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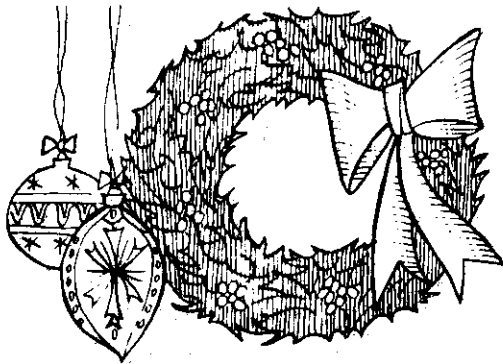


THE AGRICULTURAL EXPERIMENT STATION
 INSTITUTE OF AGRICULTURE
 AND NATURAL RESOURCES
 UNIVERSITY OF NEBRASKA-LINCOLN
 H. W. OTTOSON, DIRECTOR

Agricultural Experiment Station



Vol.13, No.6
 December 1979



MERRY CHRISTMAS
 HAPPY NEW YEAR

Howard Ottoson *Liliane Warren* *Heloise*

FROM THE DIRECTOR'S DESK
Grants and Contracting Activity

During a period of more austere financing, grant and contract activity takes an increasing importance as a source of funds to support the Station research program. I was curious as to how successful we in the Experiment Station have been in tapping such resources recently. The following data give an overall picture of recent years:

<u>Calendar Year</u>	<u>Grants and Contracts</u>
1975-76	\$ 1,887,949
1976-77	\$ 2,349,683
1977-78	\$ 1,635,118
1978-79	\$ 1,698,101
1979-80 (5 months)	\$ 1,019,895

I was struck by the variation in these data, as well as the fact that the data for 1975 and 1976 exceeded those of 1977 and 1978. However, the grants and contracts for 1977 included three unusually large ones. The total for the first five months of 1979-80 suggests a higher level of activity for this year.

We encourage Station staff to actively pursue grants and contracts relevant to the subject matter areas of their station projects. Please let us know if we can help you in any way toward this end. I suspect that we will need to rely more heavily on such funds as a source of support for our research as the purchasing power of our operating funds shrinks.

Holiday Greetings

As 1979 rapidly comes to a close I want you to know that I have enjoyed working with you. It has been a busy year, with the usual frustrations and disappointments, but many more rewards. Best wishes to each one for a joyful Holiday season.

Howard W. Ottoson

PERSONNEL ACTION

Fitzgerald, Jay B. - Assoc. Prof. - Horticulture - New Appointment
Graham, Ralston J. - Prof. & Head Ag Communications Emeritus - Retirement
Schanbacher, Bruce D. - Assoc. Prof. - Animal Sci. - Courtesy Appointment (Clay Center)
Shull, Hollis - Assoc. Prof. Ag Engineering - Courtesy Appointment
Sidhu, Gurmel S. - Asst. Prof. - Plant Pathology - New Appointment
Wilhite, Donald A. - Asst. Prof. - Ag Climatology - New Appointment

GRANTS & CONTRACTS

Danielson, D. M. - Animal Science - (NP Station) - Pfizer, Inc.	\$ 500
Coyne, D. P. - Horticulture - Anna Elliott Fund	6,000
Klopfenstein, T. J. - Animal Science - Monsanto	1,000
Lagrone, W. F. and G. A. Helmers - Ag Economics - USDA/ESCS	4,000
Omtvedt, I. T. - Animal Science - Elanco Products Co.	1,000
Shearman, R. C. - Horticulture - Miscellaneous Donors	500
Vidaver, A. K. - Plant Pathology - Agrico Chemical Company	2,000
Wicks, G. A. - Agronomy - (NP Station) - Miscellaneous Donors	1,900

STAFF NOTES

1. Dr. R. W. Kleis, Dean, International Programs and Dr. Norman J. Rosenberg, Leader, Ag Meteorology, are on a fact finding mission to ICRSAT, Hyderabad, India and The International Rice Institute, Phillipines.
2. Assistant Director Norman E. Tooker, International Programs, indicates the pending Title XII contract with Morocco is in the final stages of being signed. Emphasis will be on dryland agriculture.
3. Sahs says it is a good time to review and correct potential fire hazard areas in facilities, laboratories and storerooms. Every outstate station should have a prescribed Plan of Action in case of fire and/or emergencies. I recommend that each station acquaint its local Fire Department personnel with a diagram sketch of the station buildings, fire plug locations, etc.
4. In retrospect, concerning the December 5th Field Laboratory fire, the reaction and performance of the four local Fire Departments and the Field Laboratory employees was outstanding. The personnel who were involved are to be commended. Two thirds of Load Line 1 and much equipment stored near the fire site was saved due to the prompt response and action of all Field Laboratory employees and Fire Department support units.

W. W. Sahs

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - November 1979

Journal Articles - Submitted for Publication (contact authors for more information)

5782. Runoff Control for Livestock Feedlots - State of the Art. C. B. Gilbertson, Nolan Clark, John Nye and Norris Swanson. Transactions of the American Society of Agricultural Engineers.
5783. Germination Responses of Pine Seed to Radiofrequency, Infrared, and Gas-Plasma Radiation Treatments. S. O. Nelson, S. L. Krugman, L. E. Stetson, E. W. Belcher, Jr., D. W. Works, R. B. Stone, C. A. Pettibone and J. L. Goodenough. Transactions of the American Society of Agricultural Engineers.
5784. Distribution and Abundance of Corn Rootworm Species as Influenced by Topography and Crop Rotation in Eastern Nebraska. R. E. Hill and Z B Mayo. Journal of Economic Entomology.
5785. Nitrogen Fixation Associated with "Park" Kentucky Bluegrass (*Poa pratensis* L.). R. C. Shearman, W. L. Pedersen, R. V. Klucas and E. J. Kinbacher. Canadian Journal of Microbiology. v25 (10):1197-1200, 1979.
5786. Energy Conservation Using Reduced Pressure Center-Pivot Irrigation Systems. James R. Gilley and Lloyd N. Mielke. Journal of Irrigation and Drainage ASCE.
5787. Observations on the Genetics of Musk Thistle *Carduus thoermeri* Weinm. M. K. McCarty, H. F. Gorz and F. A. Haskins. Weed Science Journal.
5788. Uptake and Distribution of Nitrogen and Phosphorus in Grain Sorghum Hybrids and Their Parents. J. W. Maranville, J. C. Larson and W. M. Ross. Journal of Plant Nutrition.
5789. OVERWORKED--What to Do? James T. Horner. Agricultural Education.
5790. Methionine Hydroxy Analog in Supplements. D. C. Clanton and M. E. England. Journal of Animal Science.
5791. Zinc and Magnesium Nutritional Status of Women as Affected by Graded Levels of Dietary Cellulose, Hemicellulose and Wheat Bran. H. Papakyrikos, C. Kies and H. M. Fox. American Journal of Clinical Nutrition.
5792. The Effect of Sublethal Dosages of Carbofuran and Carbaryl on Fecundity and Longevity of the Female Western Corn Rootworm, *Diabrotica virgifera* LeConte. Harold J. Ball and Paulina P. Su. Journal of Economic Entomology.
5793. Relation of Soil Properties and Other Environmental Factors to Grain Yield and Quality of Winter Wheat Grown at International Sites. A. D. Karathanasis, V. A. Johnson, G. A. Peterson, D. H. Sander and R. A. Olson. Agronomy Journal.
5794. Appeal of Child Nutrition Extension Publications. Hazel Fox, Wilma Crumley and Cecilia Rokusek. Journal of Nutrition Education.
5795. Microcomputers: Today or Tomorrow -- Home Economists Need to Know. Kathy M. Walton and Lois O. Schwab. Journal of Home Economics.

(over)

Journal Abstracts - Submitted for Publication (contact authors for more information)

- 79-1264. Serological Diagnosis of Herpesvirus Infection of Swine or Cattle Using the Radioimmunoassay. C. L. Kelling, J. N. Neill, M. B. Rhodes and W. L. Staudinger. Second International Symposium of Veterinary Laboratory Diagnosticians.
- 79-1265. Control of Weeds in Corn with Herbicides. O. C. Burnside. North Central Weed Control Conference Research Report.
- 79-1266. Selective Control of Weeds in Close-Drilled Sorghum. O. C. Burnside. North Central Weed Control Conference Research Report.
- 79-1267. Control of Weeds in Close-Drilled Soybeans with Herbicides. O. C. Burnside. North Central Weed Control Conference Research Report.
- 79-1268. Use of Paraquat for Sucrose Enhancement of Sugar Beets. Frank N. Anderson.
- 79-1269. Germination of *Kochia Prostrata* (L.) Schrad. S. S. Waller, D. K. Schmidt, J. Stubbendieck, C. M. Britton and F. A. Sneva.
- 79-1270. Effect of Harvest Date and Drying Procedures on Germination of *Kochia Prostrata* (L.) Schrad. Steven S. Waller, Donn K. Schmidt, James L. Stubbendieck and Carlton M. Britton.
- 79-1271. *Kochia* Resistance to Atrazine. O. C. Burnside, C. R. Salhoff and A. R. Martin. North Central Weed Control Conference Research Report.
- 79-1272. A Look at Leafy Spurge Variability in a Nursery at Lincoln, Nebraska. M. K. McCarty and D. H. Ebke. 1980 Weed Science Society of America Proceedings.
- 79-1273. Solid-phase Indirect Radioimmunoassay to Detect Specific Antibodies in Swine Sera to *Ascaris suum*. M. B. Rhodes, R. E. Hart and L. A. Staudinger. Proc. Conf. of Research Workers in Animal Diseases.
- 79-1274. Progress of the Musk Thistle Weevil Program in Nebraska. M. K. McCarty, A. R. Martin and F. W. Roeth. North Central Weed Control Conference Research Report.
- 79-1275. Effect of Musk Thistle Weevil on Seed Production in Central Nebraska. M. K. McCarty and W. O. Lamp. North Central Weed Control Conference Research Report.
- 79-1276. Herbage Quality of Eight Irrigated Grass-Legume Mixtures. J. Stubbendieck, R. D. Schultz and Michael A. Foster. 33rd Annual Society for Range Management meeting.
- 79-1277. Antibody Response of Pigs to Virulent Pseudorabies Virus and Attenuated or Killed Pseudorabies Vaccine as Determined with Three Serotests. C. L. Kelling, W. L. Staudinger and M. B. Rhodes. Conference of Research Workers.
- 79-1278. Chemical Control of Weeds in Watermelons. Timothy C. Lambert and Alex R. Martin. North Central Weed Control Conference Research Report.