

*The Morrill Act of 1862 established a Land Grant University
in each state where The Leading Object
would be instruction in agriculture and related fields*



NMSU's College of Agriculture and Home Economics

Vol. 15, No. 2, February 2001

Extension to receive \$1 million for 4-H at-risk program

Extension will receive \$1 million in federal funding for 4-H outreach to at-risk youth and strengthening 4-H clubs in New Mexico.

U.S. Justice Department funding approved Feb. 1 includes about \$750,000 for at-risk youth programs and nearly \$300,000 for 4-H youth development program support.

The money will be used to hire six new 4-H agents in three-year, nontenure-track positions, said Jesse Holloway, 4-H department head. The program will target areas with at-risk youth populations and understaffed Extension offices, he said.

"The new 4-H agents will spend three-quarters of their time in outreach to youth at-risk, to establish new clubs with those groups," he said. "The other quarter of the agents' time will be spent in working with the 4-H programs already in place."

Six counties will be selected for new staff based on proposals submitted to district Extension directors. Identified counties received

proposal information, which is due in mid-February. The new agents are expected to begin work in the fall, Holloway said.

The 4-H funding stems from a very supportive congressional delegation, Holloway said.

"This fits very well with one of the major goals we're emphasizing, which is strengthening our 4-H club programs," he said. "Adding six new agents to work with new audiences and in areas where we're not represented should certainly strengthen our overall 4-H program."

Currently, 50,200 youth in New Mexico participate in 4-H. About 7,600 are enrolled in traditional 4-H clubs, and the rest take part in school enrichment or special-interest programs, Holloway said.

"This funding will provide additional 4-H opportunities for youth from various communities and settings to experience hands-on learning," said Linda Schultz, state 4-H specialist. "Any time we can

help youth succeed and gain skills in the process, we all win as a society."

The new funding complements two other major efforts underway in the state: 4-H Share/Care and Rio Arriba County's Clover Club project.

4-H Share/Care offers substance abuse prevention education and positive activities for young people in after-school and summer programs. A total of 2,773 children participated in the federal and state-supported program in 12 counties from 1999 to 2000. Participants come from inner city Albuquerque and rural settings, including two pueblos.

Rio Arriba County's program, financed by a \$750,000 grant from the Justice Department, offers a combination of 4-H activities and drug prevention education in elementary and middle schools in the county. Through 4-H Clover Clubs, young people in the community find ways to fill up their leisure time with fun, educational, after-school activities instead of drugs. ❖

The Dean's Perspective

I recently came across a column in a professional magazine that captured much of my philosophy as an administrator. It was written by Robert Jensen, chancellor of Pima Community Colleges in Tucson.

He said some things that ring true. Administration is all about people, he said. It's about how you work with, listen to and treat people. We need to remember that

processes and bureaucracy exist to facilitate our missions, not impede them. Even though education is central, administrators have to be astute in the fiscal and political realms if they wish to facilitate education.

Sometimes in order to lead and do what is right, Jensen pointed out that an administrator needs to take the path of most resistance. As

an administrator, you own all the problems that take place within your purview and you will take hits.

I have and I will; but it comes with the territory.

I pledge to keep my eye on our missions; to listen; and from time to time, be willing to take the path of most resistance to do what is right.

Fernald new specialist

Alexander "Sam" Fernald recently began work as an Extension natural resources specialist in Alcalde, where he will serve northern New Mexico out of the Rural Agricultural Improvement and Public Affairs Project.

He will provide research and outreach, primarily in watershed management, as well as rangeland ecology, wildlife and forestry. Working with the Small Farm Task Force, Fernald said he will address problems such as water quantity and quality issues related to agricultural practices.

Fernald spent the past three years as a National Research Council postdoctoral associate with the U.S. Environmental Protection Agency in Oregon.

He earned a bachelor's degree from Stanford, a master's degree in environmental management from Duke and a doctorate from Colorado State in watershed science in 1997.

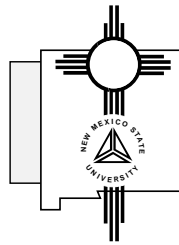
Fluent in Spanish, Fernald studied in Chile as a Fulbright Scholar, conducted honors undergraduate research in Argentina and worked in Costa Rica, Peru, and Nicaragua. He was a technical coordinator with the Pan American Health Organization from 1993 to 1995.

Fernald, a member of Extension's new Water Task Force, said he would like to work with landowners and resource managers in the subbasin of the Rio Grande to establish a scientific database on land use effects on water quality.

"I think good stewards of the land will be happy to be involved," he said.

Fernald said he is concerned about data from other states being used to make decisions on water issues, and he hopes locally conducted research can contribute to a more informed debate. He hopes research can overcome reliance on inappropriate formulas that drive regulatory decisions.

Fernald's research as a graduate student and postdoctoral associate addressed grazing effects on water quality and the effect of surface water/groundwater exchange on water attributes.



Road to Santa Fe

Several initiatives involving the College of Agriculture and Home Economics are moving briskly through the Legislature. Companion bills in the House and Senate that would appropriate \$1.54 million for water-related research and conservation were introduced.

Rep. Joe Stell (D-Carlsbad) introduced HB 201, which passed the House Agriculture and Water Resources Committee. Sen. Sue Wilson (R-Albuquerque) introduced SB 79, which passed the Senate Conservation Committee.

The bills would appropriate \$300,640 to Extension; \$138,160 to the Experiment Station; \$500,000 to the New Mexico Soil and Water Conservation Districts; and \$600,000 to the Water Resources Research Institute.

Companion bills to establish Extension and Experiment Station programs in Hotel, Restaurant and Tourism Management were introduced. SB 121, introduced by Sen. Roman Maes III (D-Santa Fe), passed the Senate Corporations and Transportation Committee. HB 273 was introduced by Rep. Rhonda King (D-Stanley). The bills

would appropriate \$380,078 to expand HRTM.

Companion bills to evenly split \$241,700 in new funding to Extension and the Experiment Station for chile work are in the Senate Corporations and Transportation and House Appropriation and Finance committees. Sen. John Arthur Smith (D-Deming) and Rep. William Boykin (R-Las Cruces) introduced SB 11 and HB 140, respectively.

A bill to establish a state climatologist at NMSU was introduced by Rep. Delores Wright (D-Chaparral) before her death. Rep. Andy Nuñez and other colleagues have committed to seeing her legislation through to passage. HB 54 would appropriate \$350,000 to establish a state climatologist. It is tabled in the House Appropriation and Finance Committee.

The Senate confirmed Antonia Roybal, a student in the college, as NMSU's student regent on Feb. 7.

Extension Day at the Legislature will be Feb. 23 from 8 to 11 a.m. in the capitol rotunda. College ambassadors will travel to Santa Fe to meet with state legislators during the day. ❖

NMSU dairy judging team eighth

NMSU's new dairy judging team placed first in the Guernsey class and eighth overall at the Fort Worth Stock Show on Jan. 25.

The judging team, formed just a few weeks before the competition, is the first NMSU has fielded in more than 40 years. Brandon Covey, graduate student in Animal and Range Sciences, coaches the team. Extension Dairy Specialist Mike Looper is the faculty adviser.

The team's travel is sponsored by Southwest Dairy Museum, also a

partner with Extension on the Kids, Cows and More project, a program designed to teach urban children about agriculture.

Team members competing in Fort Worth were Kelly Dobbs, Lauren Romig, Janelle Duffey and Steven Langley. Other team members are Azori Dodd, Valerie Rivas, T.J. Harrison and John Fury.

For more information on the judging classes or the team, call Looper at 646-3019. ❖

In-service training to feature distance education

Extension in-service March 6-9 in Las Cruces will feature training via distance education and specialized sessions for agriculture, home economics and 4-H faculty.

Training will be offered using horizonlive.com for the opening sessions on Tuesday, March 6 at the Zuhl and Branson libraries on campus, said Jaime Castillo, staff development specialist. Sessions will be on basic computer skills, NMSU Internet resources, new equipment, promotion and tenure, and retirement planning for early, mid- and late career faculty. The 4-H curriculum committee also will meet on Tuesday at 7 p.m.

4-H training on Wednesday, March 7 will cover new enrollment systems, valuing volunteers, building leaders and youth training opportunities. Afternoon sessions will offer updates on curriculum, the upcoming 4-H centennial, policy and procedures and district contest planning. The 4-H in-service planning committee will meet at 6:30 p.m. The State 4-H Conference Committee will meet at 8 p.m.

Home economics training on Thursday, March 8 will include sessions on nutrition and food safety, Alzheimer's disease, kids' anger management, family resource management and World Wide Web resources for home economics. A 5:30 to 6:30 p.m. ses-

sion sponsored by the New Mexico Extension Association of Family and Consumer Sciences will cover the unspoken considerations of receiving grant funding.

Agricultural training on March 8 begins with a 6:30 breakfast sponsored by the Plant Sciences Association. Morning training sessions will cover range monitoring, evaluating ranch cattle using body condition scores, and buying and selling hay with new approaches. Afternoon training will be on poisonous range plant identification, water rights adjudication, and turf grass and water usage.

Home economics training on Friday, March 9 will cover managing employees, and project updates on water, folate, diabetes, and children youth and families at risk. Training will conclude with a home economists trade fair and specialists fair from 10 a.m. to noon.

Agricultural training beginning at 8 a.m. March 9 will have presentations on pesticide updates, pesticide application training, pesticide registration, drip irrigation, regulatory updates from New Mexico Department of Agriculture and new household and agricultural bugs and weeds.

Friday also will feature a 7 a.m. general training for General Services Administration vehicle use.

Wright retires

Susan Wright, senior Extension home economics specialist, retired Jan. 31st after 26 years at NMSU.

During her career, she has served as specialist in four subject areas: clothing and textiles, solid waste management, domestic water quality and consumer education.

Wright served on many college and Extension committees and was a two-term faculty senator representing Extension. She was chair of NMSU's Faculty Performance Evaluation Committee for two terms. From January 1998 to August 1999, she served as acting department head for Extension Home Economics.

She held numerous positions on the New Mexico Home Economics Association, including president, vice president and national delegate. Wright received the National Association of Extension 4-H Agents Service Award in 1984. She was named outstanding young career woman of New Mexico and was a member of a number of professional and honor organizations.

In 1977, Wright received the Distinguished Extension Award from the College of Agriculture and Home Economics. In 1993, she was named Home Economist of the Year by the New Mexico Home Economics Association.

Wright earned a bachelor's degree in home economics from Texas Woman's University in 1964. She received a master's degree in home economics from NMSU in 1969 and a doctorate in home economics education from Texas Tech in 1983.

"As the chair of Susan's doctoral committee at Texas Tech, I have been extremely proud of Susan over the years," said Marilyn Cummings, professor in Family and Consumer sciences. "For me, she has been a friend, mentor and a key leader in family and consumer sciences profession."



Deans' Coffee
Time

Wednesdays, 8:30-9:15 a.m. GTH Foyer

In Memoriam

Wilmer Harper, professor in Agricultural Economics and Agricultural Business, died Jan. 14. He was 67.

Harper began work at NMSU in 1977. He taught classes, advised graduate students and served as a faculty senator. In addition to his regular committee assignments, he represented the Senate with the University Budget Committee and the President's Associates. Harper was recognized by NMSU's Faculty Senate in a memorial.

"Wilmer was one of the guys who was always there when you needed him," said John Waelti, head of Agricultural Economics and Agricultural Business. "You could always depend on him to get the job done well."

Harper was involved in many agricultural development projects that took him to Egypt, Yemen, Sierra Leone, Honduras, Bolivia and Paraguay.

Harper and his family owned and operated Del Valle Pecans, a local

company that marketed and produced organic pecans.

He earned his bachelor's degree at Duke University in 1965. Harper then joined the Peace Corps and served for two years in Ecuador. After returning to the United States, he earned a master's degree from Montana State University. He then served two years in the U.S. Army. He earned a doctorate from Oklahoma State University in 1977.

Harper is survived by his wife, Sally, and their three children.

Spring honors night receptions scheduled

Spring receptions for prospective NMSU students are scheduled around the state. Staff from the College of Agriculture and Home Economics' Academic Programs Office will be on hand. College field staff are invited to attend and encourage student participation. All receptions are scheduled to begin at 7 p.m.

Deming

Tuesday, Feb. 20,
Knights of Columbus Hall

Las Cruces

Wednesday, Feb. 21,
Corbett Center Ballrooms

Alamogordo

Monday, Feb. 26,
Tays Special Events Center

Socorro

Tuesday, Feb. 27,
Socorro High School Cafeteria

Carlsbad

Monday, March 5,
NMSU Carlsbad Branch
All-Purpose Room (Gym)

Hobbs

Tuesday, March 6,
Hobbs Country Club

Artesia

Wednesday, March 7,
Artesia High School
Multipurpose Room

Clovis

Monday, March 12,
Clovis High School Lecture Hall

Roswell

Tuesday, March 13,
Sally Port Inn

Silver City

Thursday, March 15,
Silver High School
Gymnasium

Farmington

Monday, March 19,
Farmington Civic Center

Gallup

Tuesday, March 20,
Civic Center at Red Rock
State Park

Taos

Wednesday, March 21,
Taos High School

Española

Thursday, March 22,
Northern New Mexico
Community College

Tucumcari

Monday, March 26,
Tucumcari High School
Cafeteria

El Paso

Wednesday, March 28,
Airport Hilton
Thursday, March 29,
Airport Hilton

Albuquerque

Monday, April 2,
Albuquerque Convention
Center

Tuesday, April 3,
Albuquerque Convention
Center

Las Vegas

Wednesday, April 4,
TBA

Raton

Monday, April 9,
Raton High School Cafeteria

Clayton

Tuesday, April 10,
Clayton High School

Santa Fe

Tuesday, April 24,
Sweeney Auditorium. ❖

**Need to
meet**

**with the
dean?**

meet

No appointments

necessary

**on Fridays,
3-5 p.m.***

*Occasionally the dean is called away, but time is blocked for drop-ins.

Grants

Academic Programs

Lindsey, D.L. and C. Clary, "USDA Hispanic Serving Institutions Liaison," \$35,000, Sep 2000, U.S. Department of Agriculture—Cooperative State Research, Education and Extension Service.

Agricultural Communications

- Gleason, B.J., "Sanitary and Phytosanitary Measures Multimedia," \$10,000, Apr 2000, USDA—Foreign Agriculture Service—International Cooperation and Development.
- Gleason, B.J., "Prescribed Fire Campaign," \$18,600, Mar 2000, Black Range Resource Conservation and Development Inc.
- Gleason, B.J., "Agreement with District Attorney's Office, 3rd Judicial Court," \$7,000, May 2000, 3rd Judicial District Attorney's Office.
- Gleason, B.J., "Video Documentary on K-12 Educational Technology," \$19,500, Jun 2000, State of New Mexico—Department of Education.
- Gleason, B.J., "Dietary Acculturation CD-ROM Program," \$30,000, Jun 2000, Department of Health and Human Services—Administration for Children and Family through Colorado State University.
- Gleason, B.J., "Cyfernet Technology," \$10,714, Aug 2000, University of Minnesota Extension Service.
- Gleason, B.J., "Spanish Fight BAC Internet and DVD Training for Home-Based Child Care Providers," \$529,528, Sep 2000, USDA—CSREES.
- Holian, P., "In Search of Bounty: Agriculture through the Ages in a Public Television Series and an Educational, New-Media Package Developed for Nationwide Distribution," \$9,000, May 2000, El Paso Energy Foundation.

Agricultural Economics

- Clary C. and B.J. Gleason, "La Biblioteca Electronica Del Hispano: Digital Teaching and Curricular Resources for Hispanic-Serving Institutions," \$149,585, Jul 2000, USDA—CSREES—Hispanic Serving Institutions.
- Falk, C.L., "Establish Texas Longhorn Beef Co-op to Create/Retain Jobs for Small Ranchers and Communities Needing Sustainable Development," \$5,500, Jun 1999, Rural Business-Cooperative Service through Rocky Mountain Farmers Union.

Gorman, W.C., "Changing Structure of the World Food and Fiber Systems," \$31,174, Apr 2000, International Food and Agribusiness Management Association—Department of Agricultural Economics—Texas A&M University.

Libbin, J.D., "Update of Agricultural Land Value Manual," \$7,277, Jun 2000, State of New Mexico—Taxation and Revenue Department.

Agricultural Experiment Station
"Rangeland Ecosystems, New Mexico (Formerly Broom Snakeweed Research)," \$187,000, Jul 2000, USDA—CSREES.

"Southwestern Pecan Research," \$141,352, Aug 2000, USDA—Agricultural Research Service.

"Southwestern Pecan Research," \$247,650, Sep 2000, USDA-ARS.

Phillips, R., "Best Management Practices for New Mexico Chile Pepper Production," \$11,000, Jun 2000, New Mexico Chile Commission.

Agricultural Extension Education
Dormody, T.J., "Agricultural Education Leadership," \$13,577, Jul 2000, State of New Mexico—Department of Education.

Dormody, T.J., "Agricultural Education Leadership," \$7,400, Sep 2000, State of New Mexico—Department of Education.

ASC at Artesia

Flynn, R.P. and A. Ghassemi, "New Mexico Organic Waste Utilization," \$93,550, Jun 2000, USDA—CSREES.

Pierce, J.B., "Impact of Crop Production Practices on Pest Populations in New Mexico," \$13,000, Apr 2000, Cotton Incorporated.

ASC at Clovis

Baker, R.D., "Soil Enhancement/Crops," \$2,500, Jun 2000, Remediation Technology, Inc.

ASC at Farmington

Arnold, R.N., "Pest Control Management," \$1,000, Aug 1999, Zeneca Agriculture Products.

Arnold, R.N., "Pest Control Management," \$1,000, Apr 2000, Monsanto Company.

Arnold, R.N., "Pest Control Management," \$1,000, May 2000, Monsanto Company.

Arnold, R.N., "Pest Control Management," \$1,500, Aug 2000, Novartis.

Smeal, D., "Effect of N Fertilizer Source and Rate on the Yield, Quality, and

Storability of Potatoes," \$3,200, Jan 2000, Hydro Agri North America, Inc.

Smeal, D., "Growth Potential of Chrysanthemum Cinerariae Folium on the Colorado Plateau of Northwestern New Mexico," \$3,000, Apr 2000, MGK Company.

Smeal, D., "Effect of N Fertilizer Source and Rate on the Yield, Quality, and Storability of Potatoes," \$6,400, Mar 2000, Norsk Hydro Americas, Inc.

ASC at Los Lunas

English, L.M., "Los Lunas Plant Materials Center-FY2000," \$90,000, Jul 2000, USDA—Natural Resource Conservation Service.

English, L.M., "Los Lunas Plant Materials Center-FY2001," \$225,000, Sep 2000, USDA—NRCS.

English, L.M., "Los Lunas Plant Materials Center-FY2001," \$10,000, Oct 2000, USDA—NRCS.

Agronomy and Horticulture

Baker, R.D., "Evaluation of Peanut Herbicide," \$3,900, Oct 2000, FMC Corporation.

Bosland, P.W., "Prevention of Soilborne Disease in Irrigated Agriculture," \$118,808, May 2000, USDA—CSREES.

Bristol, A.L. and B.D. McCaslin, "Albuquerque Water Testing," \$25,000, May 2000, City of Albuquerque.

Bristol, A.L., "Analysis of Drinking Water Samples," \$700,000, Oct 2000, State of New Mexico—Environment Department.

Cantrell, R.G., "Research Towards an Integrated Genetic and Physical Map of Cotton," \$65,750, May 2000, Cotton Incorporated.

Cantrell, R.G., "Improved Ginning/Textile Processing Performance Acala 1517 Cotton Through Improved Genetics," \$97,500, Aug 2000, USDA-ARS.

Cramer, C.S., "Development of Improved Onion Varieties in New Mexico," \$35,000, Oct 2000, New Mexico Dry Onion Commission.

Gopalan, C.S., "Engineering Alfalfa for Increased Growth/Protein Content via Increased Glutamine Synthetase Activity," \$43,000, Sep 2000, New Mexico Universities Collaborative Research (NUCOR).

Harrington, J.T., "Revegetation Research at Molycorp Inc.," \$117,000, Mar 2000, Molycorp Inc.

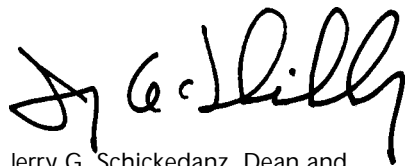
Grants (Cont.)

- Harrington, J.T., "Carbon Inventories and Dynamics in Semiarid Systems: Integrating Advanced Measurement and Modeling," \$28,000, Sep 2000, NUCOR.
- Jones, T. and H.C. Monger, "Factors Controlling Microbiotic Crusts: Negev and New Mexico," \$75,000, Jun 2000, USDA—CSREES through International Arid Lands Consortium.
- Monger, H.C., "LTER IV Jornada Basin: Linkages in Semiarid Landscapes," \$20,000, Oct 2000, National Science Foundation.
- O'Connell, M.A., "2000 Research and Engineering Apprenticeship Program," \$5,000, Mar 2000, U.S. Army Research Office through the Academy of Applied Science.
- O'Connell, M.A. and G. Phillips, "Cataloging Genes Associated with Drought or Disease Resistances in Crop Plants," \$198,794, Apr 2000, USDA—CSREES.
- O'Connell, M.A., "Comparative Analyses of Environmental Effects on Gene Expression Using Microarray Technologies," \$51,800, Oct 2000, NUCOR.
- Picchioni, G.A., "Exploring the Benefits of Methyl Cyclopropene for Vaselife Extension of Cut Bluebonnet Flowers," \$13,126, Aug 2000, Fred C. Gloeckner Foundation Inc.
- Picchioni, G.A., "High Performance Liquid Chromatograph for Study of Wounding and Salinity Stress on Plant Membranes," \$21,191, Oct 2000, UDSA—National Research Initiative Competitive Grants Program.
- Wall, M.M. and P.W. Bosland, "Development of Red Chile and Paprika Cultivars," \$13,000, May 2000, New Mexico Chile Commission.
- Wall, M.M., "Development of Low Pungency Onions for New Mexico," \$11,000, Oct 2000, New Mexico Dry Onion Commission.
- Animal and Range Science**
- Duff, G., "Efficacy of Experimental Live Oral Vaccine Against Pneumonic Pasteurellosis in Shipped Calves," \$10,000, Sep 2000, USDA-ARS.
- Duff, G., "Establishing a Texas Longhorn Beef Cooperative," \$12,315 Jun 1999, Rural Business-Cooperative Service through Rocky Mountain Farmers Union.
- Hallford, D., "Growth Promotants in Cattle," \$4,775, May 2000, Southwest Biolabs.
- Hallford, D., "Growth Promotants in Cattle," \$4,100, May 2000, Southwest Biolabs.
- Rankin, B.J., "American Quarter Horse Association International Horse Clinic," \$9,000, May 2000, American Quarter Horse Association.
- Strickland, J.R., "Support of Continuous Research Excellence," \$125,404, Sep 2000, U.S. National Institutes of Health—Minority Biomedical Research Support.
- Thomas, M.G., "Internationalization of Distance Education Program in Animal Breeding," \$1,000, Dec 1999, Mexico Small Grants Program.
- Thomas, M.G., "Neuromodulation of the Growth Hormone Axis by Appetite-Regulating Factors," \$104,706, Sep 2000, U.S. NIH—MBRS—SCORE.

Grants will be continued in our next issue.

The Leading Object is dedicated to encouraging communication among all areas of NMSU's College of Agriculture and Home Economics.

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