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UNIVERSITY OF NEBRASKA
COLLEGE OF AGRICULTURE
THE AGRICULTURAL EXPERIMENT STATION

E. F. FROLIK, DEAN
R. W. KLEIS, ACTING DIRECTOR

Agricultural Experiment Station



Vol. 4, Number 12, June 1972

FROM THE DIRECTOR'S DESK

Industrial grants are appropriate for acceptance only to the extent that they support research objectives which we independently determine. To the extent that they are not, we must resist allowing diversion of our program and resources to follow partial (often minor) vested interest grant support.

East Campus computer users are now able to utilize the IBM 1130 computer in the Statistical Laboratory as a remote job entry terminal to the IBM 360 computer in the Computing Center. By means of this terminal capability, information from program and data cards can be transmitted via telephone lines to the IBM 30 from the card reader in the Laboratory and output can be received on the Laboratory printer when the processing is completed. In addition to providing capabilities as a remote batch processing terminal, the IBM 1130 will continue to be used as a stand-alone computer as it has in the past.

Summary tapes for 1970 census counts one through four are available. As of May 23, 1972, the Statistical Laboratory has been provided (from non-recurring University funds) a one-year Class I membership in the Missouri Valley Planning Information Center. The MVPIC is a census type processing project, in the University Computing Center, which provides census data to users on a membership basis. Anyone who wishes to utilize this service to obtain 1970 census data during the next 12 months should promptly contact Will Schutz at the Statistical Laboratory for further details.

Associate Dean Franklin Eldridge has been granted approval of his request to relinquish his administration position and assume duties as professor of Animal Science. To prepare for returning to his special field, breeding and genetics, he has been granted a year's leave which he plans to spend at the University of Edinburgh, Scotland. He will be away from our campus August 1, 1972 to August 1, 1973. We will miss his able and cooperative leadership of the resident instruction component of our College program.

R. W. Kleis

NEBRASKA LIVESTOCK DEVELOPMENT PROGRAM

Development of Nebraska's livestock industry is receiving special attention as a possible focal point for economic growth during the next decade. President Varner's leadership is sparking new enthusiasm for this concept among rural people, agribusiness leaders and University personnel. The primary activity during the next 3 to 5 years will be a new emphasis and orientation for Extension programs. Industry funds committed to the program will permit the expansion of the battery of Extension livestock specialists initiated a few years ago. Four new specialists (3 area and 1 state) are being added this year with approximately 3/4 of the cost for the first 3 years originating from non-tax funds. Coordination and leadership of the program at this time includes a State Coordinating Committee composed of representatives of key organizations and public agencies. The program currently includes two Action Forces (Beef and Pork); other task forces can be added if leaders of other commodity interest groups desire to organize themselves and work. Each Task Force is represented on the State Coordinating Committee. It is significant that this is named a development program and not a promotion program. The role of the College of Agriculture personnel in the program is that of generating and disseminating technology upon which Nebraska people can base decisions whether to market feed and forage resources as meat, milk, wool and eggs.

Frank H. Baker

PERSONNEL ACTIONS

Andrachek, Steven E. - Assistant Prof. of Education and Family Resources (new appointment)
Block, Susan Hyland - Instructor in Human Development and the Family (resignation)
Blunn, Cecil T. - Professor of Animal Science, Emeritus (retirement)
Dornhoff, Gary M. - Assistant Professor of Agronomy (new appointment)
Hughes, John Leonard - Instructor in Agronomy (resignation)

Knaub, Patricia K. - Instructor in Human Development and the Family (leave of absence)
Lewis, Thomas R. - Assistant Professor of Animal Science (courtesy appointment)
Magrath, C. Peter - Vice Chancellor for Acad. Affairs and Prof. of Pol. Sci. (resignation)
Mayo, Z. B. - Assistant Professor of Entomology (new appointment)
Nelson, Stuart O. - Prof. of Agr. Engr. and Res. Investigation Leader (courtesy promotion)

Osterloh, Arlene Jeanne - Instructor in Textiles, Clothing & Design (resignation)
Perry, Lawrence J. - Assistant Professor of Agronomy (new appointment)
Peters, Jane Catherine - Instructor in Textiles, Clothing and Design (retirement)
Sampson, Joan Marie - Assistant Prof. of Education and Family Resources (new appointment)
Watts, Darrel G. - Asst. Prof. of Agr'l. Eng. at North Platte Station (appointment)

GRANTS AND CONTRACTS

Blad, Blaine and Norman Rosenberg - Hort. and Forestry - NASA	\$13,103
Daly, J. M. and L. D. Dunkle - Biochem. and Nut. and Plant Path. - USDA CSRS	89,900
Drew, James V. - Agronomy - NASA	51,200
Peterson, Glenn W. - Plant Path. - U. S. Forest Service	3,500
Shahani, Khem M. - Food Science and Technology - Dannon Milk Products	4,200
Splinter, William E. - Agricultural Engineering - L. P. Schram Feedlot, Inc.	66,325
Vidaveř, Anne K. - Plant Pathology - USDA CSRS	85,000
Wicks, Gail A. - North Platte Station - Dow Chemical Company	1,800

GENERAL NOTES

1. The road to and from the new bridge is under construction to render usable the new north entrance to our campus. This is about three weeks late to match the closing of 48th and Holdrege but it should help relieve the problem soon.
2. The Home Economics building has been vacated in preparation for its replacement. The new building construction will be bid in the near future. Assuming bids fit the appropriations, the contract should be activated this summer.
3. The former Dairy Industry and Old Animal Science buildings were dedicated as H. C. Filley Hall and Miller Hall, respectively, at the C. Y. Thompson Library on Friday, June 2. Dean Frolik presided over the program with brief remarks by Chancellor James Zumberge. Dr. and Mrs. H. C. Filley attended along with Mrs. Harvey Rupe of Cambridge, a niece of the late Mr. and Mrs. Leon Miller.
4. We would like to call your attention to MP 27 entitled, "Author's Guide for University of Nebraska-Lincoln, Experiment Station Publications" by Grant I. Johnson, J. P. Holman and Ralston J. Graham. The authors have done a nice job on this publication with the assistance of an ad hoc committee of Phil Holman, Dermot Coyne, Francis Haskins, Bert Maxcy, Roger Mandigo, Constance Kies, and Wayne Collings.
5. Field Days:
 - June 22 - High Plains Agricultural Lab., Sidney
 - June 23 - Northwest Agricultural Lab., Alliance
 - July 13 - Fertilizer Pasture Tour, Scotts Bluff Station
 - July 20 - Tractor Power and Safety Day - Field Lab.
 - August 17 - Scotts Bluff Station, Mitchell
 - August 22 - South Central Station - Clay Center
 - September 19 - Field Crops and Irrig. Field Day, North Platte Sta.
 - October 1 - Horticulture Open House, North Platte Station

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - May 1972

186. Inheritance of Reaction to Stem and Leaf Rust in Winter Wheat Crosses. A. L. Barcellos and J. W. Schmidt. *Revista Agropecuaria Brasileira*.
3387. Electrically Propelled Irrigation Systems--Another Power Use in Agriculture. L. E. Stetson and M. L. Mumgaard. *IEEE Transactions of Industry and General Applications*.
3388. Pathogenic 10S RNA from Exocortis Disease Recovered from Tomato Bunchy-top Plants Similar to Potato Spindle Tuber Virus Infection. J. S. Semancik and L. G. Weathers. *Virology*.
3389. Chemistry of Thiamine Degradation in Food Products: A Review. Basant K. Dwivedi and Roy G. Arnold. *Journal of Agricultural and Food Chemistry*.
3390. Porcine and Ovine Myoglobin: Isolation, Purification, Characterization, and Stability. L. D. Satterlee and N. Y. Zachariah. *Journal of Food Science*.
3391. Photic Entrainment of Circadian Activity Rhythms by Direct Brain Illumination in the Cockroach Blaberus craniifer. Harold J. Ball. *Journal of Insect Physiology*.
3392. Heat-Induced Changes in Extractability of Beef Muscle Collagen. Pauline C. Paul, Suzanne E. McCrae and Linda M. Hofferber. *Journal of Food Science*.
3393. Emulsifying Characteristics of Mechanically Deboned Poultry Meat. G. W. Froning. *Journal of Food Technology*.
3394. Chemistry of Thiamine Degradation. 3. Mechanisms of Thiamine Degradation in a Model System. Basant K. Dwivedi and Roy G. Arnold. *Journal of Food Science*.
3395. Gas Chromatographic Estimation of Thiamine. Basant K. Dwivedi and Roy G. Arnold. *Journal of Food Science*.
3396. Improving the Quality Characteristics of Mechanically Deboned Fowl Meat. G. W. Froning and Faye Johnson. *Journal of Food Science*.
3397. A Comparison of the Efficiencies of Selection Indices for Three Traits in Two Variety Crosses of Corn. Subandi, W. A. Compton and L. T. Empig. *Crop Science*.
3398. Seed Dormancy and Germination in Indiangrass as Affected by Light, Chilling, and Certain Chemical Treatments. James G. Emal and E. C. Conard. *Agronomy Journal*.
3399. Protein Content of Winter Wheat Grain as Related to Soil and Climatic Factors in the Semiarid Central Great Plains. D. E. Smika and B. W. Greb. *Journal of Agronomy*.
3400. Nitrogen Losses in Surface Runoff from Agricultural Watersheds on Missouri Valley Loess. G. E. Schuman, R. E. Burwell, R. F. Piest and R. G. Spomer. *Journal of Environmental Quality*.
3401. Application of Low Dose Irradiation to a Fresh Bread System for Space Flights. T. E. Hartung, L. B. Bullerman, R. G. Arnold and N. D. Heidelbaugh. *Journal of Food Science*.
3402. Microbial Quality of Ground Poultry Meat. R. B. Maxcy, G. W. Froning and T. E. Hartung. *Journal of Poultry Science*.

3403. Measurements of Aerosol Size Distributions and Vertical Fluxes of Aerosols on Land Subject to Wind Erosion. Dale A. Gellelte, Irving H. Blifford Jr. and C. R. Fenster. Journal of Applied Meteorology.
3404. Yield and Protein Responses to Nitrogen Fertilizer of Two Winter Wheat Varieties Differing in Inherent Protein Content of Their Grain. V. A. Johnson, A. F. Dreier and P. H. Grabouski. Crop Science.
3405. A Computer Program for Short-Circuited Waveguide Dielectric-Properties Measurements on High-or Low-Loss Materials. S. O. Nelson, C. W. Schlaphoff and L. E. Stetson. The Journal of Microwave Power of IEEE Transactions.
3406. Operational Characteristics of Meat Animals, Part II - Beef. N. C. Teter, J. A. DeShazer and T. L. Thompson. Transactions of American Society of Agricultural Engineers.
3407. Evaluation of Herbicides for Use in Till-planted Corn and Sorghum. L. R. Robison and H. D. Wittmuss. Agronomy Journal.
3408. Effects of the Application of Phosphorus, Potassium and Sulfur to Alfalfa Grown on a Calcareous Silt Loam. G. W. Rehm and R. C. Sorensen. Agronomy Journal.
3409. Army Cutworm Control on Alfalfa in Nebraska. G. R. Manglitz, J. M. Schalk, L. W. Andersen and K. P. Pruess. Journal of Economic Entomology.
3410. Inhibitory Effect of Yogurt Upon Ehrlich Ascites Tumor Cell Proliferation. G. V. Reddy, K. M. Shahani and M. R. Banerjee. Journal of National Cancer Institute.

ABSTRACTS

- 72-46. Effect of High-Lysine Corn on Growth and Muscle RNA-DNA in Baby Pigs. B. D. Moser, E. R. Peo, Jr. and P. J. Cunningham. Journal of Animal Science.
- 72-47. Freeze-Dried Vs. Heat-Dried Alfalfa Meal for Baby Pigs. E. R. Peo, Jr., B. D. Moser, P. J. Cunningham, G. Kohler and A. Livingston. Journal of Animal Science.
- 72-48. Chelated Tract Minerals for G-F Swine. A. A. Owen, E. R. Peo, Jr., P. J. Cunningham and B. D. Moser. Journal of Animal Science.
- 72-49. Effect of EDTA on Utilization of Dietary Zinc by G-F Swine. A. A. Owen E. R. Poe, Jr., P. J. Cunningham and B. D. Moser. Journal of Animal Science.
- 72-50. Protein Content of Winter Wheat Grain as Related to Soil and Climatic Factors in the Semiarid Central Great Plains. D. E. Smika and B. W. Greb. Agronomy Abstracts.
- 72-51. Influence of Time and Rate of Nitrogen Fertilization on Grain Sorghum Production Under Surface and Subsurface Irrigation. Leonard Johnsen and Jerry Maranville. Agronomy Abstracts.
- 72-52. Detection of Carbonyl Sulfide and Other Gases Above Anaerobically Incubated Manure. L. F. Elliott and T. A. Travis. Agronomy Abstracts.
- 72-53. Nitrate Variations and Distribution in Soil Profile Sampling Studies. G. E. Schuman, F. G. Viets, Jr., T. M. McCalla and H. T. Knox. Agronomy Abstracts.
- 72-54. Genetic Control of the Reaction to the Common Blight Bacterium (Xanthomonas phaseoli) in Beans (Phaseolus vulgaris) in Relation to Time and Stage of Plant Development. D. P. Coyne and M. L. Schuster. Hort. Science.