

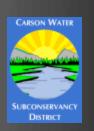
STEALTHY APPROACHES TO BUFFER EDUCATION — WHAT WOULD Q THINK?

Susan Donaldson and Steve Lewis, University of Nevada Cooperative Extension Genie Azad, Carson Water Subconservancy District Mary Kay Wagner, Nevada Division of Environmental Protection

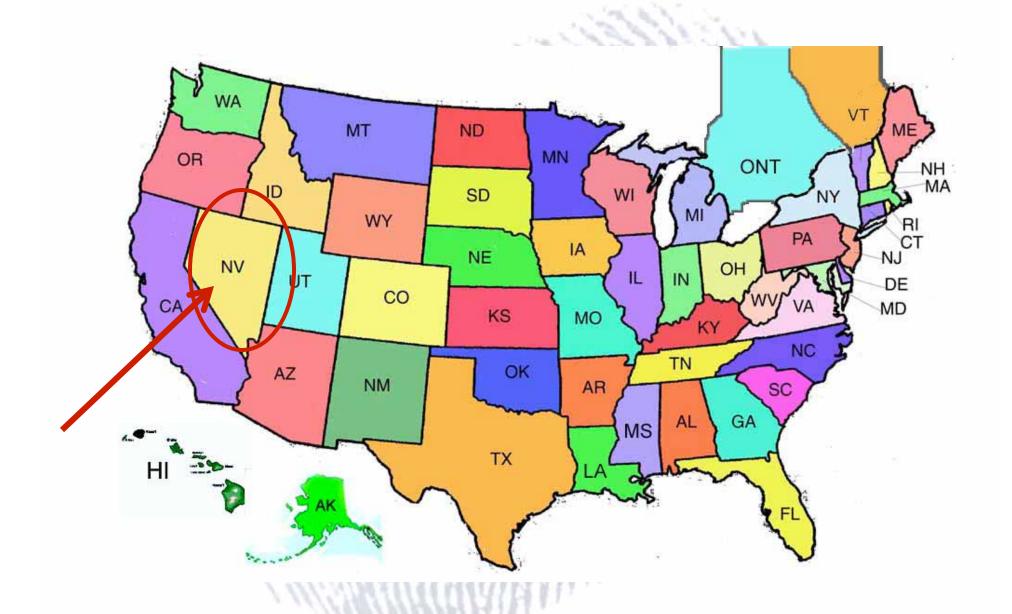






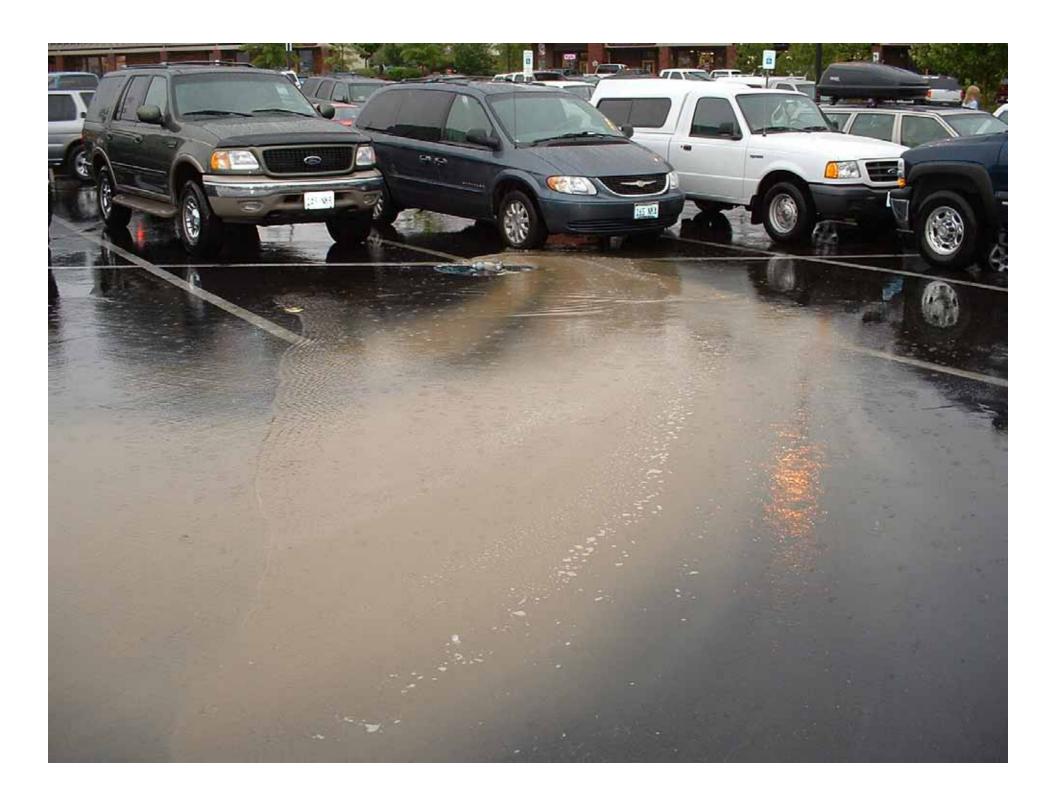


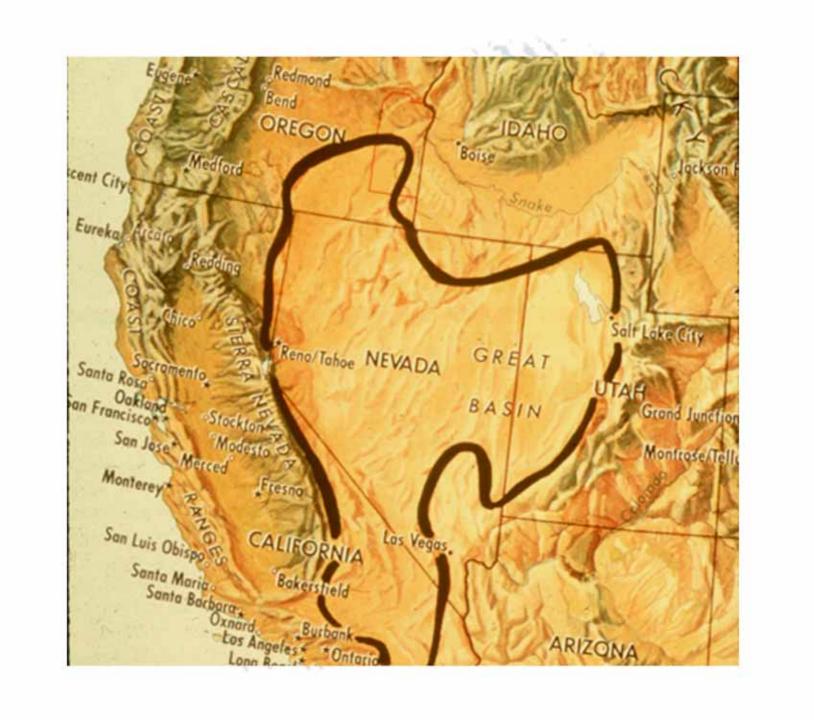










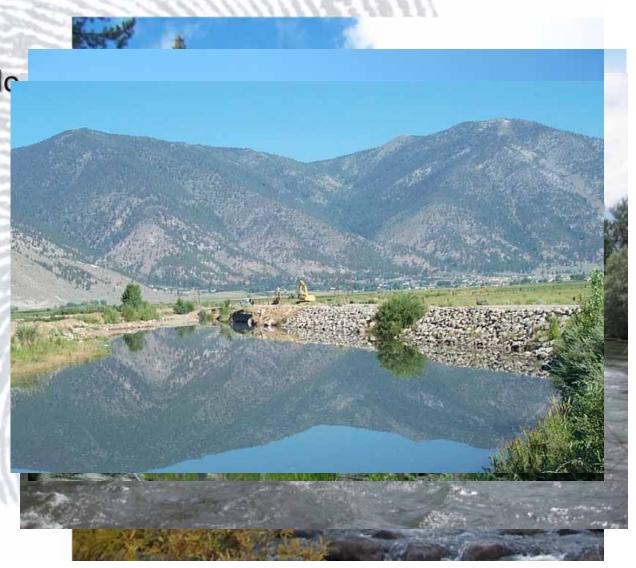


OUR ASSIGNMENT...

- Analyze barriers to riparian buffer protection
- Infiltrate the Internet and communities with information
- Use social networking and \$\$\$ to intrigue youth
- Ply small groups with food and drink to gauge their interests and values

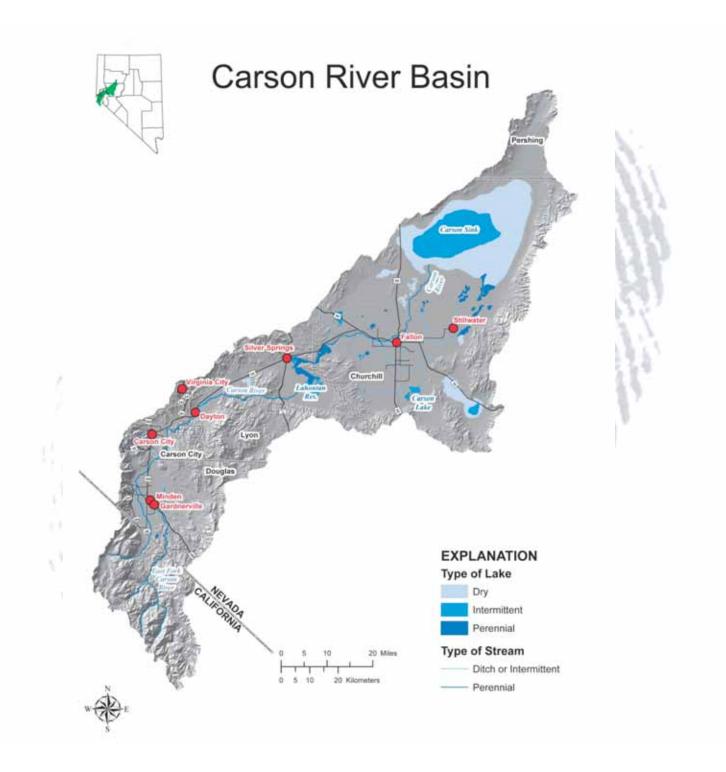
WHAT'S THE DEAL WITH WESTERN RIPARIAN AREAS?

- Big watersheds
- Different geomorpholo
- Different vegetation
- Different climate
- Different flows
- Different capabilities



- Case study done by Master's degree student Katie Mann
- Douglas and Lyon Counties (Carson River watershed, 8 & 9)
- Mail survey of registered voters
- n = 376 (Douglas) and 359 (Lyon)

DETERMINING BARRIERS TO BUFFER PROTECTION



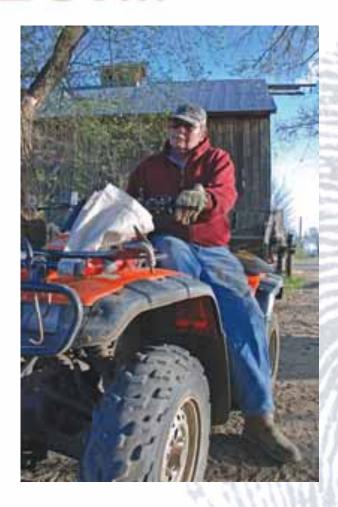
WHAT DID WE LEARN

- Most respondents consider urban development a threat to river and its riparian resources
- Residents support agricultural land preservation
- Values:
 - Recreation (62-85%)
 - Water quality (77%)
 - Water for ecosystem health (60%) and wildlife habitats (59%)





BUT...



- Respondents tended to be:
 - Middle-aged (mean age 56)
 - Landowners (90%)
 - Educated with at least some college
 - Long-term county residents (10+ years)
- What about everyone else???

INFILTRATE THE WEB & COMMUNITIES

- Buffer website
- Searchable plants database
- Resources and model ordinances
- Presentations at planning commissions, river groups









Quick Links:

Video Contest

Workshops

Upcoming Events

Partners

Photo Gallery

Local Low Impact Development Features

Low Impact Development Plant Database

Publications

Riparian Buffers

Resources and Links

Seminars

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Riparian Buffers

What is a buffer?

A buffer is a transition zone between two very different land types or land uses. A riparian buffer located along the margins of a river, stream or other water body, separates human-focused land uses, such as agriculture or development, from the water body. Riparian vegetation thrives on the abundant water near the channel and provides habitat for wildlife. Lush riparian vegetation and open space help make buffers tough and effective.

Prior to settlement, cottonwood trees, willows or sedges thrived along flowing waters in the Great Basin. The vegetation protected banks from erosion and caused

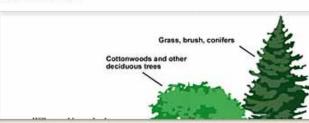
www.unce.unr.edu/nemo



A healthy riparian buffer has water-loving plants like these willows.

flows to slow down, allowing floodwaters to soak into the soil, recharge aquifers and reduce downstream floods. The vegetation also shades the water, helping to keep it cool. Well-vegetated channels remain narrow and clean, providing a variety of fish habitats, high-quality water and a place of stability and beauty.

- Why protect riparian buffers?
- How do buffers help protect communities?
- How wide should a buffer be?
- Mihat hopofita do midor



Apache plume

Botanical Name: Fallugia paradoxa

Can be used in these types of LID features:

- Vegetated swales and large-scale features YES
- Bioretention cells/ rain gardens/small-scale features YES
- Green roofs YES

Location in feature: Upland, Slope

Plant characteristics:

- Native Status: Native
- # Height: 2-6' shrub
- Mature shape or form: Open, rounded
- Flowering time: Late Spring to Summer
- # Flower color: White
- High potential to be weedy or invasive
- Poor commercial availability

Water issues:

- Annual water requirement (in inches): 4-20
- Drainage requirement: Requires moderate drainage
- Poor tolerance of prolonged saturation
- Poor tolerance of periodic flooding

Soil texture adaptation:

- Poorly adapted to clay or fine-textured soils
- Highly adapted to medium-textured soils
- # Highly adapted to coarse-textured soils

Other tolerances:

High drought tolerance





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Click on photos to enlarge

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Photos: Photos © Al Schneider, www.swcoloradowildflowers.com

> that ovided We've



City garden cuts pollutants to the river.

CityofReno 211 videos ≥ Subscribe

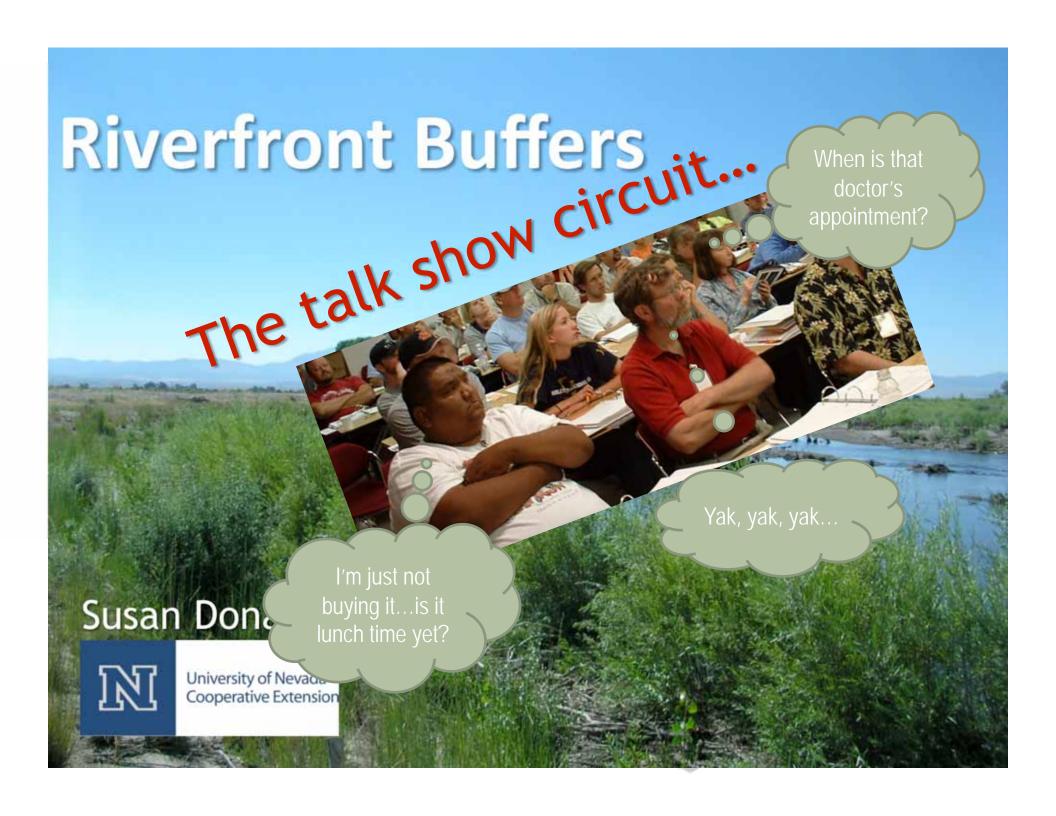


CityofReno | June 10, 2010

The City completed a rain garden at the McKinley Arts and Culture Center that...

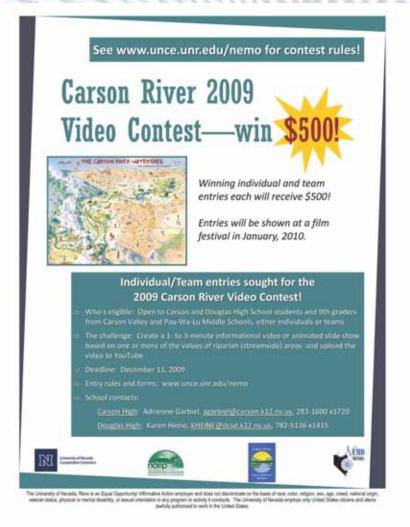


100 ≥ views



LET'S TRY SOMETHING NEW! CAN WE REACH TEENS USING SOCIAL NETWORKING?

Carson River
 Video Contest
 2009







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Keep Streamsides Greener, Keep Water Cleaner

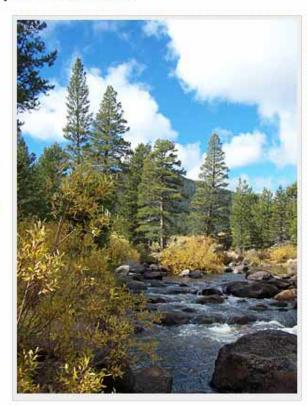
2010 Carson River Video Contest

The Theme: How Carson River riparian areas benefit you and your community, and how to get people involved in riparian area preservation.

The Challenge: Create a 1- to 3-minute informational video based on one or more of the values of riparian (streamside) areas. Creatively show us how you would help people in your community understand why riparian areas are important to protect, and what they can do to help. The video must focus specifically on the Carson River and must include an "action" message that urges people to do something to help preserve, protect or restore riparian areas.

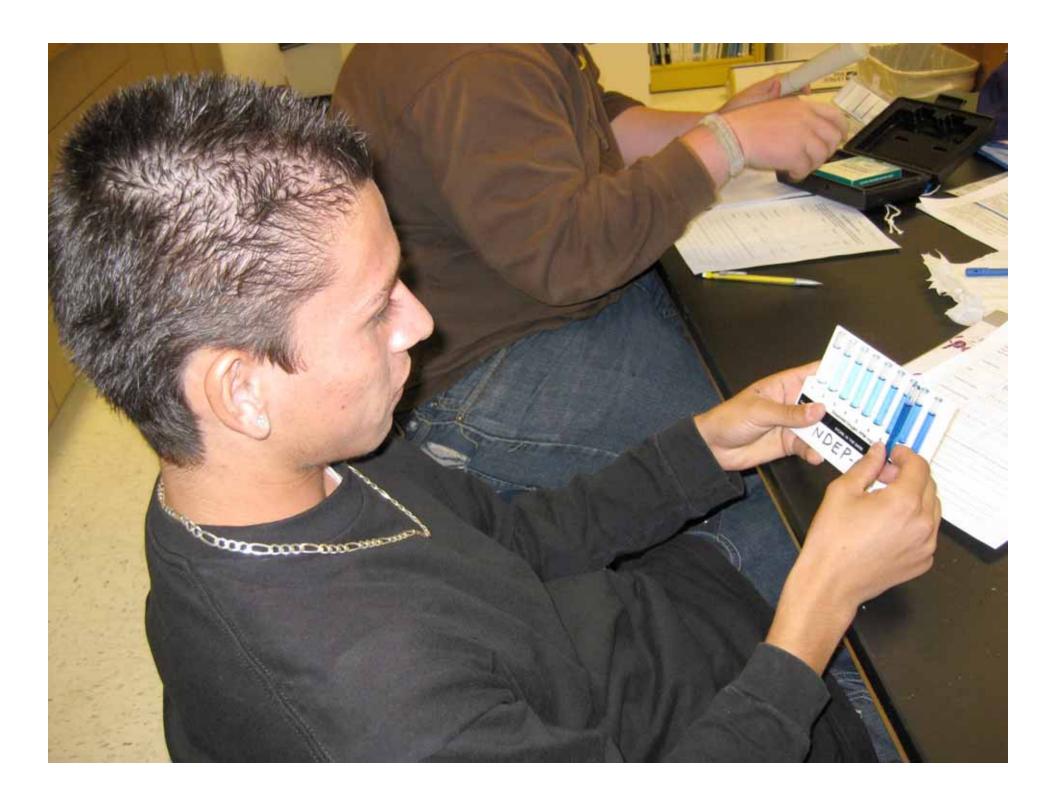
Who's Eligible: The contest is open to middle school, high school and community college students from a school located in the Carson River Watershed.

Homeschoolers are also welcome to enter. You may enter as an individual, a team of 2 to 4 students, or a class. See the contest rules for a list of eligible schools.



View the 2009 video contest entries at www.youtube.com/group/CarsonRiver2009

Entry Materials















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Current News Newsletters

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See Also:

UNCE Publications Needs Assessments

Students enter videos into watershed contest

Poited 12/18/2009

The public is invited to go online to view and rate student multimedia projects that explore how Carson River riparian areas benefit the community and need to be protected by the public.

The video and slide-show projects are contestants in the Carson River Coalition Education Working Group's "Keep Streamsides Greener, Keep Water Cleaner" contest, which will award a prize of \$500 in each of four categories.

The contest was open to students in the ninth through 12th grades of Carson and Douglas high schools and Carson Valley and Pau-Wa-Lu middle schools. The entries had to be one to three minutes long.

Although the award winners will be selected privately by a panel of judges, the public is welcome to watch and rate the entries at www.youtube.com/channel/CarsonRiver2009. Winners will be announced in January 2010.

The working group includes the Carson Water Subconservancy District, the Nevada Division of Environmental Protection, University of Nevada Cooperative Extension and River Wranglers. Prizes will be awarded to the best individual video, team video, individual animated slide show and team animated slide show. Also, each winning entry's sponsoring teacher will earn \$100-

Although each entrant or team had a sponsoring teacher to encourage participation and provide general guidance, students developed their own concepts and entries.

Dr. Susan Donaldson, a water quality expert with Cooperative Extension and a contest organizer, said the contest gives students an appreciation of how riparian areas provide important wildlife habitat and help keep the river clean by filtering runoff.

"Healthy, diverse riparian areas store water and help reduce floods, filter water and keep it cool and provide a place for recreation," said Donaldson, who takes field trips to the river with

University of Nevada Cooperative Extension











Film festival to feature 13 student watershed projects

Posted 1/12/2010

Winners of the Carson River Coalition Education Working Group's "Keep Streamsides Greener, Keep Water Cleaner" contest will be announced at the Carson River Film Festival 6:30-8:30 p.m. Jan. 28 at the Carson Oty Shenff's Building at 911 E. Musser St.

The film festival is free and will feature an awards ceremony for the students who entered videos and slide shows. The short, student-made videos show why riparian areas are important to protect and what residents can do to help protect them. First place cash prizes of \$500 will be awarded to student films in each of four categories. The event will also feature a film on stream restoration.



A couple of Carson High students take a sample of Carson River mater while studying the river ecosystem last year

The contest was open to students in the ninth through 12th grades of Carson and Douglas high schools and Carson Valley and Pau-Wa-Lu middle schools. The entries had to be one to three minutes long.

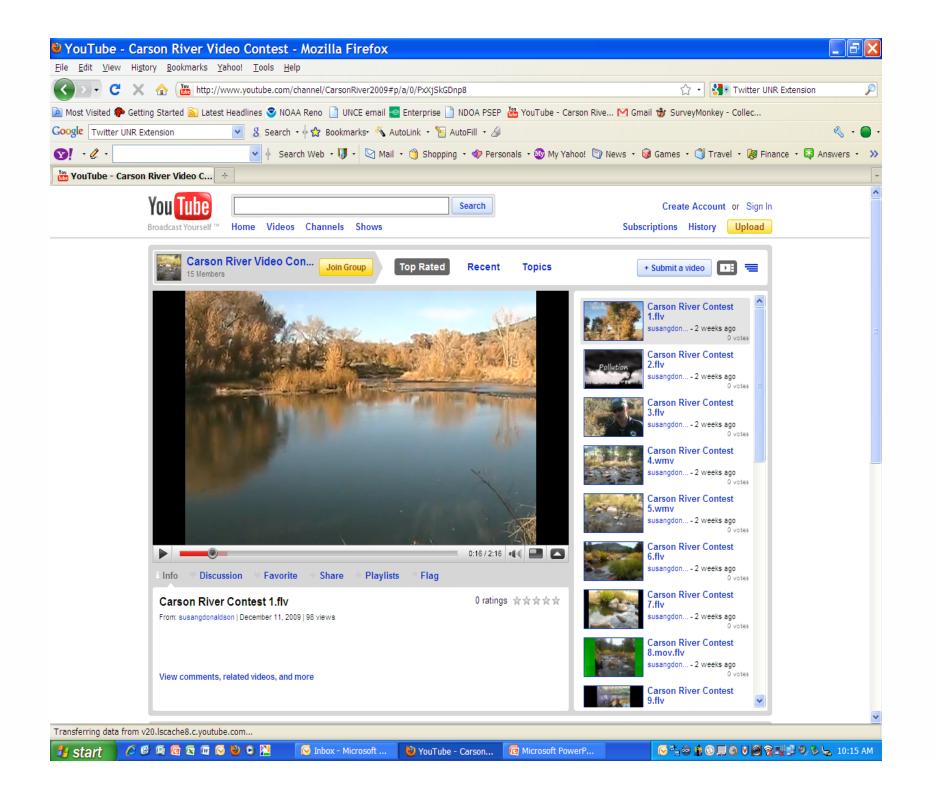
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The Carson River #13.wmv





susangdonaldson — March 30, 2010 — This video received the first-place award in the 2009 Carson 😾 River Video Contest, animated slide show category.





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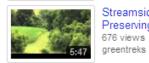








Riparian magic 182 views tcraddoc



Streamside Forest Buffers Preserving Water Quality 676 views



StormwaterPA: Riparian Buffer Restoration

173 views greentreks



Riparian Buffer Spot

297 views NCCleanWater



Carson River Contest 12.flv

90 views susangdonaldson



The Carson River Project

130 views natureconservancy



Sustainable Ranching in the Carson River Watershed

225 views natureconservancy



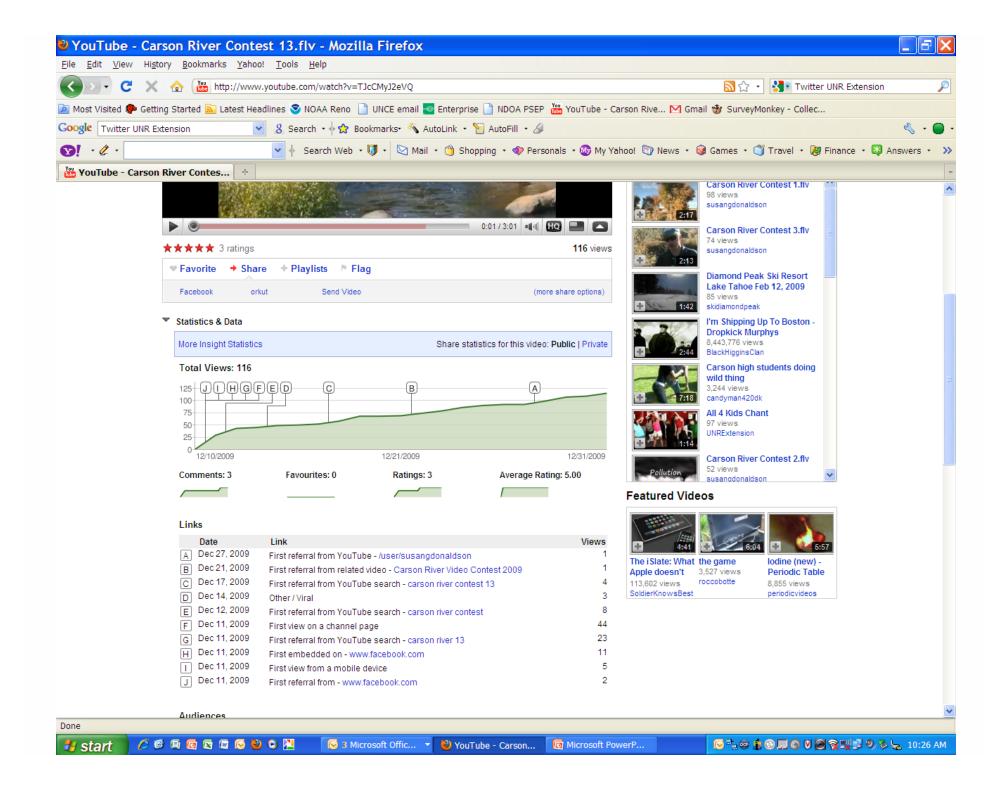
Fly Fishing East Fork Carson River

8.291 views lastminuteangler

All Comments (0) see all



Crossing the Carson River



Total views of this channel: 630 In the selected range and region: 445





Zoom



9/20/09 Summary

Views

How many views are my videos getting?



My videos

12/16/09 - 12/29/09 Selected region: all

Video	Views (% of total)	Attention
Carson River Contest 1.flv	15.7	
Carson River Contest 13.flv	14.2	
Carson River Contest 3.flv	9.7	
Carson River Contest 2.flv	7.9	
Carson River Contest 7.flv	7.0	
Carson River Contest 4.wmv	6.5	
Carson River Contest 10.flv	6.5	
Carson River Contest 6.flv	6.3	
Carson River Contest 12.flv	6.3	
Carson River Contest 9.flv	5.2	

Demographics

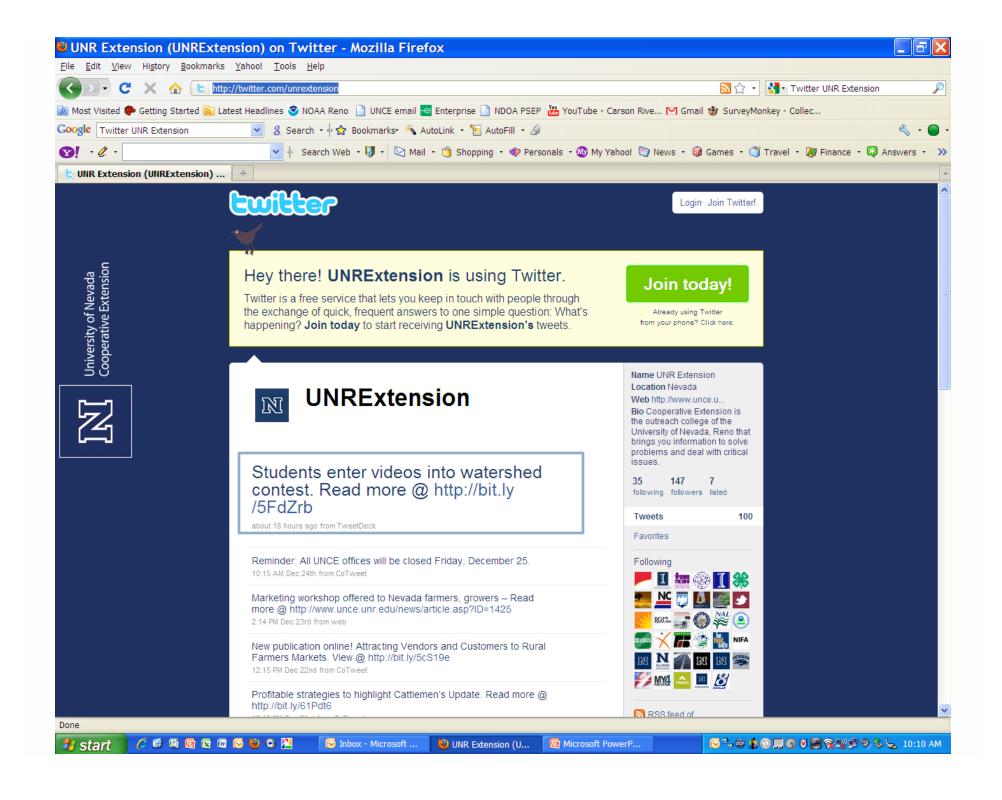
Who is watching the videos in this channel?

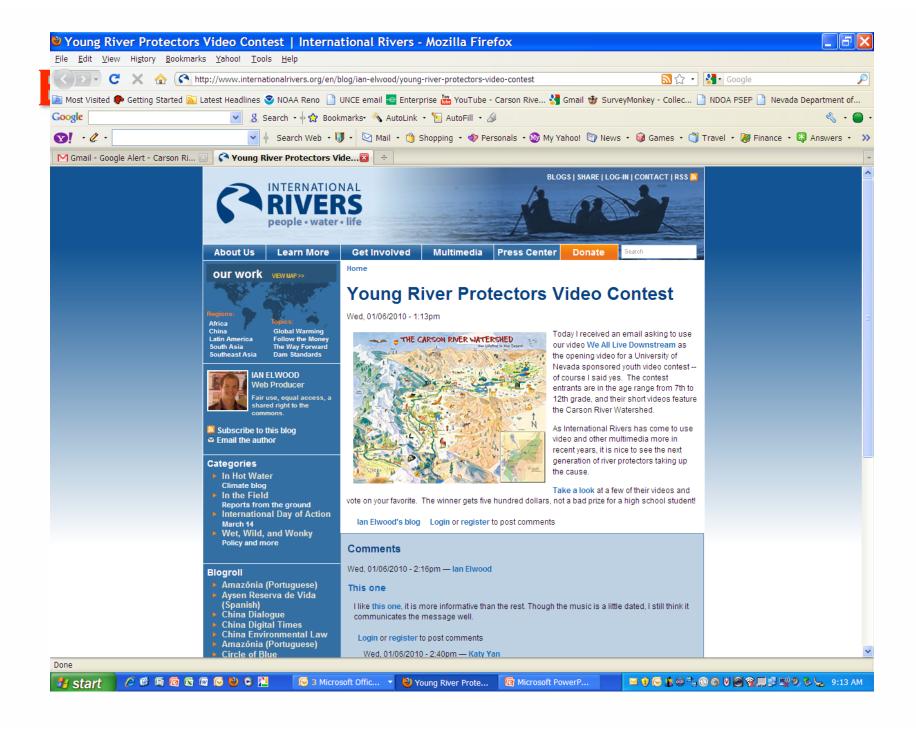


Popularity

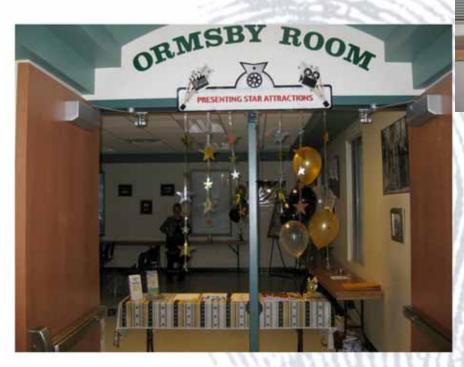
How popular are my videos relative to those of other uploaders?







THE FILM FESTIVAL









WHAT WORKED

- Students were engaged, some visiting the river for the first time
- 13 videos were submitted
- The film festival was a huge success
- Publicity was good
- Funder was happy
- We have money to do it again this year!

WHAT DIDN'T WORK

- Not as many submissions as we'd hoped
- Quality was highly variable since it became a class requirement
- Teacher had to help make PowerPoints into videos and post them to YouTube
- None of the videos really included an effective action message



ASSESSING ATTITUDES AND VALUES

- Focus groups ongoing, September through November
- Questions:
 - When you hear the words "riparian buffer" what comes to mind?
 - Do you think that property adjacent to the river should be used differently than property not adjacent?
 - What do you value about river front property?
 - What would you like to know about river front lands?
 - What should we try to accomplish in managing river front lands?
 - What keeps us from accomplishing these things?
 - What would you like river front lands within the Carson Valley to look like when your great-grandchildren live here?
 - Are river front lands valuable to the local or regional community? If so, how and if not, why not?

NEXT STEPS

- Watershed-wide video contest
- Conduct focus groups and analyze content
- Design and deliver (hopefully) effective programs about riparian buffers
- Keep trying to protect our remaining buffers and floodplain areas

MAY 16 2005