

Napa County Watershed Symposium
May 22, 2008

**Watershed Information Center
& Conservancy (WICC)**
of Napa County

R. Patrick Lowe
Deputy Planning Director
Napa County Conservation,
Development & Planning Dept

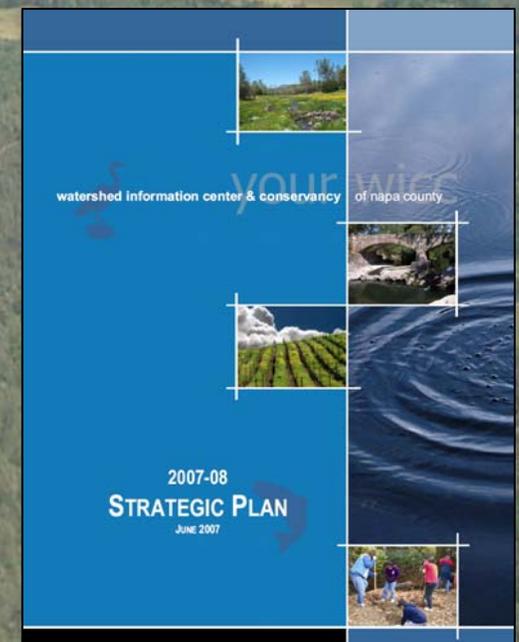
www.napawatersheds.org



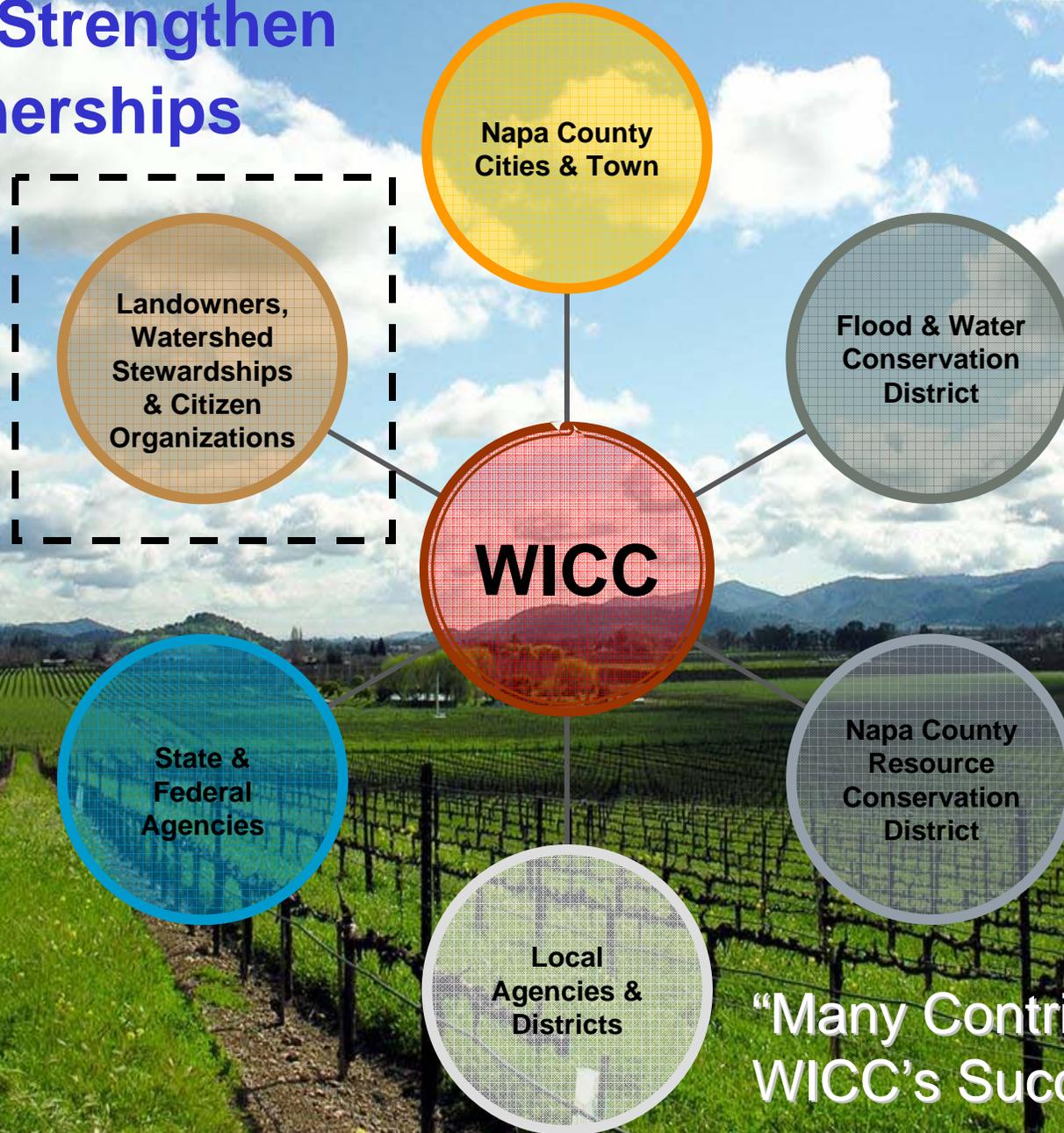
WICC Mission

“To educate and support the community in its efforts to maintain and improve the health of Napa County’s watershed lands.”

- Vision 2025
- Guiding Principles
- Goals & Strategies



Build & Strengthen Partnerships



“Many Contribute to the WICC’s Success...”

Developed WICC WebCenter



watershed information center & conservancy of napa county

your wicc

LOGIN HOME RECENT INFO PROJECTS LIBRARY DISCUSSIONS CALENDAR MAPS POLLS SITE MAP

Stay Informed!
Get Involved!
Read about login benefits [go](#)

Profile your Watershed Group
Learn about this free service [go](#)

DISCOVER & LEARN
Select a subject

REPORTS & DATA
Select a subject

PROJECTS & ACTIVITIES
Select a subject

PEOPLE
Select a subject

ABOUT WICC
Select a subject

welcome
to your **WICC community portal**, established to guide and support community efforts to maintain and improve the health of Napa County's watershed lands.

News ([see news archive](#))

- [Creek cleaners can dispose of debris at no charge](#)
- [Salmon tags to reveal if hatcheries help or hurt](#)
- [Winery Removes Fish Barrier in Napa](#)
- [Watershed Handbook Online](#)
- [More droughts, less water -- our future depends on adapting to scarcity](#)
- [Easy steps to beat water 'crisis'](#)

Events ([more upcoming events](#))

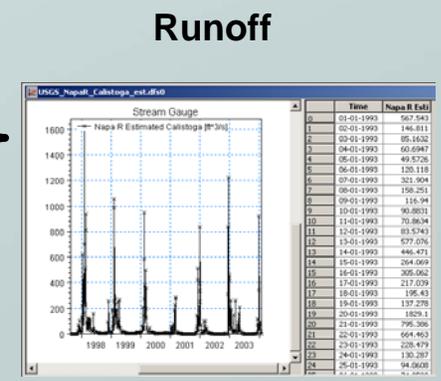
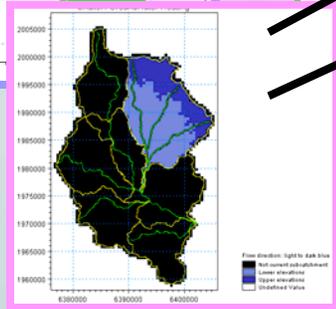
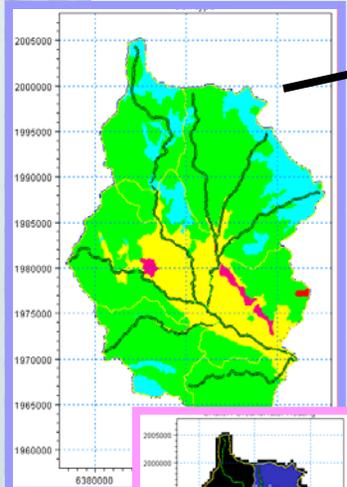
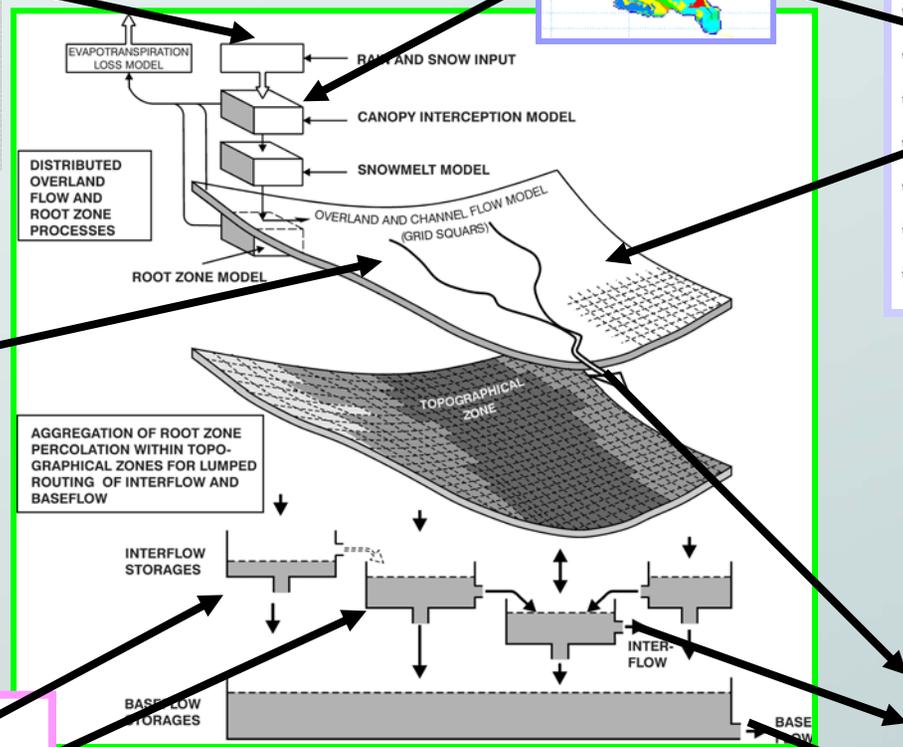
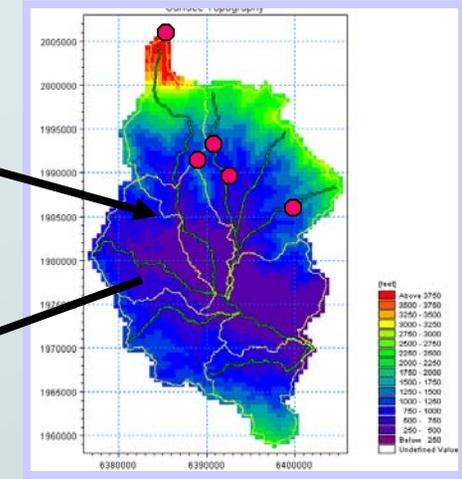
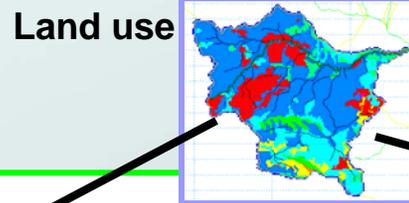
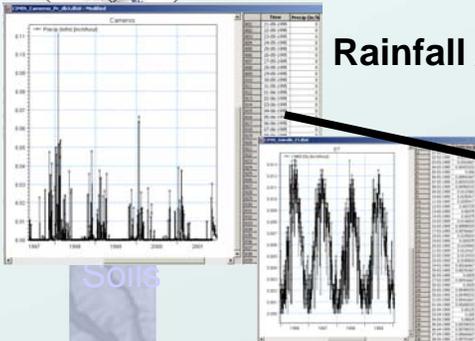
- [Lake Berryessa Water Education Program - Suisun Elementary \(May 15, 2008\)](#)
- [Oat Hill Mine Trail Work-Party Weekend \(May 16, 2008\)](#)
- [Ticks, lizards, squirrels, and Lyme disease \(May 18, 2008\)](#)
- [Friends of the Napa River Open House \(May 20, 2008\)](#)
- [Napa County Watershed Symposium \(May 22, 2008\)](#)

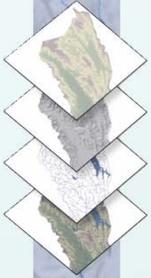
--> NAPA COUNTY WATERSHED SYMPOSIUM <--

---> SAVE THE DATE: May 22, 2008; 8:30AM-3PM, Copia, Napa CA <--- This symposium will bring together local natural resource agencies and nonprofit groups, watershed stakeholders, and interested citizens from around Napa County to learn about activities that are improving the health and sustainability of watersheds throughout the county. Hear about issues facing Napa County's watershed in the past, present, and future! The symposium will feature: 4 presentations about Napa County's fascinating past, more than 30 local watershed organizations presenting their current work, 5 expert panelists describing their vision of Napa Co's future. Field trip & open house will follow. Register by May 14 to reserve your seat and lunch! For details and to [Learn](#)



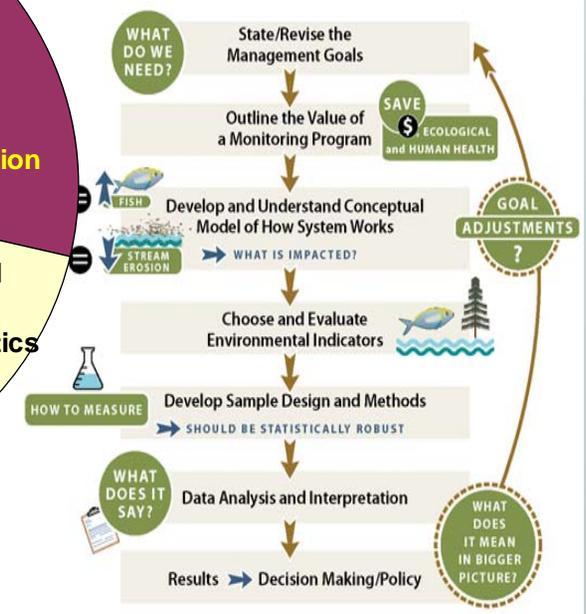
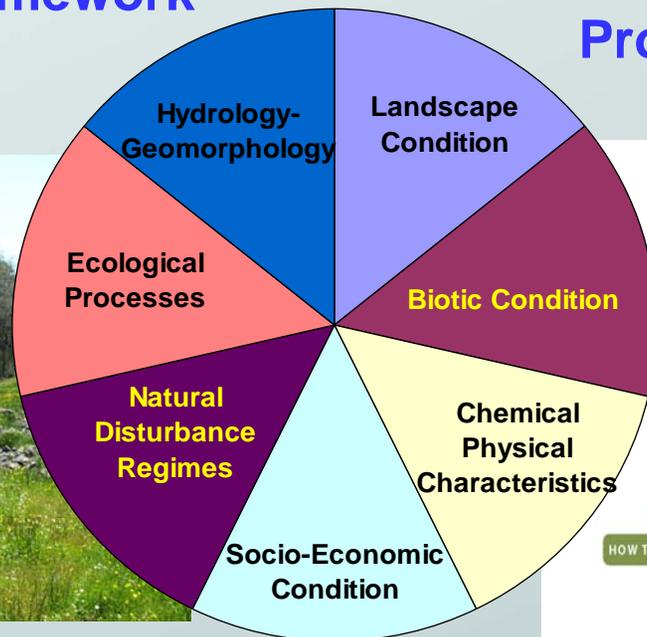
Watershed Health: Data Collection

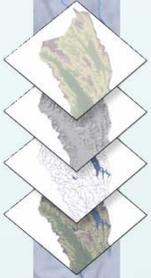




Watershed Health : Assessment

- Provide Recommendations to the Board of Supervisors
- Developing a Watershed Assessment Framework
- Watershed Monitoring Program Development

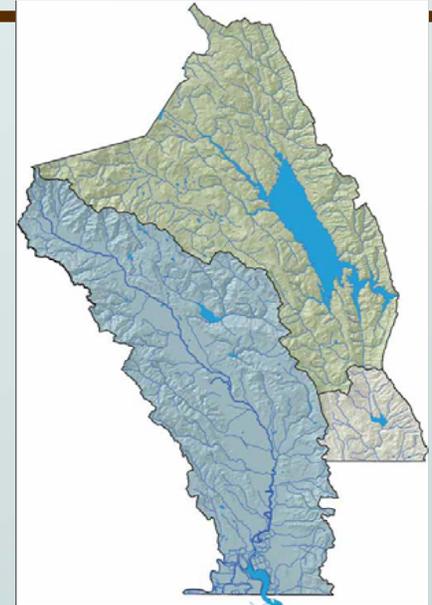




Improve Watershed Health

Support Restoration Projects :

- Napa River/Rutherford Restoration
- Zinfandel Bridge Fish Passage Barrier



RUTHERFORD DUST SOCIETY NAPA VALLEY

Rutherford Dust Restoration Team Napa River Project

[[History](#) | [Facts](#) | [Goals & Accomplishments](#) | [Conceptual Plan](#) | [Meetings](#) | [Monthly Updates](#)]

Monthly Updates:

Co-chairs Davie Pifia and John Williams, and RDRT consultant Ellie Insley, have been working diligently to make the RDRT project a great success for the entire community. Below is a summarized list of key meetings and events.

October 2004

- October 16, 2004: Ellie Insley and Andy Col River restoration project at the Society for E Conference. The presentation was very well projects presented, primarily because this is extensive size and scope with significant res
- October 12, 2004: Matt Kondolf, a promine toured parts of the river with Mike Napolita Control Board, Todd Adams of the Flood C fisheries biologist with the Resource Conserv to determine locations for monitoring Chino the river this winter. The RDS has hired a c cross sections of the river where the salmon that will tell us what are the optimum condit information will help us prepare the river res Sutter Home, Frog's Leap, Honig, Round P Quintessa and Sawyer for giving us permis We should begin to see the salmon in the riv

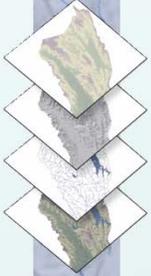


Education & Outreach

- Support Watershed Awareness Month
- Provide Updates to Elected Officials
- Support Watershed Publications & Outreach
- Support the Napa River Historical Ecology Project (SFEI)



Historical Map of Napa County, date unknown
Source: Late Harvest, Napa County Historical Research Project



Join us at the WICC!

Visit the website for more information:

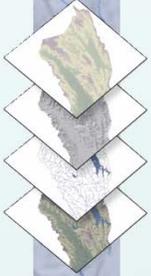
<http://www.napawatersheds.org>

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WICC Board Secretary
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rlowe@co.napa.ca.us

Jeff Sharp
Watershed Coordinator
707-259-5937
jsharp@co.napa.ca.us



A Tour of our Watersheds.....



Napa Sustainable Winegrowing Group

Remi Cohen



Napa Sustainable Winegrowing Group

(founded 1995)

Mission Statement

The mission of NSWG is to identify and promote winegrowing practices that are economically viable, socially responsible, and environmentally sound.

www.nswg.org

NSWG Program

Monthly Grower Forum



Monthly Grower Education



English & Spanish Seminars



Community Outreach



Free Educational Material Online

www.nswg.org

Natural Resource Conservation Service

Kelly Gin

USDA-Natural Resources Conservation Service



We provide technical consultative services primarily with landowners free of charge to protect and conserve our resources in partnership with Resource Conservation Districts nationwide.





Design & Application



Cover Crop



Streambank Protection



Wildlife Enhancement



Grassed Roadside Ditch

The Land Trust of Napa County

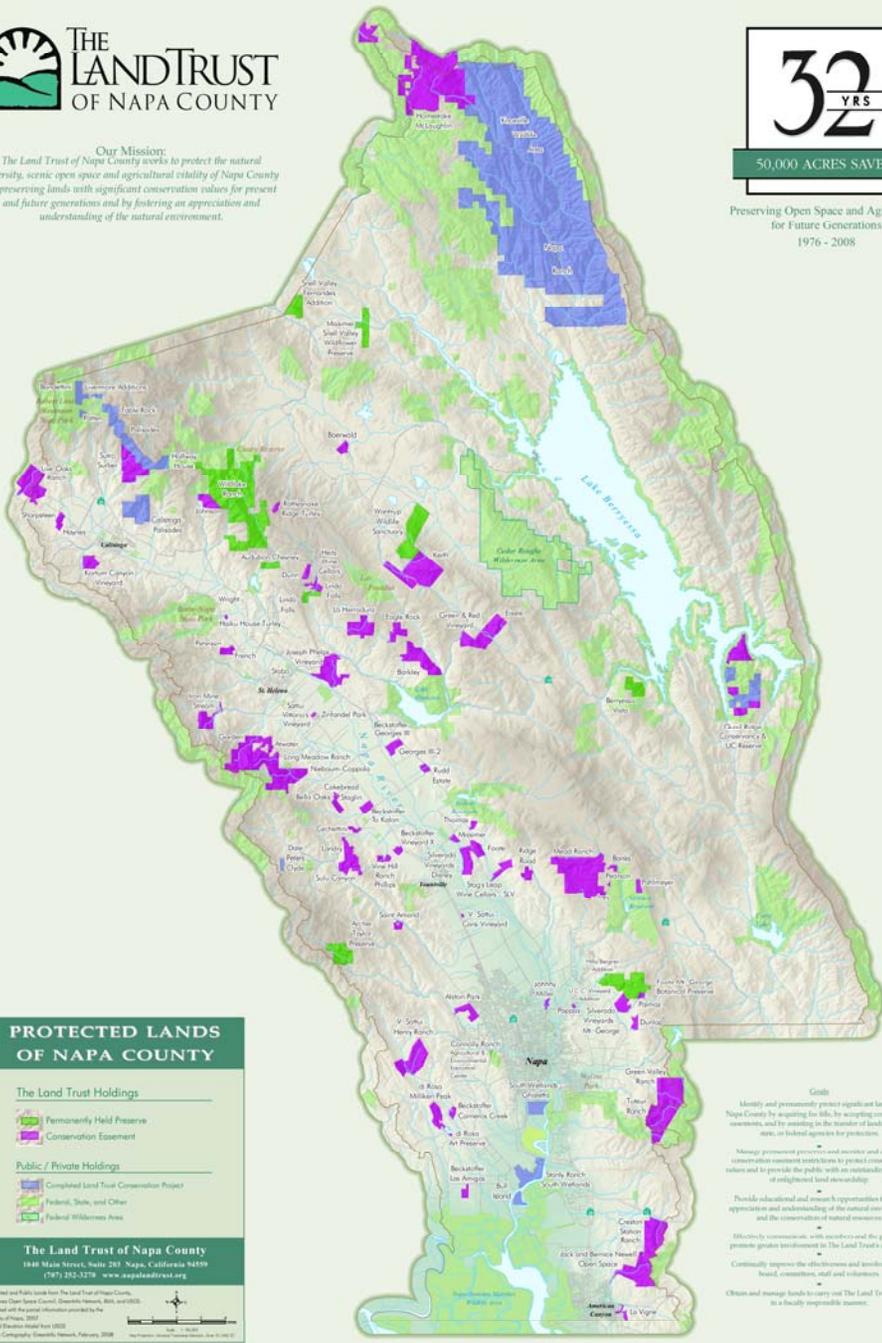
John Hoffnagle



Our Mission:
The Land Trust of Napa County works to protect the natural diversity, scenic open space and agricultural vitality of Napa County by preserving lands with significant conservation values for present and future generations and by fostering an appreciation and understanding of the natural environment.

32
 YRS
 50,000 ACRES SAVED

Preserving Open Space and Agriculture
 for Future Generations
 1976 - 2008



PROTECTED LANDS OF NAPA COUNTY

The Land Trust Holdings

- Permanently Held Preserve
- Conservation Easement

Public / Private Holdings

- Completed Land Trust Conservation Project
- Federal, State, and Other
- Federal Wilderness Area

The Land Trust of Napa County
 1848 Main Street, Suite 207, Napa, California 94559
 (707) 252-3278 www.landtrust.org

Holdings and Public Lands from The Land Trust of Napa County. Includes Open Space Council, Openlands Network, BSA, and BWS. Updated with the most information provided by the County of Napa, 2007. Digital Elevation Model from USGS. GIS Cartography: Geographic Network, February 2008. Photo Credits: www.flickr.com/photos/landtrust/24673262/

- Goals**
- Identify and permanently protect significant lands in Napa County by acquiring fee title, by accepting conservation easements, and by assisting in the transfer of lands to local, state, or federal agencies for protection.
 - Manage permanent preserves and monitor and restore conservation easement landholders to protect conservation values and to provide the public with an outstanding example of enlightened land stewardship.
 - Provide educational and outreach opportunities to better appreciate and understand the natural environment and the conservation of natural resources.
 - Effectively communicate with members and the public to promote greater involvement in the Land Trust's activities.
 - Continually improve the effectiveness and involvement of land, conservation, staff and volunteers.
 - Obtain and manage lands to carry out The Land Trust's work in a fiscally responsible manner.





Wildlake, Jake Ruygt

Napa County Department of Environmental Management

Steve Lederer



County Support of Creek Cleanups

You pick up the garbage and take it to the dump, we'll help pay for some or all of the disposal costs.

Application form available from
slederer@co.napa.ca.us

Some restrictions apply...



In Order to Qualify...

- Located in UVDS service area and in unincorporated county.
- Apply two weeks or more before the event (no retroactive approvals)
- Community (not single property) focused
- Liability waiver

Other programs (Flood District, RCD, City of Napa, etc.) also exist

Questions?

Steve Lederer, Napa County Department of Environmental Management

Napa County Weed Management Area

Vicki Kemmerer



Napa County Weed Management Area Established 2006



Partial List of Arundo donax locations along Redwood Creek, Browns Valley Creek, and Napa Creek.



Three Grant Award Projects

- 1) Biocontrol and Invasive/Noxious Weed Mapping Project
- 2) Rush Skeleton Weed Eradication Project
- 3) Arundo donax Eradication Project on the Napa Creek Watershed (pictured).



Rutherford Dust Restoration Team

Lisa Micheli

Napa River Restoration Rutherford Dust Restoration Team



Napa River Landowners: Members Rutherford Dust Society & Oakville Appellation
Funded by: RDS, Landowners, County of Napa, Dept. of Fish and Game, State
Coastal Conservancy, State Water Resources Control Board
Preliminary Design Phase Concluding June 2008; Phase I implementation Fall '08-
Fall '09; Phase II implementation Fall '09-Fall '11

Rutherford Reach Restoration Goals

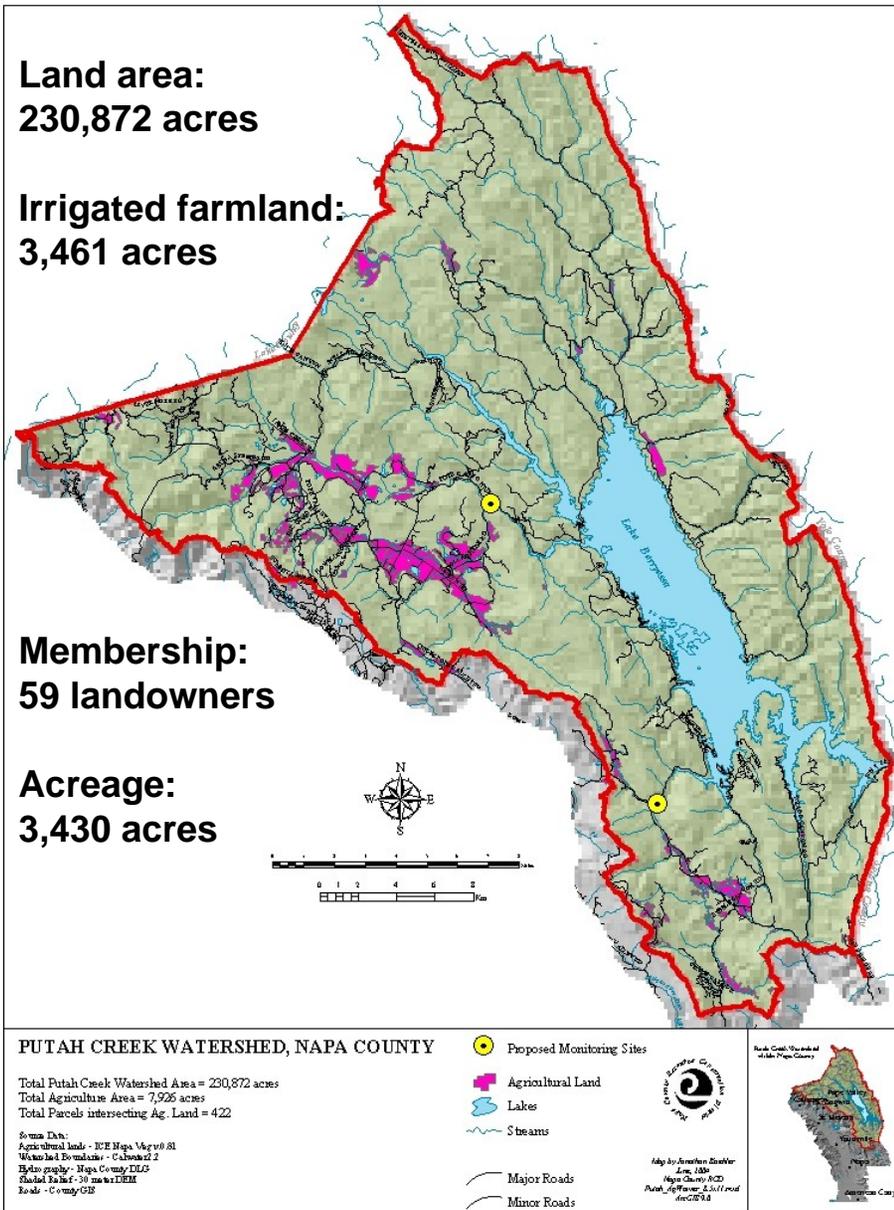


- Improve the geomorphic stability of 4.5 miles of the Napa River
 - Reduce bank erosion/sediment loading
 - Preserve high value property
- Improve aquatic habitat
 - More riffles & diversity, cover, spawning habitat for Chinook salmon, steelhead trout
- Improve riparian habitat
 - Create a continuous riparian corridor
 - Remove invasive vegetation, restore native species
 - Reduce the risk of Pierce's Disease in vineyards
- Develop a sustainable plan for river maintenance
 - Special Benefit Zone
- Collaborate with other stewardships
 - Monitoring Plan workshop: in partnership with RCD and WICC

Napa County Putah Creek Watershed
Group

Sally Kimsey

Napa County Putah Creek Watershed Group



Purpose:

- Share best management practices for water quality
- Conduct water quality monitoring
- Comply with CA Water Quality Control Board agricultural waste discharge requirements.

Napa County Putah Creek Watershed Group

Technical and Administrative Support Provided By:

Napa County Farm Bureau, Napa County RCD, USDA Natural Resources Conservation Service, Napa County Agricultural Commissioner, Napa Co. Supervisor Diane Dillon

Napa County Putah Creek Watershed Group

Best Management Farming Practices for Water Quality Protection

Nutrient Management (NRCS Conservation Practice Code 290) 



DEFINITION
Managing the amount, form, placement, and timing of applications of plant nutrients.

PURPOSES

- Supply nutrients for optimum crop quality.
- Minimize potential entry of nutrients to surface waters and groundwater.
- Maintain or improve the chemical and biological condition of the soil.

CONDITIONS

Soil and particle analysis will be conducted during key crop growth periods to determine appropriate kinds and rates of nutrient applications, avoiding excessive nutrient application. Farming operations that minimize soil tillage and reduce potential soil compaction will be practiced, to reduce potential nutrient runoff and optimize efficient uptake of applied nutrients. Soil erosion control practices will be planned to minimize soil loss and runoff that may pose the potential to carry dissolved and attached nutrients to surface waters. Organic materials such as compost and soil organic building green manure crops will be utilized to maintain optimum soil organic matter and soil nutrient retention. Application of nutrients will be timed to maximize optimum uptake and utilization of nutrient.

TECHNICAL RESOURCES:

- UC Cooperative Extension Service
- NRCS Field Office Technical Guide
- Licensed, qualified soil and crop laboratory and crop management advisors.



Water Quality Monitoring

RCD examines critical indicator factors in Pope Creek & Capell Creek.

**Best Management Practices
Publication excerpt**

Napa County Flood Control & Water Conservation District

Mike Forte

Napa County Flood Control & Water Conservation District

Maintenance and Watershed
Programs Project No. 96-1



Project Descriptions

- Assist with clearing major debris from streams
- Provide cost share funds for stream bank stabilization
- Maintain the Flood District's 13 miles of easements
- Operate a county wide flood warning system
- Provide dredge spoils disposal sites for ACOE dredging of the Napa River
- Fund storm water management program (SWMP)
- Apply for and secure funds for raising houses, removing invasive vegetation, etc.
- Monitor ground water
- Fund major trunk line replacement / installation
- Fund special studies for Flood Protection / Water Man.

Friends of the Napa River

Bernhard Krevet



Friends of the Napa River



Acorn Soupe

Sandra Learned Perry



Acorn Soupe

- Help kids discover their place in nature
- Create the next generation of stewards of the land



Acorn Soupe - December 2007

Acorn Soupe

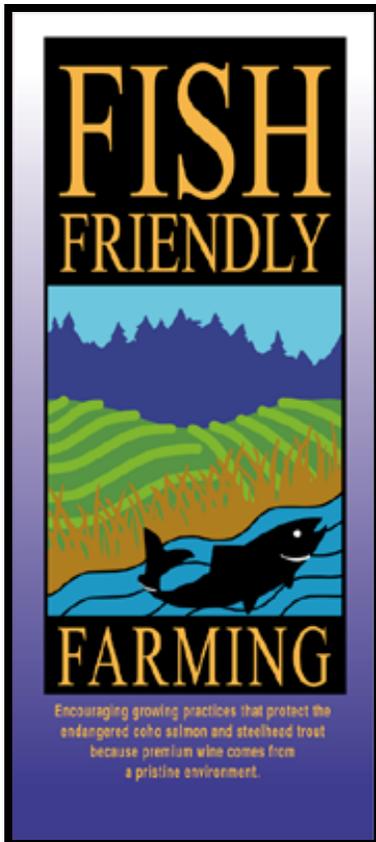


California Land Stewardship Institute

Laurel Marcus

California Land Stewardship Institute

A non-profit organization to assist public and private landowners to implement land management practices and ecological restoration projects for the long term benefit of the environment



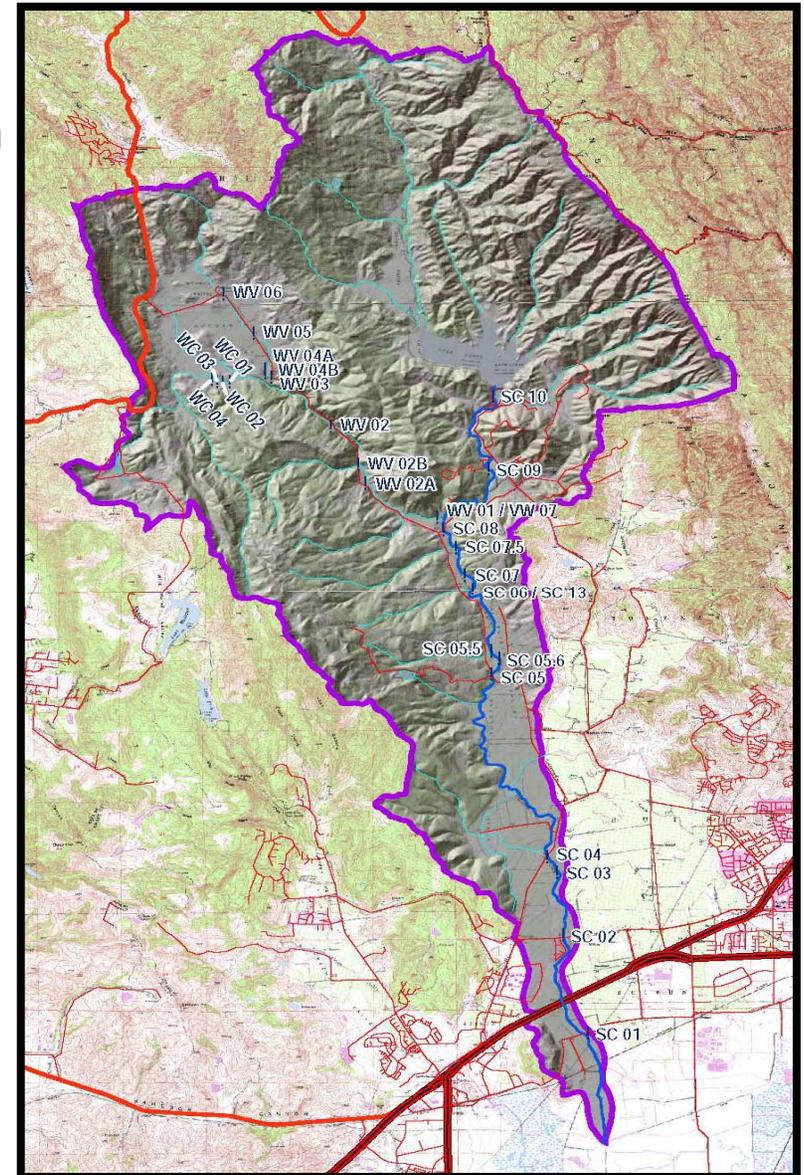
California Land Stewardship Institute

Napa River Watershed

- Habitat enhancement plan for 10 miles of the Napa River between Oakville and Oak Knoll bridges
- Lower York Creek Restoration Project
- Carneros Creek Adaptive Management Program
- Invasive plant eradication and native plant revegetation projects on Rector, Conn, Bear, Ritchey, Dry and other creeks
- Gravel augmentation program for Napa River spawning habitat

Suisun and Wooden Valley Creek Watershed

- *Arundo donax* eradication on 14 miles of creek
- Native plant revegetation on 18 miles of creek
- Extensive water temperature, water quality and channel geomorphology monitoring
- Re-operation study of Lake Curry reservoir for downstream steelhead restoration



Suisun Creek Watershed

American Canyon Blue Ribbon
Committee on Water Resources

Fred Simonson

American Canyon Blue Ribbon Committee on Water Resources

Thirty members

- Citizens (long-term and new)
- Property Owners
- Water Professionals
- Industry
- Other Agencies



Scope

- Creeks and Wetlands
- Water Supply
- Wastewater
- Recycled Water
- Finance

American Canyon Creeks and Watersheds



Initiatives:

- Regional detention/groundwater recharge project in American Canyon Creek watershed
- Dispersed wells for recycled water or municipal water
- Habitat restoration

Napa County Regional Park & Open Space District

John Woodbury

Napa County Regional Park and Open Space District



Linda Falls Conservation Easement



Berryessa Vista Wilderness Park



Milliken Watershed Trails

South Wetlands River Floodplain Habitat



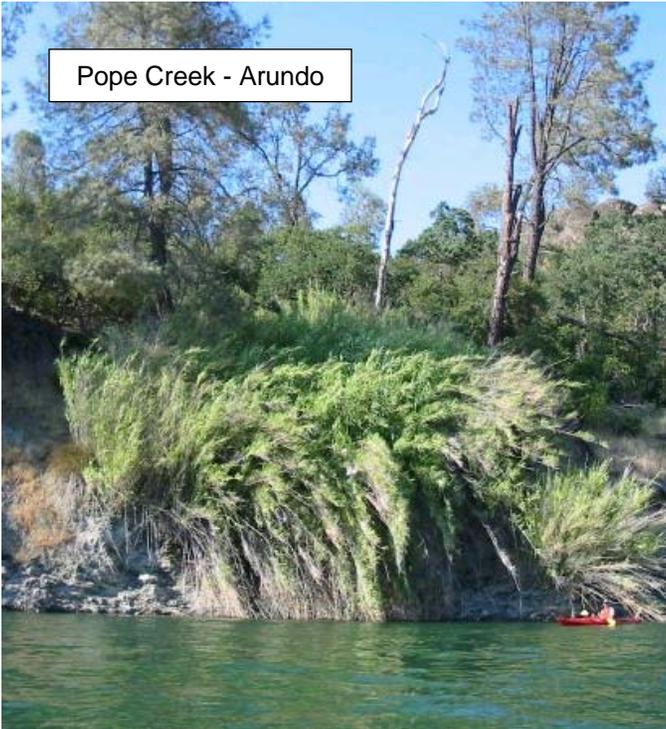
Berryessa Trails and Conservation

Carol Kunze

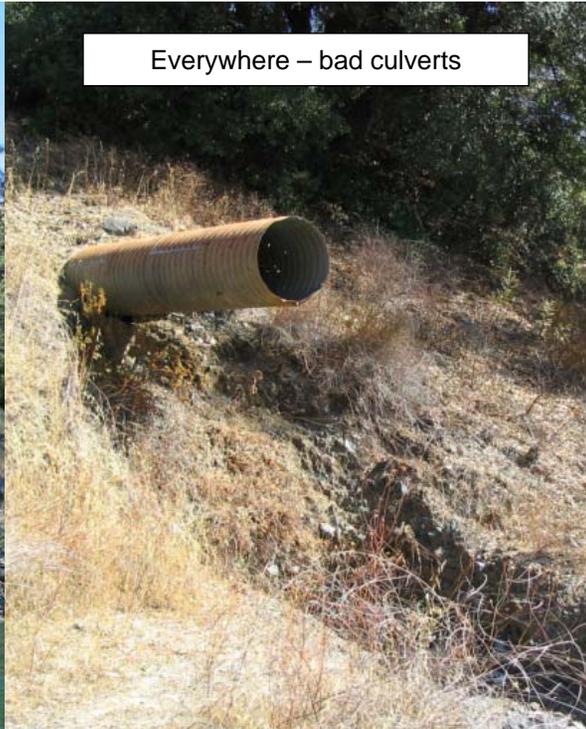
Berryessa Trails and Conservation

Stewards of Napa County's Lake District

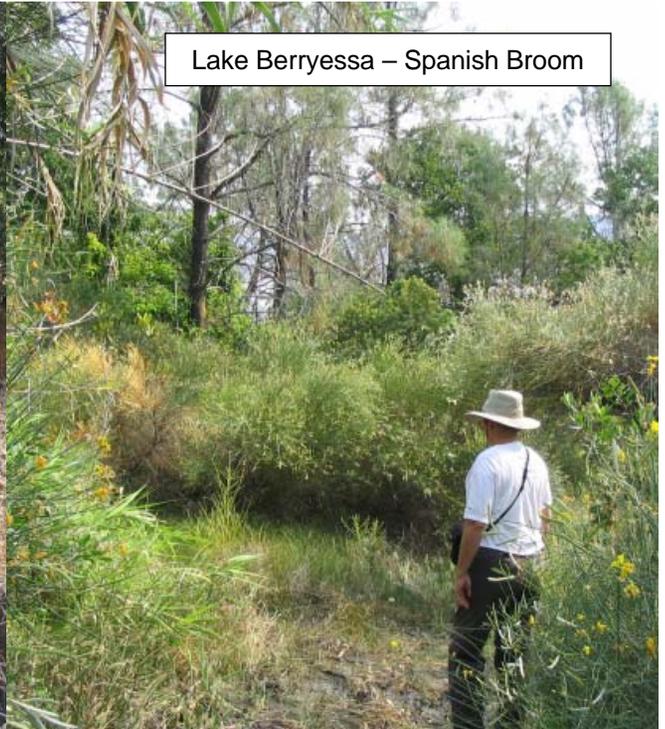




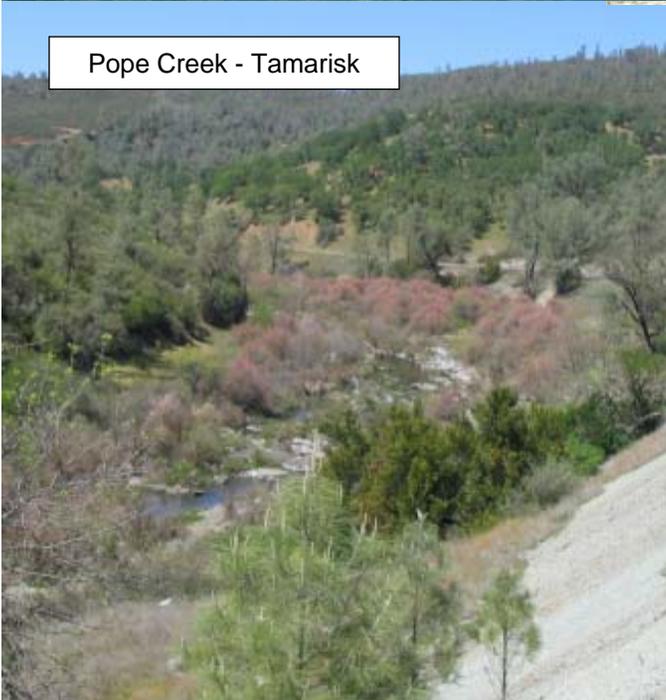
Pope Creek - Arundo



Everywhere – bad culverts



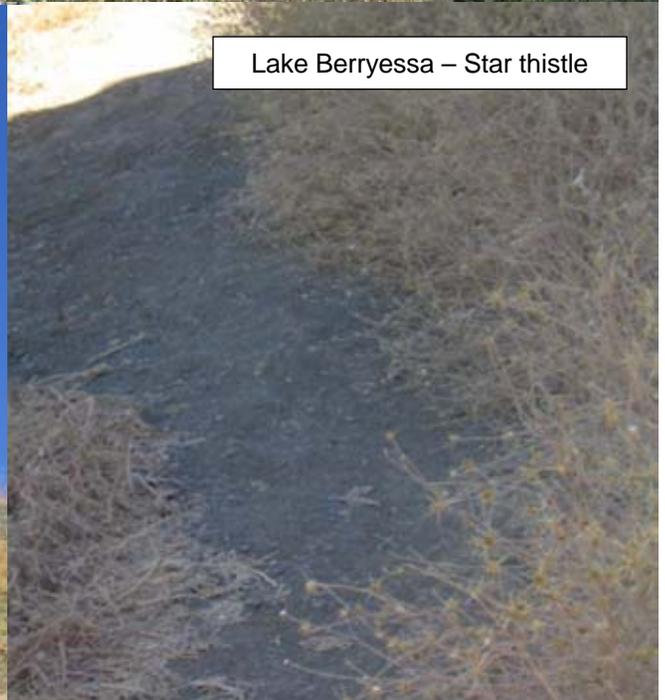
Lake Berryessa – Spanish Broom



Pope Creek - Tamarisk



Lake Berryessa – Fennel



Lake Berryessa – Star thistle

Blue Ridge Berryessa Natural Area Conservation Partnership

Suzanne Easton

The Blue Ridge Berryessa Natural Area:

Saving an Endangered Landscape
through Partnership



The Blue Ridge Berryessa Conservation Framework:
Saving an Endangered Landscape through Partnership

Connolly Ranch

Bob Pallas



CONNOLLY RANCH



- Connolly Ranch is the agricultural and environmental education program of The Land Trust of Napa County.
 - It is a 12 acre working farm that allows children to experience farm life first-hand. Here they care for farm animals, grow organic fruits and vegetables and learn the concepts of ecology and sustainability.
-
- During the 2007-2008 school year over 2,300 elementary school children visited Connolly Ranch on school sponsored fieldtrips.
 - This year Connolly Ranch, in conjunction with Arts Council Napa Valley, will host summer camps for 120 children.
 - Connolly Ranch is also home to programs run by the city's Parks and Recreation Department. And Master Gardeners use the Ranch as well for their programs.

San Francisco Bay Regional Water Quality Control Board

Dale Hopkins

San Francisco Bay Regional Water Quality Control Board

TMDLs in the Napa River Watershed: Sediments, Pathogens, Nutrients

Grants: River restoration, Fish Friendly Farming, Dam removal, Road repair



Fish Friendly Farming and Compliance with TMDL

Napa River Living River Project and Napa River Habitat Enhancement



Degraded Channel Habitat

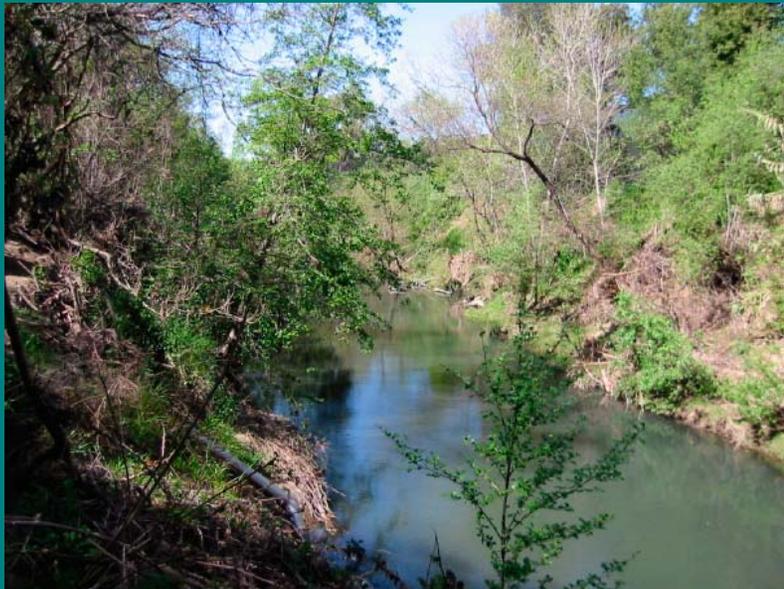


Photo Credit: Phillip Williams & Associates



Complex Channel Habitat



Photo Credit: Phillip Williams & Associates

The Students and Teachers Restoring A Watershed Project

Whit Halvorsen

The STRAW Project



The Bay Institute

Restoration totals since 1992

214 restoration days

14.91 miles of Creek Bank

23,127 native plants installed

12,668 K-12 students

871 linear ft biotech structures

184 yds³ non-natives removed

Napa County Resource Conservation District

Leigh Sharp

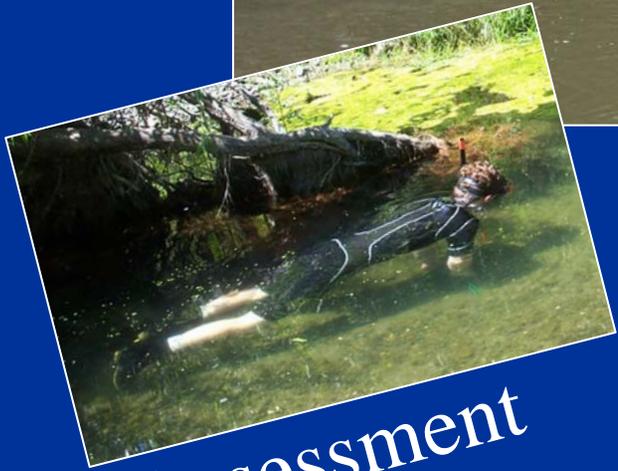
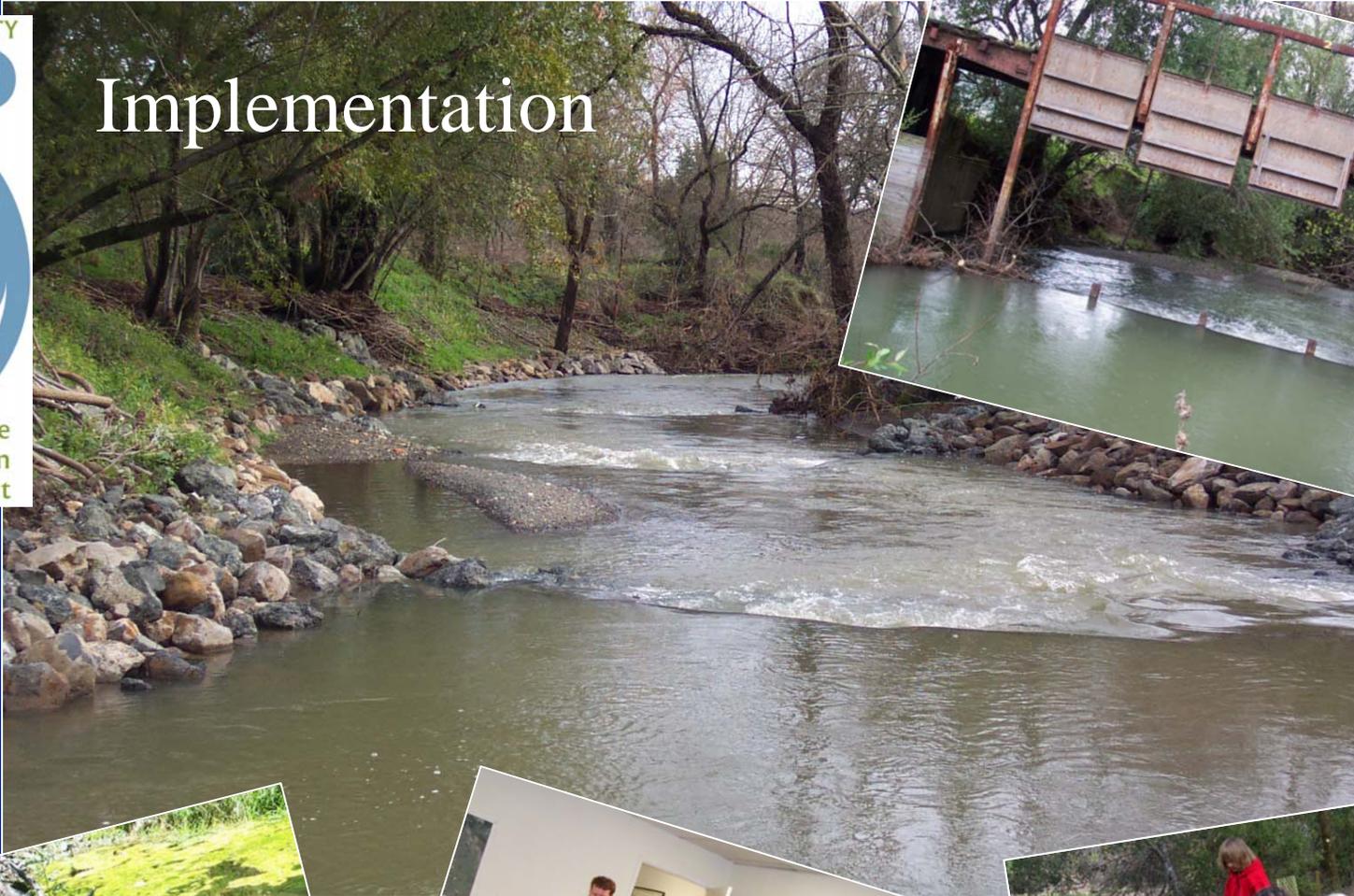


**Promoting responsible watershed
management through voluntary
community stewardship and technical
assistance since 1945**





Implementation



Assessment



Planning



Education

Lake Berryessa Watershed Partnership

Amy Garden



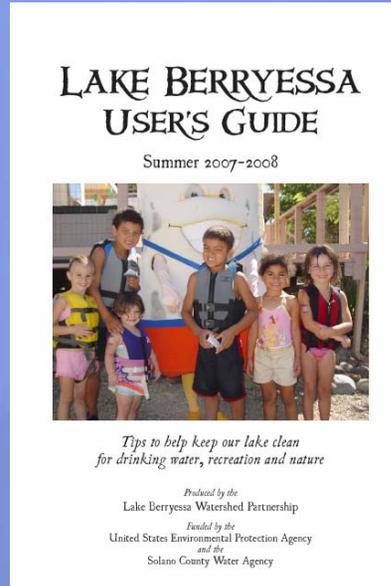
Lake Berryessa Watershed Partnership

promoting clean water to protect the
lake and all its users



We promote clean water in Lake Berryessa with:

- ★ One-on-one outreach to Berryessa visitors
- ★ Free bilge pads
- ★ A 19-Page Users' Guide
- ★ Our Water Protector pledge/patch program
- ★ Bilgee Boat tours
- ★ Annual Coastal Cleanup work at Capel Cove
- ★ Informational Kiosks at each resort
- ★ Quarterly stakeholder meetings



We drink the Water!

Keep the Lake Healthy:

1. Put refuse in garbage cans and recycling bins NOT the lake
2. Use a toilet-it's the ONLY place to go
3. Use the FREE boat bilge pad exchange program
4. Don't overfill your gas tank

If you wouldn't put it in your cup, don't put it in the lake!

This message is brought to you by the Lake Berryessa Watershed Partnership, a collaborative of agencies, non-governmental organizations and private citizens dedicated to protecting Lake Berryessa's water quality. For more information, contact Solano RCD at 707-478-1653.



Napa County Stormwater Management Program

Todd Adams

Napa County Stormwater Management Program



Napa County Stormwater Management Program



Institute for Conservation Advocacy,
Research, and Education

Chris Malan

ICARE

The Institute for Conservation Advocacy Research and Education

The Institute for Conservation Advocacy Research & Education, (ICARE) established in 2004, is a nonprofit community-based organization located in Napa County, California. ICARE's mission is to restore and conserve the biological integrity and ecosystems health of watersheds the Napa River estuary and the greater San Francisco Bay Area through science-based advocacy, research and education.

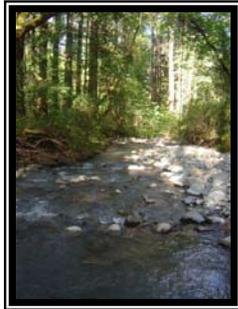
www.icarenapa.org



The Napa River Benthic Macroinvertebrate Study



The Napa River Watershed Steelhead Study



The Suscol Creek Collaborative Partnership



The Milliken Creek Bioassessment Monitoring & Restoration Project



Napa Valley Vintners

Jeri Gill

Who are the Napa Valley Vintners?

- Non-profit membership trade association
- Mission: promote and protect the Napa Valley Appellation
- Committed to the future of the Napa County community
- More than 300 Napa Valley winery members



Napa Green Certified Winery

- Partners with Napa County DEM and ABAG for third party certification.
- Demonstrates to regulators, wine trade, consumers and Napa County citizens that wineries are taking action to protect our environment;
- Conserves resources; supports continued stewardship;
- Offers regulatory assurance so focus is on innovation;
- Assists regulated businesses with navigating new laws;
- Helps wineries realize economic benefits;
- Helps consumers direct their economic power for positive change;
- Provides a solid platform for educating consumers about sustainability.

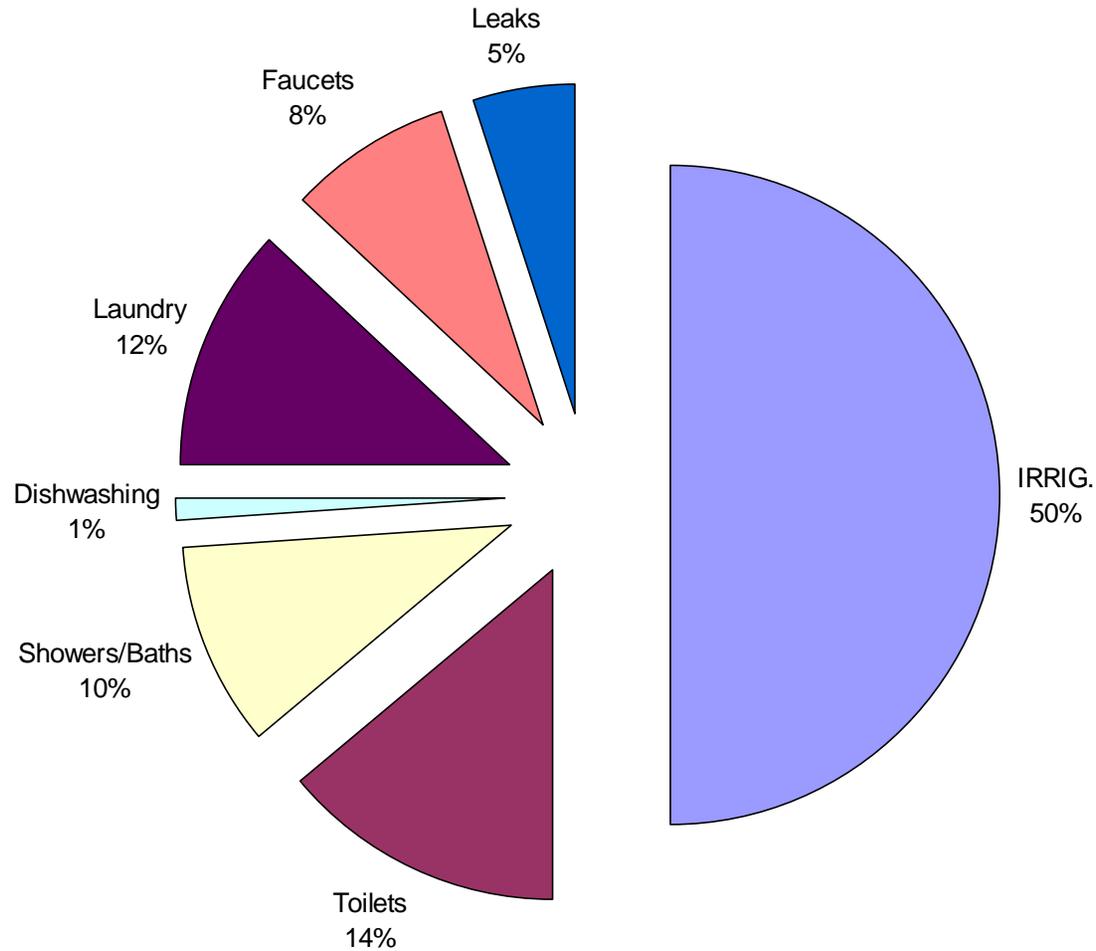


City of Napa Water Division

Pat Costello

City of Napa Water Conservation

Typical Single-Family Residence Water Usage By Category



City of Napa Water Conservation

Summer 2008 Landscape Programs

Water-Wise Demonstration Garden @ Fire Station #3



Central Control Irrigation Parks & Schools (4th year)



CD-ROM



Public Workshops



Landscape Irrigation Rebate Incentives



Water-Wise Home and Business Surveys



Center for Land-Based Learning

Mary Kimball

Center for Land-Based Learning Winters, CA

FARMS Leadership Program
SLEWS Program
Farm on Putah Creek



What is SLEWS?

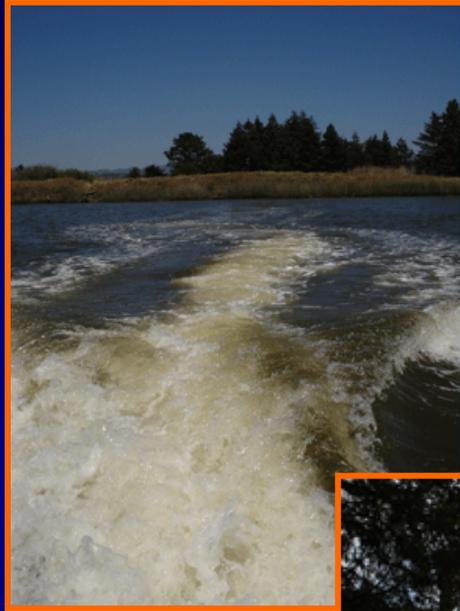
- **Partnership** program: Center for Land-Based Learning partners with local watershed groups, landowners, government agencies, and restoration professionals who provide sites and funds for the restoration project
- Combines **watershed-based** education and private lands stewardship
- Participating SLEWS schools commit to a year-long stewardship project (usually 3-5 hands-on field days) that evolves from season to season according to the **ecosystem restoration cycle**

Napa County Wildlife Conservation
Commission

Stephen Rae

WILDLIFE CONSERVATION COMMISSION

NAPA COUNTY



PRESERVE, CONSERVE, ENHANCE, EDUCATE



FISH AND GAME CODE SECTION 1103

WHAT WE DO ----- RECOMMEND GRANT FUNDING



SEE MATERIALS AT OUR TABLE IN THE LOBBY

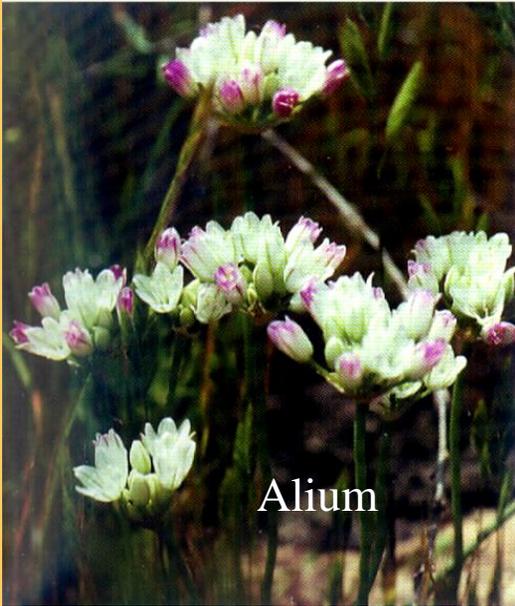
California Native Plant Society

Kelly Macleod

California Native Plant Society Napa Valley Chapter



Dedicated to the preservation to
California Native Flora



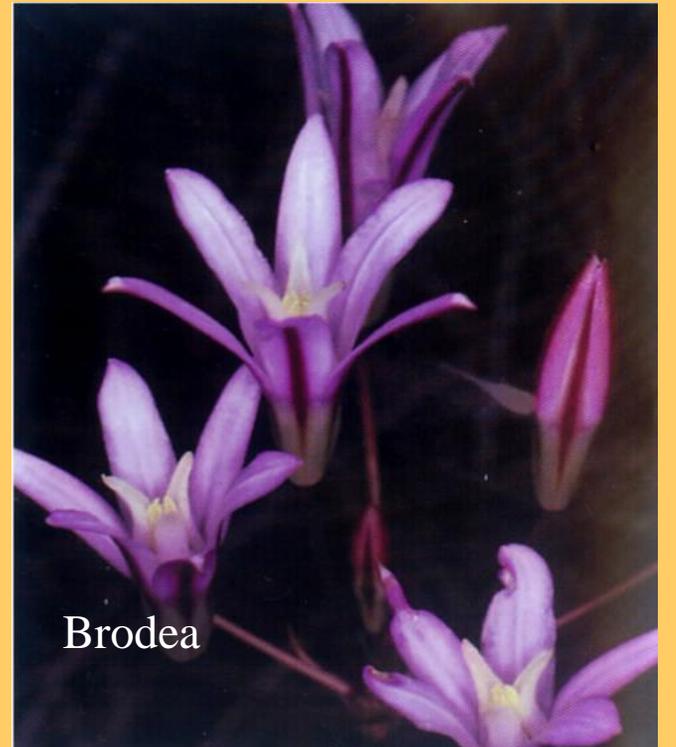
Alium



Pink Flowering Current
Ribes sanguinum



Western Azalea



Brodea

Pope Valley Watershed Council

Lyn Alcantera



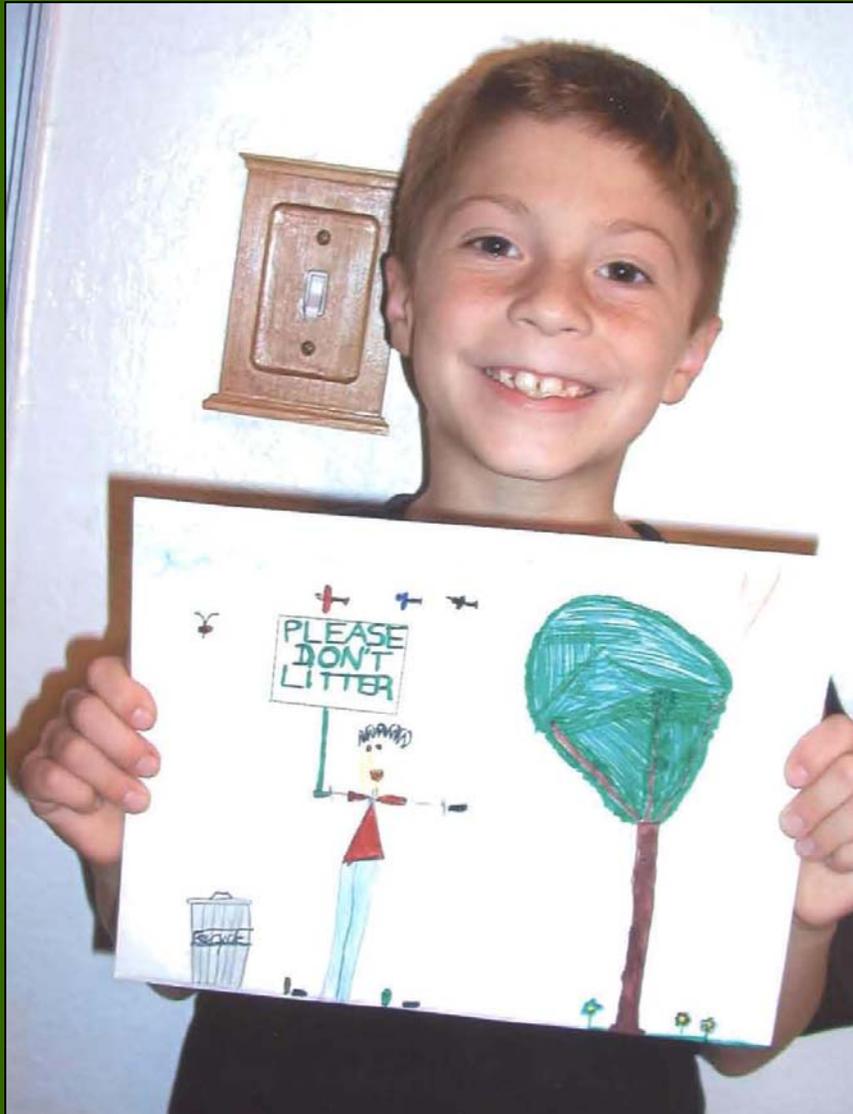
Pope Valley Watershed Council

Clean-up Events



Pope Valley Watershed Council

Involving Youth

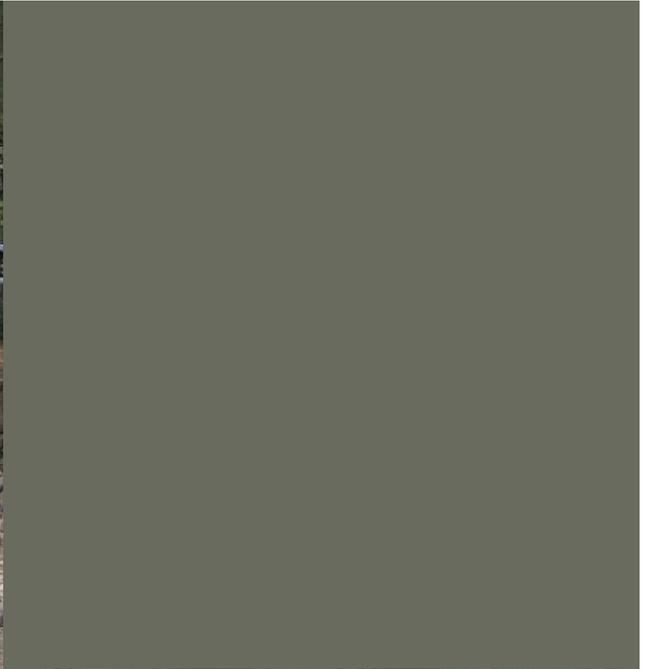


Selby Creek Stewardship Partners

Suzanne Coffee

Selby Creek Watershed Partners





University of California Cooperative
Extension

Morgan Doran

UC Cooperative Extension

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Napa County
University of California Cooperative Extension

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Napa County Programs



Viticulture
Winegrape Production



4-H Program
4-H helps young people discover and develop their potential. It provides a wide variety of educational and enrichment experiences.



Nutrition, Family and Consumer Science
Information on food safety for consumers and health professionals and healthy eating.



Master Gardener
Trained volunteers provide advice and support for local gardeners.



Olives
Olives for premium oil production



Livestock
This link will connect you to the website of the Livestock and Natural Resources Advisor serving Napa County.

Calendar

08/11/08 Food Safety and Sanitation Class

County Information

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Interim Director:
Morgan P. Doran

Done

Napa County - Exte... 8:30 AM

Napa County Watershed Symposium 2008

