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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. 10, April, 1978

## FROM THE DIRECTOR'S DESK

County Agents have both a need and a reasonable expectation to be made aware of IANR program activities in their counties. They are staff colleagues with specific program responsibilities and relationships to the people and organizations in a county. It is important to them and to us all that they not be caught "off guard" by our activities in their area. This is not a process of seeking approval of the Agent, but is basically a professional courtesy to an institutional colleague.

While their specific program responsibilities relate to Extension, their public appropriately regards them as representatives of all agricultural and/or home economics programs of the University. This of course includes activities of research, testing, demonstration, etc., conducted at off-Station facilities by Experiment Station staff.

If the Agent is to have any involvement in arrangements for, conduct of, or follow-up on the activity, he should be brought in on the early planning. Whether or not your objectives require his involvement, there may be opportunity for "greater mileage" through also relating it to his program. Let us not let terms like "extension" or "research" interfere with team effort in serving agriculture.

R. W. Kleis

\* \* \*

**ROLES OF THE UN-L FIELD LABORATORY AND THE DISTRICT STATIONS:** In April, 1962, approximately 8,600 acres of land was acquired at the former Nebraska Ordnance Plant, Saunders County, Wahoo, Nebraska. In 1966 an additional 640 acres were acquired. These tracts of land and buildings have been developed into the UN-L Field Laboratory. The translocation of animal and plant research projects from Lincoln to the Field Lab occurred between 1964 and 1978. A 350-acre parcel of land is being retained at Havelock for labor intensive research projects. The Havelock swine farm will be completely phased out by July 1, 1978, completing the shift from Lincoln.

With the development of research programs and facilities at the Field Laboratory, it is considered to be the field research unit for the campus based staff of the Agricultural Experiment Station. It serves the statewide program and the Southeast District as well as the other four districts, where applicable.

The district stations provide for research requiring the specific conditions represented in their respective areas. They also provide for district specialists involvement in research and the inherent on-site demonstration value. Individually and in total we believe that these units serve well the agricultural research needs of the state.

W. W. Sahs

PERSONNEL ACTIONS

Bodman, Gerald R. - Ag. Engineering - Assoc. Professor - New Appointment  
 Bucklin, Judith - Human Dev. & Family - Instructor - Leave of Absence  
 Christensen, John M. - P.H. Dist. Ext. Forester - Resignation (to Okla. State Univ.)  
 Johnson, Grant I. - Ag.Comm. - Asst. Professor - Retirement  
 Meyer, George E. - Ag. Engineering - Asst. Professor - New Appointment  
 Riordan, Terrance P. - Horticulture - Assoc. Professor - New Appointment

GRANTS AND CONTRACTS

Bullerman, L.B. - Food Sci. & Tech. - Gov. of Libya	\$ 2,500
Burnside, O.C. - Agronomy - CIBA-GEIGY	1,000
Farlin, S.D. - Animal Science - Eli Lilly & Co.	13,600
Grabouski, P.H. - Agronomy (N.P. Sta.) - Platte Valley Alfalfa Assn.	1,200
Haderlie, L.C. - Agronomy - E. M. Laboratories, Inc.	500
Kelling, C.L. - Vet. Science - Nebraska Pork Producers	3,200
Kelling, C.L. - Vet. Science - Nebraska SPF	2,400
Kittok, R.J. - Animal Science - UNL Research Council	971
Kleis, R.W. - International Programs (IANR) - U.S. AID (Syria)	40,181
Kleis, R.W. - International Programs (IANR) - U.S. Dept. of State (Romania)	9,400
Moomaw, R.S. - Agronomy (Northeast Sta.) - CIBA-GEIGY	500
Satterlee, L.D. & Kendrick, J.G. - Food Sci & Tech & Ag Econ - Natl Sci Fdtn	134,940
Steadman, J.R. - Plant Pathology - UNL Research Council	990
Underdahl, N.R. - Vet. Science - Waldo Family	1,200
Wilson, R.G. - Agronomy (PH Sta.) - Conrad Hinrich Donner	500
Wilson, R.G. - Agronomy (PH Sta.) - PPG Industries, Inc.	1,000
Witkowski, J.R. - Entomology (Northeast Sta.) - Union Carbide Corp.	1,000

GENERAL NOTES

1. Please be reminded that University equipment is not to be used for other than University programs and activities. Personal usage by employees or students is not only illegal but may involve serious liability questions by those either doing or allowing it.
2. The Nebraska Station staff members prepared and we submitted seven fine grant proposals to the CR (formerly CSRS) in February under the PL-89-106 special grants program (Soybeans, Pest Management, Transportation and Genetics). We have had two selected for final screening from about 75, from which 18 or 20 will be funded. They started with over 500 submittals. (Yes, I agree this is an inefficient process).
3. More recently we have submitted twelve proposals to SEA (USDA) under the new 1978 Competitive Grants program (Human Nutrition and Basic Plant Sciences). There may be 70 or 80 funded nationally but they aren't confined to Land-Grant units or even to Universities. (Another hoard converging on a cookie jar). We are hopeful of winning some.
4. There is a new FR (formerly ARS) team being assigned at the Nebraska Station. Three livestock entomologists are being transferred here from California and Texas to establish one of two national units for livestock insects research. It is anticipated that this group may be expanded in the future.
5. The Foods and Nutri. Building will be designated RUTH LEVERTON HALL in ceremonies on May 6.
6. In March 1973 the old Administrative Annex was removed to make way for the imminent development of the 38th Street campus entrance. That entrance is now nearing completion.
7. Lancaster County 4-Hers have expressed appreciation for staff contributions to their newspaper collections (over a ton per week). Their "drops" continue at Cotner and Holdrege, at Mr. B's (48th & Van Dorn), and at Safeway (70th and O).
8. The Government is lucky that taxpayers have what it takes.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - March 1978

Journal Articles (contact authors for more information)

5480. Nitrogen Digestion and Balance of Dehydrated Alfalfa in Sheep. K. E. Lanka, R. A. Britton, T. J. Klopfenstein, A. L. Livingston and G. O. Kohler. Journal of Animal Science.
5481. Effects of Adding Sodium Bentonite to High Grain Diets for Ruminants. D. P. Colling, R. A. Britton, S. D. Farlin and M. K. Nielsen. Journal of Animal Science.
5482. Forage Composition and Utilization of Grain Sorghum Residue by Beef Cows. John K. Ward, L. J. Perry, Jr., Danny Smith and John Schmitz. Journal of Animal Science.
5483. Weather and Climate Modification on the Large and Small Scale. Norman J. Rosenberg. Invitational Paper for Symposium - "The Long Term Outlook Regarding Soil-Climate Interrelationships" at the 11th Congress of the International Society of Soil Science, Alberta, Edmonton, Canada, June 1978.
5484. Quality of Two Cool-Season Grasses as Affected by Selected Herbicides. M. K. McCarty. Weed Science.
5485. Alfalfa Protein Concentrate in Four Cultivars at Three Growth Stages. W. R. Kehr, R. L. Ogden and L. D. Satterlee. Agronomy Journal.
5486. Registration of 29 Greenbug-Resistant Sorghum Germplasms. Paul T. Nordquist and S. Dean Kindler. Crop Science.
5487. Diallel Cross Analysis of Yield Components in Hard Red Winter Wheat. John W. Schmidt, Kung-Ping P. Shao, Virgil A. Johnson and Robert Mumm.
5488. Adult Education Program for Blind Puerto Rican Homemakers. Miriam R. Rodriguez and Lois O. Schwab. Home Economics Research Journal.
5489. Modifications of Dairy Foods by Lactic Microorganisms and Their Significance. Arun Kilara and Khem M. Shahani. Journal of Dairy Science.
5490. Growth Stages of Wheat (Triticum Aestivum L.). R. P. Waldren and A. D. Flowerday. Agronomy Journal.
5491. Distribution of Dry Matter, Nitrogen, Phosphorus, and Potassium in Winter Wheat (Triticum Aestivum L.). R. P. Waldren and A. D. Flowerday. Agronomy Journal.
5492. Ripple Control of Irrigation Loads at Southwest Public Power District. L. E. Stetson, D. H. Husted and F. J. Potthoff. Transactions of the ASAE.
5493. Confounding of Alternate Respiration by Lipxygenase Activity. David J. Parrish and A. Carl Leopold. Biochemical & Biophysical Research Communication
5494. Soybean Seed Aging and Tissue Elasticity. David J. Parrish, Milford M. Hanna and A. Carl Leopold. Plant Physiology.

Journal Abstracts (contact authors for more information)

- 78-994. Copper, Zinc and Magnesium Nutritional Status of Adolescent Boys as Affected by Dietary Fiber. C. Kies, L. Drews and H. M. Fox. Proceedings of XI International Congress of Nutrition.
- 78-995. Germination of Four Species of Wildflowers Under Laboratory Conditions. S. S. Salac. Association of Official Seed Analysts.
- 78-996. Effects of Zeranol on Endocrine and Endocrine Related Structures. P. Kwan and E. F. Ellington. Journal of Animal Science.
- 78-997. Anatomical and Reproductive Effects of Prepuberal Estrogen-Progestogen Administration in Beef Heifers. J. L. Lesmeister and E. F. Ellington. Journal of Animal Science.
- 78-998. The Effect of Smokehouse Humidity on Cooked Bologna Characteristics and Energy Loss. D. K. O'Connell, R. W. Mandigo and D. G. Olson. Journal of Animal Science.
- 78-999. Consumers Attitudes and Knowledge of Pork. F. Caporaso and T. J. Janssen. Institute of Food Technologists 38th Annual Meeting, Dallas, Texas.
- 78-1000. Consumer Acceptance of Beef Strip Loin Steaks of Different Marbling Levels Cooked to Various End-point Temperatures. F. Caporaso, D. G. Olson and R. W. Mandigo. 1978 Joint Annual Meeting of the American Dairy Association and the American Society of Animal Science, East Lansing, Michigan.
- 78-1001. Effects of Four Levels of Fat on the Physical and Organoleptic Properties of Restructured Beef and Pork. K. E. Levick, R. W. Mandigo and D. G. Olson. Journal of Animal Science.
- 78-1002. Sterility Between Alfalfa Weevil Strains: A Case of Cytoplasmic Incompatibility. Lyle E. Klostermeyer and George R. Manglitz. North Central Branch - ESA, Madison, Wisconsin - April 1978.
- 78-1003. Effect of Fiber on Calcium and Phosphorus Utilization in Baby Pigs. II. A. C. Okonkwo, T. D. Crenshaw, E. R. Peo, Jr., B. D. Moser and P. J. Cunningham. American Society of Animal Science.
- 78-1004. Effect of Fiber on Calcium and Phosphorus Utilization in the Baby Pig. A. C. Okonkwo, T. D. Crenshaw, E. R. Peo, Jr., B. D. Moser and P. J. Cunningham. American Society of Animal Science.
- 78-1005. Effect of Level and Source of Protein on Dry Matter Intake in Steers Suddenly Changed to a High Concentrate Diet. W. W. Steen, S. D. Farlin., R. A. Britton and G. B. Huntington. Journal of Animal Science.

BULLETINS PRINTED

- OTC 187. Nebraska Alfalfa Variety Tests 1963-1977. A. F. Dreier, W. R. Kehr, R. S. Moomaw, F. N. Anderson, P. H. Grabouski and L. V. Svec.
- RB 282. Results of the First High Protein-High Lysine Wheat Observation Nursery Grown in 1975. K. D. Wilhelmi, S. L. Kuhr, V. A. Johnson and P. J. Mattern.