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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. 8, No. 8, February 1976

FROM THE ACTING DIRECTOR'S DESK

Most of the Agricultural Experiment Station's Centennial Year recognition activities are past. It has been good that nationally the public attention has been called to the accomplishment of the AES system which has evolved since the establishment of the Connecticut Station in 1875. This system has had a profound impact upon the world through its contributions to the universally recognized U. S. food production system. The Nebraska Station has a long list of accomplishments contributing to this impact through the enhancement of Nebraska agriculture. We should be proud as participants in this technology generating system. We should recognize the support of the people of Nebraska whom we serve through our programs. The following table illustrates the development of support for the Nebraska Station.

Year	State Appropriation	Fed. Funds	
1900	$ -0-	$ 15,000	15 people - all categories
1920	39,000	30,000	37 people - all categories
1940	199,000	129,000	
1950	850,000	220,000	150 people - all categories
1960	1,200,000	517,000	
1970	4,083,000	988,000	
1975	5,196,000	1,408,000	130 SY plus 450 FTE support personnel

It is difficult to assess the portion of economic growth in Nebraska agricultural productivity related to research results but it does not strain reason to suggest that a single year's benefits through advanced technology and improved practices more than repays the public investments for the entire program's 75 year period.

But even as we contemplate the past and present with justified pride, our purpose must be to focus on the future and the related problems facing the agriculture we serve. As world population continues to grow, as pressures on resources increase, as environmental concerns heighten, the task of agricultural scientists becomes simultaneously more critical and more difficult.

Most of us in agricultural research are optimistic that we can do the job that needs to be done for agriculture and society. But we also view the future with concern. Investments in agricultural research are not at a level to provide for the technological output called for by obvious circumstances of the coming decades. Inflation has taken a heavy toll on the research capacity of the support cited above. Time is of the essence. Rarely does this year's research become next year's food. The research we are doing today will more likely impact the food supply five or ten years hence.

But lights appear green ahead. Our agricultural research system's effectiveness has been proven and is recognized. The importance of agriculture in terms of food needs, economic balance, resource management and social and political influence is recognized more generally than ever before. Thus, while there will undoubtedly be ups and downs in support development the future looks bright and challenging for agricultural research. We are fortunate to have the machinery and the scientific capacity to address this important area of need.

PERSONNEL ACTIONS

Tom D. Leisy - Assoc. Prof. of Ag. Ext., Dist, V Youth Specialist (change)
Martin A. Massengale - Vice Chancellor For Ag. & Natural Resources (appointment)
Raymond G. White - District Director, Dist. II, North Platte Station (promotion)
Elverne C. Conard - Assoc. Prof of Agronomy - Emeritus (retirement)
William D. Ostrofsky - Instructor in Forestry (appointment)

GRANTS AND CONTRACTS

Boosalis, M. G. - Plant Pathology - American Phytopathological Society	$ 4,500
Campbell, J. B. - Entomology (North Platte Station - Chevron Chemical Co.	1,000
Compton, W. A. - Agronomy - J. C. Robinson Seed Company	1,000
Flowerday, A. D. - Agronomy - Miscellaneous Donors	1,000
Gipson, P. S. - Poultry & Wildlife Sciences - Nebraska Game & Parks Comm.	9,720
Kies, C. - Food and Nutrition - Ross Laboratories	5,000
Klopfenstein, T. - Animal Science - Miscellaneous Donors	5,050
Klopfenstein, T. - Animal Science - Dow Chemical Company	15,000
Mattern, P. J. - Agronomy - AID	155,735
McCarty, M. K. - Agronomy - Dow Chemical Company	1,500
Omtvedt, I. T. - Animal Science - Miscellaneous Donors	2,000
Roeth, F. W. - Agronomy (South Central Station - Dow Chemical Company	1,420
Steadman, J. R. - Plant Pathology - OWRR	65,950
Twiehaus, M. J. - Veterinary Science - Miscellaneous Donors	2,030
Wicks, G. A. - Agronomy (North Platte Station)- Growers-G.W. Joint Rsch. Com.	4,800
Wicks, G. A. - Agronomy (North Platte Station)- Stauffer Chemical Co.	750
Wicks, G. A. - Agronomy (North Platte Station)- Dow Chemical Co.	1,000
Wilson, Robert G. - Agronomy (Panhandle Station) - Dow Chemical Co.	500
White, R. G. - Veterinary Science (No. Platte Station) - Norden Labs.	560

GENERAL NOTES

1. Dr. Gene White has accepted the position of District Director of District II at the North Platte Station effective February 16. We are confident that he will provide highly effective leadership to that strong unit and we will enjoy working with him.

2. We publicly commend Neal Baxter for his highly capable handling of added duties as Acting District Director during the past several months.

3. Sahs sez - An excess equipment auction will be held at the Field Laboratory in March. All departments and stations are urged to search warehouses and other storage areas for items which are no longer needed and should vacate valuable space. Inventory Manager J. A. Sterling should be advised of excess items.

4. We are considering a workshop on grant proposal development for AES staff. We would appreciate notes from you indicating suggested topics and whether you feel it might be helpful.

5. Please do not hold checks from outside support agencies. We have had some problems processing checks several weeks old and there is risk in having them around. In most cases they go into established accounts and they should be forwarded promptly after they are received.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - January 1976

Journal Articles (contact authors for more information)

5031. Effect of Short-Term Progestogen Treatment on Induction of Estrus and Lambing in Anestrous Ewes. R. K. Christenson. Journal of Animal Science.

5032. Effect of Cryoprotective Agents on Freeze-Drying and Storage of Lactic Cultures. A. Kilara and K. M. Shahani. Cultured Dairy Products Journal.

5033. Soil Nitrate-Nitrogen Determined by Coring and Solution Extraction Techniques. E. E. Alberts, R. E. Burwell and G. E. Schuman. Soil Science Society of America Proceedings.

5034. Neonatal Enteric Diseases. Gene White. Northwest Illinois Calf Health Symposium Proceedings.

5035. Antennal Morphology of *Diabrotica virgifera* LeConte Adults (Coleoptera: Chrysomelidae). Charles A. Staetz, Harold J. Ball and Stanley D. Carlson. The Annals of the Entomological Society of America.

5036. Spectral Transmission Through the Cuticle of the American Cockroach, *Periplaneta americana* (L.). Harold J. Ball. Journal of Insect Physiology.

5037. Effect of Surface Wax of Pine Needles on *Dothistroma pini* and *Diplodia pinea*. James A. Walla and Glenn W. Peterson. Phytopathology.

5038. Synthesis of Ribonucleic Acids During the Germination of *Botryodiplodia theobromae* Conidiospores. Robert H. Knight and James L. Van Etten. Journal of General Microbiology.

5039. Herbigation - Applying Herbicide Through Sprinkler Systems. P. E. Fischbach and Alex Martin. American Society of Agricultural Engineers.

5040. Insulin and Glucose Effects on Glucose Metabolism in Pregnant and Nonpregnant Sheep. R. L. Prior and R. K. Christenson. American Journal of Physiology.

5041. The Literature of Arthropods Associated with Alfalfa. A Bibliography of the Pea Aphid, *Acyrthosiphon pisum* (Harris) (Homoptera: Aphididae). A. M. Harper, J. P. Miska, G. R. Manglitz, B. Irwin and E. J. Armbrust. Illinois Natural History Survey.

5042. Municipal Wastes as a Fertilizer Source. James R. Gilley. Sprinkler Irrigation Proceedings.

5043. Influence of Dietary Energy During Gestation on Lambing Performance, Glucose Metabolism and Lamb Viability in Sheep. R. L. Prior and R. K. Christenson. Journal of Animal Science.

5044. The Effect of Salt, Sodium Tripolyphosphate and Storage on Restructured Pork. W. C. Schwartz and R. W. Mandigo. Journal of Food Science.

5045. Heat Injury Tests as a Screening Tool for Heat Tolerance in Soybeans. J. R. Martineau, J. E. Specht and J. H. Williams. Soybean Genetics Newsletter.

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Journal Abstracts (contact authors for more information)

76-514. Passive Cutaneous Anaphylactic Reactions Obtained with Serum from *Ascaris suum* Infected Swine. R. A. McCullough and M. B. Rhodes. Proceedings of American Society for Microbiology.

76-515. Endocrine Alterations of an Obese Inbred Line of Rats. D. F. Donovan and E. F. Ellington. Journal of Animal Science.

76-516. Simultaneous Production of Patulin and Penicillic Acid by a *Penicillium* Species Isolated from Cheddar Cheese. F. J. Olivigni and L. B. Bullerman. 36th Annual Meeting, Institute of Food Technologists, June 6-9, 1976.

76-517. Inhibition of Growth and Aflatoxin by Cinnamon and Clove Oils, Cinnamic Aldehyde and Eugenol. L. B. Bullerman, F. Y. Lieu and Sally A. Seier. 36th Annual Meeting, Institute of Food Technologists, June 6-9, 1976.

76-518. Production and Stability of Aflatoxins, Penicillic Acid and Patulin in Several Substrates. F. Y. Lieu and L. B. Bullerman. 36th Annual Meeting, Institute of Food Technologists.

76-519. Incidence of Mycotoxic Molds in Domestic and Imported Cheeses. L. B. Bullerman 76th Annual Meeting, American Society for Microbiology, May 2-7, 1976.

76-520. Feeding Value of Drought Corn Silage. Vernon Krause, Walter Tolman and Terry Klopfenstein. American Society of Animal Science.

76-521. Effect of Building Arrangement and Management on Performance and Behavior of G-F Pigs. R. D. Fritschen. American Society of Animal Science.

76-522. Testicular Growth in Boars as Influenced by Selection for Ovulation Rate. Carol Proud, Dennis Donovan, Roger Kinsey, P. J. Cunningham and Dwane R. Zimmerman. Journal of Animal Science.

76-523. Effect of "Transport Phenomenon" Stimuli and Boar Exposure on Puberty in Gilts. Dwane R. Zimmerman, Phyllis Bourn and Dennis Donovan. Journal of Animal Science.

76-524. Influence of Boar Component Stimuli on Age at Puberty in Gilts. Roger E. Kinsey, Roy Carlson, Carol Proud and Dwane R. Zimmerman. Journal of Animal Science.

BULLETINS PRINTED

RB 275. Management of Four Alfalfa Varieties to Control Damage from Potato Leafhoppers. W. R. Kehr, R. L. Ogden and J. D. Kindler.

OTC 170. Nebraska Corn Performance Tests 1975. A. F. Dreier, P. H. Grabouski, R. S. Moomaw and L. A. Nelson.

OTC 171. Performance of Soybean Varieties in Nebraska 1975. A. F. Dreier, J. H. Williams, R. S. Moomaw, P. H. Grabouski and J. E. Specht.