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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



Vol. 8, No. 6, December 1975

FROM THE ACTING DIRECTOR'S DESK

*Our Very Best Wishes to You
and Your Families for the
Holidays and for 1976*

*Lorraine
Mary Ann
Debra*

*Bob
Warren
Humph*

FEDERAL FUNDS under the Hatch Act have finally become firm for 1975-76 and include an increase over last year of about 10.5%. Because our current budget was built on an estimated 6% increase in Hatch funds, we now have additional increment of about \$45,000. We have pooled this with some other limited funds in the Agricultural Experiment Station and made it available to departments and stations for most critical equipment needs. This does not solve the equipment budget problem but it will help a little.

INDIRECT COSTS IN RESEARCH GRANTS AND CONTRACTS are to be programmed into budgets and agreements with sponsoring units according to the following policies.

All federal grants and contracts will include full indirect costs of 63.49% of total salaries and wages for on-campus and 36.33% of total salaries and wages for off-campus research.

All industry or foundation grants or contracts of \$2,500 or more to support a specific single project will require the same full indirect cost rate used for federal agencies.

No indirect costs will be charged on a grant or contract from an industry or foundation that is less than \$2,500 for a single specific project.

If any grant or contract is accepted from an agency, industry or foundation having a prescribed policy of no indirect cost, the initial University cost share will be the indirect cost which would otherwise have been earned.

Normally there will be no indirect costs on gifts or endowments.

Dean Drew is the only person who has authority to approve rates lower than those listed above.

To encourage UN-L faculty to seek outside support, \$25,000 of indirect cost funds have been prorated to the Colleges (\$6,500 to IANR) to be used for new proposals costs such as travel, printing, consultants, etc. We hope this overhead sharing may be larger and broader in future years but this is a start.

PERSONNEL ACTIONS

Aiken, David J. - Assistant Professor of Agricultural Economics (Appointment)
Drew, James V. - Dean of Graduate Studies and Research & Prof. of Agronomy (Resignation)
Fischer, Loyd K. - Professor of Agricultural Economics (Leave of Absence)
Gallick, Rosemary - Instructor, Agricultural Communications (Appointment)
Hamilton, Rickey A. - Assist. Prof. of Forestry & Dist. Extension Forester (Change)

Lindgren, Dale T. - Assistant Prof. of Horticulture, Dist. Ext. Specialist (Appointment)
Redfern, Elaine K. - Assist. Ext. Home Economist, South Central Station (Resignation)
Schaefer, Arnold E. - Professor of Food and Nutrition (Courtesy Appointment)
Speece, Helen J. - Assoc. Prof. of TCD & Extension Specialist (Leave of Absence)
Twiehaus, Marvin J. - Professor of Veterinary Science (OYAC July 1976 - June 1977)

GRANTS AND CONTRACTS

Anderson, F. N. - Agronomy (PH Station) - G. W. Joint Research Committee	\$21,325
Anderson, F. N. - Agronomy (PH Station) - Diamond Shamrock Chemical Company	500
Ball, H. J. - Entomology - American Cyanamid Company	750
Daigger, L. A. - Agronomy (PH Station) - G. W. Joint Research Committee	2,090
Edling, R.; Anderson F.; & Daigger, L. - Agronomy (PH Station) Lockwood Corp.	6,180
Fenster, C. R. - Agronomy (PH Station) - Chemagro Agricultural Division	500
Martin, A. R. - Agronomy - Stauffer Chemical Company	500
Mayo, Z. B. - Entomology - American Cyanamid Company	1,500
Peo, E. R. - Animal Science - Pfizer Incorporated	4,800
Underdahl, N. R. - Veterinary Science - Pfizer Incorporated	1,920
Ward, J. K. - Animal Science - E. I. DuPont De Nemours & Company	2,500

GENERAL NOTES

1. Unfinished Miracles will be shown on ETV at 9:30 PM on January 29. We urge you to note and promote this for viewing. We described this new film in last month's letter and cited its availability for programs. Demand has caused us to order two more copies making four available.
2. Please be reminded as you negotiate with outside support organizations that as employees of a public service institution, we cannot submit to external control of the dissemination of results or to the assignment of any exclusive proprietary rights to items resulting from your research.
3. Congratulations to Marvin Twiehaus and Myron Rumery on their recognition as 1975 Award of Merit recipients by Gamma Sigma Delta. Also to Roy Arnold who was recognized for outstanding teaching.
4. The search committee for the Chairmanship of Veterinary Science has reported its recommendations to the Vice Chancellor. Our thanks for a job done thoroughly and expeditiously.
5. Schnieder on Safety - The holiday season involves special hazards: winter travel, hunting activity, parties, highly combustible decorations, snow shoveling, etc. Please exercise particular caution and keep it a happy season.
6. It is not what you are working on but what you get done that counts.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - November 1975

Journal Articles (contact authors for more information)

4099. Energy Requirement of Roosters as Influenced by Environmental Temperature, Dietary Energy and Age. Malik M. Ahmad and F. Ben Mather. Poultry Science.
5000. Impact of Residual Mineral N in Soil on Grain Protein Yields of Winter Wheat and Corn. R. A. Olson, K. D. Frank, A. F. Dreier, D. H. Sander and V. A. Johnson. Agronomy Journal.
5001. Evaluation of Resistance and Mass Transport Evapotranspiration Models Requiring Canopy Temperature Data. Blaine L. Blad and Norman J. Rosenberg. Agronomy Journal.
5002. Measurement of Crop Temperature by Leaf Thermocouple, Infra-Red Thermometry and Remotely Sensed Thermal Imagery. Blaine L. Blad and Norman J. Rosenberg. Agronomy Journal.
5003. Impact of Northern and Western Corn Rootworm on Field Corn. J. W. Apple, J. C. Chiang, L. M. English, L. K. French, A. J. Keaster, G. F. Krause, Z. B. Mayo, J. D. Munson, G. J. Musick, J. C. Owens, D. E. Rasmussen, R. E. Schriest, J. J. Tollefson and J. L. Wedberg. Journal of Economic Entomology.
5004. Reovirus and Rotavirus Infections. Dr. Charles A. Mebus. Proceedings of the U. S. Animal Health Association.
5005. Interactions Between Insects and Chemical Components of Sweetclover. G. R. Manglitz, H. J. Gorz, F. A. Haskins, W. R. Akeson and G. L. Beland. Journal of Environmental Quality.
5006. Characteristics of Ribonucleic Acids Isolated from Botryodiplodia theobroame conidiospores. Robert H. Knight and James L. Van Etten. Archives of Microbiology.
5007. Comparative Properties of Bacteriophage $\phi 7$ & $\phi 6$ Core Particle. James L. Van Etten, Les Lane, Carlos Gonzalez, James Partridge and Anne Vidaver. Journal of Virology.
5008. Resistance-Energy Balance Method for Predicting Evapotranspiration: Determination of Boundary Layer Resistance and Evaluation of Error Effects. S. B. Verma, N. J. Rosenberg, B. L. Blad and M. W. Baradas. Agronomy Journal.
5009. Patterns of Ovine Serum LH and the Influence of Testosterone on Circulating Gonadotropic Levels. Robert B. Osland and Earl F. Ellington. Journal of Animal Science.
5010. Combining the Computer and Flanders' Interaction Analysis to Improve Student Teaching. R. L. Douglass, T. L. Hoover and J. T. Horner. The Journal of Teacher Education.
5011. Techniques in Rat Bioassays for Protein Quality. Gary A. Miller and Paul A. Lachance. Proteins for Humans-Evaluations and Factors Affecting Nutritive Value.

5012. Evaluation of Phosphated Egg Shell and Fertilizer Phosphates in Turkey Starter Diets. F. J. Struwe, T. W. Sullivan and H. J. Kuhl, Jr. Poultry Science.
5013. Animal Protein Extenders. Constance Kies. Proceedings of the First Latin American Soy Protein Conference.
5014. Nutrient Density Perspectives of Cereals in Human Diets. Constance Kies, B. Unver and H. M. Fox. Cereal Science.
5015. Effect of Partially Delactosed Whey and Dried Sweet Whey on Ice Cream Quality. C. L. Kreshel, T. A. Evans and R. G. Arnold. Dairy and Ice Cream Field.
5016. Effect of Dried Sweet Whey on Ice Cream Quality. T. A. Evans and C. L. Kreshel. Dairy and Ice Cream Field.
5017. Effect of Egg Production Level, Dietary Protein and Energy on Feed Consumption and Nutrient Requirements of Laying Hens. R. E. Ivy and Earl W. Gleaves. Poultry Science.
5018. Effects of Dietary Calcium, Protein and Energy on Feed Intake, Egg Shell Quality and Hen Performance. Earl W. Gleaves, F. B. Mather and Malik M. Ahmad. Poultry Science.

Journal Abstracts (contact authors for more information)

- 75-500. A Comparison of Oats, Soybeans and Sugar Beets for Bioassay of Atrazine in a Keith Silt Loam. R. H. Hammons and T. L. Lavy. North Central Weed Control Conference Research Report.
- 75-501. A Method for Comparison of Atrazine Mobility Between Field Plots and Intact Soil Cores in the Laboratory. D. W. Hoffman, T. L. Lavy, R. H. Hammons, B. R. Somerhalder and G. A. Wicks. North Central Weed Control Conference Research Report.
- 75-503. Mobility of ¹⁴C Labeled Atrazine in an Irrigated Sandy Field. D. L. Bucholtz and T. L. Lavy. North Central Weed Control Conference Research Report.
- 75-504. Use of Computers for Analyzing Data from Carbon-¹⁴ Direct Soil Counting Techniques. Joseph Majka, Terry Lavy and Robert Mumm. North Central Weed Control Conference Research Report.
- 75-505. Weed Control in Field Beans in Nebraska. Robert G. Wilson, Jr. and Gail A. Wicks. North Central Weed Control Conference Proceedings.
- 75-506. Differential Reaction of Kentucky Bluegrass Cultivars to the Bluegrass Billbug. S. D. Kindler and E. J. Kinbacher. North Central Branch Entomological Society of America.
- 75-507. A Comparison of the Clothing Values and Life Satisfaction Scores of College Women and Their Mothers. Dr. Audrey Newton and Sonia K. Kirchhoff. M.S. Thesis.