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UNIVERSITY OF NEBRASKA-LINCOLN
COLLEGE OF AGRICULTURE
THE AGRICULTURAL EXPERIMENT STATION

H. W. OTTOSON, DIRECTOR AND
ACTING DEAN

Agricultural Experiment Station



Vol. 6, No. 12, June 1974

FROM THE DIRECTOR'S DESK

The recent legislative session can be interpreted as a significant vote of confidence in the Experiment Station, judging by the new and improved programs provided for the coming year. Here is a summary:

Areas of Excellence: Crop physiology \$18,720 (Experiment Station portion)
Animal Science 10,800 (" " " ")

<u>New Programs</u>	<u>Dept. or District</u>	<u>Sta. SMY</u>	<u>Support Personnel</u>	<u>Operating</u>	<u>Total Budget</u>
Plant virologist	Pl. Path.	1.00	-	\$ 4,300	\$21,250
Soybean research	Agronomy	1.00	2 technicians	15,676 ¹	55,000
Agr'l micrometeorology	H&F	1.00	-	860	21,200
Soil fertility mgmt.	NP Sta.	.25 ²	-	-	3,625
Climatology	PH Sta.	1.00	1 tech, P.T. Sec.	10,512	40,000
Irrig. Development Eng'r	PH Sta.	1.00	1 tech, P.T. Sec.	8,911	40,000
Weed Control	PH Sta.	1.00	1 tech, P.T. Sec.	7,052	47,000
Veterinary Research	PH Sta.	.75 ²	.75 tech	10,876	31,340 ³
Weed research	SC Sta.	.50 ²	1 tech, labor	4,020	24,000
Weed physiologist	Agronomy	.75 ⁴	1 tech.	3,682	26,000
Agricultural Engineer	NE Sta.	.50 ²	-	160	9,200
Entomologist	NE Sta.	.50 ²	.25 tech.	656	11,250

¹Includes \$10,000 nonrecurring equipment

³Six months budget

²Joint with Agricultural Extension

⁴Joint with teaching

Operating support: Food Science and Technology, Agricultural Economics, Agronomy and Panhandle Station will receive earmarked support allocations. In addition 11 departments and district stations will receive support allocations in the areas of crops, livestock, or natural resources totaling about \$52,000.

One fly in the ointment! The Stations share of the \$213,000 deficit with which the Institute starts the new year is about \$91,000. This will be met in 1974-75 by delaying the start of eight new programs, and using revolving funds for one commitment; but in summary, a pretty good year, and one which enables us to move our program forward.

Howard W. Ottoson

PERSONNEL ACTIONS

Edwards, Donald M. - Assoc. Dean of Eng'g and Director of Eng'g Research Center
Fiala, Frances A. - Instructor in Textiles, Clothing and Design (courtesy appt.)
Ford, Willie D. - Associate Professor of Food and Nutrition (resignation)
Huntoon, Peter W. - Research Hydrologist - Cons. and Survey Div. (resignation)
Kvasnicka, William G. - Assoc. Prof. of Veterinary Science, MARC (courtesy appt.)
Voss, J. H. - Assoc. Prof. of Human Devel. and Family - Centennial fellow 1974-75

GRANTS AND CONTRACTS

Burnside, O. C. - Agronomy - Hercules Incorporated	\$ 750
Burnside, O. C. - Agronomy - Eli Lilly and Company	1,500
Burnside, O. C. - Agronomy - Nor-Am Agricultural Products	500
Burnside, O. C. - Agronomy - Ciba-Geigy Corporation	3,000
Burnside, O. C. - Agronomy - E. I. DuPont	500
Burnside, O. C. - Agronomy - Mobil Oil	1,000
Campbell, John B. - Entomology (NP Sta.) - USDA, ARS	1,000
Farlin, Stanley D. - Animal Science - Moews Seed Company	800
Hagen, Arthur F. - Entomology (PH Sta.) - Chevron Chemical Company	500
Lavy, T. L. - Agronomy - Ciba-Geigy Corporation	500
Mayo, Z. B. - Entomology - Ciba-Geigy Corporation	500
Moomaw, Russell S. - Agronomy (NE Sta.) - Ciba-Geigy Corp.	500
Moomaw, Russell S. - Agronomy (NE Sta.) - Stauffer Chemical Co.	800
Salac, Sotero S. - Horticulture and Forestry - Miscellaneous Donors	800
Steadman, James R. - Plant Pathology - Diamond Shamrock Corporation	500
Wicks, Gail A. - Agronomy (NP Sta.) - Ciba-Geigy Corporation	1,750
Wicks, Gail A. - Agronomy (NP Sta.) - Stauffer Chemical Company	500
Wicks, Gail A. - Agronomy (NP Sta.) - PPG Industries, Inc.	500
Wicks, Gail A. - Agronomy (NP Sta.) - Monsanto	1,000
Wicks, Gail A. - Agronomy (NP Sta.) - Chevron Chemical Co.	1,000

GENERAL NOTES

1. A \$248,000 contract has been let for phase one of outdoor recreation facility development on the East Campus. This phase includes tennis courts, handball courts, ice skating rink, a shelter and a equipment building all to be located in the area north of Dentistry and west of Law. A second phase in the near future is to include sever football fields, soft ball diamonds, an archery range and a golf driving range on th East Campus.
2. "Conservation Production Systems" is a very important area of research and extension emphasis. It relates to a large number of your areas of special competence. We urge all to promote and contribute to this concept of conservation of energy, mois-
ture, soil, and food production capacity.
3. Schnieder on Safety--"Look up! Power Lines May be Overhead". This is a good rule to observe. Three persons have been electrocuted in agricultural accidents to date in Nebraska in 1974. Watch in handling irrigation pipe, elevators, ladders, et
4. Several field day dates were listed in My. An added one is South Central Station Crops Field Day, Tuesday August 27.
5. The Board of Regents held their May meeting at the Field Laboratory and their schedule included a tour of the facilities and general program areas. We are pleased that we were able to have them there as a group.
6. Sahs sez: The rainy days in June are a good time to plan for upcoming field days, such as, invitations, signs, routing, and displays. How is your station or department's "visibility"? Are you ready for guests?
7. Your Department Chairman or Director participated in an Executive Development seminar for three days last month. If you have noticed any change, you may want to borrow his book to get an understanding of his new strategy.
8. "Eaten bread is hard to earn".

Journal Articles (contact authors for more information)

3796. Character of Bovine Vaginal Mucus at Estrus and After Breeding. J. J. Noonan, A. D. Schultze and E. F. Ellington. Proceedings, Western Section of the American Society of Animal Science.
3797. Estrous Cycle Control with Progestogen Implants and Gonadotropin Injections. J. E. Kinder and E. F. Ellington. Proceedings, Western Section of the American Society of Animal Science.
3798. Reaction of 123 Corn Genotypes to Leaf Freckles and Wilt. A. G. Calub, W. A. Compton, C. O. Gardner and M. L. Schuster. Crop Science.
3799. An Evaluation of Potential Mycotoxin Producing Molds in Corn Meal. L. B. Bullerman, J. M. Baca and W. T. Stott. Cereal Science Today.
3800. Interactions of Science, Institutional Research and Extension Programs in the Future of Animal Agriculture. Frank H. Baker. Western Section, Journal of Animal Science.
3801. Mycotoxin Producing-Potential of Molds Isolated from Cheddar Cheese. L. B. Bullerman and F. J. Olivigni. Journal of Food Science.
3802. Dichlorvos in Gestation Diets for Gilts I. Effect of Two Levels of Dichlorvos. J. J. Noonan and D. M. Danielson. Journal of Animal Science.
3803. Dichlorvos in Gestation Diets of Gilts II. Effect of Two CA-P Levels on Dichlorvos Response. J. J. Noonan and D. M. Danielson. Journal of Animal Science.
3804. Survival of Whetzelinia sclerotiorum and Initial Infection of Dry Edible Beans in Western Nebraska. G. E. Cook, J. R. Steadman and M. G. Boosalis. Phytopathology.
3805. Tolerance to White Mold in Phaseolus vulgaris Dry Edible Bean Types. F. N. Anderson, J. R. Steadman, D. P. Coyne and H. F. Schwartz. Plant Disease Reporter.
3806. Vertical Profiles of Carbon Dioxide Concentration in Stable Stratification. Shashi B. Verma and Norman J. Rosenberg. Boundary Layer Meteorology.
3807. Accuracy of Lysimetric, Energy Balance and Stability-Corrected Aerodynamic Methods of Estimating Above Canopy Flux of CO₂. Shashi B. Verma and Norman J. Rosenberg. Agronomy Journal.
3808. Trap-Corn to Control Corn Rootworms. Roscoe E. Hill and Z. B. Mayo. Journal of Economic Entomology.
3809. Studies on Soybean Nodule Senescence. Robert Klucas. Plant Physiology.
3810. Pollutional Aspects and Crop Yields Resulting From High Manure Applications on Soil. O. E. Cross. American Society of Agricultural Engineering Transactions.
3811. Triticale, Soy-TVP, and Millet Based Diets as Protein Suppliers for Humans. C. Kies, H. Fox and L. Nelson. Journal of Food Science.

3812. A General Computer Program for Precise Calculation of Dielectric Properties From Short-Circuited-Waveguide Measurements. S. O. Nelson, L. E. Stetson and C. W. Schlaphoff. IEEE Transactions on Instrumentation and Measurement.
3813. Economic Efficiency of Meat and Livestock Trucking Firms. Dale G. Anderson and Wayne W. Budt. Transportation Research Forum.
3814. The Influence of N, P, and K Fertilization on the Yield and Botanical Composition of An Irrigated Grass-Legume Pasture. G. W. Rehm, J. T. Nichols, R. C. Sorenson and W. J. Moline. Agronomy Journal.

Journal Abstracts (contact authors for more information)

- 74-341. Evaluation of Respiratory Disease Vaccines. R. Gene White and Donald C. Clanton. Journal of Animal Science.
- 74-342. Fine Structure of Oviductal Lymphatic Capillaries in the Cow, Pig and Rat. R. K. Nayak, E. F. Ellington and D. R. Zimmerman. Journal of Animal Science.
- 74-343. Character of Bovine Vaginal Mucus at Estrus and After Breeding. J. J. Noonan, A. B. Schultze and E. F. Ellington. Journal of Animal Science.
- 74-344. Estrous Cycle Control with Progestogen Implants and Gonadotropin Injections. J. E. Kinder and E. F. Ellington. Journal of Animal Science.
- 74-345. Anhydrous Ammonia Application During Fallow for Winter Wheat Production. D. E. Smika and P. H. Grabowski. Agronomy Journal.

BULLETINS PRINTED

- CC 256. History of 4-H in Nebraska. John D. Orr.
- CC 257. Energy Conservation in Agriculture. John A. Burbank.
- CC 258. Should We Vote on LB772: State Aid to Education? Everett Peterson.