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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



JULY 1973

Experiment Station Vol. No. 1, July 1973

FROM THE DIRECTOR'S DESK

A new STAR was christened last month! I hasten to add that this STAR was not of an astral type; rather, it is the acronym of a new college activity, Strength Through Agricultural Resources.

You have probably already participated in departmental "DARE" discussions; STAR now becomes the name of the Nebraska effort, under the chairmanship of Dr. Adams.

STAR will involve several things, such as assembly and interpretation of basic data about various components of Nebraska's agriculture, and natural and human resources, analysis of feasible potentials for development, related problems, and desirable development goals. It will involve many people--University staff members, members of other state and federal agencies, and lay people. It should give us a base for program development and adjustment which we have not had before.

We are enthusiastic about this new venture.

Howard W. Ottoson

PUBLICATION ACTIVITY EVALUATION

It seems appropriate to again describe the system that the Experiment Station uses to derive a comparative publication activity index for each staff member each year. The process starts with you as you list on your annual "staff activities report" your publications actually published since your last report. Manuscripts prepared or pending for publication are not used until the report year in which they are published.

Publications are "weighted" according to type of publication as follows:

- Journal Article or Research Bulletin - 1.00
- Station Bulletin - .60
- National Farm Magazine Article or Extension Circular (if author is not on Extension) - .30
- Quarterly Article (depending on nature and scope) - .20 to .40
- Abstract, Symposium paper or Department Report - .20

The weight factor above is then multiplied by an authorship factor according to the authorship relationship in the following format:

1 Author	(1.00)	1.00						
2 Authors	(1.10)	.60	.50					
3 Authors	(1.20)	.60	.40	.20				
4 Authors	(1.30)	.50	.40	.20	.20			
5 Authors	(1.40)	.50	.30	.20	.20	.20		
6 Authors	(1.50)	.40	.30	.20	.20	.20	.20	.20

These ratings are totalled for each staff member and divided by his percentage on Station appointment to give a rating based upon "full-time equivalent" on Station work.

Finally, in evaluating and comparing ratings, they are considered for the last five years (or as many years as they exist if less than five) to take into account the irregularities of research output.

PERSONNEL ACTIONS

Appleman, Robert D. - Associate Professor of Animal Science (resignation)
Arnold, Roy G. - Chairman, Food Science and Technology Department (appointment)
Breckenridge, Adam - to Acting Director of Libraries (appointment)
Burbank, John A. - to Assoc. St. Leader of Extension Programs and Reports (appointment)
Cromwell, Norman - Vice President for Grad. Studies and Research (resignation)

Frey, Thomas L. - Assistant Professor of Agr'l Economics (resignation)
Hatch, Robert H. - Assistant Professor of Animal Sciences--SB Sta. (resignation)
Heussman, John - Dir. Libraries (resignation)
Olsen, Duane A. - Associate Professor of Agr'l Economics (appointment)
Skjelver, Mabel C. - Assoc. Professor of Textiles, Clothing and Design (appointment)

GRANTS AND CONTRACTS

Arnold, Roy G. and R. Burt Maxcy - Food Science and Technology - HEW	\$21,260
Burnside, Orvin C. - Agronomy - Mobil Chemical Company	750
Burnside, Orvin C. - Agronomy - Amchem Products, Inc.	750
Fenster, C. R. - Agronomy (SB S.) - Geigy Agricultural Chemicals	500
Fischbach, Paul E. - Agricultural Engineering - Union Texas Petroleum Corp.	1,000
Fischer, Loyd K. - Agricultural Economics - Nebraska Game and Parks Commission	4,300
Kendrick, J. and L. Satterlee - Agr'l Econ. & FS&T-Agr'l Indus. Utilization Com.	2,600
Mattern, Paul - Agronomy - AID	320,000
Mattern, Paul - Agronomy - Nebraska Wheat Commission	5,217
Mayo, Z. B. - Entomology - Union Carbide Corporation	750
Olson, R. A. - Agronomy - Farmland Industries	3,600
Rosenberg, Norman J. - Horticulture and Forestry - NOAA	9,700
Salac, Sotero S. and J. O. Young - Horticulture and Forestry - Dept. of Roads	78,977
Satterlee, L. D. - Food Science and Technology - Nebraska Wheat Commission	4,783
Steadman, James R. - Plant Pathology - Diamond Shamrock Corporation	500
Wicks, Gail A. - Agronomy (NP Sta.) - Fisons Corporation	750

GENERAL NOTES

1. Tractor Power and Safety Day is July 26 rather than June 26 as erroneously printed in the June Newsletter. The Northeast Station's Crops Field Day is Thursday, September 13, 1973.
2. Vacations are important to you, your family and your work.
3. To activate a grant, contract, or cooperative agreement, our office must have two things from you via your Chairman; (1) some evidence that there is some support coming; e.g. an agreement document, a letter of intent, a memorandum of understanding or a check with an explanation of what it is for; (2) completed and signed Budget and Data forms. Mrs. Mary Ann Stritikus, of my office, can be helpful to you if you have questions.
4. "Nature alone cannot fulfill its own capabilities. True fruition is attained only where man has tamed wildness to suit his needs". - Rene Dubos

R. W. Kleis

Journal Articles (contact authors for more information)

3641. Orientation, Anatomical and Breeding Behavior Studies of the Crookneck Rogue Fruit in Butternut Squash (*Cucurbita moschata* Poir). Aly M. Ibrahim, Dermot P. Coyne, R. C. Lommasson and Eric Davies. Journal of American Society of Forestry and Horticulture Science.
3642. Drift of Terrestrial Arthropods in an Irrigation Canal Following a Wide-Area Application of ULV Malathion. Dewey Urbauer and K. P. Pruess. Journal of Economic Entomology or Environmental Entomology.
3643. Limited Energy Supplementation of Yearling Steers Grazing Irrigated Pasture and Subsequent Feed Lot Performance. R. P. Lake, R. L. Hildebrand, D. C. Clanton and L. E. Jones. Journal of Animal Science.
3644. Intake, Digestibility, and Nitrogen Utilization of Steers Consuming Irrigated Pasture as Influenced by Limited Energy Supplementation. R. P. Lake and D. C. Clanton. Journal of Animal Science.
3645. Symposium: Recent Advances in Calf Feeding III. Breeding, Housing and Feeding Management. R. D. Appleman and F. G. Owen. Journal of Dairy Science.
3646. Lipid Comparison in Angus Bulls, Induced Cryptorchids and Steers. G. M. Weiss, V. H. Arthaud and R. W. Mandigo. Journal of Animal Science.
3647. Rate of Heating as it Affects the Solubilization of Beef Muscle Collagen. S. E. McCrae and P. C. Paul. Journal of Food Science.
3648. Creep and Relaxation of Meat Related to Tenderness. Leonard L. Bashford. ASAE Transactions.
3649. A Ten Year Summary of Strip Till-Planting of Row Crops. H. D. Wittmuss and D. E. Lane. Transactions of the ASAE.
3650. Effect of Varying the Ratio of Beef and Textured Vegetable Protein Nitrogen on Protein Nutritive Value for Humans. Constance Kies and Hazel M. Fox. Journal of Food Science.
3651. Lysimetric Calibration of the Bowen Ratio-Energy Balance Method for Evapotranspiration Estimation in the Central Great Plains. Blaine L. Blad and Norman J. Rosenberg. Journal of Applied Meteorology.
3652. Survival of *Macrophomina phaseoli* in Corn and Sorghum Stalk Residue. G. E. Cook, M. G. Boosalis, L. D. Dunkle and G. N. Odvody. Plant Disease Reporter.
3653. Advection and Alfalfa Evapotranspiration in an Irrigated Valley in the Central Great Plains. Hollis Shull, Dennis Kincaid, Dale Heermann and Gary Daigger. Agronomy Journal or Transactions of ASAE.
3654. Registration of OTO Indiangrass. L. C. Newell. Crop Science.
3655. Registration of Slate Intermediate Wheatgrass. L. C. Newell. Crop Science.
3656. Registration of Platte Tall Wheatgrass. L. C. Newell. Crop Science.
3657. Accelerated Pork Processing III. Yields of Fresh Carcass Cuts. R. W. Mandigo, T. L. Thompson and G. M. Weiss. Journal of Food Science.

3658. Accelerated Pork Processing IV. Cured Ham, Bacon and Loins. R. W. Mandigo, T. L. Thompson and G. M. Weiss. *Journal of Food Science*.
3659. Accelerated Pork Processing V. Frankfurter Emulsion Properties. D. E. Stilwell, R. W. Mandigo and G. M. Weiss. *Journal of Food Science*.
3660. Chemical, Physical and Organoleptic Properties of Formed and Sectioned Pork Muscle as Influenced by Size, Temperature and Comminution Method. M. S. Chesney and R. W. Mandigo. *Journal of Food Science*.

Journal Abstracts (contact authors for more information)

- 73-224. Soil Aggregation and Soil Fat Concentration as Influenced by Soil Management Practices. D. E. Smika and B. W. Greb.
- 73-225. Altering Milking Routines to Improve Milking Performance. R. D. Appleman and C. F. Micke. *Journal of Dairy Science*.
- 73-226. Biochemical Genetics of Seed and Seedling Color in Sweetclover. J. E. Specht, H. J. Gorz and F. A. Haskins. *Agronomy Abstracts*.
- 73-227. Inheritance of Seed and Seedling Color in Sweetclover. H. J. Gorz, J. E. Specht and F. A. Haskins. *Agronomy Abstracts*.
- 73-228. Studies on the Survival of Sclerotia of *Sclerotinia sclerotiorum*. G. E. Cook, J. R. Steadman and M. G. Boosalis. 2nd International Congress of Plant Pathology.
- 73-229. Utilization of Wheatgrasses Selected for Improved Yield and Quality. L. C. Newell and W. J. Moline. *Agronomy Journal*.
- 73-230. Composition of Turkey Meat, 1: proximate analysis as influenced by sex and age. T. E. Hartung, R. M. Hill and G. W. Froning. *Journal of Poultry Science*.
- 73-231. Composition of Turkey Meat, 2: B vitamin and Cholesterol content as influenced by sex and age. T. E. Hartung, Faye Johnson and G. W. Froning. *Journal of Poultry Science*.
- 73-232. Precipitation Nitrogen Contribution Relative to Surface Runoff Discharges. G. E. Schuman and R. E. Burwell. *Agronomy Abstracts*.
- 73-233. Methods for Measuring Odorous Emissions from Animal Wastes. L. F. Elliott and T. A. Travis. *Agronomy Abstracts*.

BULLETINS PRINTED

- OTC 154. Proso Grain Variety Tests 1972. L. A. Nelson.
- RB 250. Date of Planting Studies of Winter Wheat and Winter Barley in Relation to Root and Crown Rot Grain Yields and Quality. C. R. Fenster, M. G. Boosalis and J. L. Weihing.
- SB 523. Competitive Relationship of Alfalfa Hay and Corn Silage in Complete Rations for Lactating Dairy Cows. F. G. Owen, J. G. Kendrick and C. F. Micke.
- SB 519. Vegetable Gardening in Nebraska. R. E. Neild.
- SB 493. A Descriptive Guide for Major Nebraska Thistles. M. K. McCarty, C. J. Scifres and L. R. Robison.
- SB 524. Spring and Fall Freeze Probabilities in Nebraska. R. E. Neild and Morris Webb, Jr.