

## Community Services Department - Cultural Service Contracts FY17 Quarterly Report

Check one:

- |                                     |                       |
|-------------------------------------|-----------------------|
| <input checked="" type="checkbox"/> | July–September 2016   |
| <input type="checkbox"/>            | October-December 2016 |
| <input type="checkbox"/>            | January-March 2017    |
| <input type="checkbox"/>            | April-June 2017       |

Contractor: **Los Alamos Cooperative  
Extension Service**

Address: <b>475 20<sup>th</sup> Street, Los Alamos, NM 87544 662-2656</b>
Hours of Operation: <b>8:00 – 4:30, including lunch hour</b>
Name and Title of Person completing this report form: <b>Carlos Valdez, County Program Director</b>

The following services were agreed to in the contract:

1. **Contact Services:** NMSU shall provide the equipment and qualified personnel necessary to complete the following services:
  - A. Provide comprehensive Extension Service Programs to the residents of Los Alamos County. These programs and services will include, but not be limited to, horticulture, landscape water conservation education, integrated pest management, organization of the County Fair indoor and 4-H livestock exhibits, Master Gardener’s Program, home economics, health awareness, food safety and preparation, nutrition and meal planning, and youth development (4-H).
  - B. Disseminate information to the public regarding the activities of the Extension Service by use of the news media and other appropriate means of announcing activities and events.
  - C. Maintain operation of the Cooperative Extension Service Offices with the facility open to the public during hours that will provide for maximum public access within the available funding level. Generally, the Cooperative Extension Service Offices will be open Monday through Friday, 8:00 a.m. to 4:30 p.m., except for County holidays. NMSU shall make decisions regarding hours of operation during inclement weather and shall disseminate that information to the public as quickly as possible using local news media and social media.
  - D. Collaborate with County departments and/or community cultural service providers on the presentation of a minimum of four (4) events, activities, or programs.
  - E. Oversee maintenance of the live horticultural elements at the Los Alamos Demonstration Garden located at the corner of Oppenheimer Drive and Central Avenue.
  - F. Provide opportunities for youth and adult feedback and input into programs, events and activities offered through surveying. Incorporate this information into

the design and implementation of new and existing programs.

**2. Deliverables:** NMSU shall provide:

- A. An annual financial review performed by an independent party with acknowledged financial experience to include, at a minimum, all financial records relating to the term of the Agreement, and furnishing County with a copy of such review as soon as it is available from NMSU each year. A copy of NMSU’s most recent financial audit performed by an accountant or accounting firm may be accepted in lieu of the financial review. This provision shall survive termination of this Agreement.
- B. Written reports covering each three (3) month period of the term of the Agreement beginning July 1, 2016. The reports will include financial information describing NMSU’s use and expenditures of County funding and, at a minimum, summarize information on:
  - 1. The efforts undertaken and results of NMSU’s solicitation of meaningful participant input and/or feedback and a demonstrated willingness to act on this information;
  - 2. The level of participation, reported by age, gender, and residence of the participants in the various programs, events, and other activities associated with the Cooperative Extension Service Office;
  - 3. The number of requests for assistance in both the Horticulture, Home Economics and Youth Development Programs; and
  - 4. The level and results of NMSU’s collaboration and coordination of effort with other community service providers

NMSU shall furnish these reports to County within thirty (30) days after the end of each reporting period.

**Narrative information:**

**Summary information addressing services provided and the requirements in Section 2. B. 1. 2. 3. and 4. above:**

**NOTE: Program Demographics**

New Mexico State University Cooperative Extension Service requires an ethnic and gender demographic breakdown on each educational contact. Additionally, some of our program evaluations ask for birthdates for identification purposes. From this data, ages have been determined. The following is the demographic breakdown key as it appears in brackets within the text:

- Ethnicity: W – White  
 B – Black  
 AI – American Indian  
 H – Hispanic  
 A – Asian
- Gender: M – Male  
 F – Female

Ages listed in decade categories (i.e.: 30’s, 40’s, 50’s, 60’s, 70’s, 80’s, etc.)\*

i.e.: [20(W) 1(B) 1(AI) 5 (H) 3(A); 14(M) 16(F); 5(50’s) 10(60’s) 10(70’s) 5(80’s)]  
 ◀ ---ethnic breakdown---▶ ▶-gender▶ ▶----- age breakdown-----▶

\*Regarding ages of program participants: When birth date data is not available, 4-H and Youth Development Programming will be considered youth. Home Economics and Horticultural programming is considered adult. When audiences are specifically senior aged citizens, that notation will be made.

**No attempt is made to gather age related data on individual clientele contacts.**

4<sup>th</sup> Quarter (April – June 2017):

<p><b>Total Contacts:</b>  <b>Ornamental Horticulture ()</b>                  Water Conservation &amp; Landscapes ()                  Integrated Pest Management ()  <b>Community Development ()</b>                  Master Gardener ()                  Community Health Councils and Other ()  <b>Home Economics ()</b>                  Food and Nutrition ()                  Food Safety and Preservation ()                  Parenting ()  <b>Youth Development ()</b></p>
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3<sup>rd</sup> Quarter (January – March 2017):

<p><b>Total Contacts:</b>  <b>Ornamental Horticulture ()</b>                  Water Conservation &amp; Landscapes ()                  Integrated Pest Management ()  <b>Community Development ()</b>                  Master Gardener ()                  Community Health Councils and Other ()  <b>Home Economics ()</b>                  Food and Nutrition ()                  Food Safety and Preservation ()                  Parenting ()  <b>Youth Development ()</b></p>
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2<sup>nd</sup> Quarter (October – December 2016):

<p><b>Total Contacts:</b>  <b>Ornamental Horticulture ()</b>                  Water Conservation &amp; Landscapes ()                  Integrated Pest Management ()  <b>Community Development ()</b>                  Master Gardener ()                  Community Health Councils and Other ()  <b>Home Economics ()</b>                  Food and Nutrition ()                  Food Safety and Preservation ()                  Parenting ()  <b>Youth Development ()</b></p>
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1<sup>st</sup> Quarter (July – September 2016):

**Total Contacts: 1986**

**Ornamental Horticulture (758)**

Water Conservation & Landscapes (416)

Integrated Pest Management (342)

**Community Development (683)**

Master Gardener (156)

Community Health Councils and Other (58)

County Fair (469)

**Home Economics (425)**

Food and Nutrition (311)

Food Safety and Preservation (54)

Parenting (60)

**Youth Development (120)**

**Urban Horticulture**

*Water Conservation Education*

*Situation:*

Los Alamos County currently relies on existing ground water rights of 5,541 acre-feet /year to supply its customers' water demands and is currently developing an additional 1,200 ac-ft/yr of San Juan Chama Project surface water rights. In August 2006 the Utilities Board and the County Council adopted the D. B. Stephens & Assoc. report thereby implementing recommendation to decrease water consumption by 12% by 2050. Current residential water use represents about 70 percent of water use, not including LANL, and a significant proportion of this is in the landscape. Water consumption especially amongst the residential customer class increased significantly in 2011-2012. The average GPCD (gallons per capita per day) calculation for Los Alamos County for 2012 was 191.60. This calculation includes residential, multi-family, commercial, municipal and education customer classes combined. The national average for 2011 was 150 GPCD. Residential consumption for Los Alamos County was 94 GPCD for 2011 as compared to 59 GPCD for the City of Santa Fe or 92 GPCD for the city of Las Cruces. A comparison with other cities in New Mexico for 2011 shows that Los Alamos County exceeds Santa Fe, Rio Rancho, Albuquerque and Alamogordo. This information demonstrates the need for an aggressive approach to water conservation in Los Alamos County especially among the residential customer class.

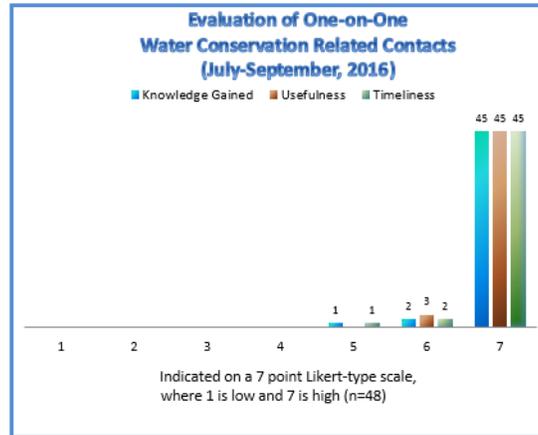
*Activities:*

One-on-one Contacts. The consultancy process performed by the horticulture agent for homeowners basically contains three steps of equal importance. First, the objectives and needs of the homeowner must be revealed; second, the agent provides a number of calculations and evaluations of the considered strategic alternatives; and third, the results of the analyses must be discussed with the homeowner. Performing such consultancy in itself is very time-consuming. The agent made 314 one-on-one contacts specific to water conservation and landscapes during the reporting period including primarily plant selection and proper irrigation techniques, selection and use of mulches and general cultural contacts (includes fertilizing, pruning, etc.) [296(W),3(A),15(H); 188(F),126(M)].

*Evaluation & Results:*

One-on-one Contacts. Continued use of post-contact survey instrument given to approximately every 4th personal contact, within phone call and home visit subsets, measuring perceived gains in knowledge, usefulness of that knowledge and timeliness of the agent in responding. Of the 314 one-on-one contacts the agent made during the reporting period, 61 received the

post-contact evaluation instrument. Forty-eight (n=48) questionnaires were returned to the agent indicating an effective response rate of 78%. Quantitative data collected from clientele were analyzed for frequency, central tendency and variance. Qualitative data were analyzed for frequency.



Of the sample surveyed, forty-eight (n=48), on a seven-point Likert-type scale, where 1 represented little knowledge gained and seven represented much knowledge gained, a higher than neutral response to the question. Of the sample surveyed forty-eight (n=48) indicated, on a seven-point Likert-type scale, where 1 represented knowledge which was not useful and seven represented knowledge that was useful, a higher than neutral response to the question. Of the sample surveyed, forty-eight (n=48) indicated on a seven-point Likert-type scale, where 1 represented an untimely response and seven indicated a timely response, indicated the agent was timely in his response to clientele.

*Urban Integrated Pest Management (Insects, Disease, Wildlife Damage Control and Weeds) Situation:*

While agricultural pest managers have made notable strides in developing reduced risk pest management programs, very few urban counterparts to these programs exist despite a growing awareness of human health and environmental risks associated with urban pesticide use. A wide variety of pesticides are heavily used in the urban environment for insects, disease, weed and wildlife control. Several studies have shown that on a per acre basis the rate of urban pesticide application, especially of fungicides and insecticides, often exceeds those found on agricultural lands. The leaching of chemicals out of the soil and into water supplies, and potentially acute and chronic human health effects, especially among those with a respiratory or allergy problem, are also causes for concern over urban pesticide use. These concerns need to be addressed by the horticulture agent by promoting urban integrated pest management strategies that pose far less risk to humans and the environment than current strategies.

In addition, the proximity of Los Alamos to the Jemez Mountains drives an unusually high number of incidents with local wildlife and although maintaining full natural ecosystem function is not possible in most urban landscapes, more realistic and measurable objectives, such as maintaining the native plant and animal diversity, can be easily accomplished. Surveys have shown that an overwhelming majority of Los Alamos County residents are concerned about the fate of wildlife populations and support conservation efforts. Although many citizens participate in conservation activities, their efforts often are inefficient because they do not understand wildlife-habitat relationships and are not implementing science-based practices. Although wildlife management is often thought of in terms of protecting, enhancing, and nurturing wildlife populations and the habitat needed for their wellbeing, many species at one time or another

require management actions to reduce conflicts with people or with other wildlife species.

Activities:

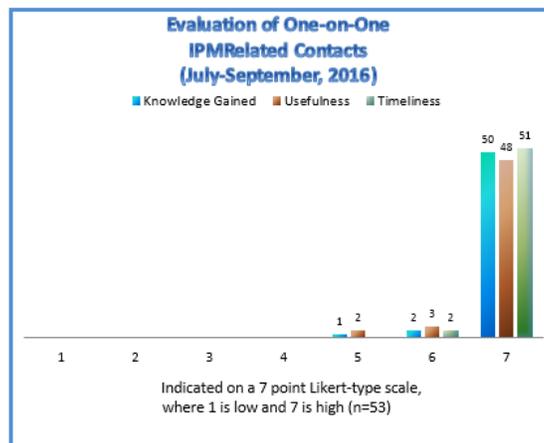
One-on-one Contacts.

•Insects & Disease- The agent made 284 one-on-one contacts with Los Alamos residents in the area of insect and disease management during the reporting period [266(W),7(A),11(H),1(B); 171(F),113(M)]. Each client contact is approached with a strategy that focuses on long-term prevention of pests or their damage through a combination of techniques such as biological control, habitat manipulation, modification of cultural practices, and use of resistant varieties. Pesticides are recommended only after there are indications they are needed according to established guidelines, and treatments are made with the goal of removing only the target organism. Pest control materials are selected in a manner that minimizes risks to human health, beneficial and non-target organisms, and the environment.

•Wildlife Damage Control- The agent made 58 one-on-one contacts with Los Alamos residents in the area of wildlife management during the reporting period [51(W) 1(A) 6(H); 31(F), 27(M)]. Each client contact constitutes a discussion of current, research-based information on the wildlife that is causing problems and the control of damage that they cause. Emphasis is on prevention of damage as being desirable when possible, but does not neglect the necessity of population reduction in those cases where animals must be removed to solve problems. The agent stresses an integrated approach to damage management. All of the major vertebrate pesticides that are currently federally registered are also included in the conversations.

Evaluation & Results:

One-on-one contacts. Continued use of post-contact survey instrument given to approximately every 4th personal contacts, within phone call and home visit subsets, measuring perceived gains in knowledge, usefulness of that knowledge and timeliness of the agent in responding. Of the 342 one-on-one contacts the agent made during the reporting period, 72 received the post contact evaluation instrument. Fifty-three (n=53) questionnaires were returned to the agent indicating an effective response rate of 76%. Quantitative data collected from clientele were analyzed for frequency, central tendency and variance. Qualitative data were analyzed for frequency.



Of the sample surveyed, fifty-three (n=53) indicated, on a seven-point Likert-type scale, where 1 represented little knowledge gained and seven represented much knowledge gained, a higher than neutral response to the question. Of the sample surveyed, fifty-three (n=53) indicated, on a seven-point Likert-type scale, where 1 represented knowledge which was not useful and seven

represented knowledge that was useful, a higher than neutral response to the question. Of the sample surveyed, fifty-three (n=53) indicated on a seven-point Likert-type scale, where 1 represented an untimely response and seven indicated a timely response, indicated the agent was timely in his response to clientele.

#### Urban Horticulture Collaborations:

Los Alamos County Parks, Los Alamos County Utilities, NM Water Task Force, NM Water Conservation Alliance, NM State Forestry, U.S. Forest Service, New Mexico Dept. of Game and Fish, United States Department of Agriculture, New Mexico Department of Agriculture, PEEC, NMSU specialists in wildlife, weeds, entomology, plant pathology, turf, fruits & vegetables and water also collaborated with the agent to aid clientele with horticultural problems and programs.

### **Community Development**

#### Situation:

The Los Alamos community faces complex issues which cannot be addressed in isolation. Extension programming places emphasis on building community capacity through collaborations that address pressing issues. Extension takes the leadership with some of the programming efforts but works towards inclusion and encouragement of others to take leadership, acting as facilitators or evaluators, or teaching content for programs; all within the context of shared responsibility and a team philosophy.

#### Activities:

The Los Alamos Master Gardeners' Association is a community service organization whose members have successfully completed the NMSU's Cooperative Extension Service Master Gardener Volunteer training. Nationally, Master Gardener Volunteer training began in 1975 to respond to the increase in home gardening issues. Locally, Master Gardener training began in the early 1980s. The local association was formed by the agent in July 1994 and currently enjoys a steady membership level of at least 40 [50(W),2(A);43(F),9(M)]. The primary objective of the horticulture agent is to train and direct volunteers who will promote knowledgeable, effective, and safe horticultural practices consistent with the Cooperative Extension Service, and promote goodwill throughout the community. The horticulture agent attended two Master Gardener Association Meetings during the reporting period.

During the reporting period volunteers contributed 234 hours of work to community projects for a total value of \$4095.00. The value of volunteer time is based on the hourly earnings of all production and non-supervisory workers on private non-farm payrolls average (based on yearly earnings provided by the Bureau of Labor Statistics). Organizations use this value of volunteer time to show the amount of community support an organization receives from its volunteers. According to the Financial Accounting Standards Board (FASB), the value of volunteer services can also be used on financial statements, including statements for internal and external purposes, grant proposals, and annual reports.

The home economist serves on seven community councils including Los Alamos Community Health Council, Heart Council, Council on Cancer, Los Alamos Preparedness Network, Project Heart Start, Community Resiliency Group, Los Alamos Retired and Seniors Organization. Her involvement in these councils is for collaboration with community groups on senior and health related programming.

The agents served as a member of the 2016 Los Alamos County Fair and Rodeo Committee. He was responsible for the indoor exhibits portion of the Los Alamos County Fair and Rodeo. A total of 411 exhibits in twelve divisions were displayed at the Mesa Public Library. A total of 855 members of the public viewed the exhibits. Fifty-eight volunteers were utilized as judges, superintendents, clerks and exhibit monitors. Extension agents prepared the indoor exhibit booklet with divisions and classes and publicized the event through radio, newspaper and displays in the community. The agent attended planning and evaluation meetings of the committee.

#### Community Development Collaborations

Los Alamos County Community Services Department, Los Alamos County Parks Department, Los Alamos Master Gardeners Association, KRSN Radio, Los Alamos Council on Cancer, Los Alamos Daily Post, Los Alamos Monitor, Los Alamos Community Health Council, Los Alamos Preparedness Network, Los Alamos Retired and Seniors Organization.

#### Home Economics

Los Alamos families make choices and decisions every day about time, money, nutrition and health. To make the best decisions the Cooperative Extension Service provides researched-based, up-to-date information by way of 'Nutrition Inserts' included in the food boxes given through the monthly LA Cares food distribution program. One page, double sided easy to read, inserts were created by the home economist for this distribution. Three inserts were distributed this quarter: Approximately 90 families receive food boxes with 281 individuals being serviced (81[H] 131[W] 4[B] 5[AI] 1[A] 18[O]; 108[M] 132[F]). All participants are below 50% of median income.

#### *Health and Nutrition:*

Los Alamos families make choices and decisions every day about time, money, nutrition and health. To make the best decisions the Cooperative Extension Service provides researched-based, up-to-date information by way of 'Nutrition Inserts' included in the food boxes given through the monthly LA Cares food distribution program. One page, double sided easy to read, inserts were created by the home economist for this distribution. Three inserts were distributed this quarter: Approximately 90 families receive food boxes with 232 individuals being serviced (86[H] 110[W] 4[B] 21[AI] 2[A] 9[O]; 102[M] 130[F]). All participants are below 50% of median income.

As a senior meal site the Betty Ehart center offers a quarterly nutrition program to its participants. The agent delivered a one-hour long program titled *Calcium and Bone Health* about the importance of maintaining healthy bones especially as we age. Participants sampled dairy milk alternatives at the conclusion of the program. Fifty-six seniors attended the program (2[H] 54[W]; 11[M] 45[F]); 56[60 & over]).

One program was offered at the White Rock Senior Center titled *Eating for Arthritis*. Thirteen seniors attended the program (13[W]; 1[M] 12[F]). Participants learned the importance of a healthy diet and physical activity to manage and reduce arthritis pain.

#### *Emergency Preparedness and Food Safety:*

Food preservation continues to be a popular subject. Since July, the Family and Consumer Sciences Agent has offered *Preserving Fruit, Salsa, and Pasta Sauce*. All classes were well attended with excellent qualitative and quantitative feedback showing knowledge and behavior change. Eight people attended *Preserving Fruit* (2[H] 6[W]; 1[M] 7[F]), while 11 people

participated in *Salsa* (1[H] 10[W]; 2[M] 9[F]), and 4 participated in *Pasta Sauce* (1[H] 3[W]; 4[F]). The pre and post tests indicated that following the class participants were using improved food safety methods, including properly acidifying salsa. Furthermore, participants in the *Pasta Sauce* class learned to safely use a pressure canner, including adjusting for altitude and venting the canner.



*Pasta Sauce participants fill jars with meatless tomato sauce to be processed in the pressure canner.*

### **Youth Development**

#### **Situation:**

4-H is a youth development organization serving young people ages 5-19. 4-H provides youth development programs with a focus on science, health and citizenship. 4-H is a positive youth development organization that empowers young people to reach their full potential. A vast community of youth and adults working together for positive change, 4-H enables Los Alamos youth to emerge as leaders through hands-on learning, research-based 4-H youth programs and adult mentorship, in order to give back to their local communities.

The agents dedicated time in providing general support and maintenance to two Los Alamos 4-H clubs [44(W),6(H),4(B),3(A); 31(F)22(M)].

### **Professional Improvement**

The Home Economist is currently serving on the committee to develop a Master Food Preserver Volunteer curriculum and program which would train community members in safe food preservation practices. She is also active with the Southwest Border Food Safety and Defense Center.

The Horticulture Agent is currently serving on the search committee for the Extension Urban Horticulture Specialist.

The Horticulture Agent attended the following webinars: Exemplary Programs: School and Youth Conservation Programs to Educate Tomorrow's Water Warriors; EPA WaterSense/AWE Partnership Webinar - Irrigate Smarter: Connecting Homeowners to Their Controllers.

**Media Activities**

Agents regularly use local media to reach our constituents. These activities include interviews on the KRSN Morning Show and a monthly Home Economics news column featured in the Los Alamos Daily Post and a monthly digital newsletter.

**Notable Achievements/Improvements:**

4<sup>th</sup> Quarter (April – June 2017):

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3<sup>rd</sup> Quarter (January – March 2017):

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2<sup>nd</sup> Quarter (October – December 2016):

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1<sup>st</sup> Quarter (July – September 2016):

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**Opportunities/Dreams/Recommendations/Problems:**

4<sup>th</sup> Quarter (April – June 2017):

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3<sup>rd</sup> Quarter (January – March 2017):

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2<sup>nd</sup> Quarter (October – December 2016):

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1<sup>st</sup> Quarter (July – September 2016):

<p>Los Alamos CES has received a onetime addition of \$10,000 from NMSU to support the operations and maintenance budget. This funding will support purchase of permanent signage at the Los Alamos Demonstration Garden, aid the food preservation program and provide additional professional training for the agents.</p>
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<b>Annual Financial Review Attached?</b> (Check one)	<b>YES</b> Date of Report:	<b>NO</b> <b>X</b>
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**Financial Information:**

Financial Information (Cooperative Extension Service) 2016 Fiscal year				
MOA17-905 LAC Direct Funding \$92,202	1 <sup>st</sup> Quarter FY17 (July-September 2016)	2 <sup>nd</sup> Quarter FY17 (October-December 2016)	3 <sup>rd</sup> Quarter FY17 (January-March 2017)	4 <sup>th</sup> Quarter FY17 (April-June 2017)
Type of Expense				
Personnel	\$20,717.17	\$20,717.17	\$20,717.17	\$20,717.17
Education Supplies Program Consumables	2301.60			
Telecommunications	411.18			
Non Capital Equipment*	0.00			
Literature	0.00			
Travel	122.03			
Totals	<u>\$23,552.51</u>			

**LA Scores FY17:**

QTR 4: # NMSU Participants served:  
Expenditure per participant/visitor/contact (provided by CSD Admin)

QTR 3: # NMSU Participants served:  
Expenditure per participant/visitor/contact (provided by CSD Admin)

QTR 2: # NMSU Participants served:  
Expenditure per participant/visitor/contact (provided by CSD Admin)

QTR 1: # NMSU Participants served: 1986  
Expenditure per participant/visitor/contact (provided by CSD Admin)