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THE AGRICULTURAL EXPERIMENT STATION
INSTITUTE OF AGRICULTURE
AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA-LINCOLN 68583



November 1981 Vol.15 No.4

Agricultural Experiment Station News

From the Director's Desk

Staff Conference Off

The 1982 biannual IANR staff conference which was scheduled for January 5-7, 1982 has been *indefinitely postponed* due to recent budgetary developments.

Curiosity

Thanks to those of you who took the time to respond to my invitation to offer suggestions regarding ways in which curiosity might be stimulated. I have received several interesting and helpful suggestions. These will be useful in developing follow-up programs, activities, and policy considerations.

Budget Reductions

The Agricultural Experiment Station is faced with a mandated reduction in FTE and a budget reduction resulting from actions of the recent special session of the Legislature. Actions to reduce current year expenditures have been implemented. These include a hiring freeze, a hold on further expenditure of equipment funds, reduction in operating budgets, and deferral of numerous planned expenditures. To meet the FTE reduction, some positions will be deleted permanently from the budget. Other positions may need to be eliminated to meet the budget reduction, particularly if reduced budget levels continue into the next fiscal year.

Although budget and personnel reductions are never a pleasant experience, we each need to work toward continuation of high priority research programs by finding alternative ways of doing business. Reduced personnel may cause discontinuation of some projects and programs. Research scientists may need to accommodate to greater sharing of support personnel and operating funds. Although considerable sharing of resources already occurs throughout the Experiment Station, short range budget prospects will require all of us to think more creatively in programming the limited available resources to continue to carry out our research mission.

Present budget adjustments are viewed by many as relatively short range, with prospects for better days ahead. I share that view, and will make every effort to point out the importance of continued investment in research programs of the Agricultural Experiment Station.

Roy G. Arnold
Dean and Director

Sahs Sez

Unprecedented grain yields of corn, soybeans, and grain sorghum, both dryland and irrigated, are being harvested at the Field Laboratory and in Saunders County. Harvest is half finished in spite of high humidity and wet soil conditions.

Integrated Energy Farm Progress

Twelve hundred gallons of sweet forage sorghum "juice" has been harvested and successfully fermented to 8% alcohol. The final distilled product is 185 proof alcohol. Although a bit late in the season, this pilot project has achieved its 1981 goals. The grain handling and storage facilities are in place and being filled with corn and soybeans. Construction of the swine units is underway.

Hunting Season

Hunting season opened with 410 hunters taking 152 pheasants the first two days. We appreciate the weekend help of the Wildlife Club members in monitoring the hunting activity.

Warren W. Sahs
Assistant Director

Grants and Contracts

Arnold R. G. (Dean and Director's Office)	
UN Foundation	30,000
Baker, M. E. (Ag Economics) - USDA/ESS	4,350
Ball, H. J. (Entomology) - FMC Corporation	1,500
Ball, H. J. (Entomology) - FMC Corporation	500
Ball, H. J. (Entomology) - American Cyanamid Company	1,000
Bodman, G. R. (Ag Engineering) - USDA/SEA	51,100
Britton, R. A. (Animal Science) - P. Q. Corporation	3,000
Britton, R. A. (Animal Science) - Central Soya Company	2,500
Brumm, M. C. (Northeast Station) - National Pork Producers Council	750
Burnside, O. C. (Agronomy) - American Cyanamid Company	1,200
Campbell, J. B. (North Platte Station) - USDA/ARS Livestock Insect Laboratory	35,200
Clanton, D. C. (North Platte Station) - Hoffman-LaRoche, Inc.	3,000
Compton, W. A. (Agronomy) - Ami - Agricola Mais Ibridi S.R.L.	280

Dickason, E. A. (Entomology) - Stauffer Chemical Company	700
Dorn, T. W. (Northeast Station) - UN Foundation - Ag & Water Research Fund	18,000
Eldridge, F. (Animal Science) - American Breeders Service	540
Fenster, C. R. (Panhandle Station) - Stauffer Chemical Company	500
Fischbach, P. E. (Ag Engineering) - Stauffer Chemical Company	1,000
Flowerday, A. D. (Agronomy) - Center for Rural Affairs	1,625
Flowerday, A. D. (Agronomy) - Farmers Mutual Hail Ins. Co. of Iowa	250
Gast, R. G. (Agronomy) - USDA/ARS	53,000
Gustafson, W. A. (Southeast Extension & Research Center) - Nebraska Nut Growers Association	300
Haderlie, L. (Agronomy) - Ciba-Geigy	2,000
Haderlie, L. (Agronomy) - EM Industries, Inc.	1,000
Klopfenstein, T. (Animal Science) - A. O. Smith	57
Mandigo, R. W. (Animal Science) - Bettcher Industries, Inc.	250
Mattern, P. J. (Agronomy) - Anna H. Elliott Fund	5,000
Mayo, Z. B. (Entomology) - Stauffer Chemical Company	500
Mayo, Z. B. (Entomology) - American Cyanamid Company	2,000
Moomaw, R. (Northeast Station) - American Cyanamid Company	1,200
Nordquist, P. T. (North Platte Station) - WAC Seed Inc.	290
Owen, F. G. (Animal Science) - Tennessee Eastman Company	22,000
Peters, L. (South Central Station) - Stauffer Chemical Company	800
Riordan, T. P. (Horticulture) - Lofts Pedigreed Seed, Inc.	500
Roeth, F. W. (South Central Station) - American Cyanamid Company	1,000
Schmidt, J. W. (Agronomy) - Rohm and Haas Company	2,000
Shearman, R. C. (Horticulture) - W. A. Cleary Corporation	250
Steadman, J. R. (Plant Pathology) - Olin Ag Products	1,500
Sullivan, T. W. (Animal Science) - International Minerals & Chemicals Corporation	2,000
Thompson, T. L. (Ag Engineering) - USDA/SEA	14,300
Van Etten, J. L. (Plant Pathology) - USDA/ARS	60,200
Weihing, J. (Panhandle Station) - John Steen Fund - UN Foundation	1,415
Wicks, G. A. (North Platte Station) - American Cyanamid Company	500
Wilson, R. G. (Panhandle Station) - American Cyanamid Company	600
Wilson, R. G. (Panhandle Station) - PPG Industries	2,500
Witkowski, J. F. (Northeast Station) - American Cyanamid Company	1,500
Yonts, C. D. (Panhandle Station) - North Platte NRD, Upper Niobrara-White NRD, South Platte NRD	1,050
	<u>\$333,657</u>

On July 1, 1981 the SOPP forms were replaced by "PRO Forms" for submittal of grants and contracts. Every Department and District Station should have a blue three ring binder notebook entitled, "Guide to Proposal Preparation at UNL" to assist you in preparing the forms. Some of the areas that need clarification are:

1. On Form 2000-3 (For State Agencies, Boards or Commissions Only) Item VI. Personnel. (Page 85 of manual).

List only personnel that are to be paid from this grant money, the FTE, current or new hire and the annual salary (do not include fringe benefits).

2. IX. Narrative - Do not fill this out. Research Services will fill in the information requested. (Page 87 of manual).

3. On the UNL Proposal Budget Form (Page 89), the fringe benefits are as follows:

14% - Faculty and Staff

12% - Graduate Students

6.65% - Hourly Help

4. The overhead rate is 31% of the Modified Total Direct Costs except:

a. Individual equipment items which cost in excess of \$500 and have an anticipated useful life of more than two years.

b. Student aid including stipends, tuition and fees, and related expenses (note: we do not have any that would fit this category).

c. Alteration and renovation of physical facilities.

d. Subgrants and subcontracts in excess of \$25,000. Initial \$25,000 is included, excess over \$25,000 is excluded.

5. The budget page of the PRO forms and the budget page in the proposal must be in agreement.

6. The UNL Proposal budget form should be signed by the Department Head or District Director (Page 89).

7. The source of match, in most instances, will be the Departmental funds.

It has been noted that some industry checks have been held in the Department for several months. Since some checks become void after a certain length of time, it is important that these checks be deposited into an account immediately.

If you have any questions on filling out the forms, please contact Diane Mohrhoff, Ag Experiment Station, Extension 2-2045.

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - October 1981

Journal Articles - Submitted for Publication (contact authors for more information)

6692. An Experimental Study of Net Radiation, Its Components and Prediction. Albert Weiss. *Agronomy Journal*.
6693. A Phenological Comparison of Grain Sorghum and Maize. R. E. Neild. *Agricultural Meteorology*.
6694. Seeding Rates to Establish Density Experiments. C. A. Francis. *Crop Science*.
6695. Economic and Agronomic Impacts of Varied Philosophies of Soil Testing. R. A. Olson, K. D. Frank, P. H. Grabouski and G. W. Rehm. *Agronomy Journal*.
6696. The Increasing CO₂ Concentration in the Atmosphere and its Implication on Agricultural Productivity II. Effects Through CO₂-Induced Climatic Change. Norman J. Rosenberg. *Climatic Change*.
6697. Sulfur Amino Acid Stability. I. Hydrogen Peroxide Treatment of Casein, Egg White and Soy Isolate. K. C. Chang, H. F. Marshall and L. D. Satterlee. *Journal of Food Science*.
6698. Sulfur Amino Acid Stability. II. Effects of Processing on Legume Proteins. H. F. Marshall, K. C. Chang, K. S. Miller and L. D. Satterlee. *Journal of Food Science*.
6699. Fixation of Plant Virus Inclusions and Their Conditions Designed for Freeze-fracture. W. G. Langenberg. *Phytopathology*.
6700. Computer Programming for Windrow Composting Industrial and Municipal Wastes. Leon Chesnin. *Biocycle-Journal of Waste Recycling Symposium*.
6701. *Labops hesperius* Management in Crested Wheatgrass by Haying. An Eight Year Study. Arthur F. Hagen. *Journal of Economic Entomology*.
6702. Construction of Thermocouples for Measurement of Soil Temperatures. M. N. Culik, J. W. Doran and K. A. Richards. *Soil Science Society of America Journal*.
6703. Beet Necrotic Yellow Vein Virus Transmission by *Polymyxa betae* Zoospores. L. Giunchedi and W. G. Langenberg. *Phytopathology*.
6704. Viability of Sorghum Genotypes to Tolerate Iron Deficiency. E. P. Williams, R. B. Clark, Y. Yusuf, W. M. Ross and J. W. Maranville. *Journal of Plant Nutrition*.
6705. Wide Crosses in Herbaceous Perennials. Roger D. Uhlinger. *HortScience*.
6706. Corn Particle Size Mixtures, Roughage Level and Starch Utilization in Finishing Steer Rations. O. A. Turgeon, Jr., D. R. Brink and R. A. Britton. *Journal of Animal Science*.

6707. Comparison of Ribosomal Proteins of Selected Fungi by Gel Electrophoresis. J. E. Partridge. Phytopathology.
6708. Ground Water Mining Law and Policy. J. David Aiken. University of Colorado Law Review.

Journal Abstracts - Submitted for Publication (contact authors for more information)

- 81-1626. Vegetational Changes in Nebraska Sandhill Plots During a 55-year Period. J. Stubbendieck, Don Vokal and Peter N. Jensen. Society Range Management Meetings.
- 81-1627. Prescribed Burning in the Mixed Prairie of South Central Nebraska. Walter S. Schacht and J. Stubbendieck. Society Range Management Meetings.
- 81-1628. Impact of Corn Bran on Human Nutritional Status and on Gastrointestinal Tract Function. C. Kies. 7th World Cereal and Bread Congress.
- 81-1629. Bitter Taste Perception in Rats as Affected by Zinc Nutritional Status. Linda Boeckner and Constance Kies. 24th West Central States Biochemistry Conference.
- 81-1630. Blood Serum Lipid Levels of Adolescent Humans Fed Two Levels of Fat. Sharon Balters, Constance Kies and H. M. Fox. 24th West Central States Biochemistry Conference.
- 81-1631. Effect of Nitrate from a Vegetable Source on Urinary Nitrate/Nitrite Excretion. Kathryn Anderson, Greg Valceschini and Constance Kies. 24th West Central States Biochemistry Conference.
- 81-1632. Heritability Estimates for Caryopsis Weight, Seedling Weight, and First Year Forage Yields of Sand Bluestem [*Andropogon hallii* (Hack.)]. K. L. Glewen and K. P. Vogel. ASA-CSSA Meetings.
- 81-1633. Selective Control of Weeds in Soybeans with Herbicides. O. C. Burnside. North Central Weed Control Conference Research Report.
- 81-1634. Selective Control of Weeds in Grain Sorghum. O. C. Burnside. North Central Weed Control Conference Research Report.
- 81-1635. Selective Control of Weeds in Corn with Herbicides. O. C. Burnside. North Central Weed Control Conference Research Report.
- 81-1636. A Nursery Study of North American Leafy Spurge Types. D. H. Ebke and M. K. McCarty. North Central Weed Control Conference.
- 81-1637. Must Thistle (*Carduus thomeri* Wein.) Seed Production in Nebraska. M. K. McCarty. North Central Weed Control Conference.
- 81-1638. Granular Application of Phorate Granules for Control of Chinch Bugs on Winter Wheat, 1981. S. D. Kindler, K. P. Pruess and S. M. Spomer. Insecticide and Acaricide Tests.

- 81-1639. Characterization of Injury to Birch and Bean Leaves by Simulated Acid Precipitation. Ellen T. Paparozzi and H. B. Tukey, Jr. American Chemical Society.
- 81-1640. Measuring Drought Severity: A Call for a New Index. Donald W. Wilhite. International Symposium on Hydrometeorology, June 13-17, 1982. Denver, Co.

BULLETINS PRINTED

- RB. 297. Results of the Third High Protein-High Lysine Wheat Observation Nursery Grown in 1977. S. L. Kuhr, V. A. Johnson, P. J. Mattern and K. D. Wilhelm.