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# Agricultural Experiment Station News June 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 NEWS

Vol. 7, No. 12, June 1975

## FROM THE DIRECTOR'S DESK

Goodbye to Duane Acker--In the short months he has spent with us, much has happened, and Duane's energy and dedication have been instrumental. Two budgets have been activated during this period, and a new organization has been brought into being. The programs of two new units, Conservation and Survey, and WRRI have been articulated with those of the three agricultural divisions. Important progress has been made with respect to physical facilities. The visibility of the Institute within the University, in the state house, and among the people of the state in general has been perceptibly enhanced. He has been a pleasant colleague and boss! Our best wishes go with Dr. and Mrs. Acker in their new assignment.

In the meantime, business goes on. In my absence, while serving as Acting Vice Chancellor, Bob Kleis will be Acting Director of the Station, with the able help of everyone in the Experiment Station office. My best wishes to you for a good summer and good research progress.

We will also miss Pat Sailor, who is leaving Nebraska to become Director of the School of Home Economics at Louisiana State. Pat has been a most effective member of the Station team as Assistant Director. We wish her well. Howard W. Ottoson

## NEW LEADERSHIP - HORTICULTURE AND WRRI

On or about July 1, Dr. Millard Wayne Hall will replace Warren Viessman as Director of our Water Resources Research Institute. Wayne comes to us from a similar position at the University of Maine. He received his Civil Engineering degree from Vanderbilt and his graduate degrees in Sanitary Engineering from the University of Illinois where he also served on the staff. Wayne and Marlene have a daughter, Crystal Diane, 16, and a son Michael Wayne, 12. We look forward to having them with us.

Also on July 1, Dr. Roger Uhlinger of our North Platte Station staff will take over the Chairmanship of the Department of Horticulture. We are pleased that in this case one of our own able staff members has been picked for this important position. Rogers B.S. from the University of Rhode Island was in Chemistry and his graduate degrees from Cornell were in Genetics. We also look forward to having Roger and Winifred with their three sons David, 17, Drake 15, and Keith, 13, in Lincoln.

## PERSONNEL ACTIONS

Childears, John M. - Instructor in Animal Science, MARC, Courtesy Appt. (Resignation)
Dickason, Elvis A. - Relinguishing the Directorship of International Programs (Change)
Olson, Robert A. - Professor of Agronomy (returns from leave of absence)
Peters, Edward J. - Assistant Professor of Poultry and Wildlife Sciences (new appt.)
Sailor, Patricia J. - Associate Dean Home Economics & Asst. Director AES (resignation)
Skinker, Georgia L. - Instr. & Ext. Specialist - Family Economics & Management (resignation)
Stair, Ernest J. - Professor of Veterinary Science (resignation)
Webster, Jason S. - Asst. Professor of Agronomy, Emeritus, PH Sta. (retirement)

## GRANTS AND CONTRACTS

| | |
|---|---|
| Burnside, O. C. - Agronomy - Lilly Research Laboratories | $ 1,100 |
| Burnside, O. C. - Agronomy - CIBA-Geigy Corporation | 1,200 |
| Compton, W. A. - Agronomy - Illinois Foundation Seeds, Inc. | 1,000 |
| Dillon R. D. - Agricultural Education - Job Service of Nebraska | 2,772 |
| Fenster, C. R. - Agronomy (PH Sta.) - Miscellaneous Donors | 1,200 |
| Fischbach, P. E. - Agricultural Engineering - Miscellaneous Donors | 5,600 |
| Hagen, A. F. - Entomology (PH Sta.) - Miscellaneous Donors | 2,200 |
| Klopfenstein, T. J. - Animal Science - Farmland Industries | 4,000 |
| Mattern, P. J. - Agronomy - AID | 330,877 |
| Moomaw, R. S. - Entomology (NE Sta.) - Miscellaneous Donors | 2,500 |
| Peters, L. L. - Entomology (SC Sta.) - Miscellaneous Donors | 2,300 |
| Rush, Ivan G. - Animal Science (PH Sta.) - Diamond Shamrock Co. | 12,170 |
| Shahani, K. M. - Food Science and Tech. - Dannon Milk Products | 4,200 |
| Sullivan, T. W. - Poultry Science - Commercial Solvents Corporation | 6,000 |
| Thompson, T. L. - Agricultural Engineering - USDA, ARS | 29,897 |
| Twiehaus, M. J. - Veterinary Science - Miscellaneous Donors | 2,453 |
| Underdahl, N. R. - Veterinary Science - Schering Corporation | 4,500 |
| Van Etten, J. L. - Plant Pathology - HEW, NIH | 27,988 |
| Vidaver, A. K. - Plant Pathology - HEW, NIH | 43,024 |
| Wicks, G. A. - Agronomy (NP Sta.) - CIBA-Geigy Corporation | 1,600 |

## GENERAL NOTES

1. Tractor Power and Safety Day at the Field Laboratory is scheduled for July 24. This will again attract many visitors and much interest in various programs there. We need to get ready for this event in terms of appearance and presenting our programs.

2. Our District Stations and Labs have several field days and tours scheduled for this summer as follows:

   High Plains Agricultural Laboratory Field Day----------June 23
   South Central Station - Wheat Field Day----------June 24
   Northeast Station - Beef & Swine (Twilight)----------July 23
   North Platte Station - Haymakers Field Day----------July 26
   Panhandle Station Field Day----------August 7
   South Central Station - Crops Field Day----------August 19
   Sandhills Agricultural Field Day----------August 28
   Northeast Station - Crops Field Day----------September 9
   Horticulture Open House - Field Lab----------September 28
   Hort Open House - NP Sept. 28

3. Dr. Mike Ferrill, new Chairman of Forestry is now with us. His family will be joinin him in their new home south of Lincoln very soon.

4. Dr. Roy Dillon will be serving next year as Interim-Chairman of Agricultural Educatio as Dr. Horner escapes to professional duties.

5. As capitol construction projects were deliberated this year by the Legislature the IANR fared very well thanks to the efforts of many of our supporters. LB 609 authorizes construction and provides $150,000 for planning a Plant Sciences Complex for a cost not to exceed $10,000,000. LB 611 provides $40,000 for design of a South Central Station Headquarters building with a cost not to exceed $640,000.

6. We trust that you have taken or are making plans to take your vacation. This is important to you, your families and your work. Have fun and come back enthused.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - May 1975

Journal Articles (contact authors for more information)

3986. Quantitative Genetic Studies of the NP3R Random-Mating Grain Sorghum Population. Jinda Jan-orn, C. O. Gardner and W. M. Ross. Crop Science.

3987. Nature and Epidemiological Significance of Infection of Bean Seed by *Whetzelinia sclerotiorum*. J. R. Steadman. Phytopathology.

3988. Influence of Dietary Energy and Protein on Reproductive Performance of Finn-cross Ewe Lambs. R. K. Christenson, D. B. Laster and H. A. Glimp. Journal of Animal Science.

3989. Result Demonstrations are Field Classrooms. L. A. Daigger, D. D. Siffring and D. W. O'Dea. Journal of Agronomic Education, American Society of Agronomy.

3990. Economics of Alternative Beef Waste Management Systems. Maurice Baker. International Waste Symposium.

3991. Characterization of Different Biological Types of Cattle. III. Carcass Composition, Quality and Palatability of Steers. R. M. Koch, M. E. Dickeman, D. M. Allen, M. May, J. D. Crouse and D. R. Campion. Journal of Animal Science.

3992. Characterization of Radiation Resistant Vegetative Bacteria in Beef. Ardyce B. Welch and R. B. Maxcy. Applied Microbiology.

3993. Genotype and Phenotypic Variances in Three Grain Sorghum Random-Mating Populations Estimated from $S_1$ Families. J. P. Eckebil, W. M. Ross and C. O. Gardner. Crop Science.

3994. Cross-Fertilization in Seed Production in Relation to Forage Yield of Alfalfa. W. R. Kehr. Crop Science.

3995. The Nutrition Knowledge and Attitudes of Registered Nurses. Janet Vickstrom and Hazel Fox. Journal of American Dietetic Association.

3996. Registration of Nebar Barley. J. W. Schmidt and A. F. Dreier. Crop Science.

3997. Registration of Sentinel Wheat. J. W. Schmidt, V. A. Johnson, P. J. Mattern, A. F. Dreier and D. V. McVey. Crop Science.

3998. Registration of Buckskin Wheat. J. W. Schmidt, V. A. Johnson, P. J. Mattern, A. F. Dreier, D. V. McVey and H. W. Somsen. Crop Science.

3999. Registration of Homestead Wheat. J. W. Schmidt, V. A. Johnson, P. J. Mattern, A. F. Dreier and D. V. McVey. Crop Science.

4000. Registration of HiPlains Wheat. J. W. Schmidt, V. A. Johnson, P. J. Mattern, A. F. Dreier and D. V. McVey. Crop Science.

4001. Heat Activation of Conidial Germination in *Periconia circinata*. Larry D. Dunkle, Gary N. Odvody and Brad A. Jones. Phytopathology.

4002. Instability of Patulin in Cheddar Cheese. W. T. Stott and L. B. Bullerman. Journal of Food Science.

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Journal Abstracts (contact authors for more information)

75-437. The Effect of Dehydration of Alfalfa on N Utilization. K. E. Lanka, Robert Britton, Terry Klopfenstein, Lyle Livingston and George Kohler. Journal of Animal Science.

75-438. The Effect of Zearalanol on Body Weight Gains and Pelvic Size in Calves. K. R. Helm, E. F. Ellington and M. K. Nielsen. Journal of Animal Science.

75-439. Influences of Oviductal and Uterine Removal in the Cyclic Rat. J. L. Rabe and E. F. Ellington. Journal of Animal Science.

75-440. Pituitary and Thyroidal Characteristics of an Obese Inbred Line of Rats. D. F. Donovan and E. F. Ellington. Journal of Animal Science.

75-441. Pelvic Size and Fertility in Beef Heifers Following Prepuberal Estrogen-Progestogen Administration. J. L. Lesmeister and E. F. Ellington. Journal of Animal Science.

75-442. Effect of Ovulation Rate Selection on Gain, Backfat, Age and Weight at Puberty. J. R. Newton, R. A. Pumfrey, P. J. Cunningham and Dwane R. Zimmerman. Journal of Animal Science.

75-443. Heritabilities of Swine Reproductive and Performance Traits. Robert A. Pumfrey, P. J. Cunningham and Dwane R. Zimmerman. Journal of Animal Science.

75-444. Selection Alternates for Feed Efficiency. William T. Ahlschwede and T. E. Socha. Journal of Animal Science.

75-445. Effect of Zone Heat, Hovers or Housing on Performance of Growing Pigs During Winter. R. D. Fritschen and P. J. Cunningham. Journal of Animal Science.

75-446. Effect of Confinement on Claw Lesion Incidence Among Growing-Finishing Swine. R. D. Fritschen. Journal of Animal Science.

75-447. Effect on Monensin on In Vitro VFA and Lactic Acid Levels. David K. Beede and Stanley D. Farlin. Journal of Animal Science.

75-448. A Poultry Science Short Course for Japanese Agricultural Trainees at the University of Nebraska. Malik Masoud Ahmad. Poultry Science.

75-449. Relationships of Egg Shell Thickness and Specific Gravity to Quasi-Static Compression. Malik M. Ahmad, G. W. Froning, F. B. Mather and L. L. Bashford. Poultry Science.

BULLETINS PRINTED

SB 519. Vegetable Gardening in Nebraska. R. E. Neild.

SB 535. A Five-Year Comparison of Insecticides Applied to Control Larvae of Western and Northern Corn Rootworms. Z. B. Mayo.