

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Economic Development with Emphasis in Rural Areas

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
122	Management and Control of Forest and Range Fires			43%	
213	Weeds Affecting Plants			28%	
601	Economics of Agricultural Production and Farm Management			14%	
803	Sociological and Technological Change Affecting Individuals, Families, and Communities			15%	
	Total			100%	

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	6.0	0.0
Actual	0.0	0.0	1.2	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	0	55007	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	99050	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

This year's economic development focused primarily on rangeland wildfires and invasive weeds effects on ranchers, all the way up to regional level economics. Specifically, researchers addressed questions like: what strategies a best suited for positioning firefighting equipment across the Great Basin; at what point would private landowners invest to reduce risk and costs of rangeland fires; what impact does alternative grazing practices produce from ranch to regional levels; and creating models that coordinate ranchers and public agency decision-makers in their efforts to battle invasive weeds and wildfires in Nevada.

2. Brief description of the target audience

Private land owners and ranchers, government agencies (BLM, Forest Service, NRCS, ARS), and state and county agencies.

V(E). Planned Program (Outputs)

1. Standard output measures

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Plan	1750	4000000	400	500000
Actual	1668	262472	130	0

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2010
 Plan: 0
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2010	Extension	Research	Total
Plan	0	26	
Actual	0	15	15

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Peer reviewed scientific journal articles, publications on economic development , presentations at scientific meetings, presentations at stakeholder, Native American, health care organizations, agency and local government meetings.

Year	Target	Actual
2010	26	49

Output #2

Output Measure

- Newsletters produced

Year	Target	Actual
2010	{No Data Entered}	1

Output #3

Output Measure

- Leveraged Research Projects

Year	Target	Actual
2010	{No Data Entered}	15

Output #4

Output Measure

- Websites created or updated

Year	Target	Actual
2010	{No Data Entered}	5

Output #5

Output Measure

- Manuals and other printed instructional materials produced

Year	Target	Actual
2010	{No Data Entered}	2

Output #6

Output Measure

- Number of graduate students or post-doctorates trained

Year	Target	Actual
2010	{No Data Entered}	10

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Peer reviewed scientific journal articles, publications on economic development, presentations at scientific meetings, presentations at stakeholder, Native American, health care, agency and local government meetings,
2	Bringing the Economics of Nevada's Budget Cuts to the People
3	The Economics of Illegal Dumping Mitigation in Northern Nevada

Outcome #1

1. Outcome Measures

Peer reviewed scientific journal articles, publications on economic development, presentations at scientific meetings, presentations at stakeholder, Native American, health care, agency and local government meetings,

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Bringing the Economics of Nevada's Budget Cuts to the People

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	{No Data Entered}	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

During the 1990s and early 2000s, the state of Nevada has been the fastest growing state in the nation in annual percentage growth in population. This population has been fueled by rapid economic expansion and construction. However with the national recession and the state's housing construction collapse, the state and its counties have realized economic recession. In fact, the state of Nevada ranks highest in unemployment rate in 2010.

This economic collapse has caused concern by state economic development leaders and county commissioners as to economic activity and fiscal balances. The need to develop strategic economic development and industry targeting programs is a need in the state to more efficiently address economic growth and possible economic stagnation.

Also understanding of the state of Nevada fiscal system is needed. Employment and unemployment data from the Nevada Department of Employment, Training, and Rehabilitation gives information as to employment and unemployment trends in the state and Nevada counties. An understanding of this employment and unemployment data are needed for proper economic development targeting. Additional decision makers need to be aware of potential economic

impacts of reductions in public service activities such as Nevada System for Higher Education and local extension offices.

What has been done

Develop a web based program to analyze U.S. Bureau of Economic Analysis data, State of Nevada Department of Employment, Training, and Rehabilitation data, and State of Nevada Taxation data. Also develop voice-over-power points and webinars for discussion of economic and fiscal trend tools and analysis.

Develop Cooperative Extension fact sheets and University Center for Economic Development publications on socio-economic and fiscal trends.

Additionally University Center publications and Cooperative Extension workshops are being used to deliver analysis of potential changes in natural resource allocations on Nevada counties and communities and associated fiscal impacts.

Develop extension fact sheets to detail impacts to the state and local economy from reductions in public services and infrastructure.

Results

Nevada legislation is looking at cutting over \$162 million in state support from the Nevada System of Higher Education (NSHE) for the fiscal years 2012/2013. This project has produced the definitive economic impact analysis of NSHE on the state's economy, along with the economic impacts of the county extension offices in Mineral and Lyon Counties on their host county economies.

This project has also helped Nevada decision makers successfully understand the factors causing changes in the socio-economic trends and fiscal balancing that are appropriate with the Nevada fiscal system. An in light of the state's budget crisis, provided Nevada county commissioners with a timely socio-economic and fiscal analyses of potential impacts of changes in public resource management and development of industrial targeting plans. A series of workshops, "Does Growth Pay for Itself", were also held to inform stakeholders and the general public of the economic consequences of certain decisions. Elliot Parker, a professor at UNR, said "that without projects like Dr. Harris, the ramifications of uncontrolled growth would likely not be discussed in Nevada's general populous."

With rural communities requesting assistance in the area of entrepreneurship development, this project now provides a mechanism for delivery of entrepreneurship education materials to county economic development officials and individuals throughout the nation via the internet.

4. Associated Knowledge Areas

KA Code	Knowledge Area
601	Economics of Agricultural Production and Farm Management
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #3

1. Outcome Measures

The Economics of Illegal Dumping Mitigation in Northern Nevada

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	{No Data Entered}	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Illegal dumping has been a persistent nuisance in the community. Illegal dumping has the potential to be very damaging to the environment and costly for tax-payers to clean-up. There are local non-profits that focus on combating this issue, but they usually operate with limited funding and resources. Washoe County Nevada's offers free dump days to residents through the year as stipulated in the garbage hauler franchise agreements which have been very popular. However, despite the resources available to residents and organized clean-up efforts, illegal dumping remains an issue throughout Washoe County.

In an effort to better understand the motivations behind illegal dumping, as well as to assess resident perceptions of illegal dumping, this study examined resident willingness to pay (WTP) and participate in illegal dumping cleanup, as well as improved enforcement of illegal dumping laws and/or prosecution of illegal dumping offenders.

What has been done

Data for this study were collected from an in-person survey of 452 residents in Reno and Sparks, Nevada in the fall of 2009. Logistic models were used to estimate survey respondent WTP for the three policy options discussed above, as well as to assess resident activities, demographics, and attitudes more likely to influence WTP.

Results

A large portion of survey respondents (68%) would be will to participate in illegal dumping cleanup and over 84% would be willing to report an act of illegal dumping. The study also showed that residents would generally be willing to pay a tax or fee for both illegal dump site cleanup (78%) and law enforcement/prosecution (71%) of illegal dumping offenders.

Results from this study are now being used as support to a potentially increase in either

residential taxes or trash collection fees to expand cleanup and/or enforcement of illegal dumping offenses governed by Washoe County District Health Department.

Another outcome of this research is the "Public Education & Information Program for Solid Waste" put on by Washoe County District Health Department. Based upon survey results, this plan uses information and education as a means to facilitate positive changes in behaviors by providing solid evidence and behavior-based theory about how these changes will benefit this county, as well as the environment.

4. Associated Knowledge Areas

KA Code	Knowledge Area
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes
- Competing Public priorities
- Competing Programmatic Challenges
- Other (University's department of Resource Economics closure)

Brief Explanation

Current State budget shortfalls have narrowed the breadth of research programs in NAES. Fewer research projects will be supported and recruiting graduate students has basically ended for the department of Resource Economics. In addition, due to the Governor's hiring freeze and further State budget shortfalls, NAES is prevented from moving forward and determining the areas of research most important to the state, nation and internationally.

The closure of the department of Resource Economics will affect how we determine the most important direction of the College/NAES to remain competitive with current economic issues and rural development. All but three resource economists have been laid off and those three remaining faculty will be moved to a different College.

In addition, if \$17,000,000 is not secured by State Legislators this 2010 session, the College of Agriculture, Biotechnology and Natural Resources is proposed for closure and remaining departments will be moved to new homes. This action could significantly alter NAES's organizational structure and cohesiveness.

All of these issues will determine the future of our research.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)

Evaluation Results

Faculty programs are evaluated annually and annual reviews of performance are prepared for each calendar year. We held a web based mini-symposium to learn of the research advances from each NAES research projects where each principle investigator or graduate student makes a power point presentation in a forum open to all faculty, staff, students and stakeholders as well as College and NAES leadership. Faculty are questioned and future goals are discussed for each research project t in the NAES research portfolio. The web cast has been saved and will be open for review for one year. Faculty have been productive and continued to carry out cutting edge research and in addressing economic development in Nevada. Where appropriate future funding will continue where the results justify continued funding.

Key Items of Evaluation

Publications in refereed journals, invited review articles, extension publications, invitations to talk at national and international meetings.