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Agricultural Experiment Station News March 1969

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UNIVERSITY OF NEBRASKA COLLEGE OF
AGRICULTURE AND HOME ECONOMICS
THE AGRICULTURAL EXPERIMENT STATION

E. F. FROLIK, DEAN
H. W. OTTOSON, DIRECTOR

Agricultural Experiment Station

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Vol. 1, No. 9, March 1969

FROM THE DIRECTORS OFFICE

Congratulations to Veterinary Science: You have all heard, I am sure, the details concerning the scientific break-through achieved by the Department of Veterinary Science in isolating a virus causing calf scours. It is obviously a pleasure to congratulate a group of staff members on this type of achievement. As is true in any accomplishment like this, however, the real drama did not occur in the formal announcement, but in the repetitious, often tedious procedures which were followed, the persistence of individuals involved, the inevitable frustration, the occasional flashes of perception, the things that went wrong. This achievement was a departmental team effort. A particularly satisfying aspect of this work was the fact that the major effort was made possible with new program support provided by the Legislature during this biennium. Well done!

Status on CRIS: A number of people keep asking about what happened to CRIS! 2400 projects have now been entered into CRIS; the computers are still regurgitating about 2500 projects for one type of error or another. The keyword index now includes about 9700 terms. A printout of research inventory data is scheduled for May. We will keep you informed on progress.

H. W. Ottoson

THE NORTH PLATTE STATION

The North Platte Station has several projects in the process of development which are commanding considerable attention. The addition to the administration building and the construction of the new animal disease laboratory are complete and dedication of the facilities and an Open House will be held on May 1.

The office addition provides a new front entrance and reception area, new offices for the Superintendent, District Extension Supervisor and Area Information Specialist, as well as additional office space for the expanding staff. An auditorium divider has been installed to enable multiple use of that facility and the entire building has been redecorated and air conditioned. The animal disease laboratory provides facilities for posting, specimen collection, preparation, and storage, laboratory analysis, and culturing. Dr. Gene White is working closely with the Department of Veterinary Science and area practicing veterinarians on livestock disease problems.

The first-year's progress report by B. R. Somerhalder, Agricultural Engineer, and Dr. Donald C. Clanton, Professor of Animal Science, on the irrigated pasture study using the center-pivot self-propelled sprinkler system has been a popular one. The Baby Pig Mama continues to attract nationwide interest, and the new swine farrowing house provided partially by the grant from the Nebraska Swine Council is nearing completion. Plans are well underway for agronomic research to be carried out in 1969, including herbicide work with sugar beets, corn and sorghum, and minimum tillage work with corn and other crops.

Neal Baxter

PERSONNEL ACTIONS

Alexander, Ulverd U. - Associate Extension Agriculturist and Associate Professor of Agronomy, Resignation
Burton, Alice M. - Instructor in Family Economics and Management - Resignation
Fischer, Loyd K. - Professor of Agricultural Economics - Returned from Colombia
Klucas, Robert Vernon - Assistant Professor of Biochemistry and Nutrition
Parkhurst, Anne Mullins - Senior Systems Analyst in the Statistical Laboratory
Semanick, Joseph S. - Associate Professor of Plant Pathology

NEW GRANTS, CONTRACTS AND COOPERATIVE AGREEMENTS

Chesnin, L. - Agronomy - Dow Chemical Company	\$ 2,000.00
Fenster, C. R. - Scotts Bluff Station - William F. Fawcett Endowment	6,000.00
Hartung, T. E. - Poultry Science - Heisdorf & Nelson Farms Inc.,	200.00
Hartung, T. E. - Poultry Science - Armour and Company	2,000.00
Penas, E. J. - Agronomy - Tennessee Valley Authority	5,390.00
Underdahl, N. R. - Veterinary Science - U. S. Public Health Service	16,945.00
Woods, W. R. - Animal Science - Commercial Solvents	3,000.00
Woods, W. R. - Animal Science - Diamond Shamrock Chemical Company	1,500.00

GENERAL NOTES

1. Secretary Hardin will hold the first of seven regional "listening meetings" in Lincoln on April 12. This open meeting at the Student Union on the City Campus is for individuals and organization representatives of this nine state region to present recommendations and comments for agricultural programs of the Department. Six subsequent meetings are scheduled for other regions of the Country.
2. Two agronomic research buildings are to be dedicated in ceremonies on April 17. They are the "Paul H. Stewart Seed Laboratory" and the "T. A. Kiesselbach Crops Research Laboratory", both on the East Campus.
3. The North Platte Station is developing impressive program plans for a May 1 dedication of two new facilities: The new Veterinary Science Laboratory and the new headquarters building addition.
4. A recently prepared summary of pollution research in the Nebraska Agricultural Experiment Station points up the fact that very extensive effort is directed to this important problem area. Federal and State effort at this Station involves 24 scientists devoting 11.55 full time equivalents to research relating primarily to livestock waste management and effects upon quality of both surface and ground waters.
5. Dr. Stonecipher of the South Central region is activating a regional research and Extension program advisory committee and will schedule its first meeting in April.
6. Staff members from Scotts Bluff will demonstrate kindness if they can refrain from mentioning their balmy weather and golf scores within the hearing of their snow and mud weary colleagues of the Northeast Station.
7. "We tend to see things not as they are but as we are."

R. W. Kleis

AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - MARCH 1969

- 2510a. Nitrogen Recovery From a Soil Profile by Brome Grass. Lufti Ogus and R. L. Fox. *Agronomy Journal*.
- 2546a. Seasonal Patterns in Evapotranspiration by Irrigated Alfalfa in the Central Great Plains. Norman J. Rosenberg. *Bulletin of American Society of Meteorology*.
- 2547a. The Influence of a Windbreak on Turbulent Transport. K. W. Brown and Norman J. Rosenberg. *Bulletin of American Society of Meteorology*.
2548. Systemics for the Area Control of Hypoderma. Crosby Howe and Robert E. Roselle. *Journal of Veterinary Medicine*.
- 2549a. Feeding Pelleted Corn Fodder and Corn Silage to Dairy Cows. Myron G. A. Rumery.
2550. The Effect of Windbreaks and Soil Water Potential on Stomatal Diffusion Resistance and Photosynthetic Rate of Sugar Beets (*Beta vulgaris*). K. W. Brown and Norman J. Rosenberg. *Agronomy Journal*.
2551. The Influence of Leaf Age, Illumination and Upper and Lower Surface Differences on Stomatal Resistance of Sugar Beet (*Beta vulgaris*) Leaves. K. W. Brown and Norman J. Rosenberg. *Agronomy Journal*.
2552. Adolescent Relationships as Influenced by Religion and Family Type. Ruby Gingles and Gladys Helm. *Marriage and Family Living, or Family Life Coordinator*.
2553. The Identification of cis-11, 12-Methylene-2-hydroxyoctadecanoic Acid from Thiobacillus thiooxidans. H. W. Knoche and J. M. Shively. *Journal of Biological Chemistry*.
2554. Automated Baby Pig Feeding Research. J. A. DeShazer, D. M. Danielson, E. A. Olson. *Journal of Agricultural Engineering*.
2555. Influence of Soil Salinity on Production of Dry Matter, Uptake of Macro- and Micronutrients, and Distribution of Nutrients in Barley and Corn: II. Corn (ZEA MAYS L.). Nouri A. K. Hassan, James V. Drew and Robert A. Olson. *Agronomy Journal*.
2556. Influence of Soil Salinity on Production of Dry Matter, Uptake of Macro- and Micronutrients, and Distribution of Nutrients in Barley and Corn: I. Barley (Hordeum vulgare L.). Nouri A. K. Hassan, James V. Drew and Robert A. Olson. *Agronomy Journal*.
- 2557a. Complete-feeds full-fed Prepartum and Postpartum. F. G. Owen. *Journal of Dairy Science*.
- 2558a. Protein Synthesis from Urea as Influenced by Sucrose Level. J. H. Apell and F. G. Owen. *Journal of Dairy Science*.
- 2559a. Genetic Variation in Irradiated and Control Populations of Corn After Ten Cycles of Mass Selection for High Grain Yield. C. O. Gardner. Presented at the Symposium and published in the Proceedings of the AEA and FAO abstract at Washington State.

2560. Sweetclover Weevil Feeding Stimulants: Isolation and Identification of Glucose, Fructose, and Sucrose. W. R. Akeson, H. J. Gorz, and F. A. Haskins. Crop Science.
2561. Sources of Variation in Chemical Composition of Forage Ingested by Esophageal Fistulated Cattle. F. C. Obioha, D. C. Clanton, L. R. Rittenhouse and C. L. Streeter. Range Management.

a. Denotes abstract.

Station and Research Bulletins Printed

- SB 504 Land Sales, Prices, Values, and Assessed Values in Nebraska 1930-1968. James D. Greer.
- RB 233 Calf Diarrhea (Scours): Reproduced With a Virus From A Field Outbreak. C. A. Mebus, N. R. Underdahl, M. B. Rhodes, M. J. Twiehaus.