the 3,400 acre US MARC which is a national facility).

North Platte Station, North Platte - 1,950 acres supporting the broad and extensive research and extension programs of District II.

Sandhills Agricultural Laboratory, Tryon - 3,400 acres leased to provide an applied research base oriented to the Sandhills and operated by the North Platte Station.

Panhandle Station, Scottsbluff - 1,100 acres (gifts) serving as the headquarters for comprehensive research and extension programs for the Panhandle (District I).

High Plains Agricultural Laboratory, Sidney - 2,400 acres acquired from the US DHEW and serving dryland agriculture research conducted by the Panhandle Station.

Northwest Agricultural Laboratory, Alliance - 480 acres (gift) serving irrigated and dryland agriculture research for that area managed by the Panhandle Station.

Horning State Farm, Plattsmouth - 240 acres (gift) operated by the Forestry research group on campus.

Dalbey-Halleck Farm, Virginia - 1,120 acres of land given and purchased for livestock and native vegetation research - Animal Science Department.

Rogers Memorial Farm, east of Lincoln; 320 acres (gift) operated by the Agricultural Engineering Department for conservation systems research.

Foundation Seed Farm, Genoa - 320 acres (gift) used by the Foundation Seed Division of the Agronomy Department.

Warren W. Sahs

## PERSONNEL ACTIONS

Bashford, Leonard L. - Asst. Professor of Ag. Engineering and FS&T - Resignation  
Blezek, Allen G. - Asst. Prof. of Agricultural Education - Appointment  
Caporaso, Fredric - Asst. Professor of Food Science and Technology - Transfer  
Eichner, Ronald D. - Asst. Professor of Biochemistry (MARC) Courtesy Appointment  
Gaddis, Ron J. - Asst. Prof. of Ag. Engineering - Resignation  
Schinstock, Jack L. - Asst. Professor of Ag Engineering - Appointment  
Semm, Sally I. - Instructor in Food and Nutrition - Appointment  
Wren, Wallace B. - Associate Professor of Veterinary Science - Appointment

## GRANTS AND CONTRACTS

Arnold, R. G. - FS&T - Ne. Soybean Dev., Util. & Marketing Board	5,500
Ball, H. J. - Biochemistry Lab - Monsanto Company	1,000
Burnside, O. C. - Agronomy - American Cyanamid Company	1,200
Dickason, E. A. - Entomology - FMC Corporation	500
Farlin, S. D. and Britton, R. A. - Animal Science - W. R. Grace & Company	9,000
Flowerday, A. D. - Agronomy - Ne. Soybean Development, Util. and Mktng. Board	9,300
Hergert, G. W. - Agronomy (NP Sta.) Eagle-Picher Industries, Inc.	800
Kelling, Clayton L. - Veterinary Science - Ne. Pork Producers Assoc., Inc.	6,500
Klucas, R. V. - Biochem Lab - Ne. Soybean Devel., Util. & Mktng. Board	7,800
Leopold, A. C. - Agronomy - Ne. Soybean Devel., Util. & Mktng. Board	7,000
Lutgen, L. H. - Ag Economics - Ne. Soybean Devel., Util. & Mktng. Board	5,000
Mayo, Z. B. - Entomology - American Cyanamid Co.	1,500
Moomaw, R. S. - Agronomy (NE Sta.) American Cyanamid Co.	500
Rehm, G. & Moomaw R. - Agronomy (NE Sta.) Malting Barley Improvement Assoc.	1,000
Roeth, F. W. - Agronomy (SC Sta.) American Cyanamid Co.	600
Specht, J. E. - Agronomy - Ne. Soybean Devel., Util. & Mktng. Board	5,250
Svec, L. V. - Agronomy (SC Sta.) Ne. Soybean Devel., Util. & Mktng. Board	5,300
Wiese, R. & Sorensen, R. - Agronomy - Ne. Soybean Devel. Util.&Mktng. Board	15,000
Williams, J. H. - Agronomy - Ne. Soybean Devel. Utilization & Mktng. Board	2,000

## GENERAL NOTES

1. Comprehensive departmental program reviews are tentatively scheduled for the coming year for Agronomy (February 27-March 3) and Entomology (February 6-9). These will be more complete reviews of all aspects (teaching, research and extension) of these programs than in previous years. All staff involved please guard these dates for participation.
2. Sahs Sez: Dove hunting is prohibited at the UN-L Field Laboratory because of activity in the project areas. Pheasant hunting will be allowed from November 5 to December 31, as in the past. We appreciate project leaders cooperation. Due to new installations and areas of activity, the Field Laboratory hunting brochure and map is being reprinted and will be available at the Field Laboratory headquarters.
3. The AES has scheduled a workshop for department chairmen and district directors for September 21. This all-day session will provide for mutual discussion of Station policies, procedures, plans and problems with an eye toward improvement of its effectiveness.
4. The wildlife and fisheries component of the newly constituted Department of Forestry, Fisheries and Wildlife has moved into the former Veterinary Science building. This provides much needed space for these programs and relieves the space problem in the Poultry building.
5. Suburbia: Where the developer bulldozes all the trees and then names the streets after them.

R. W. Kleis

Journal Articles (contact authors for more information)

5357. Applicator for Applying Granular Insecticides to Small Plots at Planting Time. Leroy L. Peters. *Journal of Economic Entomology*.
5358. A Thermogradient Sand Bath. Max D. Clegg and Jerry D. Eastin. *Agronomy Journal*.
5359. Blood Serum Lipid Patterns of Adolescent Boys Fed Corn Oil, Peanut Oil, or Safflower Oil. C. Kies, M. E. Lopez-Rico, H. M. Fox, K. M. Stanek and A. Chan. *Journal of Food Science*.
5360. Non-Protein Nitrogen in Range Supplements. D. C. Clanton. *Journal of Animal Science*.
5361. Effects of Sodium Levels on Reproductive Performance and Progeny Development in Rats. D. S. Pollmann, T. L. Hanson, E. R. Peo, Jr. and B. D. Moser. *Western Section, American Society of Animal Science Proceedings*.
5362. Topical Toxicity of Insecticides to Field-Collected Phyllophaga anxia. K. S. Pike, R. L. Rivers and Z. B. Mayo. *Journal of Economic Entomology Section B*.
5363. Seed Protein Improvement in Common Wheat (Triticum Aestivum L.): Opportunities and Constraints. V. A. Johnson, P. J. Mattern, K. D. Wilhelmi and S. L. Kuhr. *Proceedings FAO/IAEA/GSF Seed Protein Improvement Program*.
5364. Operational Characteristics of a Beef Cattle Feedlot Holding Pond. C. B. Gilbertson, J. A. Nienaber and J. R. Ellis. *Transactions of the American Society of Agricultural Engineers*.
5365. The Effect of Protein Blending on Chemical and Functional Properties of Soy Gels. H. W. Hsu, L. D. Satterlee and M. A. Hanna. *Journal of Food Science*.
5366. A Sensitive Technique for the Efficient Rapid Measurement of Carbon Dioxide Concentrations. Max D. Clegg, Charles Y. Sullivan and Jerry D. Eastin. *Plant Physiology*.
5367. Effect of Dietary Fiber on Copper, Zinc and Magnesium Utilization by Adolescent Boys. L. M. Drews, C. Kies and H. M. Fox. *Journal of Clinical Nutrition*.
5368. Prevention of Toxic Mold Growth in Cheese by Pimaricin. K. M. Shahani, L. B. Bullerman, T. A. Evans and R. G. Arnold. *Journal Annales De Nutrition et d'Alimentation*.
5369. The Effect of Volume and Quenching on Estimation of Counting Efficiencies in Liquid Scintillation Counting. Herman W. Knoche, Anne M. Parkhurst and Sang W. Tam. *Int. J. Appl. Radiat. Isotop.*
5370. Cropping an Abandoned Feedlot to Prevent Deep Percolation of Nitrate-Nitrogen. G. E. Schuman and L. F. Elliott. *Journal of Environmental Quality*.
5371. Canopy Architecture and Irrigation Influence on Microclimate and White Mold Disease of Dry Edible Beans. Blaine L. Blad, James R. Steadman and Albert Weiss. *Phytopathology*.

Journal Abstracts (contact authors for more information)

- 77-911. Ant Population Estimation by Removal Sampling. James B. Ballard. 53rd Annual Meeting, Kansas Entomological Society.
- 77-912. Dietary Fiber Effects on Nutritional Status of the Weanling Mouse. K. Keim and C. Kies. Cereal Foods World Proceedings of the 1977 Annual Meeting of the American Association of Cereal Chemists.
- 77-913. Apparent Digestibility of Dietary Fiber by Adolescent Boys. Susan Gramstorff, Constance V. Kies and Hazel M. Fox. Cereal Foods World, Proceedings of the Annual Meeting of the American Association of Cereal Chemists.
- 77-914. Agrometeorological Research in a Semi-Arid Region with Special Emphasis on the Water Use by Crops. N. J. Rosenberg, B. L. Blad and S. B. Verma. Int'l. Conference on the Meteorology of Semi-Arid Zones, October 31-November 4, Tel-Aviv, Israel.
- 77-915. Cytotaxonomic Relationships of Certain Genera within Taxodiaceae. S. E. Schlarbaum and T. Tsuchiya. Proceedings of the Western Forest Genetics Association.
- 77-916. Antibiotics, Probiotics and High-Level Copper in Turkey Diets. S. S. Al-Zubaidy and T. W. Sullivan. Poultry Science.
- 77-917. Effect of Storage on Lipid Composition and Functional Properties of Dried Egg Products. Eng-Hwa Lieu and G. W. Froning. Poultry Science.
- 77-918. Dietary Phosphorus Levels for Large White Turkeys to 20 and 24 Weeks of Age. T. W. Sullivan and Ayhan Aksoy. Poultry Science.
- 77-919. The Influence of Planting Rates and Dates on Yield and Other Agronomic Traits of Proso Millet (Panicum miliaceum .L.). Lenis A. Nelson.
- 77-920. Incidence of Mycotoxic Molds in Domestic and Imported Cured and Smoked Meats. L. B. Bullerman. 77th Annual Meeting, American Society for Microbiology, May 8-13, 1977, New Orleans, LA.
- 77-921. Adjustment Factors for Age and Backfat at Market Weight in Swine. Larry W. Olson, W. T. Ahlschwede and T. E. Socha. Journal of Animal Science.
- 77-922. Adjustment Schemes for Swine Performance Records. W. T. Ahlschwede, L. W. Olson and T. E. Socha. Journal of Animal Science.
- 77-923. Evaluation of Intermediate Wheatgrass Germplasm for Use in a Breeding Program. K. P. Vogel. Agronomy Abstract.
- 77-924. The Combined Use of Population Improvement Breeding Methods and Population Hybridization in Producing Forage Cultivars. K. P. Vogel. Proceedings, Twenty-Fourth Grass Breeders Work Planning Conference, Tifton, GA.
- 77-925. An Aid for Conservation Tillage for Wheat in the Great Plains. C. R. Fenster, H. I. Owens, and R. H. Follet. Agronomy Meeting in Los Angeles.