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# Agricultural Experiment Station News December 1976

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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. 9, No. 6, December 1976



## Season's Greetings from the Experiment Station Staff...

*Harold* *Tomine*  
*Bill* *Warren*  
*Mary Ann* *Delores*

### PROTECTION OF HUMAN SUBJECTS

Some Experiment Station staff have indicated a need for information concerning the requirements under the provisions of the Department of Health, Education and Welfare regulations on the protection of human subjects.

The University of Nebraska has formally assured DHEW that it will follow procedures which will assure the protection of any human being exposed to risk in sponsored research projects. Sponsored research projects are broadly considered to include any research, training, development, demonstration, or related activity involving human subjects without regard to whether or not outside funding is being requested. DHEW policy defines "subject" as "any individual who may be at risk as a consequence of participation in research, development, demonstration or other activities." The policies are concerned with the risks inherent in altered states or conditions imposed by project protocols, whether these risks are physical, psychological, sociological, or legal in nature.

The University has established a committee on investigations involving human subjects. The executive secretary of this committee is Dr. Louis L. Ouren. His office is in room 4115, University of Nebraska Medical Center, Omaha, Nebraska, 68105. His telephone number is 8-541-7930.

All Experiment Station projects involving human subjects must be approved by this committee before final submission to Washington. Approval or endorsement of our peer

review group is a prerequisite for consideration of a proposed project by the human subjects review board. The project review we have for new or revised projects constitutes this peer review.

Complete instructions to investigators concerning projects requiring review procedures for the protection of human subjects may be obtained from Dr. Ouren's office. He has also been quite willing to answer questions by telephone. Francis Schmehl, Research Administrator for the University of Nebraska-Lincoln, is also an excellent source for information in this area.

John C. Woodward  
Guest Editor

#### OVERTIME PAY

You are reminded that the Board of Regents policy does not allow for the working of overtime by classified employees (C-Line). However, in an emergency situation approval for a limited amount of overtime can be granted by the Comptroller with the consent of the Dean's office. Any overtime worked must be reported on the employee's timecard. Current payment for this time is at the regular rate of pay.

Managerial Professional (B-Line) employees are paid on a monthly basis and are not required to log their hours of work. They are employed to do a job and are not eligible for additional compensation.

C. H. Koopmann  
Finance & Personnel

#### PERSONNEL ACTIONS

Dickinson, Earl - Professor and Chairman, Veterinary Science - Appointment  
Eldridge, Franklin - Professor, Animal Science - Return from leave  
Holtzer, Thomas - Assistant Professor, Entomology - Appointment  
McGill, Lawrence - Assistant Professor, Veterinary Science - Resignation  
Simmons, James - Instructor, Agricultural Education - Resignation

#### GRANTS AND CONTRACTS

Farlin, S. D. - Animal Science - Smith Kline Corporation	\$ 800
Klopfenstein, T. J. - Animal Science - Scott Paper Company	6,000
Mattern, P. J. - Agronomy - U. S., AID	586,000
Mayo, Z. B., et al - Entomology - U of N Found., Anna Elliott Fund	5,400
Nichols, J. T. - Agronomy (NP Sta) - Sharp Brothers Seed Company	500
Owen, F. G. - Animal Science - Biochemical Corporation of America	500
Sander, D. H., et al - Agronomy - Nebraska Wheat Division, Neb. Dept. of Ag.	3,500
Satterlee, L. D. & J. G. Kendrick - Food Sci & Tech & Ag. Econ - NSF	138,600
Wicks, G. A. - Agronomy (NP Sta) - E.I. DuPont De Nemours & Co.	600
White, R. G. - Veterinary Science (NP Sta) - Hoffman La Roche Inc.	1,742

#### FROM THE DIRECTOR'S DESK

Christmas provides the occasion to express our sentiments and feelings. As I look at the Experiment Station retrospectively I conclude that 1976 was a good year -- maybe even a vintage year! I think of a number of things: some noteworthy research achievements; development and improvement in land and facilities; improved support; favorable budgetary treatment by the State and Federal government; new programs and new colleagues. But, most important, is the evidence of the initiative, energy, and dedication shown by each of you to our collective enterprise -- our research program.

All of us here extend to each of you our best wishes for a Happy Christmas and a satisfying 1977.

Howard W. Ottoson

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - November 1976

Journal Articles (contact authors for more information)

5223. Effect of Zinc 'V' Proteinate on Zinc-Copper Interrelationships in the Growing Rat. H. John Kuhl, Jr., Thomas E. Ekpenyong, E. R. Peo, Jr. and B. D. Moser. *Journal of Nutrition*.
5224. Soybean Yields on a Silt Loam Soil as Influenced by Prior Fertilization, Row Spacings and Plant Populations for Corn. G. W. Rehm, and R. C. Sorensen. *Soil Science*.
5225. Characterization of Biological Types of Cattle. V. Carcass Wholesale Cut Composition. Robert M. Koch and Michael E. Dikeman. *Journal of Animal Science*.
5226. Chemical Treatment of Crop Residues. Terry Klopfenstein. *Journal of Animal Science*.
5227. Dry Matter Composition and Forage Quality of Three Corn Hybrids. L. J. Perry, Jr. and W. A. Compton. *Agronomy Journal*.
5228. Guidelines Toward More Uniformity in Measuring and Reporting Calf Experimental Data. L. L. Larson, F. G. Owen, J. L. Albright, R. D. Appleman, R. C. Lamb and L. D. Muller. *Journal of Dairy Science*.
5229. The Effects of Mechanical Tenderization and Press/Cleave Portioning on Boneless Pork Loins. W. J. Goldner and R. W. Mandigo. *Journal of Food Science*.
5230. Predicting Protein Digestibility and Quality Using an Enzyme-Tetrahymena pyriformis W Bioassay. M. J. Dryden, J. G. Kendrick, L. D. Satterlee, L. J. Schroeder and R. G. Block. *Journal of Food Processing and Preservation*.
5231. Seasonal Runoff Losses of Nitrogen and Phosphorus from Missouri Valley Loess Watersheds. E. E. Albers, G. E. Schuman and R. E. Burwell. *Journal of Environmental Quality*.
5232. High Moisture Forages - Preservatives - Additives. Dr. Foster G. Owen. Minnesota Nutrition Conference, September 20, 1976.
5233. Accelerated Pork Processing, Yields of Fresh Carcass Cuts. R. W. Mandigo, T. L. Thompson and G. M. Weiss. *Journal of Food Science*.
5234. Lower Limit of Soil Moisture Potential for Corn Growth. P. M. Singh, J. R. Gilley and W. E. Splinter. *Transactions of the ASAE*.
5235. Corn Rootworm Larval Control with Liquid Starter Fertilizer-Insecticide Combinations and the Influence of Depth of Placement. Z. B. Mayo. *Journal of Economic Entomology*.
5236. Sedimentation Coefficients of the Virions of Soil-Borne Wheat Mosaic Virus. M. K. Brakke. *Virology*.
5237. Properties of Restructured Pork as Affected by Cooking Method, Frozen Storage and Reheating Method. J. F. Campbell and R. W. Mandigo. *Journal of Food Science*.

Journal Abstracts (contact authors for more information)

- 76-799. Control of Weeds in Close-Drilled Sorghum with Preemergence and Postemergence Herbicides. Orvin C. Burnside. North Central Weed Control Conference Research Report.
- 76-800. Control of Weeds in Close-Drilled Soybeans. Orvin C. Burnside. North Central Weed Control Conference Research Report.
- 76-801. Persistence of Soybean Herbicides in the Soil During the Year of Application. Orvin C. Burnside. North Central Weed Control Conference Research Report.
- 76-802. Effect of SRC-101 on the Adsorption of Atrazine in Soil. T. H. Dao and T. L. Lavy. North Central Weed Control Conference Research Report.
- 76-803. Simazine Mobility in Two Soils Subirrigated in Growth Chambers. T. L. Lavy. North Central Weed Control Conference Research Report.
- 76-804. Field Soybean Bioassay Showing Atrazine Disappearance from an Irrigated Sandy Soil. R. H. Hammons, T. L. Lavy and G. A. Wicks. North Central Weed Control Conference Research Report.
- 76-805. Effects of SRC-101 on Alachlor Phytotoxicity. D. R. Tupy and T. L. Lavy. North Central Weed Control Conference Research Report.
- 76-806. Comparison of Atrazine Phytotoxicity to Soybeans With and Without Supra-Plex on Two Soil Types. D. W. Hoffman and T. L. Lavy. North Central Weed Control Conference Research Report.
- 76-807. Atrazine Persistence and Movement in Soil Under Furrow Irrigation Systems. T. L. Lavy, K. E. Elge and J. R. Shugart. North Central Weed Control Conference Research Report.
- 76-808. Mobility of  $^{14}\text{C}$ -labeled Alachlor, Atrazine and Pickoram as Influenced by SRC-101 in Soil Columns. R. H. Hammons and T. L. Lavy. North Central Weed Control Conference Research Report.
- 76-809. Biological Control of Musk Thistle. Melvin K. McCarty and Alex R. Martin. North Central Weed Control Conference Research Report.
- 76-810. Effect of Selected Herbicides on Quality of Two Cool Season Grasses. Melvin K. McCarty. North Central Weed Control Conference Research Report.
- 76-811. Soil Persistence of Sorghum Herbicides During the Year of Application. O. C. Burnside and Marvin E. Schultz. North Central Weed Control Conference.
- 76-812. Measurement of Crop Temperature by Thermocouple and Infrared Techniques to Monitor Plant Water Relations. B. L. Blad, N. J. Rosenberg, E. T. Kanemasu and J. L. Heilman. Agronomy Abstracts.
- 76-813. Modification of Micrometeorological Conditions Across an Overhead Sprinkler Line Source of Water. Albert Weiss. 13th Conference on Agriculture & Forest Meteorology, April 4-6, 1977 and published in Bulletin of the American Meteorological Society.