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# Agricultural Experiment Station News January 1975

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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. 7, No. 7, January 1975

## FROM THE DIRECTOR'S DESK

The twelve STAR committee reports will be available soon in limited numbers for review. Each of you are encouraged to review those of particular interest to you and provide any reactions or suggestions to the chairman of the respective committee. A departmental office in each building and each district station has a set which you may check out for review and each committee chairman has "loan copies" of his committee's report. The committee, chairmen and corresponding reports are:

- |                                     |  |
|-------------------------------------|--|
| 1. Beef - Keith Gilster             | 7. Wheat - Dale Anderson                     |
| 2. Swine - Larry Bitney             | 8. Other Crops - R. B. O'Keefe               |
| 3. Other Livestock - F. E. Eldridge | 9. Nebraska Economy, etc. - Phil Henderson   |
| 4. Feed Grains - D. G. Hanway       | 10. Marketing - Mike Turner                  |
| 5. Forages - Wally Moline           | 11. Natural Resources, etc. - W. E. Splinter |
| 6. Soybeans - Charles Stonecipher   | 12. Human Resources - Paul Gessaman          |

H. W. Ottoson

## IANR FACILITIES REQUESTS - 1975-76

The Capital Improvements Projects approved by the Board of Regents and recommended for funding in the present legislative year for 1975-76 include the following for the IANR:

Priority 3	Plant Science Complex	\$1,232,000*
Priority 4	South Central Station Headquarters	300,000*
Priority 11	Agr'l Engineering Renovation & Addition	150,000*
Priority 12	Miscellaneous Renovations - UN-L	400,000
Priority 15	Miscellaneous Renovations - Outstate	150,000
Priority 17	Swine/Beef Facility - UNSTA	125,000
Priority 18	Irrigation Development - SC Station	60,000

(37 projects in list for total NU System)

\*Partial funding only in 1975-76

The Plant Science Complex consists of four components:

1. An academic building near Keim Hall (about 100,000 sq. ft.)
2. A greenhouse-headhouse research complex north of Baker Hall (about 100,000 sq. ft.)
3. A small teaching-greenhouse facility near Keim Hall
4. Renovation of Keim Hall for integral usage with item 1.

It is planned that Agronomy, Horticulture and Plant Pathology departments would occupy the new academic building--Keim Hall combination. Forestry and Entomology would have increased and renovated space in present Plant Industry building. All the Plant Science departments would utilize the new greenhouse-headhouse facilities. This plan and proposal would provide much needed increases and improvements in space available to these departments and release for other critical needs several smaller facilities on the campus; e.g., second floor of Miller Hall, Kiesselbach Crops Lab.

## PERSONNEL ACTIONS

Cross, Otis, E. - Assoc. Prof. of Agricultural Engineering - Two Year Assignment, Kabul University Contract, Afghanistan (Change of Duty)  
Doane, Ted H. - Assoc. Prof. of Animal Science - Two Year Assignment, Kabul University Contract, Afghanistan (Change of Duty)  
Vint, Larry F. - Assist. Prof., Dept. of Animal Science - MARC - courtesy app. (resig.)  
Young, Joseph O. - Prof. of Horticulture - Two Year Assignment, Kabul University Contract, Afghanistan (Change of Duty)

## GRANTS AND CONTRACTS

Anderson, F. N. - Agronomy (PH Sta.) - Grower - G. W. Joint Research Comm.	\$12,860
Burnside, O. C. - Agronomy - North Central Weed Control Conference	580
Campbell, J. B. - Entomology (NP Sta.) - Dow Chemical Company	500 ✓
Daigger, L. A. - Agronomy (PH Sta.) - Grower - G. W. Joint Research Comm.	2,575
Kerr, E. D. - Plant Pathology (PH Sta.) - Grower - G. W. Joint Research Comm.	1,350
Moser, B. D. - Animal Science - Waldo Farms	1,000
Wicks, G. A. - Agronomy (NP Sta.) - Grower - G. W. Joint Research Comm.	4,800

## GENERAL NOTES

1. Our thanks to you for your record attendance and fine participation in the recent Experiment Station - Extension Workers Conference. My personal thanks to the entire planning committee and particularly to the program subcommittee chaired by Drs. Krohn and Sullivan. Your comments and suggestions for making the next conference (1977) even better will be solicited soon by Dr. Florell. Please respond to his communications.
2. Schnieder on safety - Check to see if that laboratory and/or field equipment has shielding on all moving parts that could grab clothing or parts of your body. If not, you should cause shielding to be installed. You owe it to your support staff and students if not yourself.
3. Congratulations to Agnes Arthaud on her fine and well deserved honors from the Home Agents and the Nebraska Cooperative Extension Service.
4. Sahs sez - If recent storm depleted your emergency supplies or equipment, now is the time to re-prepare. If it caught you short of emergency provisions in car or home, take steps to be better prepared next time. It is only January.
5. Grants and indirect costs - Please communicate with me as you engage in preparing grant contract or cooperative agreement proposals. Indirect cost rates are now 63.59% of salaries and wages (36.33% for off campus units) for most grants and all contracts.
6. Evolution of reaction to a new idea - Indignant rejection; reasoned objection; qualified opposition; tentative acceptance; qualified endorsement; judicious modification; cautious adoption; impassioned espousal; proud parenthood; dogmatic propagation.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - December 1974

Journal Articles (contact authors for more information)

3910. Effects of Radiofrequency Electric Fields on Permeability to Water of Some Legume Seeds, with Special Reference to Strophilar Conduction. L. A. T. Ballard, S. O. Nelson, T. Buchwalk and L. E. Stetson. Seed Science and Technology.
3911. Bovine Hemorrhagic Syndrome Related to T-2 Mycotoxin. Clair M. Hibbs. Proceedings, 17th Annual Conference of American Association of Veterinary Laboratory Diagnosticians.
3912. Nitrate Movement and Distribution in the Soil Profile of Differentially Fertilized Corn Watersheds. G. E. Schuman, T. M. McCalla, K. E. Saxton and H. T. Knox. Soil Science Society of America Proceedings.
3913. Evaluation of Selected Fungicides for the Control of Anthracnose and Seedling Blight of Alfalfa. Louis T. Palmer and W. R. Kehr. Plant Disease Reporter.
3914. Operational Characteristics of Meat Animals, Part IV: Turkeys, Large White and Bronze. N. C. Teter, J. A. DeShazer and T. L. Thompson. Transactions of the ASAE.
3915. Calculation of Protein, Water and Energy Input Requirements of Beef Animals. N. C. Teter and J. A. DeShazer. Transactions of the ASAE.
3916. Optimum Conditions for High Resolution Gradient Analysis. R. W. Allington, M. K. Brakke, J. W. Nelson, C. G. Aron and B. A. Larkins. Analytical Biochemistry.

Journal Abstracts (contact authors for more information)

- 74-402. Carbon Dioxide Concentration and Flux in a Large Agricultural Region of the Great Plains of North America. S. B. Verma and N. J. Rosenberg. Bull. Amer. Meteorol. Soc.
- 74-403. Anhydrous Ammonia Application in Irrigation Water vs Mechanical and Its Effect on Corn Yields. H. R. Mulliner and K. D. Frank. American Society of Agricultural Engineers.
- 74-404. A Fifteen Year Phenological Record of Pasture Plants Near Lincoln, Nebraska. M. K. McCarty. North Central Weed Control Conference.
- 74-405. Weed Control and Forage Production in the Nebraska Sandhills. L. A. Morrow and M. K. McCarty. North Central Weed Control Conference.
- 74-406. Stability and Production of Patulin in Cheddar Cheese. W. T. Stott and L. B. Bullerman. 35th Annual Meeting, Institute of Food Technologists June 8-12, 1975.
- 74-407. Effect of Low Dose  $\gamma$ -Irradiation on Selected Enterotoxin Producing Strains of Clostrium perfringens. H. M. Barnhart and L. B. Bullerman. 35th Annual Meeting, Institute of Food Technologists June 8-12, 1975.

- 74-408. Application of Affinity Chromatography to Isolation and Purification of Clostridium perfringens Enterotoxin. H. M. Barnhart, L. B. Bullerman, E. M. Ball and F. W. Wagner. 35th Annual Meeting, Institute of Food Technologists June 8-12, 1975.
- 74-409. Examination of Swiss Cheese for Incidence of Mycotoxin Producing Molds. L. B. Bullerman. 35th Annual Meeting, Institute of Food Technologists June 8-12, 1975.

BULLETINS PRINTED

- SB 532. Limiting Liability When Private Property is Used for Outdoor Recreation--Volume II, Insurance Aspects. Maurice Baker, Ivan Schmedemann, Thor Hertsgaard, Willard Schutz and George E. Radosevich.
- OTC 163. Nebraska Spring Small Grain Variety Tests 1974. A. F. Dreier, J. W. Schmidt, L. A. Nelson and R. S. Moomaw.
- OTC 164. Nebraska Corn Performance Tests 1974. A. F. Dreier, P. H. Grabouski, G. M. Dornhoff and R. S. Moomaw.