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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. 13, No.3, Sept. 1979

FROM THE DIRECTOR'S DESK

Federal Research Funding for 1979-80

We can report with some reliability on Federal funding for Experiment Station research for 1979-80. At this point both the Senate and the House have taken preliminary action; remaining is a Senate-House conference sometime this month and the final passage of the appropriation bill.

The House has recommended an increase of about 6% for formula Hatch and Regional Research Funds; the Senate has recommended 10.9%. Best guess: half way between, or 8.5%. Since we have already "built in" to our present budget an estimated increase of 5%, the additional funds would amount to, say, 3.5%, or \$70,000. Needless to say, we will accept them!

Other details:

- The House has recommended no increase for McIntire Stennis forestry research funds; the Senate recommends an increase of 7 percent.
- The House would restore Title V rural development funding; the Senate recommended no funds.
- The House did not fund PL 95-113 Animal Health and Disease research; the Senate recommended \$15 million, vs \$5 million for FY 79. (However, the House earmarked \$10 million for Animal Health and Disease research under the Special Grant Program PL 89-106).
- The House recommended no funding for the Competitive Grant Program; the Senate recommended \$25 million. Best guess: restoration to the \$15 million level of 1979.
- Both the Senate and the House have recommended Special Grant (PL 89-106) funds for research on food and agricultural policy; pesticide clearance; pesticide impact assessment; and energy research. Both have indicated funds for the regional Rural Development Centers (our center is at Ames).
- Both houses have earmarked funds for research on "Native Latex Commercialization".

Summing up, the outlook for 1979-80 is much better than 1978-79. The outcome, assuming that our expectations are realized, will have resulted from a great effort on the part of the Land Grant System, and others interested in agricultural research; and appreciation for agricultural research in Congress.

Howard W. Ottoson

PERSONNEL ACTION

Klepper, Lowell A. - Assoc. Professor - Agronomy - Tenure
Mather, Floyd - Assoc. Professor - Anim. Science - Resignation to Univ. Florida
Mielke, Lloyd N. - Assoc. Prof. Agron. & Ag. Engineering - Promotion (Court. Apptm.)
Power, James F. - Professor of Agronomy - Courtesy Appointment
Rider, Allen R. - Assoc. Prof. Ag. Engineering - Resignation to Sperry New Holland

GRANTS & CONTRACTS

Campbell, J. B. - Entomology -(NP Station)- Philips Roxane Inc.	\$ 1,000
Compton, W. A. - Agronomy - Illinois Foundation Seeds, Inc.	1,000
Daly, J. M. - Ag Biochemistry - USDA/SEA	70,000
Danielson, D. M. - Animal Science -(NP Station)- Nebr.Pork Producers	3,000
Fenster, C. R. - Agronomy -(PH Station)- American Hoechst	500
Froning, G. W. - Animal Science - American Egg Board	22,000
Gold, R. E. - Env.Programs - Nebr. Natural Resources Commission	65,156
Hagen, A. F. - Entomology -(PH Station)- Union Carbide	500
Johnson, V. A. - Agronomy - U.S. Department of State/AID	84,570
Kerr, E. D. - Plant Pathology -(PH Station)- Union Carbide	1,750
Lagrone, W. F. - Ag Economics - USDA/ESCS	3,000
Lane, L. C. - Plant Pathology - Nebraska Div. Wheat Dev.Util. Mktg.	10,500
Lewis, A. J. - Animal Science - Nebraska Pork Producers Assoc.	2,000
Lindgren, D. T. - Horticulture -(NP Station)- Jackson & Perkins Co.	2,668
Linsenmeyer, D. - Ag Economics - Nebraska Div. Wheat Dev.Util. Mktg.	4,568
Mattern, P. J. - Agronomy - Nebraska Div. Wheat Dev.Util. Mktg.	19,500
Moser, B. D. - Animal Science - Nebraska Pork Producers Assoc.	2,000
O'Keefe, R. B. - Horticulture -(PH Station)- Diamond Shamrock	500
Schmidt, J. W. - Agronomy - Nebraska Div. Wheat Dev. Util. Mktg.	14,000
Specht, J. E., B. L. Blad, S. B. Verma - Agronomy - USDA/SEA	106,800
Svec, L. V. - Agronomy -(SC Station)- Nebr.Soybean Dev.Util.Board	10,325
Ward, J. K. - Animal Science - American Dehydrators Assoc.	6,000
Weihing, J. L. - Plant Pathology - Western Nebr. Community College	2,800
Wilson, R. G. - Agronomy -(PH Station)- Miscellaneous Donors	3,300

GENERAL NOTES

1. Mr. Richard S. McManaman of Yutan will become Facilities Manager of the Field Laboratory on October 1. He replaces Dick Ehlers who has left us. Mr. McManaman is a 1962 Civil Engineering graduate of UNL. He has broad relevant experience with the SCS, the Department of Roads, Union Stockyards and a consulting firm of Engineers and Architects as a utilities and paving specialist. He has a farm background and operates a small farm near Yutan. We believe that he will fit well this important duty.
2. Mr. Chick Hastert is back and filling in at the Field Laboratory for a month. We appreciate his help and enjoy working with him again.
3. Beginning with the 1979 fall semester, the University of Nebraska-Lincoln will provide subsidized computer literature searching for UNL faculty. The Libraries will pay one-half of the cost for a faculty request with a maximum Libraries' expenditure of \$10.00 per request (a request is a search of one or more data bases.) This includes the costs for searching with the computer and for offline printing of the bibliographic records. Contact Wayne Collings or Alice McIntosh, C. Y. Thompson Library.
4. The South Central Station is assuming responsibility for the AES exhibit at the Husker Days in Grand Island this month. We appreciate this assistance in furthering public awareness of the AES programs.
5. The Search and Screening Committee for the North Platte District Director position is activated. Your inputs can be through any member. Gail Wicks is Chairman and Jim Peters is Secretary.
6. "If pleasure is greatest in anticipation, so also is trouble."

R. W. Kleis

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

5736. Indigenous Plasmids from Phytopathogenic *Corynebacterium* Species. Dennis C. Gross, Anne K. Vidaver and Michael B. Keralis. Journal of General Microbiology.
5737. The Face Fly, *Musca autumnalis* DeGeer: Ability to Cause Mechanical Damage. Jack Isaac Shugart, J. B. Campbell, D. B. Hudson, C. M. Hibbs, R. G. White and D. C. Clanton. Journal of Economic Entomology.
5738. Selection for Cold Germination in Two Maize Populations. R. L. McConnell and C. O. Gardner. Crop Science.
5739. Prediction of Protein Digestibility by an *In Vitro* Procedure Using Human, Porcine, and Rat Pancreatin Preparations. H. F. Marshall, Jr., G. W. Wallace and L. D. Satterlee. Nutrition Reports International.
5740. Yield Variability in Proso Millet Grown in Variety Trials as Affected by Number of Rows Planted and Harvested. L. A. Nelson. Agronomy Journal.
5741. Crossing Contamination Along Contiguous Borders of Certified Alfalfa Seed Fields. D. E. Brown, W. R. Kehr, G. R. Manglitz, J. H. Elgin, Jr. and S. A. Ostazeski. Crop Science.
5742. The Relationship of Fe/Zn Concentration and Eating Quality in Beef. L. D. Satterlee, P. C. Anderson, K. L. Anderson, F. Caporaso and D. G. Olson. Meat Industry.
5743. INDEPENDENT LIVING SPECIALIST: New Opportunities for the Home Economist. Lois O. Schwab. The Journal of Home Economics.
5744. Student-Developed Mediated Career Information. J. T. Horner, R. L. Douglass and D. G. Zikmund. Journal for Vocational Special Needs Education.
5745. Inheritance of Several Cold Tolerance Traits in Maize. R. L. McConnell and C. O. Gardner. Crop Science.
5746. Effect of Elfazepam on Apparent Digestibility, Intake and Gain in Sheep. S. S. Gonzalez, S. D. Farlin and C. A. Baile. Journal of Animal Science.
5747. Ultrastructural Differentiation of Rat Sertoli Cells. Angel S. Ramos, Jr. and Martin Dym. Biology of Reproduction.
5748. Polyamines in Dimorphic Fungi. Michael Marshall, Geraldine Russo, James Van Etten and Kenneth Nickerson. Journal of Current Microbiology.
5749. Morphologic Variations Along the Length of the Monkey Vas Deferens. Angel S. Ramos, Jr. Journal of Reproduction and Fertility.
5750. Dosage-Mortality Data for European Corn Borer Larvae. Frederick S. Koziol, John F. Witkowski and William B. Showers. Journal of Economic Entomology.
5751. Role and Significance of Enzymes In Human Milk. K. M. Shahani, A. J. Kwan and Beverly A. Friend. American Journal of Clinical Nutrition.
5752. Chemical, Nutritional and Microbiological Quality of a Protein Concentrate from Culled Dry Beans. K. C. Chang and L. D. Satterlee. Journal of Food Science.

(over)

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

- 79-1222. Effect of the Application of N and P on the Yield and Forage Quality of Intermediate Wheatgrass and Meadow Bromegrass. G. W. Rehm. American Society of America.
- 79-1223. Bioavailability: A Factor in Protein Quality. C. Kies. Chemical & Engineering News.
- 79-1224. The Influence of Lodging on Yield and Some Agronomic Characteristics of Soybeans. C. A. Shapiro, W. M. Sullivan, A. D. Flowerday and I. Kalantari. American Society of Agronomy.
- 79-1225. The Influence of Population Density on Morphological Characteristics and Yield of Grain Sorghum Hybrids. W. M. Sullivan, A. B. C. Mbanaso, A. D. Flowerday and C. A. Shapiro. American Society of Agronomy.
- 79-1226. Crop Temperature as an Indicator of Plant Water Stress in Corn and Sorghum. B. L. Blad, B. Gardner, K. L. Clawson and D. G. Watts. American Society of Agronomy Annual Meeting, Ft. Collins, Colo., August 5-10, 1979.
- 79-1227. Resistance Models of Evapotranspiration Used in a Region of Strong Sensible Heat Advection. Norman J. Rosenberg, Blaine L. Blad and Shashi B. Verma. Eighth International Biometeorological Congress, September 9-15, 1979, Shefayim, Israel.
- 79-1228. Nitrogen Equivalent Response of Grain Sorghum Following Soybeans in Rotation. M. D. Clegg. Agronomy Journal.
- 79-1229. A System for Evaluating Protein Sources. D. W. Rock, T. J. Klopfenstein, J. K. Ward and R. A. Britton. Journal of Animal Science.
- 79-1230. Characterization of Bone Particles from Cooked and Uncooked Mechanically Deboned Chicken Meat. G. W. Froning, F. E. Cunningham and D. R. Suderman. Poultry Science.
- 79-1231. Functional Properties of Eggs in Puffed Products. G. W. Froning. Poultry Science.
- 79-1232. Extraction and Processing of Various Components from Egg Yolk. J. E. Larsen and G. W. Froning. Poultry Science.
- 79-1233. The Interaction of Calcium Hydroxide Treatment and Moisture Level of Crop Residues. J. A. Paterson, T. J. Klopfenstein and R. A. Britton. Journal of Animal Science.
- 79-1234. Associate Effects: Corn Grain and Cornstalks. M. L. McDonnell, T. J. Klopfenstein and R. A. Britton. Journal of Animal Science.
- 79-1235. Ammonia Treatment of Corn Plant Residue. J. A. Paterson, T. J. Klopfenstein and R. A. Britton. Journal of Animal Science.
- 79-1236. Plant Analysis of Trace Elements by X-Ray. D. Knudsen, R. B. Clark, J. L. Denning and P. A. Pier. Proceeding of Symposium on Trace Element Stresses in Plants.