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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



Vol. 2, No. 9, March 1970

FROM THE DIRECTORS OFFICE

Spring is clean-up time. The appearance of your grounds and building areas represent your project and the Agricultural Experiment Station. Project leaders please take the initiative and set the example in your areas of activity. Debris in the laboratory and in the fields are fire, pest and operating safety hazards. Let's clean up thoroughly for improved appearance, efficiency and safety.

A busy season lies ahead. Defensive driving courses are being held on East Campus. Check and replenish your First Aid kits. Mechanized farming equipment is revving up for a long season. A sign in an airport pilot's lounge is good advice. "You can't be a night owl and fly safely with the eagles in the morning". The same applies to tractor, auto, and truck operators.

Our employees and their good effort are valuable investments and assets, and should be treated as such. Let's supply them with the safest vehicles, equipment, and working environs that we can afford.

Warren W. Sahs

STAFF PROMOTIONS - 1970

Congratulations to the colleagues listed below on their promotions approved recently by the Board of Regents to be effective July 1 (or September 1 for nine month appointees)

Splinter, W. E. - Agricultural Engineering (Chairman) - Professor to Professor with Tenure
Schütz, W. M. Statistical Laboratory - Professor to Professor with Tenure
Adams, C. H. - Associate Professor with Tenure to Professor with Tenure
Dillon, R. D. - Associate Professor with Tenure to Professor with Tenure
Froning, G. W. - Associate Professor with Tenure to Professor with Tenure
Orr, J. D. - Associate Professor with Tenure to Professor with Tenure
Robison, L. R. - Associate Professor with Tenure to Professor with Tenure
Sailor, P. J. - Associate Professor to Associate Professor with Tenure
Semancik, J. S. - Associate Professor to Associate Professor with Tenure
Lavy, T. L. - Assistant Professor with Tenure to Associate Professor with Tenure
Helms, T. J. - Assistant Professor to Associate Professor with Tenure
Mumm, R. F. - Assistant Professor to Associate Professor with Tenure
Smika, D. E. - Assistant Professor to Associate Professor
Mills, R. N. - Assistant Professor to Assistant Professor with Tenure
Rhodes, M. B. - Instructor to Assistant Professor with Tenure
Whan, M. M. - Instructor to Assistant Professor
Zandt, S. V. - Instructor to Assistant Professor

-over-

PERSONNEL ACTIONS

Cromwell, N. H. - Executive Dean of Graduate Studies
Blum, Abraham - Visiting Professor of Agronomy
Eastin, Jerry D. - Associate Professor of Agronomy (From USDA)
Fischer, Loyd K. - Return from leave to Agricultural Economics
McIntire, Matilda (College of Medicine) - Courtesy Appointment in Foods & Nutrition
Ogus, Omer L. - Visiting Professor of Agronomy
Padgett, Charles - Instructor in Agronomy - Resignation
Pearson, Marcia - Instructor in Information
Reeder, Lloyd R. - Instructor in Agronomy
Schwartz, Eugene - Assistant Professor of Agronomy - Resignation

GRANTS AND CONTRACTS

Anderson, D. G. - Agricultural Economics - USDA, ERS	1,500.00
Anderson, F. N. - Agronomy (Scotts Bluff) - Sherwin Williams	500.00
Bagley, W. T. - Horticulture & Forestry - USDA, CSRS	11,741.00
Burnside, O. C. - Agronomy - Monsanto Company	2,500.00
Fenster, C. R. - Agronomy (Scotts Bluff) - Monsanto Company	500.00
Flowerday, A. D. - Agronomy - Uniroyal Chemical Company	600.00
Kies, C. V. and Fox, H. - Foods & Nutrition - Archer, Daniels Midland	11,500.00
Robison, L. R. - Agronomy - Monsanto Company	500.00
Twiehaus, M. J. - Veterinary Science - Hess and Clark	400.00
Twiehaus, M. J. - Veterinary Science - Norden Laboratories	5,000.00
Twiehaus, M. J. - Veterinary Science - National Pork Producers Assn.	5,000.00
Twiehaus, M. J. - Veterinary Science - American Cyanamid Company	2,500.00
Van Etten, J. L. - Plant Pathology - USDHEW, NIH	17,065.00
White, R. G. - Veterinary Science (North Platte) - American Cyanamid Company	500.00
Wicks, G. A. - Agronomy (North Platte) - Monsanto Company	500.00
Woods, W. R. - Animal Science - Allied Chemical Corporation	7,500.00
Woods, W. R. - Animal Science - Nebraska Department of Agriculture	8,600.00
Woods, W. R. - Animal Science - Swift and Company	5,000.00

GENERAL NOTES

1. The Supervisors of the five Extension Districts have, by recent action of the Board of Regents, been designated as District Directors. The people involved are Chet Walters (District I - Scotts Bluff), Neal Baxter (District II - North Platte), Cal Ward (District III - Concord), Charles Stonecipher (District IV - Clay Center) and Verdon Petersen (District V - Lincoln).
2. The Agricultural Economics staff is now reunited in completely renovated and re-arranged quarters on the second and third floors of the Dairy Industry building.
3. The new Ruth Staples Child Development Laboratory has been completed and occupied. This facility, located directly north of the Student Activities building will be formally dedicated on June 5.

R. W. Kleis

AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - March 1970

2799. Effects of Oxytocin on Adenohypophyseal Activity in the Gonadectomized Male Sheep. J. J. Reeves and E. F. Ellington. *Biology of Reproduction Journal*.
- 2800a. Microenvironment Factors Contributing to Production of a Visible Yellow Film on Milk Handling Equipment. F. D. Lavicky and R. B. Maxcy. *Journal of Animal Science*.
- 2801a. Microanalysis of Cleaning Solutions to Determine Soil Depletion During Circulation Cleaning. R. B. Maxcy and R. G. Arnold. *Journal of Dairy Science*.
- 2802a. The Effect of γ -irradiation on Milk Lysozyme. R. R. Eitenmiller, H. M. Barnhart and K. M. Shahani. *Journal of Dairy Science*.
- 2803a. Effect of Dehydrated Alfalfa, Molasses and Pelleting on Utilization of Urea Rations. F. G. Owen and E. L. Fisher. Presented at Rumen Function Conference Proceedings.
- 2804a. Colostrum Fed Warm or Cold Until Weaning of Calves on Once-A-Day Feeding Programs. F. G. Owen, M. Plum and R. D. Appleman. *American Dairy Science Association*.
2805. Neonatal Calf Diarrhea of a Viral Etiology. C. A. Mebus, N. Underdahl, E. L. Stair and M. J. Twiehaus. *Bovine Practitioner*.
2806. Comparison of Protein Constituents Relating to B-Glucosidase Activity in BB and bb Inbred Lines of *Melilotus Alba*. D. G. Gilchrist, F. A. Haskins and H. J. Gorz. *Genetics*.
2807. Measurement of Short Wave Radiation Reflected from a Crop Canopy. K. W. Brown, Norman J. Rosenberg and P. C. Doraiswamy. *Water Resources Research*.
2808. Potential for Evapotranspiration and its Manipulation in the Plains Region. Norman J. Rosenberg and William L. Powers. *Proceedings of Great Plains Council Symposium on Evapotranspiration*.
2809. Studies on Neonatal Calf Diarrhea: Physico-Chemical and Biological Properties of the Virus. Michi Kono, R. M. Nakamura, C. A. Mebus and M. J. Twiehaus. *Journal of Virology*.
2810. Mulches for Grass Establishment of Fill Slopes. A. E. Dudeck, N. P. Swanson, L. N. Mielke and A. R. Dedrick. *Agronomy Journal*.
2811. Cell Culture Propagation of Neonatal Calf Diarrhea (Scours) Virus. C. A. Mebus, M. Kono, N. R. Underdahl and M. J. Twiehaus. *The Cornell Veterinarian*.
2812. Pedogenic Distribution of Zinc in Mollisols and Associated Entisols. W. N. Dankert and J. V. Drew. *Soil Science Society of American Proceedings*.
2813. Food Ingestion and Utilization by Two Populations of a Grasshopper, Ageneotettix Deorum. K. P. Pruess. *Kansas Entomological Society*.
2814. Aerial ULV Applications of Insecticides to Reduce Horn Fly Numbers on Range Cattle. J. B. Campbell and E. S. Raun. *Journal of Economic Entomology*.
- 2815a. Subsurface Cylindrical Compartments for Measuring Biological Conditions in a Beef Cattle Feedlot Soil Profile. T. M. McCalla, L. F. Elliott, N. P. Swanson and F. G. Viets, Jr. *Agronomy Abstracts*.

- 2816a. Soil Atmosphere Composition Beneath a Beef Feedlot and a Cropped Field. L. F. Elliott, T. M. McCalla and J. S. Boyce. Agronomy Abstracts.
2817. Aerial Applications of LV and ULV Insecticides to Feedlots and Dairy Farms for the Control of Stable Flies. J. B. Campbell and E. S. Raun. Journal of Economic Entomology.
2818. Robert W. Goss, 1891-1970. Max L. Schuster. American Journal of Phyto pathology.
2819. Trade and Industrial Education Curricula Based on Common Competencies. D. G. Zikmund, J. T. Horner and H. A. Mattson. Industrial Arts and Vocational Education.
2820. Comprehensive Programs Based on Competencies Rather than Content Areas for Home Economics Related Employees. J. T. Horner, D. G. Zikmund, and Mary Ann Grieser. Journal of Home Economics.
2821. Credible Curriculum from Common Career Competencies. D. G. Zikmund, J. T. Horner and Fay Larson. Balance Sheet.
2822. Common Competencies--A Broad-Based Occupational Curriculum. J. T. Horner, D. G. Zikmund and R. D. Dillon. Business Teacher Education Journal.
2823. Health Education Curricula Based on Common Competencies. D. G. Zikmund, J. T. Horner and Mary Gibb. Journal of American Hospital Association.
2824. Registration of N.S. 30 Alfalfa Germplasm. W. R. Kehr. Crop Science.
2825. Field Evaluation of a Nematode (DD-136) for Control of Corn Rootworm Larvae. James D. Munson and Thomas J. Helms. Proceedings, North Central Branch, Entomological Society of America.
2826. Registration of N.S. 16 Alfalfa Germplasm. W. R. Kehr. Crop Science.
- 2827a. Value of Starea (Extruded Product) and DEHY-100 (Pelleted Preparation) As Carriers of Urea in Lactation Rations. F. G. Owen and R. D. Appleman. Program, 18th International Dairy Congress.
- 2828a. Comparative Effect of Level of Concentrates Fed With Alfalfa Silage and Alfalfa Hay. F. G. Owen, P. J. Cunningham and R. D. Appleman. Program, 18th International Dairy Congress.
- 2829a. Root Elongation of Sorghum in Soil Materials of Different Water Contents and Resistance. Abdullah N. Al-Ani and Andrew P. Mazurak. Annual Meeting of ASA.
2830. 'Jules' a Great Northern Dry Bean Variety Tolerant to Common Blight Bacterium, Xanthomonas phaseoli (E.F. Sm.). D. P. Coyne and M. L. Schuster. Plant Disease Reporter.
2831. Registration of Trader and Trapper Wheats. V. A. Johnson, J. W. Schmidt, P. J. Mattern and A. F. Dreier. Crop Science.
2832. Crown Freezing and Natural Survival Comparisons in Winter Wheat and Winter Barley. D. D. Warnes and V. A. Johnson. Agronomy Journal.
- 2833a. Breeding Great Northern Dry Beans Tolerant to Common Blight (Xanthomonas phaseoli) and Wilt Bacteria (Corynebacterium flaccumfaciens). D. P. Coyne and M. L. Schuster. Proceedings of the Tenth Dry Bean Research Conference.
- 2834a. The Relationship Between Inorganic Phosphorus in Solution and Bicarbonate-Extractable Phosphorus on Sediment. G. E. Schuman, R. G. Spomer and R. F. Piest. Agronomy Abstracts.

a=Abstract

BULLETINS PRINTED

OTC 139 Nebraska Corn Performance Tests 1969.