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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 NEWS

Vol. 10, No. 12, June, 1978

FROM THE DIRECTOR'S DESK

I had hoped to give you a report on federal funding this month, but Congress has not taken final action on the Hatch budget as yet; hopefully I can give you a report next month in July.

STATION INSTRUMENT COMMITTEE -- You will be interested to know that we have appointed a station instrumentation coordinating committee to do the following: (a) coordinate the use of major instruments in the Experiment Station, (b) evaluate the needs for additional major instruments, (c) to make recommendations concerning policy with respect to major scientific instruments in the Station. It is our intention to utilize this committee as a screening committee in connection with requests for large scientific instruments from various units. The membership includes the following: Dr. Delno Knudsen and Dr. Robert Hill, Co-Chairmen; Dr. Robert Britton; Dr. Oliver Grace; Dr. Lowell Satterlee; and Dr. Willem Langenberg.

COOPERATION VERSUS CO-LEADERSHIP IN EXPERIMENT STATION PROJECTS -- Occasionally we are questioned about the difference between a co-leader and a cooperator in an Experiment Station project. We visualize a co-leader as a partner in the research enterprise. As such he participates in all stages of the research project including project formulation, data generation, analysis, and writing up the results. Thus he would contribute a portion of his own time, as well as bringing other resources to bear to the project including assistance, operating support, equipment, etc. Of course, the degree of his participation may range from that of equal partner to a more minor role but still functioning as a partner. Being a co-leader ordinarily implies activity substantial enough to merit a budgetary allocation on the part of the co-leaders unit toward the project in question.

On the other hand a cooperator is a person who makes an informal contribution of some type to the project, but does not become involved in the operation of the project itself. He may be an advisor, or a consultant on a particular area of the research, or might provide some routine contribution such as testing. He would not be expected to be a co-author of publications coming from the project.

The cooperation section in the project outline can also be used to indicate general cooperation of an unspecified nature on the part of another department, district station, USDA agency, or other agencies providing some help to the project.

I hope that these comments help clear up some of the confusion of these two terms.

CONCERNING THE BUYING OF REPRINTS -- We have had some question about the Station attitude concerning the buying of reprints of journal articles reporting the results of research in the Nebraska Station. Obviously, we encourage our staff to publish the results of their research in appropriate professional journals. We also regard the buying of reprints of these articles as a good way to disseminate these results to others who will find them valuable and useful. Journal reprints are getting more costly all the time, but they are not as costly as publishing research results in our own publications. The cost of buying journal reprints is a legitimate research expense.

Howard W. Ottoson

PERSONNEL ACTIONS

Caporaso, Fredric - Asst Prof - Food Sci & Tech - Resig. (to Irvine, CA, McGaw Lab)
Darling, Dean A. - Assoc Prof - Vet Sci (P.H. Sta) - Resig. (private industry, Omaha)
Gerdes, Roger D. - Instructor - Ag. Ed. - Resignation (to Curtiss Breeding Co.)
Roberts, David G. - Instructor (Res. Soil Scientist) - Cons & Surv Div - Resignation
Skinner, Gail M. - Instructor - T. C. & D. - Resig. (to University of Wisc.)
Waller, Steven S. - Assoc Professor - Agronomy - New Appointment

GRANTS AND CONTRACTS

Anderson, F. N. - Agronomy (P.H. Sta.) - Wass-Lo Enterprises, Inc.	$ 500
Anderson, F. N. - Agronomy (P.H. Sta.) - Grower-G.W. Joint Research Comm.	8,400
Burnside, O. C. - Agronomy - Dow Chemical Company	1,000
Burnside, O. C. - Agronomy - Monsanto Company	2,000
Burnside, O. C. - Agronomy - Miscellaneous Donors	1,250
Campbell, J. B. - Entomology (N.P. Sta) - ICI Americas Inc.	1,500
Campbell, J. B. - Entomology (N.P. Sta) - ISDA SEA-CR	12,000
Campbell, J. B. - Entomology (N.P. Sta) - Miscellaneous Donors	2,000
Daigger, L. A. - Agronomy (P.H. Sta.) - Phillips Petroleum Company	1,000
Dickason, E. A. - Entomology - Miscellaneous Donors	700
Doupnik, B. L. - Plant Path. (S.C. Sta.) - E. I. DuPont de Nemours & Co.	500
Fenster, C. R. - Agronomy (P.H. Sta.) - Shell Chemical Company	1,000
Fenster, C. R. - Agronomy (P.H. Sta.) - Velsicol Chemical Corp.	2,700
Fenster, C. R. - Agronomy (P.H. Sta.) - Miscellaneous Donors	1,150
Frank, K. D. - Agronomy (S.C. Sta.) - Dow Chemical Company	1,000
Frank, K. D. - Agronomy (S.C. Sta.) - Wass-Lo Enterprises, Inc.	500
Hergert, G. W. - Agronomy (N.P. Sta.) - Dow Chemical Company	4,000
Hergert, G. W. - Agronomy (N.P. Sta.) - Phillips Petroleum Company	1,000
Kerr, E. D. - Plant Pathology (P.H. Sta.) - Union Carbide Corp.	1,000
Kleis, R. W. - International Programs - Department of State	9,400
Klopfenstein, T. J. - Animal Science - Monsanto Company	1,000
Linsenmeyer, Dean - Ag Economics - University of Illinois	5,000
Linsenmeyer, Dean - Ag Economics - Div of Wheat Dev, Utilization & Mktg.	2,500
Martin, A. R. - Agronomy - Nebraska Department of Agriculture	1,000
Martin, A. R. - Agronomy - Miscellaneous Donors	1,000
Moomaw, R. S. - Agronomy (N.E. Sta.) - Velsicol Chemical	1,250
Moomaw, R. S. - Agronomy (N.E. Sta.) - Shell Chemical & Dev. Company	2,000
Moomaw, R. W. - Agronomy (N.E. Sta.) - Miscellaneous Donors	1,800
Olson, R. A. - Agronomy - Phillips Petroleum Company	1,000
Peo, Jr., E. R. - Animal Science - BZD Livestock Products, Inc.	2,000
Peters, L. L. - Entomology (S.C. Sta.) - FMC Corporation	500
Peterson, G. A. - Agronomy; Sander, D. H. - Agronomy - Phillips Petroleum	3,000
Roeth, F. W. - Agronomy (S.C. Sta.) - Dow Chemical Company	1,000
Roeth, F. W. - Agronomy (S.C. Sta.) - Chevron Chemical Corp.	2,000
Roeth, F. W. - Agronomy (S.C. Sta.) - Miscellaneous Donors	2,150
Rosenberg, N. J. - Ag. Engineering - National Science Foundation	59,600
Shahani, K.M. - Food Science & Technology - Ag. Products Utilization Com.	20,000
Shearman, R. C. - Horticulture - Miscellaneous Donors	1,750
Steadman, J. R. - Plant Pathology - E. I. DuPont de Nemours & Co.	1,000
Vidaver, A. K. - Plant Pathology - National Institute of Health; NIAID	25,634
Ward, J. K. - Animal Science - IMC Chemical Group	3,000
Wicks, G. A. - Agronomy (N.P. Sta.) - Chevron Chemical Company	1,500
Wicks, G. A. - Agronomy (N.P. Sta.) - Miscellaneous Donors	2,000
Wilson, Jr., R. G. - Agronomy (P.H. Sta) - North Central Region	4,300
Wilson, Jr., R. G. - Agronomy (P.H. Sta.) - Miscellaneous Donors	4,700
Wilson, Jr., R. G. - Agronomy (P.H. Sta.) - Dow Chemical Company	1,000

--R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - May 1978

Journal Articles (contact authors for more information)

5510. Allocation of Rights to Water: Preferences, Priorities and Water Doctrine with Special Attention to the Role of the Market. Jarret Oeltjen and Loyd Fischer. Law Review Journal.

5511. Belt Conveyor System to Reduce Soybean Harvester Gathering Losses. Cezar M. Mesquita and Milford A. Hanna. Transactions of the American Society of Agricultural Engineers.

5512. Home Economics is for Everyone! Gloria McGrath, Betty Tisher and Lois Schwab. The Journal of Home Economics.

5513. Energy Requirements in Managing for Food and Fiber Production. W. E. Splinter. AAAS Proceedings.

5514. Effect of Non-milo Cytoplasms on the Agronomic Performance of Sorghum. W. M. Ross and K. D. Kofoid. Crop Science.

5515. Biology, Behavior and Description of Tiphia berbereti (Hymenoptera: Tiphiidae) A Parasite of Phyllophaga anxia (Coleoptera: Scarabaeidae). R. L. Rivers, Z B Mayo and T. J. Helms. Journal of the Kansas Entomological Society.

5516. A Histological and Scanning Electron Microscopic Investigation of the Apparent Pheromone-Secreting Cells in Female Diabrotica virgifera LeConte. Albert C. Lew and Harold J. Ball. Annals of the Entomological Society of America.

5517. Preparation and Properties of Beef Heart Mitochondrial ATPase Covalently Bound to Sepharose 4B. Sheldon M. Schuster and Fred W. Wagner. Journal of Chromatography.

5518. Miscellaneous Techniques for Alleviating Heat and Moisture Stress. B. L. Blad and R. Lemeur. American Society of Agricultural Engineers Monograph on Modification of the Aerial Environment of Plants.

5519. Aerial and Crop Resistances Affecting Energy Transport. S. B. Verma and B. J. Barfield. American Society of Agricultural Engineers Monograph on Modification of the Aerial Environment of Plants.

5520. Livestock and Poultry Residue - A Model to Predict Quantity and Nutrients Available. C. B. Gilbertson and C. J. Clanton. Transactions - American Society of Agricultural Engineers.

5521. Selection for Yellow Clover Aphid and Pea Aphid Resistance in Red Clover. H. J. Gorz, G. R. Manglitz and F. A. Haskins. Crop Science.

5522. A Comparison of Temperature Fluctuations Measured by a Microbead Thermistor and a Fine Wire Thermocouple Over a Crop Surface. S. B. Verma, R. P. Motha and N. J. Rosenberg. Agricultural Meteorology.

5523. RACS: Regenerable Affinity Chromatography Support. Fred W. Wagner, V. K. Joshi, K. M. Shahani and A. Kilara. Analytical Biochemistry.

-over-

Journal Abstracts (contact authors for more information)

78-1019. Response of Four Strains of Layers to Graded Levels of NaCl in Corn-Soybean Meal Diets. Placid C. Njoku and T. W. Sullivan. Poultry Science.

78-1020. Dietary Phosphorus Requirement of Four Strains of Egg-Type Layers. Huthail Najib and T. W. Sullivan. Poultry Science.

78-1021. Influence of Calcium on Feed Intake and Production Characteristics of Laying Hens. Earl W. Gleaves and Ali Ali Salim. Poultry Science.

78-1022. Characteristics of Bone Particles from Various Poultry Meat Sources. G. W. Froning. Poultry Science.

78-1023. Protein Quality Determination of Bone Residue from Mechanically Deboned Chicken Meat. M. J. Dryden and G. W. Froning. Poultry Science.

78-1024. Relationship Between Avian Intrapulmonary Chemoreceptors and the Bronchial Smooth Muscle Response to Carbon Dioxide. G. M. Barnas, F. B. Mather and M. R. Fedde. Poultry Science.

78-1025. Influence of Strain and Sex on the Dietary Phosphorus Requirement of Broilers. J. A. Paterson, J. C. Waller and T. W. Sullivan. Poultry Science.

78-1026. Comparison of Direct Cut Dehydrated Alfalfa vs Dehydrated Alfalfa Residue after Mechanical Removal of Solubles. R. A. Britton, M. A. Malik, T. J. Klopfenstein, R. L. Ogden and T. W. Sullivan. Journal of Animal Science.

78-1027. Effect of Method of Preservation and Dilution of Colostrum of Calves Under Normal or Low Energy Housing. F. G. Owen, S. R. Lowry, L. L. Larson and J. A. DeShazer. Journal of Dairy Science.

78-1028. Ground Hay as Replacement for Grain Ration in High Corn Silage Rations. F. G. Owen and S. R. Lowry. Journal of Dairy Science.

78-1029. Pantothenic Acid and Methionine Supplementation of Human Diets. R. R. Woitaszewski, C. Kies and H. Fox. American Dietetic Association.

78-1030. Interior Products Involved in Burn Incidents and Resultant Victim Disposition in Nebraska During Fiscal Year, 1975. Joan Laughlin. Association of College Professors of Textiles and Clothing National Newsletter.

78-1031. Selection for Lean Growth in Swine. E. R. Cleveland, P. J. Cunningham, E. R. Peo, Jr. and Dwane R. Zimmerman. Journal of Animal Science.

78-1032. A Comparison of Adjustment Methods and Factors for Lamb Birth and Weaning Weights. M. K. Nielsen, D. S. Buchanan, D. J. Walstrom and K. L. Kester. Journal of Animal Science.

BULLETINS PRINTED

MP 35. Wildflowers for Nebraska Landscapes. S. S. Salac, P. N. Jensen, J. A. Dickerson and R. W. Gray, Jr.