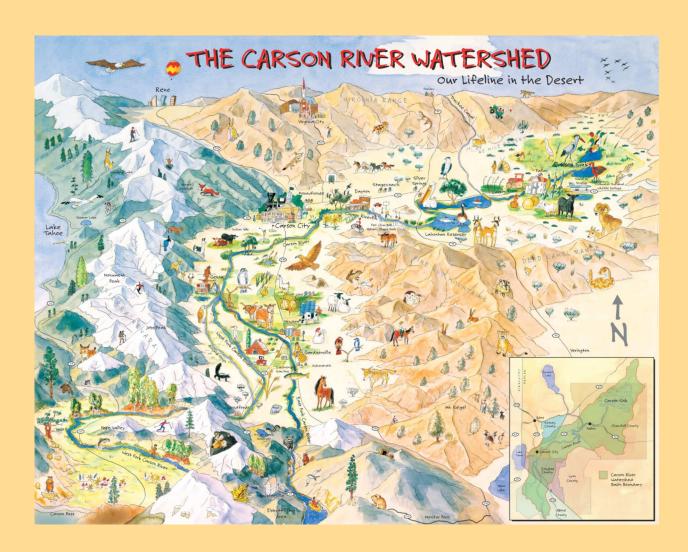


Carson River Environmental Education in the Carson River Watershed

Programs/Activities Vital Information



February 6, 2013

8:30 a.m.-4:00 p.m.

Old Assembly Chambers, Nevada State Capital
Carson City, Nevada

Welcome to the land of environmental education within the watershed of the Carson River — Our Lifeline in the Desert. The following is a list of programs and activities ongoing today by a variety of entities that operate within the watershed. Eventually this list will be found on the Carson Water Subconservancy District (CWSD) website (www.cwsd.org), to be conveniently accessed and well used. This document is a work in progress mind you and we need your help to continue perfecting the information. Any updates, refinements, and/or new program data sheets can be sent to Brenda Hunt at brenda@cwsd.org.

Thank you to all who contributed! The Carson River is our lifeline in the desert and it's exciting to see the programs that are working to benefit the watershed's health. We look forward to continuing to document the environmental education programs that abound in this diverse ecosystem!

Table of Contents

Cover: Environmental Education in the Carson River Watershed Programs/Activities Vital Information	1
Preamble	2
Table of Contents	3
Birding Under Nevada Skies	4
Carson River Festival - River Wranglers	5
Carson River Project Community Outreach - The Nature Conservancy	6
Citizen Water Quality Monitoring Program - Alpine Watershed Group	7
Connecting People with Nature Initiative - US Fish & Wildlife Service	8
Conserve Carson River Workdays - River Wranglers	9
Carson River Watershed Snapshot Day - Nevada Division of Environmental Protection	10
Eagles & Agriculture Nevada - University of Nevada Cooperative Extension	11
Environmental Newsletter - Nevada Division of Environmental Protection	12
Explore Your Watershed Conservation/Education Tours - Great Basin Sports	13
Get on the Bus Watershed Tours - Carson Water Subconservancy District	14
Great Basin Outdoors School	15
Guided Hike at Fort Churchill State Park - Nevada Division of State Parks	16
Landscaping and Gardening Workshops - Greenhouse Garden Center	17
Leave No Trace - Nevada Division of State Parks	18
Markleeville Creek Day - Alpine Watershed Group	19
NEMO (Nonpoint Education for Municipal Officers) - Nevada - University of Nevada Cooperative Extension	20
Nevada Land Trust	21
Nevada Recycles - Nevada Division of Environmental Protection	22
Nevada Junior Duck Stamp Program - US Fish & Wildlife Service - Stillwater NWR Complex	23
Noxious Weed Program Education Campaign "What's in Your World" - Nevada Department of Agriculture	24
Outreach & Education for Aquatic Invasive Species - Bureau of Reclamation, Lahontan Basin Area Office	25
Project WET - Nevada Division of Environmental Protection	26
Outreach & Education Program - US Fish & Wildlife Service - Stillwater NWR Complex	27
Summer Environmental Exchange - Tahoe Baikal Institute	28
Truckee River Environmental Education Day - Bureau of Land Management - Carson City District	29
Urban & Community Forest Program - Nevada Divison of Forestry	30
Walking Our Watershed – Sierra Nevada Journeys	31
Wild & Wonderful Wetlands - Nevada State Museum	32
Wildlife Education Program - Nevada Department of Wildlife	33

Carson River Watershed Environmental Education Programs	
Entity	Birding Under Nevada Skies
Name of Program	
Program Age (How long has it been active?)	4
Target Audience (Who is the program offered to?)	5th grade and below.Audobon Society. Seniors 40-80
When Offered (Only at specific times? When requested? Etc.)	on request
Desired Outcomes (What do you want people to learn or do? What are the goals?)	responsibility to maintain habitat.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	responsibility to maintain habitat.Return of clients. Contributions
Summary of Outcomes to Date (brief)	active involvement. Clients pursue conservation activities.
Program Funding (How is program funded?)	self
Contact Person, email, phone Website address	jim.woods@charter.net 775-720-7009
WEDSILE address	

Carson River Watershed Environmental Education Programs	
Entity	River Wranglers
Name of Program	Carson River Festival
Program Age (How long has it been active?)	Approximately 10 years
Target Audience (Who is the program offered to?)	High school student volunteers and the general public. The teens select a topic of personal interest related to the watershed and spend time with a professional to learn more about the topic. The teen then develops an interactive booth, providing an opportunity for the public to learn more about the watershed.
When Offered (Only at specific times? When requested? Etc.)	In the spring and fall.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Promote awareness and personal connection to the river. We want people to understand how a river functions and how humans impact it. We want them to make personal choices that benefit the river
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	rather than harm it. The public receives a passport to visit the various booths and as they check out they provide anecdotal comments about the event and effectiveness of activities. Board members collect the passports and chat with attendees to assess how the various activities influenced them.
Summary of Outcomes to Date (brief)	In 2012 at the two-day June event there were 5,000 visitors. In October there were 500+ visitors. From anecdotal comments, we understand the public has an increasing understanding of and appreciation for the river.
Program Funding (How is program funded?)	CWSD grant funding, Lyon County Room Tax Board, Dayton Valley Conservation District
Contact Person, email, phone	Margie Evans, meg4bio@sbcglobal.net, 775-720-0162
Website address	www.riverwranglers.org

Carson River Watershed Environmental Education Programs	
Entity	The Nature Conservancy
Name of Program	Carson River Project Community Outreach
Program Age (How long has it been active?)	6+ years
Target Audience (Who is the program offered to?)	Our target audience is quite varied and includes public, private and home-schooled students in grades pre-K through 12; undergraduate and graduate level college students; senior living center residents; future and current thought-leaders and decision makers; local ranchers and property owners; and extended families.
When Offered (Only at specific times? When requested? Etc.)	The hub of our efforts, the River Fork Ranch preserve, is open to public from dawn to dusk daily for self directed exploration. In collaboration with partner organizations, we also offer a wide variety of scheduled programs and events for schools, senior centers, community groups and the general public.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Our goal is to build support for biodiversity conservation in the Carson River watershed by showcasing innovative conservation approaches and environmentally responsible practices and by facilitating opportunities for community members of all ages to forge a personal connection with the natural world.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Effectiveness monitoring includes formal and anecdotal feedback from students, educators and the community via pre-and post-event assessments, evaluation forms, and surveys.
Summary of Outcomes to Date (brief)	Working with our partners, the program has a proven track record of touching a highly diverse demographic mix and increasing their awareness of the critical role that freshwater ecosystems play in filtering non-point source pollutants, reducing erosion and providing habitat for aquatic, terrestrial and avian species.
Program Funding (How is program funded?)	Our program is funded by a combination of private donations and public grants.
Contact Person, email, phone	Duane Petite, dpetite@tnc.org, 775-781-3505
Website address	nature.org/Carson

Carson River Watershed Environmental Education Programs	
Entity	Alpine Watershed Goup
Name of Program	Citizen Water Quality Monitoring Program
Program Age (How long has it been active?)	Since 2004
Target Audience (Who is the program offered to?)	Community Members, Carson River Watershed residents, school students.
When Offered (Only at specific times? When requested? Etc.)	Quarterly ambient water quality monitoring; annual bioassessments; seasonal bacterial monitoring; seasonal flow discharge monitoring.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Involve citizen volunteer monitors to learn both the importance of, and skills for, water quality monitoring. Goals also include providing credible baseline water quality data to the community, regulatory agencies, and local government.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Program effectiveness is evaluated by ongoing tracking of number of citizen monitors involved, and total number of hours contributed. Annual reports are generated and distributed, and include data analysis and evaluation of program effectiveness from a technical standpoint. Reporting to program funding agencies also provides a means for garnering feedback on program success.
Summary of Outcomes to Date (brief)	Eight consectutive years of water quality data from 8 sites monitored quarterly since 2004; 20+ Citizen Monitors trained to conduct monitoring for numerous parameters (ambient, bacterial, bioassessments, flow discharge); 6 bacterial monitoring sites monitored 3 consecutive years; Flow gaging stations established on upper West Fork Carson River, Meadow Stewards trained to measure discharge and gather data from stations.
Program Funding (How is program funded?)	CWSD; CA Department of Conservation; Sierra Nevada Conservancy; RAC funding; private foundation funding.
Contact Person, email, phone	Chris Katopothis; awg.chris@gmail.com. 530-694-2327
Website address	http://www.alpinecountyca.gov/watershed_group

Carson River Watershed Environmental Education Programs	
Entity	USFWS
Name of Program	Connecting People with Nature Initiative
Program Age (How long has it been active?)	In 2007, the Service declared that "Connecting people with nature" is among the agency's highest priorities.
Target Audience (Who is the program offered to?)	The target audience would be children. The Connecting People with Nature (CPwN) is a broad initiative. The program vision is as follows, "A connection with nature, whether it's hiking, fishing, camping, hunting, or simply playing outside, helps children develop positive attitudes and behaviors towards the environment. Positive interactions with the environment can lead to a lifelong interest in enjoying and preserving nature. People's interest in nature is crucial to the Service mission of working with others to conserve, protect and enhance fish, wildlife, and plants and their habitats for the continuing benefit of the American people". Thus, the initiative seeks to help children (and adults) develop a positive connection with nature.
When Offered (Only at specific times? When requested? Etc.)	Special events are offered at specific times of the year. Individual programs can be arranged as needed with adequate advance notice. For example, I have done outreach including such topics as schoolyard habitats, macroinvertebrates, bird adaptations, endangered species, NV wildlife, etc. As part of my schoolyard habitat program, I do teacher professional development focused on integrating a schoolyard habitat/outdoor classroom into the school environment.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	
Evaluation Design (How do you evaluate the program's effectiveness? How often?) Summary of	When I do teacher professional development, I have the participants fill out evaluations. I don't currently evaluate all of my Connecting People with Nature programs.
Outcomes to Date (brief)	
Program Funding (How is program funded?)	Each school can qualify for up to \$8,000.00 towards a schoolyard habitat from the USFWS. I currently do not have any base funding for CPwN.
Contact Person, email, phone Website address	michelle_hunt@fws.gov; 775 861-6341 http://www.fws.gov/cno/

Carson River Watershed Environmental Education Programs	
Entity	River Wranglers
Name of Program	Conserve Carson River Work Days
Program Age (How long has it been active?)	Since 1994
Target Audience (Who is the program offered to?)	High school science classes and elementary 4th grade students.
When Offered (Only at specific times? When requested? Etc.)	Year round, principally in the spring and fall.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Promote awareness and personal connection to the river. We want people to understand how a river functions and how humans impact it.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	We count the number of students participating and are working at developing an evaluation tool to assess learning. We also use the number of events held, number of trees wrapped and the number of river miles conserved.
Summary of Outcomes to Date (brief)	In 2012 there were eleven Conserve Carson River Work Days with approximately 700 elementary students, 220 high school students and 110-120 adults.
Program Funding (How is program funded?)	CWSD grant funding for CCRWD, \$24,000/annually. Funding has come from Patagonia and local business support.
Contact Person, email, phone	Linda Conlin, nevadariverwranglers@yahoo.com, 775-230-0633
Website address	www.riverwranglers.org

Carson	River Watershed Environmental Education Programs
Entity	Nevada Division of Environmental Protection (NDEP)
Name of Program	Carson River Watershed Snapshot Day
Program Age (How long has it been active?)	The annual Carson River Snapshot Day began in 2006.
the program offered to?)	Snapshot Day is an annual one-day stream monitoring event for the Carson River watershed in Nevada and California. It is a volunteer-based event that takes a picture of 1-moment in time of the watershed. Local school classes and citizen volunteers learn about their watershed, water quality issues, how streams function, and how to assess stream health. Each year, Nevada's Nonpoint Source (NPS) Pollution Management Program works in partnership with other public agencies, educational institutions and nonprofit organizations to provide citizens and students a unique opportunity to learn about local water quality issues related to nonpoint source pollution, water quality protection, and to participate in watershed research. These events provide hands-on education to the public; and an engaging educational opportunity for participants to job shadow and interact with water
When Offered (Only at specific times? When requested? Etc.)	This annual monitoring event takes place typicaly on the first Friday following October 15th. Events leading up to the monitoring day include Team Leader and Educator Orientation Training and class presentations to prepare students for this engaging field study.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Community awareness and value for our natural resources, particularly water resources and watershed systems. An understanding of the importance of riparian habitat, floodplains, water resouce management, and water quality. Participants to take away and heightened awareness and committment to low impact, best practices, nonpoint source pollution prevention, and watershed stewardship.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Evaluated are requested from participants, educators, and team leaders.
Summary of Outcomes to Date (brief)	Not available at this time.
Program Funding (How is program funded?)	Analysis of water samples is supported with funding from NDEP's Bureau of Water Quality Planning. Staffing is supported with contributions from CRC Education Working Group, recruited water resource professionals, educators, and students.
Contact Person, email, phone	Mary Kay Wagner, Environmental Scientist, mkwagner@ndep.nv.gov, 775-687-9454
Website address	http://ndep.nv.gov/edu/index.htm

Carson River Watershed Environmental Education Programs	
Entity	University of Nevada Cooperative Extension
Name of Program	Eagles & Agriculture
Program Age (How long has it been active?)	February 2013 will be its 11th year
Target Audience (Who is the program offered to?)	Adult locals and tourists
When Offered (Only at specific times? When requested? Etc.)	Once per year in February (Friday evening, Saturday, and Sunday)
Desired Outcomes (What do you want people to learn or do? What are the goals?)	1) Encourage the conservation and prosperity of ranching in western Nevada 2) Promote the benefits that agriculture provides wildlife and the community 3) Teach participants about eagles and the history of agriculture in Carson Valley 4) Demonstrate an example of agritourism that will potentially enhance the profitability for local ag operations and businesses.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	The program is evaluated using an electronic survey emailed to participants about two weeks following the event
Summary of Outcomes to Date (brief)	It is estimated that over the first seven years, the event generated about \$1.4 million into the local revenue stream. Elected officials have shown a keener appreciation for agriculture in our communities. Politicians are more attuned to agricultural input, and decisions in recent years
Program Funding (How is program funded?)	Registration fees support the event
Contact Person, email, phone	Steve Lewis, lewiss@unce.unr.edu, 775-782-9960
Website address	http://www.carsonvalleynv.org/pages/EaglesAg/

Carson River Watershed Environmental Education Programs	
Entity	Nevada Division of Environmental Protection (NDEP)
Name of Program	Environmental News letter - publication name is to be announced with the first issue.
Program Age (How long	The first issue is due for release in January 2013
has it been active?)	
Target Audience (Who is	The Environ-News letter is targeted to an audience of school and community educators
the program offered to?)	within the great state of Nevada. This includes nonformal educators, community leaders,
	non-governmental agencies with environmental education as an element of their mission.
	It also includes natural resources professionals with an interest in environmental education,
	watershed stewardship, and community involvement. Who ever is in our LISTServe
	mailing
• •	The newsletter is scheduled to be published and distributed each quarter across Nevada. It
specific times? When	will also be posted on NDEP's EE website and Nevada Recycles website.
requested? Etc.)	
-	Community awareness and value for our natural resources, particularly water resources and
do you want people to	watershed systems. Community awareness and involvement with low impact, best
	practices, nonpoint source pollution prevention, watershed stewardship.
<u> </u>	Educators to share the newsletter with their audiences and students.
	The newsletter will readers the opportunity to offer feedback and opportunity for
do you evaluate the	involvement with future newsletter. Evaluation will be based on increases in LISTserve
program's effectiveness?	members, feedback from readers, and diagnostics provided by the LISTserve services.
How often?)	
•	New Program to be launched in January 2013, no outcomes at this time.
Date (brief)	
Program Funding (How is	Program is supported with base funding from the Bureau of Water Quality Planning and
	Bureau of Waste Management.
	Mary Kay Wagner, Environmental Scientist, mkwagner@ndep.nv.gov, 775-687-9454
	Nicole Goehring, Northern Nevada Recycling Coordinator, ngoehring@ndep.nv.gov,
	775.684.9466
Website address	http://ndep.nv.gov/edu/index.htm

Carson	River Watershed Environmental Education Programs
Entity	Great Basin Sports
Name of Program	Explore Your Watershed Conservation/Education Tours.
Program Age (How long has it been active?)	7 years
Target Audience (Who is the program offered to?)	Policy-makers, community leaders, teachers, tribes, veterans,youth groups, general public
When Offered (Only at specific times? When requested? Etc.)	Throughout the year as flow conditions allow.
Desired Outcomes	Participants will develop a passion for their watershed which will lead to preservation,
(What do you want	
people to learn or do?	BMP's, pollution prevention, and low impact development. Facilitate a change in behavior
What are the goals?)	by providing education about natural resource concerns and how one's personal habits
	impact the environment.
Evaluation Design (How	A pre-tour group question session followed by a post knowledge survey to determine
do you evaluate the program's	knowledge gained and the impact of the program. Identify steps a participant can
effectiveness? How often?)	implement to reduce non-point source water and to increase watershed stewardship
	behavior with the aim of improving the health of are local watershed.
Summary of Outcomes	Develop an educated community passionate about their watershed resulting in
to Date (brief)	
	preservation/conservation ethics.
Program Funding (How is program funded?)	NDEP, CWSD, GBS
Contact Person, email, phone	Pat Fried pat@greatbasinsports.com 775-450-3446
Website address	greatbasinsports.com

Carson River Watershed Environmental Education Programs	
Entity	Carson Water Subconservancy District
Name of Program	Get on the Bus Watershed Tours
Program Age (How long has it been active?)	5 years
Target Audience (Who is the program offered to?)	Each year the target audience shifts in order to focus on a particular demographic. Several tours has focused on providing informations to teachers and community educators about the watershed, offering them CEU credits for participation. Other years have had a more technical focus for resource professionals and offered professional development credits for engineers and planners, along with CEU for teachers. Policy makers from each of the counties in the watershed are always invited to attend. It is also advertised as an educational tour to watershed residents.
When Offered (Only at specific times? When requested? Etc.)	Approximately once per year
Desired Outcomes (What do you want people to learn or do? What are the goals?)	One goal is raise awareness of participants about the watershed as a whole. Showing participants projects being conducted throughout the watershed underscores the challenges and achiemvements of programs which benefit overall watershed health. Whether residents, teachers, community educators, policymakers, or resource professionals, CWSD hopes to have each individual come away knowledge about parts of the watershed outside their immediate communities and an understanding that their actions impact the entire sysetem.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	At the end of the bus tour, each participant completes a survey on the bus en route to the CWSD office.
Summary of Outcomes to Date (brief)	
Program Funding (How is program funded?)	Participants pay a tour fee and CWSD pays the balance and counts it as match for various NDEP grants.
Contact Person, email, phone Website address	Brenda Hunt, brenda@cwsd.org, 775-887-9005
website address	www.cwsd.org

Carson F	River Watershed Environmental Education Programs
Entity	Great Basin Outdoor School
Name of Program	Great Basin Outdoor School spring & fall science & nature camps at Lake Tahoe, winter ecology & snowshoeing, young adult outdoor leadership, teacher training, & participation
Program Age (How long has it been active?)	Since 1995; 501(c)(3) nonprofit since 1998
Target Audience (Who is the program offered to?)	
	taught all grade levels, California students, and teachers.
When Offered (Only at specific times? When requested? Etc.)	Overnight science camps at Tahoe in May, June, September, October, January, & February; public events such as Earth Day, Kids for Conservation, & Children's Environmental Science
	Day as scheduled
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Our Mission: "to ignite children's passion for learning and foster cooperation, respect, and responsibility through hands-on discovery in the outdoor classroom" Our vision: "Experiential education in the natural world will nurture children and young adults and empower them to make positive choices in their own lives, productive contributions to their communities, and sustainable decisions for the Earth."
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Pre- & post-assessments from students at all three-day and four-day programs, teacher evaluations, cabin leader evaluations
Summary of Outcomes to Date (brief)	Thousands of children have been turned on to nature through multi-day field experiences, many have hiked in the forest, seen Lake Tahoe, and volunteered on environmental service projects for the first time. They've made new friends, gotten excited about
Program Funding (How is program funded?)	Natural resource agency grants, foundations, individual donations, fundraising, and user fees
Contact Person, email, phone	Sue Jacox, Great Basin Outdoor School board president, suejacox@nvbell.net, 775-849- 1890
Website address	www.greatbasin-os.org

Carson River Watershed Environmental Education Programs	
Entity	Fort Churchill State Historic Park
Name of Program	Guided Hike
Program Age (How long has it been active?)	Approximately one year
Target Audience (Who is the program offered to?)	Families, the general public
When Offered (Only at specific times? When requested? Etc.)	Spring, winter and fall
Desired Outcomes (What do you want people to learn or do? What are the goals?)	We want people to gain an appreciation for what is in their own back yards, learn about the park and hike on the trails.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	This is a new program. We hand out surveys during programs and judge effectiveness by questions asked during the program, audience interest and attendance.
Summary of Outcomes to Date (brief)	There have only been two previous programs. The first one had 55 participants and the 2nd program had 10 participants.
Program Funding (How is program funded?)	This program is supported by Fort Churchill State Historic Park and Nevada State Parks
Contact Person, email, phone	Kim Clawson, bucklandstation@hotmail.com
Website address	http://parks.nv.gov/parks/fort-churchill-state-historic-park/

ed Environmenta	l Education Programs
Entity	Greenhouse Garden Center
Name of Program	Landscaping and Gardening Workshops
Program Age (How long has it been active?)	The nursery has been open 39 years and we have been giving classes for the last 21 years
Target Audience (Who is the program offered to?)	Homeowners and contractors???
When Offered (Only at specific times? When requested? Etc.)	Throughout the year
Desired Outcomes (What do you want people to learn or do? What are the goals?)	
Evaluation Design (How do you evaluate the program@effectiveness? How often?)	The classes are evaluated on attendance, amount of dollars spent in the category on which the class was held, and on responses afterward by attendees and friends who come in and ask questions over the following 2 weeks
Summary of Outcomes to Date (brief)	I do over 40 classes a year and asked to do more
Program Funding (How is program funded?)	I fund most of the classes so they can be free with fees on workshops to cover the material costs
Contact Person, email, phone	David Ruf, david@greenhousegardencenter.com, 775.882.8600
Website address	http://www.greenhousegardencenter.com

Carson River Watershed Environmental Education Programs	
Entity	Nevada State Parks
Name of Program	Leave No Trace
Program Age (How long has it been active?)	At least 10 years
Target Audience (Who is the program offered to?)	Park visitors, campers and Boy/Girl scout troops
When Offered (Only at specific times? When requested? Etc.)	Mostly when requested. We have done it in the past on an annual basis, but have had poor turnout when not targeting a specific group.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	The goal of the program is to teach the basic principles of leave no trace and to give them hands on activities that would help them learn.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	We hand out evaluations/surveys at the end of the program and hope to obtain feedback from them.
Summary of Outcomes to Date (brief)	Participants enjoyed the program and walked away with a greater understanding of the Leave No Trace program.
Program Funding (How is program funded?)	Grants from Leave No Trace
Contact Person, email, phone	Allen Newberry/Jennifer Dawson washoe lake@hdiss.net 687-4319
Website address	parks.nv.gov

Carson River Watershed Environmental Education Programs	
Entity	Alpine Watershed Group
Name of Program	Markleeville Creek Day
Program Age (How long has it been active?)	Since 1999
Target Audience (Who is the program offered to?)	Community Members, Carson River Watershed residents, school students.
When Offered (Only at specific times? When requested? Etc.)	Annually
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Involve community members, Carson River Watershed residents, local, state, and federal agencies, and any interested visitors from far and wide to participate in a Carson River watershed education and restoration event, followed by an ice cream social meeting in the Library Park in Markleeville.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Program effectiveness is evaluated by tracking the number of participants, and the effectiveness and quantifiable outcomes from restoration activities implemented during the event (e.g. invasive week removal, streambank length restored, garbage removed, etc.).
Summary of Outcomes to Date (brief)	Thirteen consecutive years of hosting the Markleeville Creek Day event, numerous and varied education and restoration activities conducted, average participation of 50-75 each year.
Program Funding (How is program funded?)	CWSD; CA Department of Conservation; private foundation funding.
Contact Person, email, phone	Chris Katopothis; awg.chris@gmail.com. 530-694-2327
Website address	http://www.alpinecountyca.gov/watershed_group

Carson River Watershed Environmental Education Programs	
Entity	University of Nevada Cooperative Extension
Name of Program	NEMO-Nevada (Nonpoint Education for Municipal Officials)
Program Age (How long has it been active?)	10 years
Target Audience (Who is the program offered to?)	Land-use decision makers and advisory board members; construction industry; landscaping industry; Master Gardeners; general public
When Offered (Only at specific times? When requested? Etc.)	Basic NEMO training for advisory board members and decisionmakers twice per year; construction site BMP trainings spring and fall; video contest in fall and winter; other trainings on request.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Land-use decision makers and advisory board members: Integrate water quality considerations into planning decisions. Construction industry: correctly select, install and maintain construction site BMPs. Landscaping industry: integrate Low Impact Development practices into landscape designs. Master Gardeners: teach others how to protect water quality when gardening. General public: how runoff pollution occurs and what they can do to protect water quality.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Classes are evaluated immediately using an evaluation form or audience response devices to determine knowledge gain and application of learning. Periodic long-term follow-up surveys of those who have attended NEMO events. Follow-up surveys to determine improvement in ability to select, install and maintain construction site BMPs.
Summary of Outcomes to Date (brief)	On average, Basic NEMO attendees increase their knowledge by 15% based on results of pre and post testing. Long-term survey of 63 program attendees found the following: • Over 60 percent of the respondents indicated they had used and shared program materials with others. • Over 75 percent of the respondents that have served on or currently serve on an advisory or decision-making board and/or have reviewed plans found the NEMO Nevada training to have been useful in that process. • Over 98 percent of respondents indicated they are much more likely or somewhat more likely to ask questions about stormwater issues when reviewing development plans. *63% reported that the knowledge gained from the NEMO program has influenced recommendations they have made in an official advisory capacity. *Construction site BMP trainees listed dozens of BMPs that they plan to implement in the field.
Program Funding (How is program funded?)	Grants from Nevada Division of Environmental Protection and the Truckee River Fund; salary support for coordinator from University of Nevada Cooperative Extension
Contact Person, email, phone	Susan Donaldson, donaldsons@unce.unr.edu, 775-784-4848
Website address	www.unce.unr.edu/nemo

Carson River Watershed Environmental Education Programs	
Entity	Nevada Land Trust
Name of Program	Nevada Land Trust was established in 1998 as a private, non-profit land trust dedicated to preserving and protecting Nevada's open spaces and special places for future generations.
Program Age (How long has it been active?)	
Target Audience (Who is the program offered to?)	We believe we can meet open space needs by continuing to work closely with area landowners, businesses, environmental organizations, and public officials.
When Offered (Only at specific times? When requested? Etc.)	
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Nevada Land Trust has been fighting noxious weeds for years through community weed pulls, targeted herbicide application, cultivation with native seed to meadows and hillsides, and transplanting native shrubs and trees. Our restoration work has been successful thanks to partnerships created and goals set through the Truckee Meadows Weed Coordinating Group (TMWCG).
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	We work with the TMWCG to create an annual action plan near the end of each year to schedule the following year's goals. This is an ideal time to evaluate the previous year's work.
Summary of Outcomes to Date (brief)	
Program Funding (How is program funded?)	The Truckee River Fund and Nevada Department of Agriculture are two generous funders
Contact Person, email, phone	Becky Stock, b.stock@nevadalandtrust.org, 775-851-5180
Website address	

Car	son River Watershed Environmental Education Programs
Entity	Nevada Division of Environmental Protection (NDEP)
Name of Program	NevadaRecycles
Program Age (How long has it been active?)	since 1992 (20 years)
Target Audience (Who is the program offered to?)	Anyone in the state of NV interested in learning more about recycling and waste reductionbusinesses, school classes, residents, clubs, etc. Our curriculum is appropriate for 3rd grade through 12th grade and available for free on www.NevadaRecycles.gov. We have given presentations, conducted waste audits, led vermicompost workshops, etc for a wide variety of audiences.
When Offered (Only at specific times? When requested? Etc.)	Presentations and activities can be scheduled as requested. There is an annual teacher workshop in Las Vegas for southern Nevada teachers. Teachers can utilize the curriculum in anyway they'd likeit is available for free download at www.NevadaRecycles.gov
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Improve the recycling rate, reduce waste, and eliminate littering. Have people understand WHY these goals are important. Increase awareness of what resources are available in each community.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	The annual calculation of the state recycling rate is one sort of evaluation we use, but it can be influenced by many factors (especially economic). Our annual teacher workshop is also evaluated by participants, but follow-up to see how teachers have used what they learned about is lacking. Often changes are made based on self-evaluation.
Summary of Outcomes to Date (brief)	Teachers participating in workshops since 2009: over 125. Number of presentations given to classrooms over the past year: 16. The state recycling rate has increased over the years and exceeded 25% in 2011.
Program Funding (How is program funded?)	Funding is based on the Tire Fund (a \$1 fee on the sale of each new tire).
Contact Person, email, phone	Nicole Goehring, Northern Nevada Recycling Coordinator, ngoehring@ndep.nv.gov, 775.684.9466
Website address	NevadaRecycles.gov

Carson River Watershed Environmental Education Programs	
Entity	US FISH AND WILDLIFE SERVICE-STILLWATER NWR COMPLEX
Name of Program	Nevada Junior Duck Stamp Program (part of the Federal Junior Duck Stamp Program)
Program Age (How long has it been active?)	20 years
Target Audience (Who is the program offered to?)	All school age youth (Kindergarten through 12th grade)
When Offered (Only at specific times? When requested? Etc.)	Annual Program information available in October; program is self directed; if artwork is to be entered into the Nevada JDS contest, it must be postmarked to the State coordinator by March 15.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Youth develop an understanding and appreciation for wetlands and waterfowl
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Annual State program participation statistics are collected; no evaluation is available on youth's knowledge gained by participating in the program
Summary of Outcomes to Date (brief)	Nevada's Junior Duck Stamp program participation (defined as entries in contest) has averaged 400 entries by had a high of 795 in 2012
Program Funding (How is program funded?)	USFWS provides staff for program administration, and funding for awards through sale of Federal Junior Duck Stamp; non-governmental organizations provide funding for awards
Contact Person, email, phone	Donna Withers, NV Junior Duck Stamp Coordinator email: donna_withers@fws.gov; phone: 775-423-5128 ext 231
Website address	http://www.fws.gov/stillwater/

Newada Department of Agriculture (NDA) Name of Program	
The NDA noxious weed program has always tried to have an educational component. It has only been active?) The NDA noxious weed program has always tried to have an educational component. It has only been the last two years that the NDA has presented this information specifically using the What's in Your World? and kNOweeds cirriculum to teachers. The NDA has tried to mimic the Montana noxious were educational programs which have been in existance for many years. The NDA is willing to offer presentations or educational materials to any audience interested in noxions weeds. In particular, however, the What's in Your World and kNOweeds cirriculum is targeted for K-1 teachers and their students. When Offered (Only at specific times? When requested? Etc.) We would like teachers and kids and indirectly parents and general landowners to learn multiple aspreading noxious weeds: 1. That noxious weeds cause significant negative impacts 2. How to identife Nevada's noxious weeds 3. The steps in integrated weed management that can be done to address the weeds once they are found 4. Maintain contact with the NDA noxious weed program when new infestations are found. The overall goal of all our educational activities is to increase the awareness regarding noxious weeds across the state of Nevada.	
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infestations are found. The overall goal of all our educational activities is to increase the awareness regarding noxious weeds across the state of Nevada.	
The program is in its infancy and is only a sliver of what the NDA noxious weed program does. For th	
Evaluation Design (How	is
do you evaluate the reason there is not much evaluation set up yet. We do conduct end of the workshop evaluations for	
program's teachers to fill out if they participated in one of the workshops and on an annual basis I will send out	t
effectiveness? How emails to teachers checking in on if they were able to implement noxious weed cirriculum or learning often?)	g
activities in their classroom and will ask if they need any assistance from us.	
1. Classroom noxious weed mapping done at Cottonwood Elementary in Fernley - 2011 - A teachers	
Summary of Outcomes mapped all noxious weeds found within their school yard and then developed a plan with the groun	ds
to Date (brief) keeper for control (weed = perennial pepperweed). 2. Increase in teacher interest and materials	
requested reagrding noxious weeds 2011 and 2012.	
This program is indirectly funded through the NDA noxious weed program. The coordinator salary is	
funded through grants, but like mentioned above this is not the only program that the NDA noxious Program Funding (How	
is program funded?) weed program does. Specific teacher workshops and the purchasing of materials was funded by a or	ıe
time grant from the the USFS State & Private Forestry Program. The coordinator will be looking at applying for additional grants to again do specific things to build and improve this program.	
Contact Person, email, phone Jamie Greer, jgreer@agri.nv.gov, 775-353-3640	
Website address http://agri.nv.gov/Plant/Noxious_Weeds/NoxiousWeedProgram_Education_Outreach/	

Carson River Watershed Environmental Education Programs	
Entity	Bureau of Reclamation, Lahontan Basin Area Office
Name of Program	O&E for Aquatic Invasive Species (AIS)
Program Age (How long has it been active?)	approximately 5 years
Target Audience (Who is the program offered to?)	Recreational users, water districts, other agencies
When Offered (Only at specific times? When requested? Etc.)	
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Learn the importance of "clean drain & dry" and other preventative measures to halt the spread of AIS
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Check boatramps periodically to ensure signs are still posted & visible
Summary of Outcomes to Date (brief)	Have shared materials w/ other agencies in the area, local waters are posted w/ signs
Program Funding (How is program funded?)	We receive materials from our Regional Office, located in Sacramento
Contact Person, email, phone	Andrea Minor, aminor@usbr.gov 775-884-8366
Website address	http://www.usbr.gov/mussels/

Carso	n River Watershed Environmental Education Programs
Entity	Nevada Division of Environmental Protection (NDEP)
Name of Program	Project WET - water education for school and community educators
Program Age (How long has it been active?)	Born 1984 in North Dakota. By 1995 an interdisciplinary, international water education program for formal and non-formal educators of students ages 5 to 18 spread nationwide.
Target Audience (Who is the program offered to?)	The initial audience is school and community educators participating in workshop to learn activities and lessons from the WET Guide. Participants recieve the WET Curriculum Guide and pertinent educational water resource materials. They take away engaging activities and lessons that address water's physical and chemical properties, water as essential for life, water connects all Earth systems, water as a natural resource, water management, and water resources within social constructs. Workshops are tailored to the audience and are offered for professional development credit or can be offered to school faculty as in-service training. The Project WET Curriculum and Activity Guide is appropriate for grades K through 12th grade although activities are readily used for adult learners too.
When Offered (Only at specific times? When requested? Etc.)	Water Education workshops are scheduled periodically or as requested across Nevada. Workshops are tailored to meet the needs of the audience, specific water topics such as wetlands, watershed, water quality, water management. Workshops are tailored to audience needs or requests, and offered for professional development credit and can be offered as inservice training to school faculty. Workshops are also offered to individuals interested in assisting with planning and facilitating workshops in their community.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Community awareness and value for our natural resources, particularly water resources and watershed systems. Community awareness and involvement with low impact, best practices, nonpoint source pollution prevention, watershed stewardship.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Water education workshops are evaluated by participants. Follow-up to see how teachers have used what they learned is lacking.
Summary of Outcomes to Date (brief)	Not available at this time.
Program Funding (How is program funded?)	Program is supported with base funding from the Bureau of Water Quality Planning.
Contact Person, email, phone	Mary Kay Wagner, Environmental Scientist, Project WET Coordinator, mkwagner@ndep.nv.gov, 775-687-9454
Website address	http://ndep.nv.gov/edu/index.htm

Carson River Watershed Environmental Education Programs	
Entity	US FISH AND WILDLIFE SERVICE-STILLWATER NWR COMPLEX
Name of Program	OUTREACH AND EDUCATION PROGRAM
Program Age (How long has it been active?)	
Target Audience (Who is the program offered to?)	K-12 STUDENTS; GENERAL PUBLIC, LOCAL COMMUNITY
When Offered (Only at specific times? When requested? Etc.)	SEASONALLY: SPRING WINGS - MAY; SUMMER CANOE/HABITAT TREKS; FALL/WINTER BIRDING TOURS; WETLANDS/WINGS YOUTH WATERFOWL EVENT - FALL/WINTER; EARTH DAY - APRIL; OTHERS WHEN
	REQUESTED BY SCHOOLS, ORGANIZED GROUPS
Desired Outcomes (What do you want people to learn or do? What are the goals?)	RECOGNIZE THE NWRS; VISIT, SUPPORT AND CONSERVE REFUGE RESOURCES; GET OUTDOORS AND DISCOVER NATURAL WORLD; TAKE ACTIVE ROLE IN REFUGE STEWARDSHIP/CONSERVATION EFFORTS; BECOME REFUGE VOLUNTEERS OR FRIENDS MEMBERS
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	VERBAL FEEDBACK; WRITTEN PRE AND POST SURVEYS; ATTENDANCE AND WORD OF MOUTH REFERRALS; REFUGE VISITATION AND INFORMATION REQUESTS; INCREASE IN VOLUNTEER AND FRIENDS MEMBERSHIP
Summary of Outcomes to Date (brief)	WORK IN PROGRESS, SLOW TO GET LOCAL SUPPORT;
Program Funding (How is program funded?)	REFUGE BASE FUNDS; GRANTS THROUGH REFUGE FRIENDS GROUP; REGIONAL FWS COMPETITIVE GRANTS AS AVAILABLE (and awarded)
Contact Person, email, phone	SUSAN SAWYER, VISITOR SERVICES MANAGER 775/423-5128 EXT 228;
Website address	

Carson River Watershed Environmental Education Programs	
Entity	Tahoe-Baikal Institute
Name of Program	Summer Environmental Exchange
Program Age (How long has it been active?)	22 Years
Target Audience (Who is the program offered to?)	Undergraduate, graduate, PhD students and young professionals between the ages of 20 and 36
When Offered (Only at specific times? When requested? Etc.)	Offered annually every summer (program typically runs for 8-10 weeks from June-August)
Desired Outcomes (What do you want people to learn or do? What are the goals?)	The goal of the program is to help train and develop young environmental leaders, to continue to have positive personal and professional connection between the US, Russia and Mongolia and to protect both
	Lake Tahoe and Lake Baikal.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	The program is evaluated annually though program evaluations filled out by participants. These evaluations are analyzed by the staff, program reports are produced and the Programs Committee (staff, board members and program alumni) then takes this feedback into account to design the following year's summer program.
Summary of Outcomes to Date (brief)	There are over 400 student and professional alumni of TBI's exchanges and over 70 restoration, policy and research projects have been done in the US, Russia and Mongolia thanks to TBI's work. A number of our alumni hold prominent leadership roles around the country and the world for organizations like The League to Save Lake Tahoe, the TRPA, USFS International Programs etc.
Program Funding (How is program funded?)	There is a program fee that covers part of the cost, part of the cost is subsidized by a grant from the Trust for Mutual Understanding and the rest os covered by our annual donor campaign.
Contact Person, email, phone	Sarah Buck, sbuck@tahoebaikal.org, 530-542-5599
Website address	tahoebaikal.org

Carson River Watershed Environmental Education Programs	
Entity	Bureau of Land Management - Carson City District
Name of Program	Truckee River Environmental Education Day
Program Age (How long has it been active?)	Six years total. For the first four years, The Nature Conservancy (TNC) and U.S. Fish and Wildlife hosted one event annually. BLM and TNC sponsored an additional event in 2011 and two additional events in 2012 in addition to supporting the U.S.Fish and Wildlife sponsored event.
Target Audience (Who is the program offered to?)	Fourth grade students in Washoe and Lyon counties. At least 50 percent of these students are at Title 1 schools. Our goal is to help the school district move students toward college and career readiness, interest students in natural resource careers, and educate them about the opportunities and challenges inherent in managing their public lands.
When Offered (Only at specific times? When requested? Etc.)	Two times a year by the BLM and TNC. An additional event is offered when the U.S. Fish and Wildlife Service has enough staff to support an event without BLM assistance.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	We hope to interest students in Truckee River habitat conservation, interest them in natural resource careers, and meet teacher goals by introducing students to river and wetland ecosystems and the scientists who work to sustain the health, diversity and productivity of our public lands.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	BLM staff meet with participating teachers and staff annually to assess value and ascertain what worked well and what we can do better. We modify the program based on these comments. We utilize a reward:objective matrix to ensure that the program meets BLM goals and objectives.
Summary of Outcomes to Date (brief)	Prior to 2011, about 200 children a year were served at one event annually. In 2011, the BLM funded and largely staffed an additional TREE event serving an additional 240 children, a 100% increase. In 2012, we reached about 640
Program Funding (How is program funded?)	A BLM fund for work on the Truckee River in the Mustang/102 Ranch corridor.
Contact Person, email, phone	Deb Snyder, dsnyder@blm.gov, 775-885-6080
Website address	http://www.blm.gov/nv/st/en/fo/carson_city_field.html

Carson River Watershed Environmental Education Programs	
Entity	Nevada Division of Forestry
Name of Program	Urban and Community Forestry Program
Program Age (How long has it been active?)	since 1991
Target Audience (Who is the program offered to?)	All State of Nevada residents
When Offered (Only at specific times? When requested? Etc.)	Occasionally, small subgrant awards are given for tree planting, urban forest inventory, management, and tree care, general environmental education with trees and forests as a focus.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Improved urban/sub-urban tree care and management, increased tree canpoy cover, increased education on the benefits trees provide to society, industry.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Each year, we submit program evaluations to the US Forest Service, which provides funding for the program.
Summary of Outcomes to Date (brief)	Increased tree planting, education for ISA certified arborists, general outreach and techincal assistance to the State of Nevada residents, recognition of large state tree specimens, Tree City USA status for 13 communities, funding for state urban forest inventories and canpopy studies
Program Funding (How is program funded?)	USDA Forest Service
Contact Person, email, phone	David Howlett, Ph.D., Urban and Community Forestry Program Coordinator, 775-684-2506, dhowlett@forestry.nv.gov
Website address	http://forestry.nv.gov/forestry-resources/urban-and-community-forest/

Carson River Watershed Environmental Education Programs	
Entity	Sierra Nevada Journeys
Name of Program	Walking our Watershed
Program Age (How long has it been active?)	4 years
Target Audience (Who is the program offered to?)	3rd grade
When Offered (Only at specific times? When requested? Etc.)	When requested
Desired Outcomes (What do you want people to learn or do? What are the goals?)	This unit (3 classroom sessions, 1 day at the river) is an introduction to the concept of a watershed. Students will learn where their water goes and how it gets there, and will participate in problem-solving activities to explore new ways to conserve and protect their watershed. Students will do hands on activities based on the water cycle, weather, water quality testing, and the concept of a watershed.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	Pre and post student assessment, teacher evaluations
Summary of Outcomes to Date (brief)	Average of 60% growth from pre to post
Program Funding (How is program funded?)	Grants and program fees
Contact Person, email, phone	Sean Hill, sean@sierranevadajourneys.org
Website address	www.sierranevadajourneys.org

Carson River Watershed Environmental Education Programs	
Entity	Nevada State Museum
Name of Program	Wild and Wonderful Wetlands
Program Age (How long has it been active?)	about five years
Target Audience (Who is the program offered to?)	elementary students, grades 3-5
When Offered (Only at specific times? When requested? Etc.)	best in the late spring to early fall since we need to collect tule and cattail
Desired Outcomes (What do you want people to learn or do? What are the goals?)	We want students to recognize the value of wetlands: provide habitat for plants and animals, absorb and slow flood waters, absorb excess nutrients and pollutants, and provide recreation areas. They will also learn how American Indians used parts of cattail and tule for food, as well as for making boats, baskets, cordage, mats, and duck decoys.
Evaluation Design (How do you evaluate the program's effectiveness? How often?)	We ask teachers to fill out an evaluation form. We have over a dozen nature programs to choose from so Wild and Wonderful Wetlands might be utilized only a few times per year.
Summary of Outcomes to Date (brief)	On a scale of 1-5, the average rating is 4.7
Program Funding (How is program funded?)	Our museum education fund is based upon donations from schools, volunteers, and the public; we have a small partnership grant from the Carson City School District (21st Century Grant).
Contact Person, email, phone	Deborah Stevenson, dstevenson@nevadaculture.org
Website address	museums.nevadaculture.org

Carson River Watershed Environmental Education Programs	
Entity	Nevada Department of Wildlife
Name of Program	Wildlife Education Drogram
Program Age (How long has it been active?)	Wildlife Education Program The Nevada Department of Wildife has been involved in Education efforts almost since the inception of the agency in 1877. One of the goals of the first Fish Commissioner, H.G. Harker was to provide information and education regarding fisheries management issues. In the 1950's the Department, then called the Fish and Game Commission, wrote and implemented a Wildlife Education Curriculum across the state. In 1983, the Agency hired an Education Coordinator to implement Project WILD, a curriculum designed with the cooperation of 11 Western States, called the Western Region Environmental Education Council. This is now called the Council for Environmental Education and produces Project WILD, Aquatic WILD and Growing WILD. In 1988, the Department entered into a Interlocal Agreement with the City of Reno to construct the Oxbow Nature Study Area. This site, located along 22 acres of Truckee River in the city of Reno, is now one of the best known interpretive sites along the Truckee River.
Target Audience (Who is the program offered to?)	The ONSA targets school children K-12 in both formal and non-formal educational programs. School groups visit the site on an almost daily basis throughout the school year. Non-formal education takes place on a daily basis through a variety of interpretive media, including signs, guided walks by volunteers and staff and other presentations. Historically, Project WILD and Aquatic WILD classes have been taught at the ONSA to both in-service and pre-service educators. In 1994 the Department entered into an Interlocal Agreement with the Washoe County School District to build the Verdi Nature Center and Community library. This site is located next to Verdi Elementary School in Verdi and provides both formal and non-formal education opportunities to school groups, public groups and other interested parties. A 1,200 square foot facility and an approximately 1 mile loop nature trail are maintained by the Department.
When Offered (Only at specific times? When requested? Etc.)	The Oxbow Nature Center and Verdi Nature Center are open year round. School groups are requested to schedule their visits so the facility can be staffed. At this time the Department does not offer Project WILD or Aquatic WILD classes due to budget cuts.
Desired Outcomes (What do you want people to learn or do? What are the goals?)	Students are exposed to a variety of curricula based on the requests by teachers. All subject matter correlates to State Department of Education standards. Additionally, new curricula is being developed that will correlate with national core standards as well as state standards.
Evaluation Design (How do you evaluate the program's effectiveness? How often?) Summary of Outcomes to Date (brief)	Evaluation has consisted of pre and post visit surveys, and testing. At this time investigation is being conducted on appropriate evaluation methodology and criteria. Students and visitors to these sites should be followed longitudinally for retention and evaluation purposes. At this point, outcomes are anecdotal and not research based. It is the goal of our programs to create a more informed and supportive constituency that supports wildlife management in the state. Anecdotally, we can say this is occurring with our visitors. However, students and other visitors are not followed longitudinally nor are they offered pre and post visit surveys. Budgets
Program Funding (How is program funded?)	at this time preclude this. Historically, the ONSA and staff were supported by grants utilizing Sportsmen dollars. A number of years ago these programs were shifted to General Fund revenue. The significant reduction in General Fund has all but eliminated our education programs.
Contact Person, email, phone	Kim Toulouse, toulouse@ndow.org 775-688-1893
Website address	www.ndow.org