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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. 13, No.5, November 1979

FROM THE DIRECTOR'S OFFICE

Field Laboratory Maintenance Allocation ($250,000): The IANR Field Laboratory was awarded $250,000 August 1, 1979 from the LB 309 Deferred Maintenance Task Force. This funding is for material only for roofing materials, Load Line building overhang repair, and guttering and downspouts on buildings at the Field Laboratory.

It should be noted that an emergency funding of materials and labor ($36,000) was granted in the fall of 1978. This fund permitted immediate roof renovation for various unit manager's research and office buildings (inert storage buildings) which had serious moisture leaks.

In the spring of 1979, Richard Ehlers, Facilities Manager at that time, and I inventoried all buildings at the Field Laboratory. They were classified as research-intensive, research-oriented, storage, and miscellaneous buildings. The above mentioned funding was a result of this survey which pointed up the serious deterioration of the roof surfaces. LB 309 Task Force members made several on the spot inspections. We express our appreciation to the LB 309 Task Force for this funding.

Update on recent Havelock Land Sale funds allocation for the Agronomy Field Laboratory Facilities: An increment of the Havelock Land Sale Fund ($216,000) was awarded the Agronomy Department for improvements at the Field Laboratory. The need and expenditure list is a potpourri of items covering adequate rest rooms, insulation materials, painting and sand blasting of the building exteriors, the moving in and refurnishing of 9 inert storage buildings, land shaping, road improvement, grain storage, etc.

A total of $114,172.53 has been expended, and the remaining portion is programmed for completion within the next year. These funds have been used very judiciously. On site departmental employees have helped during "off seasons" periods, the Field Laboratory renovation crews have undertaken as many items as they could handle, and some sizeable jobs have been contracted to outside firms with the cooperation of the Physical Plant representatives.

W. W. Sahs

PERSONNEL ACTION

Bish, Cyril - Ext. Agric. - Lancaster County - retirement
Hanson, Bruce V. - Assoc. Prof. - Conservation & Survey - new appointment
Rider, Allen R. - Assoc. Prof. - Ag Engineering - resignation
Sayer, Leroy E. - Asst. Prof. - Veterinary Technology (Curtis) - resignation

GRANTS & CONTRACTS

Coyne, D. P. - Horticulture - Union Pacific Foundation	$ 6,200
Fenster, C. R. - Agronomy - (PH Station) - Miscellaneous Donors	2,450
Johnson, R. K. - Animal Science - Nebraska Pork Producers Assoc.	3,000
Klopfenstein, T. J. - Animal Science - Distillers Feed Res. Council	5,000
Peo, Jr. E. R. - Animal Science - USDA/SEA	52,000
Roeth, F. W. - Agronomy - (SC Station) - Miscellaneous Donors	900
Rush, I. G. - Animal Science - (PH Station) - Eli Lilly & Company	1,500
Schuster, M. L. - Horticulture - Green Giant Foundation	1,500
Shahani, K. M. - Food Science & Tech. - Pedco International Inc.	6,000
Specht, J. E. - Agronomy - Union Pacific Foundation	5,600
Supalla, R. J. - Ag Economics - Union Pacific Foundation	2,090
Sullivan, T. W. - Animal Science - Miscellaneous Donors	17,600
Thompson, T. L. - Ag Engineering - USDA/SEA	41,504
Wilson, R. G. - Agronomy - (PH Station) - Dresdner Bank	500
Wittmuss, H. D. - Ag Engineering - Eli Lilly & Company	1,500
* Satterlee, L. D. & J. G. Kendrick - Food Science & Tech. - NSF	72,329

STAFF NOTES

1. Staff Activity Report forms are currently being distributed and are to be completed and turned in to unit administrators. Please be reminded that these reports are important representation of programs, accomplishments and contributions to IANR missions. They are used so you are urged to execute them to thoroughly represent your year's activity.

2. The Department of Veterinary Science is scheduled for a comprehensive review of all its programs January 21-25, 1980. The review team will consist of Dr. N.B. King (Chairman) of Auburn, Dr. M. E. Bergeland of South Dakota State, Dr. A. D. Leman of the University of Minnesota, Dr. Billy Ward of Mississippi State and Dr. B. E. Hooper of Purdue. In addition to all Veterinary Science Staff, this may well involve other collaborators. Those involved and/or interested should guard the dates.

3. An AES Seminar is scheduled for 3:30, December 11 in the East Union on current patent policies and guidelines relating to University staff members. We urge your attendance and participation in this discussion led by Eugene Trani, Assistant Vice President for Academic Affairs and Mr. Vincent Carney, Patent Attorney.

4. Sahs sez that the campus grass and shrubs should look healthier because the Grounds Department is using Field Laboratory "Super Dooper Compost" on them.

5. SEA/CR now provides for AES scientists a Current Awareness Literature System (CALS). It is an electronic based system in which you can participate by completing a "profile" form on your research interests. This "profile" will then be periodically matched with current literature entries and you will receive a list on an order form. There is no charge. If you would like to participate, contact Mr. Wayne Collings of CYT Library for the form.

6. He has the right to criticize who has the heart to help - Abraham Lincoln.

R. W. Kleis

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* A corrected citation.

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - October 1979

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

5768. Acceptable and Unacceptable Summer Activities. James T. Horner. Agricultural Education.

5769. Supervised Occupational Experience Records. James T. Horner. Agricultural Education.

5770. Vocational Agriculture: Leadership, Laurels, and Legislation. James T. Horner. American Association of Teacher Educators in Agriculture.

5771. Pesticide Use in Irrigated Regions of the Nebraska Panhandle. Robert G. Wilson. Weed Science.

5772. Restriction Enzyme Analysis of Plasmids from Syringomycin-producing Strains of *Pseudomonas syringae*. Carlos F. Gonzalez and Anne K. Vidaver. Phytopathology.

5773. Teaching Human Development and Interpersonal Relationships to Help Youth Solve Practical Problems. Shirley Kreutz, Gladys Helm and Sally Van Zandt. Educational Forum.

5774. Effect of Dietary Lactic Acid on Rumen Lactate Metabolism and Blood Acid-base Status of Lambs Switched from Low to High Concentrate Diets. G. B. Huntington and R. A. Britton. Journal of Animal Science.

5775. Partitioning of the Effects of Environmental Temperature and Dietary Energy Intake on the Performance of Laying Hens. D. A. Ngoka, F. B. Mather and E. W. Gleaves. Poultry Science.

5776. Dissemination of Weed Seeds by Surface Irrigation Water in Western Nebraska. Robert G. Wilson, Jr. Weed Science.

5777. Loneliness and Divorce. John C. Woodward, Jackie Zabel and Cheryl DeCosta. Journal of Divorce.

5778. Response of Corn to Zinc Source and Rate of Zinc Band Applied with Either Ortho - or Polyphosphate. G. W. Rehm, R. A. Wiese and G. W. Hergert. Soil Science.

5779. Photosynthetic Carbon Metabolism in *Panicum miliioides*, A C_3-C_4 Intermediate Species: Evidence for a Limited C_4 Dicarboxylic Acid Pathway of Photosynthesis. C. K. M. Rathnam and Raymond Chollet. Biochimica et Biophysica Acta.

5780. A Pressure Injection Device for Inoculation of Maize with Bacterial Phytopathogens. R. R. Carlson, A. K. Vidaver, D. S. Wysong and J. H. Riesselman. Plant Disease Reporter.

5781. Development of Plant Genotypes for Multiple Cropping Systems. Charles A. Francis. Plant Breeding Symposium II.

(over)

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

79-1250. Number Right and Elimination Scores as a Function of Item Arrangement, Knowledge of Arrangement, and Test Anxiety. Barbara S. Plake, Patricia A. Thompson, and Stephen R. Lowry. Educational Researcher.

79-1251. Choice of Number of Replications to Detect Live Treatment Differences in Nutrition Experiments. Stephen R. Lowry. Journal of Animal Science.

79-1252. Restricting Intake of Supplements Fed to Steers on Irrigated Pasture. J. E. Jensen, S. R. Lowry and D. C. Clanton. Journal of Animal Science.

79-1253. Isolation Distances for Foundation and Certified Alfalfa Fields. D. E. Brown, W. R. Kehr, G. R. Manglitz, J. H. Elgin, Jr., and S. A. Ostazeski. Proceedings 16th Central Alfalfa Improvement Conference, St. Paul, Minnesota, September 11-12, 1979.

79-1254. Preemergence Herbicide Effect on Establishment of Blue Grama Turf. J. S. Ertel, E. J. Kinbacher, R. C. Shearman and T. P. Riordan. Agronomy Abstracts.

79-1255. Evaluation of Kentucky Bluegrass Under Low Maintenance Conditions. T. P. Riordan, M. Manton, E. J. Kinbacher and R. C. Shearman. Agronomy Abstracts.

79-1256. Evaluation of Kentucky Bluegrass Hybridization Methods. J. P. Behling, T. P. Riordan, E. J. Kinbacher and R. C. Shearman. Agronomy Abstracts.

79-1257. Effect of Preemergence Herbicide on Establishment of Buffalograss Turfs. E. J. Kinbacher, J. S. Ertel, R. C. Shearman and T. P. Riordan. Agronomy Abstracts.

79-1258. The Effect of Nitrogen Carrier and Water Application Rate on Turfgrass Liquid Fertilizer Application Programs. R. Wesely, R. C. Shearman, E. J. Kinbacher and T. P. Riordan. Agronomy Abstracts.

79-1259. Grass-paver System for Intensively Trafficked Areas. M. E. Grooms, R. C. Shearman, E. J. Kinbacher and T. P. Riordan. Agronomy Abstracts.

79-1260. Associative Nitrogen Fixation in Park Kentucky Bluegrass. R. C. Shearman, R. V. Klucas, W. L. Pedersen and E. J. Kinbacher. Agronomy Abstracts.

79-1261. Shattercane Control in Close-drilled Soybeans. O. C. Burnside. Proceedings 1979 North Central Weed Control Conference.

79-1262. Reducing the Impact: Altering the Field Environment and/or the Crop. Norman J. Rosenberg. Presentation at the Symposium The Impact of Climate on Food Supplies, sponsored by AAAS & Aspen Inst. of Food and Climate Forum, January 3-8, 1980.

79-1263. Control of Weed Escapes in Crops with the Recirculating Sprayer. D. R. Carlson and O. C. Burnside. Proc. of North Central Weed Control Conference.

BULLETINS PRINTED

RB 288. Results of the Ninth International Winter Wheat Performance Nursery Grown in 1977. S. L. Kuhr, K. D. Wilhelmi, V. A. Johnson, P. J. Mattern and J. W. Schmidt.