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# Agricultural Experiment Station News January 1978

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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. 10, No. 7, January, 1978

## FROM THE DIRECTOR'S DESK

New Years is a time of stock taking, of looking forward, of identifying problems to be solved and challenges to be met. For the Experiment Station the following issues or goals come to mind as we contemplate 1978 and beyond. No order of priority is implied:

(1) Phase II of Field Laboratory development. The completion of the swine facilities will mark the end of the basic development phase. Thus, we begin Phase II, the maturation phase.

(2) The development of appropriate emphasis on energy in Station research.

(3) The completion of the Veterinary Science staffing program.

(4) Further improvement of research support in a few units.

(5) An appropriate response by the Station to the new competitive research grant program established under Title XIV of the Agricultural Act of 1977.

(6) Achieving a satisfactory relationship between appropriated and revolving fund operations.

(7) The activation of research networks in sorghum, wheat and corn under Title XII of the International Development and Foreign Assistance Act of 1975.

(8) Further fine tuning of relationships between ARS and the Station.

(9) Coordination of procurement and use of large laboratory equipment.

(10) Certain facilities at District Stations.

(11) Increased multi-disciplinary structure in our research programs.

(12) Development and growth of present and new staff.

(13) Enhancement of our grassland research programs.

(14) Further emphasis on water use efficiency.

(15) Coordination of climatologically related research.

(16) Permanent establishment of the Sandhills Agricultural Laboratory.

Howard W. Ottoson

## PERSONNEL ACTIONS

Carlson, Jan E. - Inst. - Cons. & Surv. Div. - Resignation
DeShazer, James D. - Prof. of Ag. Eng. - Leave of Absence
Hendricks, Haven B. - Assoc. Prof. of An. Sci. (SC Sta.) - Resignation
Leonard, Wanda M. - Asst. Prof. of Ag. Econ. (SE Sta.) - New appointment
Nevius, Anna B. - Inst. of Statistics - Biometrics Center - Resignation
Payne, Loyal C. - Prof. of Vet. Sci. - Retirement
Shasby, Mark B. - Inst. - Forestry, Fisheries & Wildlife - Resignation
Shurtleff, Daniel R. - Inst. - Cons. & Surv. Div. - Resignation
Stubbendieck, James L.-Assoc. Prof. of Agron. - Relocation to Lincoln

## GRANTS AND CONTRACTS

| | |
|---|---|
| Baker, M. E. - Ag. Econ.-US Army Corp. of Engineers | $ 3,200 |
| Burnside, O. C. - Agron. - Chemagro Agricultural Division | 500 |
| Campbell, J. B. - Ent. (NP Sta.) - American Cyanamid Company | 500 |
| Campbell, J. B. - Ent. (NP Sta.) - Dow Chemical U.S.A. | 1,000 |
| Daigger, L. A. - Agron. (PH Sta.) - Lockwood Corp. | 6,900 |
| Fischbach, P. E. - Ag. Eng. - Massachusetts Institute of Technology | 32,100 |
| Haderlie, L. C. - Agron. - Velsicol Chemical Corporation | 750 |
| Hudson, D. B. - Vet. Sci. (NP Sta.) - Schering Corp. & Norden Labs | 1,150 |
| Mayo, Z. B. - Ent. - Environmental Protection Agency | 25,000 |
| Nordquist, P. T. - Agron. (NP Sta.) - Anna H. Elliott Fund | 6,000 |
| O'Keefe, R. B. - Hort. (PH Sta.) - Dept. of Ag., State of Nebraska | 4,000 |
| Peo, E. R., Jr. - An. Sci. - Bayvet Division, Cutter Laboratories | 4,500 |
| Perry, L. J., and Stubbendieck, J. L. - Agron. - Anna H. Elliott Fund | 6,000 |
| Rehm, G. W. - Agron. (NE Sta.) - Potash/Phosphate Institute | 500 |
| Shearman, R. C. - Hort. - CIBA-GEIGY, OMC and Eli Lilly | 900 |

## GENERAL NOTES

1. We were all greatly saddened by the recent death of Dr. L. J. Perry. This tragedy took an outstanding scientist, fine man and good friend from us. Our thoughts are with his family in this most difficult time for them.

2. Please write me a note indicating your thoughts about the usefulness of the AES newsletter. Is it worthwhile? Are there components which are not worthwhile? Should it be abandoned? Do you have suggestions for improving it? Just a hand written note on a buck slip giving your comments would be appreciated.

3. The attendance at the AES components of the IANR Staff Conference was most gratifying to our office. We hope that the program proved valuable to you. Please make your evaluative inputs to the committee for the benefit of future planning.

4. Schnieder on Safety - Cold weather, age and strenuous exercise (e.g. snow shoveling) do combine to increase heart stress. Please be careful.

5. Sahs sez - Hopefully the recent hunting season at the Field Lab did more for the public relations than the food supply. The season statistics are 2,027 hunters, 343 pheasants, 112 rabbits, 13 quail and 8 squirrels. The Omaha area accounted for 92% of the hunters. We appreciate the cooperation of AES personnel in this worthwhile "extra curricular" activity.

6. "If at first you don't succeed, try doing it the way she told you to."

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - December 1977

Journal Articles (contact authors for more information)

5421. Lettuce Salad as a Carrier of Microorganisms of Public Health Significance. R. B. Maxcy. Journal of Food Protection.

5422. A Methodology to Select the Optimum Machinery Complement Size. Myles J. Watts and Glenn A. Helmers. Western Journal of Agricultural Economics.

5423. Separation of Coarse Solids from Beef Cattle Feedlot Manure. C. B. Gilbertson and J. A. Nienaber. Transactions of the American Society of Agricultural Engineers.

5424. Characteristics of Mechanically Formed Hay Packages After Storage. L. R. Verma, K. Von Bargen, F. G. Owen and L. J. Perry, Jr. Proceeding of International Grain and Forage Harvesting Conference.

5425. Nitrate Toxicity in Cattle. Clair M. Hibbs. Veterinary Medicine, Small Animal Clinician or Veterinary and Human Toxicology.

5426. IRRIGATE, A University of Nebraska Irrigation Scheduling Model. Philip Tscheschke, James R. Gilley, Tom Thompson and Paul Fischbach. American Society of Agricultural Engineers Journal.

5427. Leaf Spot of Field Corn Caused by *Pseudomonas andropogonis*. Anne K. Vidaver and Randall R. Carlson. Plant Disease Reporter.

5428. Local and Regional Components of Sensible Heat Advection. T. W. Brakke, S. B. Verma and N. J. Rosenberg. Journal of Applied Meteorology.

5430. Dietary Fiber Effects on Nutritional Status of Weanling Mouse. K. Keim and C. Kies. Cereal Chemistry.

5431. A Microbiological Assay for Penicillic Acid. F. J. Olivigni and L. B. Bullerman. Journal of Food Protection.

5432. Technological Options in Drought. Norman J. Rosenberg. AAAS Symposium Volume - North American Droughts.

5433. Frequency and Moisture Dependence of the Dielectric Properties of High Moisture Corn. S. O. Nelson. Journal of Microwave Power.

5434. Oat Yield the Year Following Herbicide Application to Soybeans. R. S. Moomaw and Alex R. Martin. North Central Weed Control Conference Report.

5435. Establishment of Warm Season Grass Species with Atrazine. R. S. Moomaw and Alex R. Martin. North Central Weed Control Conference Report.

5436. Chapter Activities and Their Potential in the Development of Education and Training Opportunities in Waste Management. Lloyd N. Mielke and Stanley R. Wilkinson. Journal of Soil and Water Conservation.

5437. Niacin and Vitamin $B_6$ Utilization from Defined-Formula Diets by Adult Humans. R. L. Greenfield, C. Kies and H. Fox. Journal of Dietetics.

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5438. Forage and Weed Yields and Forage Quality of Three Nitrogen Fertilized Warm-Season Grasses. L. J. Perry, Jr. and David Baltensperger. Range Management.

5439. Effects of Alachor and Trifluralin on Nutrient Uptake in Oats and Soybeans. D. L. Bucholtz and T. L. Lavy. Agronomy Journal.

5440. The Complexity of Measuring the Impact of Climatic Change on Agriculture. R. E. Neild. Nebraska Academy of Science.

5441. Effects of Diazacholesterol, Triparanol and B-Sitosterol on Egg Cholesterol Deposition in Coturnix Quail. Richard Dam. Life Sciences.

5442. Mechanical and Chemical Control on Weeds in a Sorghum-Soybean Rotation. O. C. Burnside. Weed Science Journal.

Journal Abstracts (contact authors for more information)

77-964. Evaluation of Insecticides to Control Larvae of the Corn Rootworm in Nebraska. Z. B. Mayo, L. L. Peters, J. C. Campbell, A. F. Hagen and J. F. Witkowski. Pesticide and Acaracide.

77-965. Genetic and Breeding Strategy for Tolerance to Several Bacterial Pathogens of Beans (*Phaseolus vulgaris* L.). Dermot P. Coyne, M. L. Schuster and Nicolas E. Valladares. Proceedings Bean Improvement Coop. and Nat. Drybean Council Meeting, 1977.

77-966. Control of European Corn Borers in Field Corn in Nebraska, 1977. J. F. Witkowski. Insecticide and Acaricide Test #3.

77-967. Misinformation, Reliability, and Item Discrimination Indices on Multiple-Choice Tests. Robert B. Frary and Stephen R. Lowry. Educational Researcher.

77-968. An Experimental Design for Detecting Differences in Beef Strip Loin Palatability as Affected by Marbling Level and Cooking End-Point Temperature. Stephen R. Lowry and F. Caporaso. Journal of Animal Science.

77-969. The Effect of Misinformation on Item Discrimination Indices and Estimation Properties of Multiple-Choice Test Scores. Stephen R. Lowry. Educational Researcher.

77-970. Genotype and Environmental Effects on Glycoalkaloid Content in Potatoes. R. B. O'Keefe. American Potato Journal.

77-971. Animal Response When Utilizing Tallow in a Lactation Diet. D. M. Danielson, D. S. Pollmann and M. F. England. Journal of Animal Science.

77-972. Factors Affecting Iron Utilization in Weanling Mice and Human Adolescents: Fiber and/or Lead Ingestion. K. Leu, C. Kies and H. M. Fox. Institute of Food Technologists Program.

77-973. Chromium and Zinc Utilization from Defined Formula Diets by Human Adults. S. I. Carpenter, C. Kies and H. M. Fox. Proceedings of Annual Meeting, Institute of Food Technologists.

BULLETINS PRINTED

SB 542. Financing Nebraska's Agriculture -- Recent Experience and Projections to 1980 and 1985. Paul H. Gessaman and Leslie G. Carlow.