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## ARD News June 2001

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# ARD

## Agricultural Research Division News

Office of the Dean, 207 Ag Hall, P.O. Box 830704, Lincoln, NE 68583-0704, Phone (402) 472-2045, FAX (402) 472-9071

June 2001

Volume 35, Number 5

### Comments from the Dean

Dear Colleagues:

This issue of ARD News is devoted to providing a variety of information regarding the ARD research program. We have included summary information about unit performance characteristics for the past fiscal year and unit grant and contract income for the past four calendar years. There are also listings of internal grants awarded to ARD faculty and the traditional listings of new projects, external grants received and grant proposals submitted. It is hoped that you will find this information useful.

The ARD office is always interested in improving our support of faculty research projects. If you have concerns or suggestions for us, please contact Dale Vanderholm or me by email or telephone or schedule an appointment for a face-to-face discussion. We welcome your input. An alternative approach for input is through the ARD Advisory Council. This group of elected faculty representatives meet with the ARD administrators at six-week intervals. Any topic of interest to faculty is open for discussion. Please contact your unit's representative to the ARD Advisory Council with suggestions for discussion topics. We also suggest that you read the email minutes of the Council meetings to obtain an understanding of the discussions held at the meetings.

Best wishes for a great summer.

*Darrell W. Nelson  
Dean and Director*

### Average Unit Outputs Continue to Exceed ARD Goals

We are pleased to report that during FY 2000 the average outputs from 20 ARD units again exceeded the performance goals established by the ARD Advisory Council. The ARD goals and the unit averages for FY 2000 are in this table:

Indicator	ARD Average	ARD Goal	% Goal	No. Units Exceeding Goal
Appr. \$/FTE	180,694	150,000	120	15
Grant \$/FTE	102,513	100,000	103	8
Grant \$/Appr. \$	0.570	0.667	85	5
Tot. Resources, \$	283,207	250,000	113	13
Ref. Pubs./FTE	3.51	3.00	117	13
Theses/FTE	0.85	1.00	85	6

On average, ARD units exceeded the publication goal by 17% but failed to reach the goal for completed theses/dissertations for the first time in a decade. The average for appropriated resources continues to increase (now 20% greater than the goal), whereas the average grant income per research FTE has stagnated at slightly above the \$100,000 goal. Consequently, the ratio of grant funds to appropriated funds continues to decrease. One concern is the tremendous difference between units in terms of grant income. Several units are exceeding the goal for grant dollars per research FTE by a large amount while many other units have grant income levels well below the goal. Given the relatively austere future for state appropriations and federal formula funds, it is essential that every faculty member become highly proactive in seeking external grant funds if we are to maintain an effective research program in every unit.

It is important to examine the trend in research funding over the past few years. The following table gives the ARD averages for inputs and outputs during the past five fiscal years:

Indicator	FY 95	FY 96	FY 97	FY 98	FY 99	FY 00
Appr. \$/FTE	158,572	166,925	181,847	176,916	166,315	180,694
Grant \$/FTE	104,152	167,960	115,902	130,881	103,401	102,513
Grant \$/Appr. \$	0.664	0.985	0.612	0.703	0.612	0.570
Tot. Resources, \$	262,723	334,884	296,702	307,797	269,719	283,207
Ref. Pubs./FTE	3.47	3.85	3.56	3.54	3.39	3.51
Theses/FTE	1.43	1.17	1.45	1.29	1.16	0.85
Comp. Grant Prop./FTE	1.18	1.49	1.32	1.00	0.94	1.12
Grant Prop./FTE	7.54	7.48	6.94	5.81	6.43	7.94

Compared to FY 99, the FY 00 average for all units showed an increase in appropriated dollars per FTE, total funding per FTE, output of refereed publications



per FTE, competitive grant proposals per FTE, and total grant proposals per FTE. As a matter of perspective, the levels achieved for most of these variables are lower than those reported in FY 97. In FY 2000, the average amount of grant income per FTE declined slightly whereas the average output of theses and dissertations per FTE declined significantly. It appears the levels of both grant funding and research outputs have declined or stagnated in a number of ARD units. Significant collective efforts will be needed to reverse these trends within the units. In contrast, several ARD units have significantly increased their research inputs and outputs during the past few years. The faculty in these units are to be congratulated for their continuing success.

## First Annual Progress Report ARD 5-Year Plan of Work

The Agricultural Research, Extension, and Education Reform Act of 1998 (AREEA) specified that each State Agricultural Experiment Station and Cooperative Extension Service submit to USDA a 5-year Plan of Work with annual accomplishment reporting and plan updates. These Plans of Work (POWs) provide additional accountability, which Congress had been seeking, as well as provide input for future Government Performance and Results Act (GPRA) reports which USDA and other federal agencies must prepare and submit. The POW requirement was described in detail in the April, 1999 issue of ARD News. The ARD 5-Year POW was submitted along with the Cooperative Extension Division POW to USDA Cooperative State Research, Extension and Education Service (CSREES) in the summer of 1999. The POWs were prepared using information assembled from the IANR Strategic Plan and from Unit Action Plans associated with that. ARD and CED POWs were reviewed and approved by CSREES.

The first annual progress report for the POWs was required to be submitted to CSREES by March 1, 2001. ARD and CED again submitted a joint progress report. Resources committed and impacts were reported under each of the five USDA research, extension and education goals, which are:

1. To achieve an agricultural production system that is highly competitive in the global economy.
2. A safe, secure food and fiber system.
3. A healthy, well-nourished population.
4. An agricultural system that protects natural resources and the environment.
5. Enhanced economic opportunity and quality of life for Americans.

The POW and the annual reports also have requirements that include performance goals, outcome indicators, key program components, internal and external linkages, and target audiences. In addition to the five USDA goals, the annual reports needed to relate to key themes that have been developed by CSREES. Another major requirement of the POW and the Annual Report is documentation of multi-institutional, multi-disciplin-

ary, multi-state and integrated activities (i.e. ARD/CED integrated programs). The expectation for these reports is not only that they accurately communicate the allocation of resources, but more importantly that they clearly communicate program impacts.

The ARD impact reports, included in the first annual report, relied heavily on items from *Research Nebraska, Endeavors*, and the Nebraska components of the Land-Grant/USDA Image Enhancement Project national database. This database is a coordinated national effort for impact writing, which has been under way for several years. CIT staff are involved in this writing project, getting input from faculty in the same way that input is obtained for preparing the news items featured in *Research Nebraska, Endeavors*, and the ARD Annual Report.

ARD's intent is to provide an accurate and useful document that will help USDA communicate internally and to Congress and other agencies of government that federal and state funds are being used effectively to address high priority problems. We also want to communicate clearly how federal funds leverage significant state and private support for research. Consistent with the ARD philosophy, we will try to keep bureaucracy associated with preparing the annual report at a minimum, especially to units and to individual faculty. Well-written impact statements from faculty ARFAs will continue to be important to help us identify and submit relevant information to USDA.

## Grant and Contract Income Obtained by ARD Units During the Last Four Calendar Years

Presented below is a table listing the grant and contract income obtained by ARD units during the last four calendar years, expressed on a \$/research FTE/year basis. Also listed are the averages for each unit for the four-year period. Grants obtained by interdisciplinary centers and the ARD Office are not listed. Therefore, the listing is not a complete representation of all of the grant and contact funds available to faculty in a given unit since some faculty obtain significant research funding from team efforts coordinated by centers. Units not listed are either service-oriented or do not have a research mission.

UNIT	1997	1998	1999	2000	Average 1997- 2000
Agricultural Economics	2,639	24,409	24,511	19,958	17,879
Ag Leadership, Ed & Comm**	—	-0-	-0-	-0-	-0-
Agronomy	63,403	142,844	104,545	148,444	114,809
Animal Science	79,949	58,342	61,589	146,076	86,489
Biochemistry	226,515	414,194	344,416	215,232	300,089
Biological Systems					
Engineering	54,266	22,902	41,638	91,986	52,698
Biometry	-0-	14,970	36,569	12,539	16,020
Entomology	147,483	134,446	125,557	100,837	127,081
Family & Consumer Sciences	-0-	-0-	602	-0-	151
Food Science & Technology	362,253	495,135	355,539	556,265	442,298
Horticulture	63,841	101,157	78,760	53,576	74,334
Northeast R&E Center	80,861	243,917	45,018	48,272	104,517

Nutritional Science & Dietetics	7,722	1,003	9,766	8,127	6,655
Panhandle R&E Center	97,986	103,847	134,992	119,762	114,147
Plant Pathology	86,465	124,770	126,765	192,602	132,651
School of Natural Resource Sci**	—	218,217	266,917	295,943	260,359
South Central R&E Center	85,862	115,893	67,085	73,734	85,643
Textiles, Clothing & Design	18,174	-0-	-0-	1,288	4,866
Veterinary & Biomedical Sciences	173,260	221,454	161,627	274,453	207,699
West Central R&E Center	37,342	44,914	37,583	21,568	35,352
AVERAGE	109,461	124,121	106,232	119,033	114,712

\* Grants obtained by interdisciplinary centers and the ARD Dean's office are not listed. These funds are largely expended by faculty in academic units. Therefore, the listing is not a completely accurate representation of all external funds available for faculty use.

\*\* Included in listing for the first time in CY 1998.

The overall average grant and contract income obtained by units increased by about 12% in 2000 compared with 1999. However, the 2000 level was lower than in 1998 when the average was in excess of \$124,000 per research FTE. Units having exemplary success with grants in 2000 include Agronomy, Animal Science, Biochemistry, Food Science and Technology, Plant Pathology, School of Natural Resource Sciences, and Veterinary and Biomedical Sciences.

## ARD Interdisciplinary Research Grants Program

Eighteen proposals were submitted to the ARD Interdisciplinary Research Grants Program and four proposals were selected for 2001-2002 funding. We were, however, able to fund three continuation projects. New ARD Interdisciplinary Research Grants were awarded as follows:

**Dennis Brink, Larry Matulka, Clayton Kelling, Sri Srikumaran (Animal Science and Veterinary and Biomedical Sciences)**

*"Effect of Virus Infection on Cellular Glutathione Concentration"*

Total Funded: \$20,000  
Funding Period: July 1, 2001 — June 30, 2002

**Tim Arkebauer, David Gosselin, David Wedin (Biological Systems Engineering, Conservation and Survey, SNRS)**

*"Evapotranspiration: Linking Ground Water Hydrology with Local Climate in the Nebraska Sand Hills"*

Total Funded: \$20,000  
Funding Period: July 1, 2001 — June 30, 2002

**Gary Hein, Roy French, Steven Hu, Linda Young (PREC, Plant Pathology/USDA, SNRS, Biometry)**

*"Wheat Curl Mite Movement and Wheat Streak Mosaic Virus Spread from Volunteer"*

Total Funded: \$15,050  
Funding Period: July 1, 2001 — June 30, 2002

**William Zanner, Rhae Drijber, David Wedin, Xiaoping Ding, Scott Josiah (SNRS, Agronomy-Horticulture)**

*"Long-term Forest Establishment on Prairie Soils: Effects on Soil Microbiological, Mineralogical, Physical, and Chemical Properties"*

Total Funded: \$20,000  
Funding Period: July 1, 2001 — June 30, 2002

The following continuing projects have been evaluated and will continue for 2001-2002:

**Blair Siegfried, Lance Meinke, David Gosselin, Ed Harvey, Tom Hunt (Entomology, SNRS, NEREC)**  
*"Using Trace Elements for Labeling Corn Tissue and Insect Pests for Mark-Recapture Experiments"*

Total Funded: \$20,060  
Funding Period: July 1, 2001 — June 30, 2002

**Dean Eisenhauer, Michael Dosskey, Tom Franti, David Marx (Biological Systems Engineering and Biometry)**

*"Development and Testing of Field Techniques for Estimating the Effectiveness of Vegetative Buffer Strips"*

Total Funded: \$20,000  
Funding Period: July 1, 2001 — June 30, 2002

**Steve Ragsdale, James Takacs, Jess Miner (Biochemistry, Chemistry, Animal Science)**

*"Inhibition of Methane Synthesis in Ruminants"*

Total Funded: \$20,100  
Funding Period: July 1, 2001 — June 30, 2002

## Sampson Range and Pasture Management Endowments

Four proposals were submitted to the ARD Sampson Range and Pasture Management Endowment and three are being funded for 2001-2002. This endowment was established in the University of Nebraska Foundation by the widow of Arthur William Sampson to support range and pasture management programs at the University of Nebraska. Sampson proposals were awarded to the following:

**Bruce Anderson, Agronomy/Horticulture Department**  
*"Grazing Corn to Increase Profits and Harvest Options"*

Total Funded: \$9,571  
Funding Period: May 1, 2001 — April 30, 2002

**Lowell Moser, Agronomy/Horticulture Department**  
*"Establishing and Grazing Legumes in Cool- and Warm-Season Pastures"*

Total Funded: \$5,800  
Funding Period: May 1, 2001 — April 30, 2002

**Don C. Adams, West Central R&E Center**  
*"Estimating Livestock Forage Demand: Defining the Animal Unit (AU)"*

Total Funded: \$10,000  
Funding Period: May 1, 2001 — April 30, 2002

## Endowments Awarded

### Ralph H. Bainbridge Memorial Fund

A charitable memorial fund was established at the University of Nebraska Foundation by the Ralph H. Bainbridge Estate. These funds are to be used to support interdisciplinary research teams working in the area of beef production and grassland research and development. Three proposals were received and funded:

**Walter Schacht** — Agronomy/Horticulture Department (Jerry Volesky/WCREC; Dennis Bauer/WC District Extension; Robert Masters/Dow-Agro)

*"Yield and Forage Quality of Cool-Season and Warm-Season Plant Communities on Subirrigated Meadows"*

Total Amount Funded: \$3,650

Funding Period: June 1, 2001 — May 31, 2002

**Don Adams** — West Central R&E Center (Rick Rasby/Animal Science; Jerry Volesky/WCREC; Richard Clark/WCREC)

*"Effects of Pre-calving and Post-calving Nutrition in Range Beef Production Systems"*

Total Amount Funded: \$5,000

Funding Period: June 1, 2001 — May 31, 2002

**Charles Shapiro** — Northeast R&E Center (William Kranz/NEREC; Terry Gompert/Extension Educator)

*"Irrigated Pasture/Bazile Triangle Water Protection Area"*

Total Amount Funded: \$5,000

Funding Period: June 1, 2001 — May 31, 2002

### Charles B. and Katherine W. Baker Fund

A trust established at the University of Nebraska Foundation by Charles E. Baker was liquidated and an endowment was established in the University of Nebraska Foundation. Interest from the endowment is used to support one graduate research assistantship (GRA) in the areas of: (i) soil conservation and management, or (ii) breeding and genetics of food and feed grains including germplasm and cultivar development. One proposal was received and funded.

**Thomas G. Franti and David P. Shelton** — Biological Systems Engineering

*"Storm Runoff Simulator to Evaluate Conservation Buffers"*

Total Amount Funded: \$12,000

Funding Period: June 1, 2001 — May 31, 2002

### Helen Porter Van Spronsen Fund

A substantial charitable trust was established at the University of Nebraska Foundation for Helen Porter Van Spronsen by Lucille Porter. The trust specifically requests that funds be used for agricultural and water research or related farm and agricultural study. Funds are for a graduate research assistant (GRA) assigned to an approved ARD project in range and livestock research at the Gudmundsen Sandhills Laboratory. One proposal was received and funded.

**Don C. Adams** — West Central R&E Center (Terry Klopfenstein/Animal Science; Richard Clark/WCREC; Andrea Cupp/Animal Science)  
*"Improving Reproductive Efficiency and Profitability of June Calving Cows"*

Total Amount Funded: \$10,000

Funding Period: June 1, 2001 — May 31, 2002

### Arch and Frances Jorgensen Fund

A substantial charitable trust was established at the University of Nebraska Foundation through the estate of Arch and Frances Jorgensen. The funds were designated to be used in the following manner: (i) research initiation funds for new research addressing agricultural research priorities in the Sandhills, and (ii) graduate student fellowship supplement for students conducting research on crop production on sandy soils, range management and ecology of beef/range systems. The funding of \$2,300 will be used to partially support a GRA for a student conducting thesis or dissertation research at the Gudmundsen Sandhills Laboratory. The partial support will stay with the student until completing the graduate degree, providing that the student maintains appropriate progress toward the degree. One proposal was received and funded.

**Don C. Adams** — West Central R&E Center (Terry Klopfenstein/Animal Science; Richard Clark/WCREC; Andrea Cupp/Animal Science)

*"Improving Reproductive Efficiency and Profitability of June Calving Cows"*

Total Amount Funded: \$2,300

Funding Period: June 1, 2001 — May 31, 2002

## Layman Awards

IANR faculty submitted 14 proposals for funding by the Layman Trust. A subcommittee of the ARD Advisory Council carefully evaluated each proposal and ranked the submissions in relation to quality of science and the potential impact of the proposed research. All proposals were forwarded to the Vice Chancellor for Research.

The primary aim of the Layman Awards is to provide seed money to enhance the possibility of obtaining external support for the research project. Only untenured faculty or tenured faculty who have not yet received an external grant are eligible for the program.

Nine of the fourteen proposals submitted by ARD faculty were funded:

**Brett White**, Animal Science Department

*"Transcriptional Regulation of the Porcine Gonadotropin-releasing Hormone (GnRH) Receptor Gene"*

Total Amount Received \$7,500

Funding Period: May 1, 2001 — April 30, 2002

**Andrea Cupp**, Animal Science Department

*"Spermatogonial Stem Cell Transplantation in the Pig"*

Total Amount Received \$7,500

Funding Period: May 1, 2001 — April 30, 2002

**C. William Zanner**, School of Natural Resource Sciences  
*"Rainwater Basins: Subsurface Control of Surface Relief and Its Influence in Ephemeral Wetlands in Nebraska"*

Total Amount Received \$7,250  
Funding Period: May 1, 2001 — April 30, 2002

**Qi Steven Hu**, School of Natural Resource Sciences  
*"Dynamical Diagnosis of Multi-decadal Variability in Global Climate Models"*

Total Amount Received \$7,494  
Funding Period: May 1, 2001 — April 30, 2002

**Loren Giesler**, Plant Pathology Department  
*"Studies on Strain Diversity of Bean Pod Mottle Virus in Nebraska Soybean Production Regions"*

Total Amount Received \$7,500  
Funding Period: May 1, 2001 — April 30, 2002

**Viacheslav Adamchuk**, Biological Systems Engineering  
*"Automated Mapping of Residual Soil Nitrates"*

Total Amount Received \$7,500  
Funding Period: May 1, 2001 — April 30, 2002

**Jose Payero**, Biological Systems Engineering  
*"Nitrogen and Irrigation Best Management Practices for Subsurface Drip Irrigation"*

Total Amount Received \$7,494  
Funding Period: May 1, 2001 — April 30, 2002

**Tiffany Heng-Moss**, Entomology Department  
*"Characterization of Photosynthetic Responses in Agronomic Crops and Turfgrasses Challenged by Chinch Bugs"*

Total Amount Received \$7,300  
Funding Period: May 1, 2001 — April 30, 2002

**Thomas Hunt**, Entomology Department  
*"Bean Leaf Beetle Overwintering Habitat Selection and Survival in the West-Central U.S. Soybean Production Region"*

Total Amount Received \$7,500  
Funding Period: May 1, 2001 — April 30, 2002

## Anna Elliott Proposals

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Sixteen proposals were received for the Anna H. Elliott fund. This foundation fund was established in the University of Nebraska Foundation with the stipulation that earnings be used for research in some area of agriculture, particularly in the field of plant sciences, and with preference to plant science in Western Nebraska. Eleven proposals were funded:

**Ken Russell**, Agronomy/Horticulture Department (David Baltensperger/PREC; Robert Klein/WCREC; Lenis Nelson/Agronomy-Horticulture)  
*"A Unique Corn Production System for Western Nebraska"*

Total Amount Received \$8,500  
Funding Period: May 1, 2001 — April 30, 2002

**Paul Read**, Agronomy/Horticulture Department (James Schild/County Extension Educator; John Watkins/Plant Pathology)  
*"Evaluating the Potential for Reduced-input Grape Production in Western Nebraska"*

Total Amount Received \$17,175  
Funding Period: May 1, 2001 — April 30, 2002

**Walter H. Schacht**, Agronomy/Horticulture Department (Patrick Reece/PREC-Agron/Hort; Don Adams/WCREC-Animal Science)

*"Vigor and Yield Response of Sandhills Vegetation to Five Years of Dormant-Season Grazing"*

Total Amount Received \$15,000  
Funding Period: May 1, 2001 — April 30, 2002

**Robert Wilson**, Panhandle R&E Center (Robert Shearman/Agron-Hort; David Baltensperger/PREC)

*"Weed Control in New Seedlings of Kentucky Bluegrass and Tall Fescue Planted in Wheat Stubble for Seed Production"*

Total Amount Received \$13,650  
Funding Period: May 1, 2001 — April 30, 2002

**Jurg Blumenthal**, Panhandle R&E Center (James S. Schepers/USDA-ARS; David Baltensperger/PREC)

*"Assessment of In-Season Nitrogen Demand of Winter Wheat and Sugarbeet"*

Total Amount Received \$13,000  
Funding Period: May 1, 2001 — April 30, 2002

**C. Dean Yonts**, Panhandle R&E Center  
*"Sugarbeet Emergence as Influenced by Sprinkler Irrigation and Polyacrylamide"*

Total Amount Received \$3,350  
Funding Period: May 1, 2001 — April 30, 2002

**C. Dean Yonts**, Panhandle R&E Center (Robert Harveson/PREC)  
*"Late Season Irrigation Management — Influence on Date of Maturity, Quality and Yield of Dry Edible Beans"*

Total Amount Received \$5,750  
Funding Period: May 1, 2001 — April 30, 2002

**Drew Lyon**, Panhandle R&E Center (Tim Arkebauer/Agron-Hort; David Baltensperger/PREC)

*"Annual Forages to Replace Summer Fallow"*

Total Amount Received \$15,000  
Funding Period: May 1, 2001 — April 30, 2002

**Robert Harveson**, Panhandle R&E Center (John A. Smith/PREC)  
*"An Integrated Approach to Reducing Root Disease Problems in Dry-Edible Beans"*

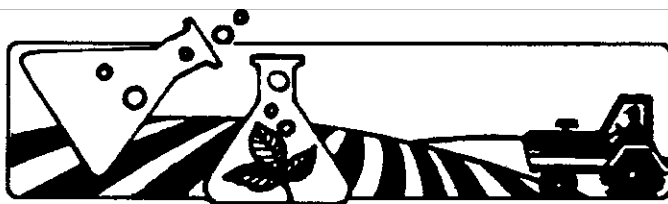
Total Amount Received \$10,000  
Funding Period: May 1, 2001 — April 30, 2002

**John A. Smith**, Panhandle R&E Center  
*"Influence of Growing Conditions on Dry Edible Bean Seed Quality (Ability to resist mechanical damage to seedcoat)"*

Total Amount Received \$6,500  
Funding Period: May 1, 2001 — April 30, 2002

**Gary L. Hein**, Panhandle R&E Center  
*"Development of Techniques to Determine the Capability of Corn Varieties to Act as a Wheat Streak Mosaic or High Plains Virus Host"*

Total Amount Received \$10,610  
Funding Period: May 1, 2001 — April 30, 2002



## Grants and Contracts Received April and May, 2001

<b>Agricultural Economics</b>	
Giannakas, Konstantinos — USDA/ERS	20,000
Miscellaneous Grants under \$10,000 each	14,360
<b>Agronomy</b>	
Miscellaneous Grants under \$10,000 each	15,500
<b>Animal Science</b>	
Weber, John — Baylor College of Medicine	16,312
Miscellaneous Grants under \$10,000 each	20,974
<b>Biological Systems Engineering</b>	
Miscellaneous Grants under \$10,000 each	9,250
<b>Biochemistry</b>	
Spreitzer, Robert — U.S. Department of Energy	96,000
<b>Biometry</b>	
Miscellaneous Grants under \$10,000 each	500
<b>Center for Rural Community Revitalization and Development</b>	
Cordes, Sam M., Allen, John C., and Lynne, Gary D. — USDA/CSREES	49,000
<b>Entomology</b>	
Miscellaneous Grants under \$10,000 each	15,500
<b>Food Science and Technology</b>	
Miscellaneous grants under \$10,000 each	132,587
<b>Horticulture</b>	
Miscellaneous grants under \$10,000 each	17,900
<b>Northeast Research and Extension Center</b>	
Miscellaneous Grants under \$10,000 each	21,500
<b>Nutritional Science and Dietetics</b>	
Albrecht, Julie and Brashears, Mindy — Uni. of California-Davis	13,580
<b>Panhandle Research and Extension Center</b>	
Miscellaneous Grants under \$10,000 each	91,430
<b>Plant Pathology</b>	
Miscellaneous Grants under \$10,000 each	6,000
<b>School of Natural Resource Sciences</b>	
Holz, John, Merchant, James, Gitelson, Anatoly, Fritz, Sherilyn, Hoagland, Kyle, Bogardi, Istvan, and Rundquist, Donald — U.S. EPA	1,224,706
Hu, "Qi" Steve — State of Missouri	6,580
<b>South Central Research and Extension Center</b>	
Miscellaneous Grants under \$10,000 each	2,000
<b>Textiles, Clothing and Design</b>	
Scheyer, Lois — USDA/CSREES	101,000
<b>Veterinary and Biomedical Sciences</b>	
Donis, Ruben — Yale University	114,552
Miscellaneous Grants under \$10,000 each	7,178
<b>West Central Research and Extension Center</b>	
Miscellaneous Grants under \$10,000 each	10,656
<b>Grand Total</b>	<b>\$2,037,410</b>

## Proposals Submitted for Federal Grants

The following is a listing of proposals that were submitted after April 2001 by faculty for federal grant programs. While not all grants will be funded, we are appreciative of the faculty members' outstanding efforts in submitting proposals to the various agencies.

Martin B. Dickman — NSF — *Colletotrichum trifolii*  
Ras — \$379,383

Jeffrey D. Cirillo — NIH — Role of Invasion Genes  
in Virulence of Legionella — \$479,759

Clinton Jones, Fernando Osorio and Alan Doster-  
NIH — HSV-1 LAT Promotes Reactivation and Cell  
Survival — \$1,631,250

Amit Mitra — USDA/ARS — Broad-Spectrum Virus  
Resistance in Transgenic Cereal Crops — \$45,000

Ruma Banerjee — NIH — Gene-Nutrient Interac-  
tions in Redox Homeostasis- \$138,790

W. Ken Russell — USDA/ARS — Genetic Varia-  
tion in Concentration of Total Phosphorus in Grain of  
Corn Breeding Crosses — \$5,000

James E. Specht — USDA/ARS — Positioning of  
Classical Soybean Genes on the Genome Map of Soy-  
bean — \$35,000

Robert M. Caldwell — USDA/ARS — Manure  
and Nutrient Management Practices to Protect Human  
Health and the Environment — \$140,200

Raul G. Barletta and Jeff Cirillo — NIH — Detection  
of *M. paratuberculosis* Infection in Humans — \$1,450,000

## New or Revised Projects

The following station projects were approved  
recently by the USDA Current Research Information  
System:

**NEB-12-282 (Agronomy) Grazingland Response to  
Seasonal Grazing Strategies**

*Investigator:* W.H. Schacht

*Status:* New Hatch project effective January 1, 2001

**NEB-16-086 (Food Science and Technology) Genetics  
and Physiology of Lactic Acid Bacteria**

*Investigator:* Robert W. Hutkins

*Status:* New Hatch project effective May 1, 2000

**NEB-17-077 (Entomology) Development of Pest  
Management Strategies for Forage Alfalfa Persistence**

*Investigator:* Leon G. Higley

*Status:* New Hatch project that contributes to Regional  
Research project NC-226 effective October 1, 1999

**NEB-40-012 (School of Natural Resource Sciences)  
Impact of Climate and Soils on Crop Selection  
Management**

*Investigator:* K.G. Hubbard

*Status:* New Hatch project that contributes to Regional  
Research project NC-94

**NEB-42-026 (Northeast Research and Extension  
Center) Developing Economic Thresholds for Insect  
Pests of Conventional and Value-Added Crops in  
Northeast Nebraska**

*Investigator:* Thomas E. Hunt

*Status:* New Hatch project effective July 1, 2000

**NEB-92-036 (Family and Consumer Sciences)  
Outcomes in the Collaborative Management Of  
Mental Health Treatment Within a Primary Care  
Medical Setting**

*Investigator:* R. J. Bischoff

*Status:* New Hatch project effective June 1, 2000

## Diane says

Correct your own mistakes by  
avoiding those of others.