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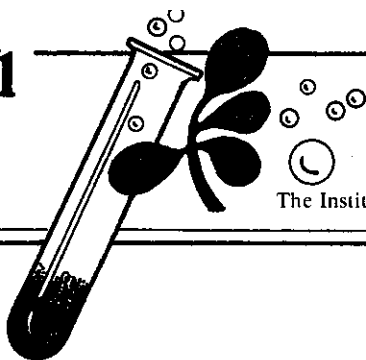
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December 1995

Volume 30, Number 3

SEASON'S GREETINGS

The Agricultural Research Division extends to all faculty and staff our best wishes for a joyful holiday season and a productive new year.

We are very pleased with the continued development of your research programs. Each year, the amount of grant and contract funding received by ARD units increases, the quality of our graduate education program improves, and the outputs from the research programs are enhanced in quality and quantity. This quest for excellence results from the leadership, dedication and creativity of the faculty and staff. We appreciate your accomplishments and extend thanks for your diligent efforts on behalf of the people of Nebraska.

We also wish to thank you for helping make our jobs more enjoyable. Your good humor, willingness to satisfy somewhat bureaucratic requirements, and responsiveness to requests from the ARD Office are truly appreciated. Please let us know how we can help enhance your research program. Thanks again for your support during 1995. We look forward to a productive and challenging 1996. Keep up the good work.

Danell Dale
Helene
Steve
Chris
Dora Mary Tom



GRANTS AND CONTRACTS RECEIVED OCTOBER AND NOVEMBER, 1995

Agricultural Meteorology	
Easterling, W. — NSF	\$ 500,000
Agronomy	
Comfort, S. and Shea, P. — USDA/CSREES	21,582
Francis, D. and Blackmer, T. — USDA/CSREES	107,037
Johnson, B. — Pioneer Hi-Bred	40,000
Miscellaneous grants under \$5,000 each	22,755
Animal Science	
Klopfenstein, T. — M. G. Walbaum	9,000
Miscellaneous grants under \$5,000 each	14,253
Biochemistry	
Banerjee, R. — NIH	18,876
Golbeck, J. — USDA/CSREES	120,000
Klucas, R. and Sarath, G. — USDA/CSREES	110,000
Weeks, D. and Sarath, G. — USDA/CSREES	47,800
Biological Systems Engineering	
Clements, L. — Haynes Environmental Corporation	18,000
Center for Rural Community Revitalization and Development	
Van der Sluis, E. — USDA/CSREES	19,888
Entomology	
Miscellaneous grants under \$5,000 each	61,600
Food Science and Technology	
Miscellaneous grants under \$5,000 each	4,417
Forestry, Fisheries and Wildlife	
Jelinski, D. — U.S. Fish and Wildlife	50,000
Miscellaneous grants under \$5,000 each	3,000
Horticulture	
Coyne, D. — Michigan State University	80,000
Read, P. — Iowa Department of Transportation	37,000
Miscellaneous grants under \$5,000 each	9,670
Northeast Research and Extension Center	
Shelton, D., Brumm, M., and Shapiro, C. — Nebraska Pork Producers	9,578
Miscellaneous grants under \$5,000 each	26,600



It is the policy of the University of Nebraska-Lincoln Institute of Agriculture and Natural Resources not to discriminate on the basis of sex, age, handicap, race, color, religion, marital status, veteran's status, national or ethnic origin or sexual orientation.



Panhandle Research and Extension Center	
Miscellaneous grants under \$5,000 each	17,658
Plant Pathology	
Dickman, M. — USDA/CSREES	50,000
Dickman, M. — BARD	113,220
Dickman, M. and Mitra, A. — Pioneer Hi-Bred	174,240
Miscellaneous grants under \$5,000 each	3,100
South Central Research and Extension Center	
Miscellaneous grants under \$5,000 each	2,500
Veterinary and Biomedical Sciences	
Barletta, R. — USDA/CSREES	120,000
Duhamel, G. and Elder, R. — Nebraska Pork Producers Association	16,000
Moxley, R. and Barletta, R. — Nebraska Pork Producers Association	9,000
Osorio, F. — National Pork Producers Association	15,820
Miscellaneous grants under \$5,000 each	10,500
Water Center	
Spalding, R. — Nebraska Department of Agriculture	65,000
Miscellaneous grants under \$5,000 each	15,000
West Central Research and Extension Center	
Miscellaneous grants under \$5,000 each	25,479
Grand Total	\$1,968,573

PROPOSALS SUBMITTED FOR FEDERAL GRANTS

The following is a listing of proposals that were submitted after October 1995 by faculty for federal grant programs. While not all grants will be funded, we applaud the faculty member's effort in submitting proposals to the various agencies.

Thomas E. Janousek — National Research Initiative Competitive Grants Program — The Capability of Wetlands to Generate Macroinvertebrates — \$197,074.

P. Stephen Baenziger and Yang Yen — National Research Initiative Competitive Grants Program — Exploring the Interface of Qualitative and Quantitative Genetics — \$240,910

Rhae A. Drijber — National Research Initiative Competitive Grants Program — Stability of Soil Microbial Communities Under Different Agroecosystems — \$125,126

Steve Taylor — USDA/CSREES — Alliance for Food Protection — \$140,964

Marjorie Lou — NIH — Protein-Thiol Mixed Disulfides in Cataractogenesis — \$223,639

Swey-Shen Chen — NSF — Construct of Synthetic Chimeric B-T Peptide for Foot-and-Mouth Disease Virus (FMDV) — \$384,834

Swey-Shen Chen — NSF — Analysis of the Role of IgE Peptide in IgE Gene Disrupted Mice — \$800,300

Wayne Woldt, Dennis Schulte, David Jones, Mohamed Dahab and Bruce Dvorak — NSF — Engineering Research Equipment: High Performance Graphics Workstations for Research in Environmental Systems Modeling — \$40,943

P. Stephen Baenziger — USDA/ARS — Utilization of Beef Cattle Feedlot Manures — \$320,000

George Graef — USDA/ARS — Genetic and Physiological Dissection of Seed Component Characters in Soybean: Nebraska — \$13,000

NEW OR REVISED PROJECTS

The following station projects were approved recently by the USDA Cooperative State Research Service:

NEB-11-106 (Biological Systems Engineering) Whole Farm Nutrient Budgeting for Livestock Systems
Investigator(s): R. Koelsch, M. Brumm, R. Massey, J. Nienaber, I. Rush and D. Walters
Status: New State project effective July 1, 1995.

NEB-12-190 (Agronomy) Analysis of Genetic Variation by CPDNA Characterization
Investigator: D. J. Lee
Status: Revised Hatch project effective Sept. 1, 1995

NEB-12-198 (Agronomy) Jasmonic Acid Regulated Gene Expression in Soybean
Investigator: P. Staswick
Status: Revised Hatch project effective Feb. 1, 1996

NEB-12-247 (Agronomy) An Ecophysiology Approach to Understanding Maize Tolerance and Weed Suppressive Ability
Investigator(s): D. A. Mortensen, J. L. Lindquist and B. E. Johnson
Status: New Competitive Grant effective Sept. 1, 1995

NEB-12-251 (Agronomy) Integration of Abiotic Treatments with Plant-Based Strategies for Remediating Soil Contaminated
Investigator(s): P. J. Shea, S. D. Comfort, G. Horst, R. Drijber, W. Powers and T. Zhang
Status: New State project effective July 1, 1995

NEB-13-128 (Animal Science) Transfer of Antibiotic Resistance Genes Between Bacteroides and Prevotella Species
Investigator: M. Morrison
Status: New Animal Health project effective Aug. 18, 1995

of \$183,000 exists in the program after these funding sources are summed. In past years, the Chancellor's Office has picked up the deficit but users will now have to pay a portion of the total expenses for hazardous waste disposal.

IANR has received a bill for \$62,850 as our share of the hazardous waste disposal costs for the current year. This amount represents about one-third of the total deficit because IANR units generate about one-third of the hazardous wastes. In discussions with unit administrators, it was decided to prorate the bill to units based on the proportion of hazardous waste each generated. Funds will be transferred from units to the Vice Chancellor's Office for payment of the IANR bill.

We anticipate that IANR's bill for hazardous waste disposal will be about \$63,000 for fiscal year 1997 but decline to \$25,000 in fiscal year 1998 as our hazardous waste problems on campus are gradually reduced. Faculty are encouraged to take appropriate actions to reduce the amount of hazardous waste being generated. We suggest that faculty purchase only the amount of chemicals actually needed for their research project, that alternate analytical procedures generating less or no waste be considered, and that unneeded chemicals be recycled through the Hazardous Waste Program. Please ensure that employees do not violate environmental regulations to avoid the expense of hazardous waste disposal.

CONTACTS WITH MEMBERS OF CONGRESS AND THE LEGISLATURE

Faculty are encouraged to contact and respond to requests from members of Congress and the Nebraska Legislature. Many faculty have unique knowledge that is beneficial in the resolving of public policy issues and we have an obligation as scientists to provide information that is useful to decision-makers.

As UNL faculty members, we are not permitted to approach members of the Nebraska Legislature with requests for funding except to support projects on the Board of Regents priority list. Contacts with the Legislature regarding program priorities and funding is the domain of the Board of Regents, President, Chancellors and the Legislative Affairs Officers (Lee Rupp, Mike Mulnix and Alan Moeller).

The main point is to avoid surprising the President or Board of Regents. Therefore, it is critical that the President's office be informed about any direct contact that you have made or information that you have shared with a member of the Legislature. Information about such contacts can be relayed through Alan Moeller as IANR's representative on the University-wide Legislative Committee.

As UNL faculty members, we are discouraged from approaching members of Congress with requests for funding specific projects in the USDA budget. Letters or personal contacts that support general funding of agricultural research are encouraged. Requests for new state specific projects should be discussed with unit administrators and forwarded to Deans Bolen or Nelson. The Deans serve as

the primary contacts with the Legislative Aides serving Senators and Representatives. The Deans coordinate their requests with Vice Chancellor Omtvedt and J. B. Milliken, Vice President for External Affairs. Thus, all contacts with the Congressional offices deliver a consistent message regarding funding needs. This approach has proven successful in the past. Entrepreneurial faculty who approach the Nebraska Congressional Delegation seeking funding for a specific project may confuse the Senators and Representatives regarding our priorities and, as a result, IANR may not receive any state specific grants.

The above listed guidance in no way abridges a faculty member's rights as a citizen. As a private citizen, we can make requests and have input as deemed appropriate. In approaching decision makers, faculty must be cognizant of who they are representing — IANR or themselves. Be certain to clarify to the decision-maker whether you are representing yourself or the University.

Darrell W. Nelson

"GENERIC" DISCLOSURE OF INTEREST FORM

Many faculty have filed the "generic" Disclosure of Interest form with the Research Grants and Contracts Office. Once filed, this form exempts faculty from completing another "Disclosure of Interest" form for proposals to federal or state agencies during the period Oct. 1, 1995 to Sept. 30, 1996. A new "generic" Disclosure of Interest form for federal and state agencies will be required on Oct. 1, 1996.

Disclosure of Interest forms are required for each proposal sent to a company, foundation or private entity even if the "generic" Disclosure of Interest form has been filed. There is must greater likelihood for a conflict of interest with companies or private entities than with state or federal agencies.

ARD was at the forefront in trying to eliminate the requirement that a Disclosure of Interest form be prepared for each proposal, because of the tremendous bureaucracy involved in the process. We were successful in minimizing the bureaucracy for proposals submitted to federal and state agencies but were not able to eliminate the need for "Disclosure" forms for each proposal to a company or private entity.

FY 1997 PRIORITIES OF THE JOINT COUNCIL

The Joint Council on Food and Agricultural Sciences has recently issued a report entitled *Fiscal Year 1997 Priorities for Research, Education and Economics*. Listed below are the goals and subgoals identified in the Joint Council report:

Achieve Economically Viable Agricultural Production Systems that are Compatible with Environmental and Social Values

- Develop improved agricultural and forest management systems that are compatible with natural ecosystems

- Protect, conserve and improve air, soil and water resources
- Develop and transfer information on management for increased productivity and sustainability of natural resources on public and privately owned lands

Provide a Safe, Affordable, Reliable and Nutritious Food Supply

- Develop technologies to detect beneficial and harmful constituents in the food supply
- Control or eliminate safety hazards in the food supply
- Understand relationships among human nutrition, health and well-being

Educate Agricultural Scientists and Professionals to Meet Future Challenges

- Develop and reward master teachers to meet the needs of a changing global food and fiber system
- Develop human capital through innovative curricula and information delivery systems that reflect current and future changes in food and natural resources systems
- Recruit, nurture and prepare under-represented populations for careers in the food and natural resources systems
- Promote multidisciplinary, multi-institutional, and international partnerships to ensure greater access to information and more effective problem solving

Improve global competitiveness of U.S. Food, Agricultural and Forest Products

- Minimize production costs of tradeable commodities
- Provide the research base for new and differentiated products
- Provide the research base for quality assurance programs
- Identify impacts of public policy on competitiveness

Empower Individuals, Families and Communities to Improve Their Quality of Life

- Enhance self-sufficiency of individuals and families through the extension of research-based programs
- Help develop economic infrastructures that attract and sustain new investment in rural communities
- Encourage preventative health care and wellness programs

PROJECTED FEDERAL R & D FUNDING FOR FY 1996

Although the USDA budget for FY 1996 has been approved by Congress and the President, the budgets of many federal R & D agencies have not been finalized. Listed below are the FY 1995 budgets and changes proposed by the President and the House of Representatives for FY 1996. Also listed is an estimate of the effects of projected reductions (factoring in inflation) for the FY 2002 budget of these agencies.

Agency	FY 95 budget \$	President change for 96, %	House change for 96, %	Projected change for 02, %
<i>millions</i>				
NSF	3,229	+4.1	-2.2	-18.1
Research	2,245	+9.3	+0.4	—
Education	606	-1.2	-1.2	—
Facilities	118	-15.3	-15.3	—
NIH	11,284	+4.3	+5.8	-22.7
NASA	9,729	-2.2	-7.4	-35.9
Space station	2,100	0	0	—
Life science	2,456	+0.3	+0.9	—
Planet Earth	1,285	+4.4	-22.0	—
DOE	6,216	+12.8	-7.1	-47.4
Commerce	1,117	+25.7	-33.7	-50.0
Adv Tech	323	+44.6	-99.9	—
NOAA	509	+13.9	-14.1	—
Interior	672	+1.0	-22.0	-44.4
USGS	368	+1.4	-1.1	—
NBS*	152	+13.8	-25.7	—
EPA	600	+13.7	-17.4	-27.9

The House eliminated the National Biological Survey (NBS) and transferred the remaining funds to the USGS.

AUTHORIZED SIGNATURES ON GRANT PROPOSALS

The UNL Research Grants and Contracts Office recently distributed a brochure entitled "Proposal Preparation at UNL - 1995-96." This brochure provides some very useful information regarding preparation and submission of proposals to funding agencies. This column is written to explain the role of ARD in reviewing proposals and to clarify the issue of the "Authorized University Representative" signature on grant proposals.

All proposals must be approved by the unit administrator and sent to ARD for review and approval. A "Request for Proposal Approval and Submission" form must accompany all proposals. For proposals to USDA agencies, please use the following name and address for the "Authorized University Representative:"

NAME: Darrell W. Nelson
 Dean and Director
 Nebraska Agricultural Experiment Station

ADDRESS: University of Nebraska
 207 Agricultural Hall
 P.O. Box 830704
 Lincoln, NE 68583-0704

Proposals to other federal agencies, state agencies or industry should carry the name and address of the "Authorized University Representative" listed in the brochure, i.e. Dr. Sharon Davis.

Diane Says

Do the best you can with what you've got, where you are.

IANR FACILITIES ACTIVITY

**NEB-14-086 (Veterinary and Biomedical Sciences)
Molecular Characterization of *Pasteurella haemolytica*
Leukotoxin - Receptor Interactions**

Investigator: S. Srikumaran

Status: New Competitive Grant effective Sept. 1, 1995

**NEB-14-087 (Veterinary and Biomedical Sciences)
Identification of *Mycobacterium paratuberculosis*
Virulence Determinants**

Investigator: R. G. Barletta

Status: New Competitive Grant effective Sept. 1, 1995

**NEB-15-073 (Biochemistry) Diversity and Interactions of
Beneficial Bacteria and Fungi in the Rhizosphere**

Investigator: R. V. Klucas

Status: New Hatch project that contributes to regional
project S-262 effective Oct. 1, 1995

**NEB-17-061 (Entomology) Management of Fly
Population Densities in Cattle Feedlots To Reduce
Adverse Impacts**

Investigator(s): G. D. Thomas, J. J. Petersen and S. Skoda

Status: New State project effective Sept. 1, 1995

**NEB-21-061 (Plant Pathology) Detection and Properties
of Plant Viruses of Nebraska With Emphasis on Sugar
Beet Viruses**

Investigator: L. Lane

Status: New Hatch project effective Aug. 1, 1995

**NEB-21-063 (Plant Pathology) Biological Control of
Soilborne Diseases of Legumes and Turfgrass with
Antagonistic Bacteria**

Investigator: G. Yuen

Status: New Hatch project effective Nov. 1, 1995

**NEB-26-025 (Forestry, Fisheries and Wildlife) Biological
and Tree-Injection Methods for Controlling Tree Pests**

Investigator: M. Harrell

Status: New McIntire-Stennis project effective Oct. 9, 1995

**NEB-26-026 (Forestry, Fisheries and Wildlife) Factors
Affecting Wildlife Diversity and the Distribution of Rare
Populations in Nebraska**

Investigator: J. A. Savidge

Status: New Hatch project effective Nov. 1, 1995

**NEB-48-016 (South Central Research and Extension
Center) Soybean Production Practices and Alternative
Crops Within Resource Efficient Cropping Systems for
SC Nebraska**

Investigator: R. W. Elmore

Status: Revised Hatch project effective Sept. 6, 1995

**NEB-92-021 (Family and Consumer Sciences) Impact of
Head Start on Rural Children, Families, and
Communities**

Investigator: P. Zece

Status: New Hatch project effective Aug. 1, 1995

IANR programs involve the use of a large inventory of university-owned land and buildings at the Lincoln Campus, the Research and Extension Centers, the Agricultural Research and Development Center, and several other locations. Maintenance and modernization of existing buildings is a huge challenge, considering that many are 40 to 80 years old. Providing new facilities for expanding or redirecting programs also is challenging. Although needs are always greater than resources available, IANR has been able to make substantial progress in facilities improvements on recent years.

Since Jan. 1, 1994, more than 50 projects, funded primarily from internal sources, have been completed with a total cost of over \$2,500,000. These have been funded by the IANR Deans, Vice Chancellor-IANR, Vice Chancellor-Research, Vice Chancellor-Academic Affairs, Chancellor, and the State 309 program. These projects include: Renovate 210 Keim Hall, (computer and multi-media classroom); Demolish Poultry Buildings B, C, D, E, G and J; Construct Aquatics Lab; Humidity Control and Casework, 218/220 Home Economics Building; Renovate Rooms 224, 234 and 235 Veterinary Basic Sciences (labs); Renovate Plant Science Greenhouses, Phase II; Demolish Pesticide Rinsate Pits, ARDC and Agronomy Farm; Construct Dairy Hay Storage Building, ARDC; Construct Agronomy Machinery Storage Building, ARDC; Renovate Feed Mill, Mitchell (PREC); Construct 2 Grain Bins, Mitchell (PREC); Construct Addition, Bill Krejci Building, Clay Center (Great Plains Veterinary Education Center); and Construct Cattle Research Support Building, WCREC.

Nine projects funded primarily through the State Capital Construction process have been completed during the past two years at a total cost of \$12,390,000. The extended campus projects were: the ARDC Research and Education Building; the PREC Elliot Building Mechanical and Handicapped modifications; the WCREC Swine Research Facility; the WCREC Research and Extension Support Building; the Gudmundsen Sandhills Lab Staff/Lab/Conference Center; and the NEREC Swine Research Facility. The Lincoln campus projects, which all supported the Beadle Center, were: the Biological Sciences Greenhouses; Utility Extension; and Additional Chilling Capacity. The Beadle Center also was completed at a cost of \$23,728,000 using federal, state and private funds.

There are 24 projects in design with a total estimated cost of \$1,493,300. Some examples are: Remodel the Chase Hall Basement for Laboratories; Replace NEREC Support Building; Renovate SCREC Field Service Building; Renovate SCREC Pesticide Handling Building; and Renovate WCREC Water Distribution System.

There are nine projects currently under construction costing a total of \$642,600. Some examples are: Construct Plant Industry Elevator and Stairs; Renovate Plant industry, Phase III; and Remodel Lab 106 Keim.

Questions about these and other facilities matters can be directed to IANR Facilities Coordinator Tom Johnson (2-7091) or IANR Facilities Director Dale Vanderholm (2-2046).

ARD LAUNCHES WEB PAGE

ARD recently launched its home page on the World Wide Web.

This page provides basic information about ARD and its research endeavors for a general internet audience. You may access ARD's Web page through IANR's home page by clicking on *The Agricultural Research Division* hot link under IANR information or by calling it up directly using your Web browser.

Our Web address is: [http://ianrwww/unl/edu/ianr/ard/index.htm](http://ianrwww.unl.edu/ianr/ard/index.htm)

The page includes a Research Highlights section featuring news stories and brief items about recent research accomplishments and ongoing research. Vicki Miller, CIT science writer, will update Research Highlights regularly. Information for this section comes from CIT news releases, *RESEARCH Nebraska!* magazine, ARD's annual *Endeavors* publication and other communications materials. The aim is to reach another, potentially global, audience with ARD's story.

Like many Web sites, ARD's page is evolving. Let us know what you think of it by e-mailing Darrell Nelson at agrr001@unlvm.unl.edu.

FY 1996 CSREES BUDGET

A preliminary FY 1996 budget for CSREES was presented in the last issue of *ARD News*. During October, the House and Senate Conference Committee met to finalize the CSREES budget and the President signed the appropriation. A budget comparison for FY 1995 and FY 1996 is given below. The FY 1996 CSREES budget provides a 1.5 percent reduction for Hatch and McIntire-Stennis formula funds and a 9 percent reduction in Animal Health funds. Funding for the six primary areas of the National Research Initiative (NRI) increased by 2 percent (\$1.9 million) but the three new programs added to the NRI in the FY 1995 appropriation were eliminated. The net result was a 6.2 percent reduction in total NRI funding.

Funding for National/Regional Special Grants increased by \$1.99 million (11 percent). This increase resulted from the addition of a new program designed to develop alternatives to pesticides and address critical issues relating to pest control. Funding for State Specific Special Grants decreased by \$4.44 million (13 percent). Nebraska is fortunate to be involved in seven Special Grants including three multi-state consortia. The funding for Aquaculture Centers, Rangeland Research, and the Sustainable Agriculture Research and Education Program was level from the FY 1995 appropriation.

We can expect the CSREES funding situation to become more difficult as Congress struggles to balance the federal budget by 2002. Preliminary analysis suggests that the FY 2002 CSREES budget will be reduced by about 10 percent from the FY 1995 level. When inflation is factored in, this will result in a major budget cut for our programs. There are some indications that funding for State Specific

Special Grants and the Buildings and Facilities Program will suffer major cuts. These reductions may minimize but not eliminate the cuts in formula funds, NRI, and competitive Special Grants.

Program	FY 1995	FY 1996
-- thousands of dollars --		
Base Funds		
Hatch Act	171,304	168,734
McIntire-Stennis	20,809	20,497
Animal Health	5,551	5,051
National Research Initiative		
Plant Systems	37,000	37,000
Animal Systems	23,125	23,750
Nutrition and Food Quality	7,400	7,400
Natural Res	16,650	17,650
Eng and Value-added	6,935	6,935
Markets, Trade and Policy	3,700	4,000
Water Quality	4,708	0
IPM	2,310	0
Pest Impact Assess	1,295	0
Total	103,123	96,735
Special Grants		
Altern to Pesticides	0	2,000
IPM/Biocontrol	2,731	2,731
Pesticide Clearance	5,711	5,711
Pesticide Impact Assess	1,327	1,327
Minor Use Animal Drugs	550	550
Biological Impace Assess	254	254
Rural Develop Centers	423	423
Tropical/Subtropical Ag	2,809	2,809
Water Quality	2,757	2,757
Global Change	1,625	1,615
Total	18,187	20,177
State Specific Grants	34,108	29,669
Nebraska Specific Grants		
Alliance for Food Prot*	0	300
Drought Mitigation	200	200
Food Processing Center	42	42
Midwest Food Manuf Alliance**	423	423
Non-food Agricultural Prod	93	64
Rural Policy Res. Institute***	644	644
Sustainable Ag Systems	59	59
Other Research Projects		
Aquaculture Centers	4,000	4,000
Sustainable Ag Res and Educ	8,112	8,100
Rangeland Research	475	475

* Joint with Univ of Georgia; ** Joint with 12 midwestern universities; *** Joint with Iowa State and Univ of Missouri.

HAZARDOUS MATERIALS PROGRAM CHARGES

During the current fiscal year, the UNL Hazardous Materials Program has an annual operating budget of \$693,000. This budget covers both the salaries and fringe benefits of Program employees and the cost of hazardous waste disposal. The UNL base budget provides \$240,000 for the program and the President permanently allocated \$70,000 to UNL to offset waste disposal costs. Chancellor Spanier directed that \$200,000 of indirect cost recovery be taken "off the top" to help fund the program. A net deficit