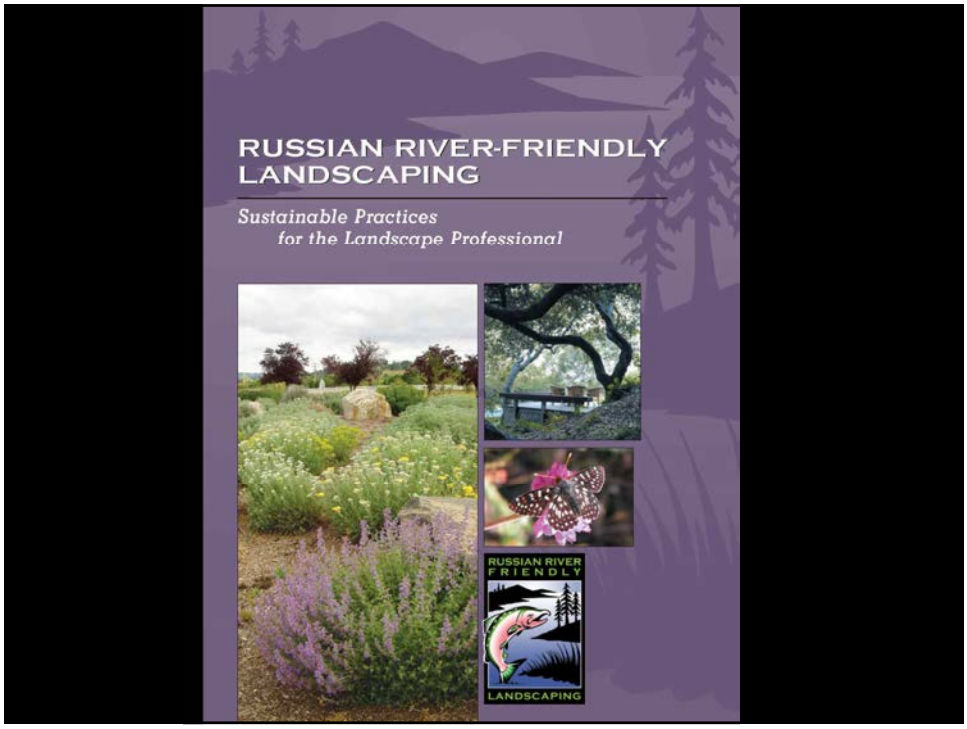

Water in the Russian River-Friendly World

Brock Dolman

Occidental Arts and Ecology Center's WATER Institute Director

WATERSHED
ADVOCACY
TRAINING
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RESEARCH
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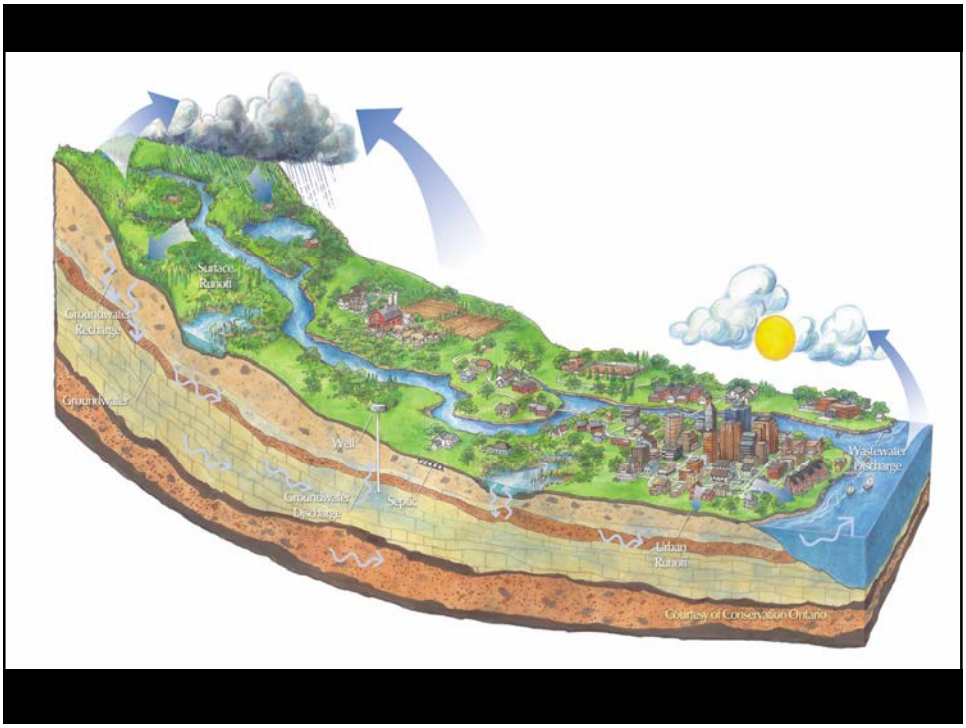
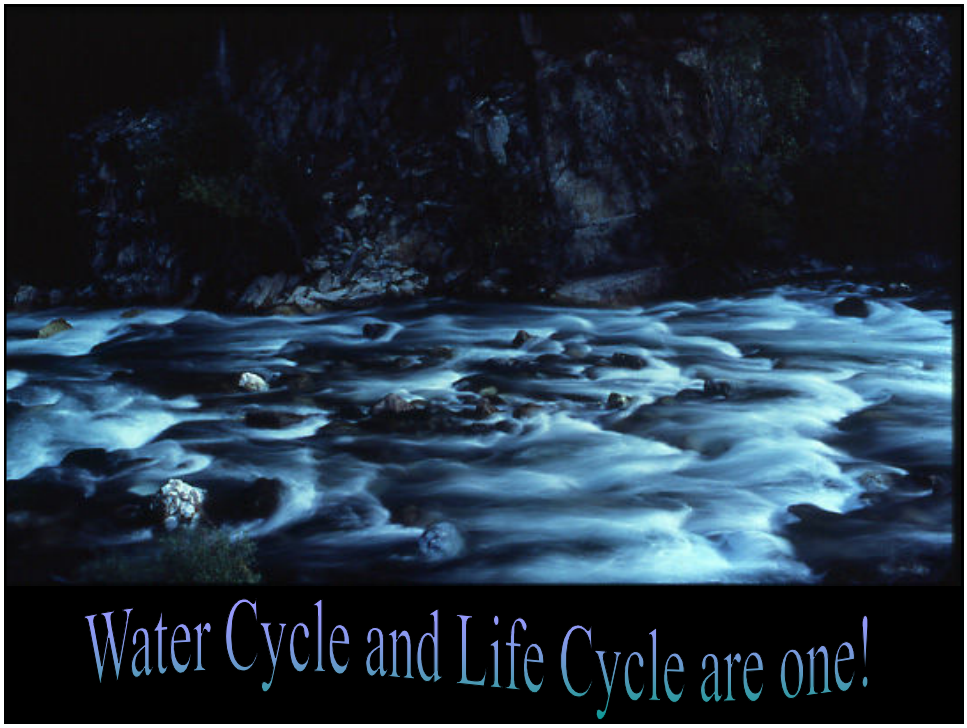
WWW.OAECWATER.ORG



"The health of our waters is the principal measure of how we live on the land"

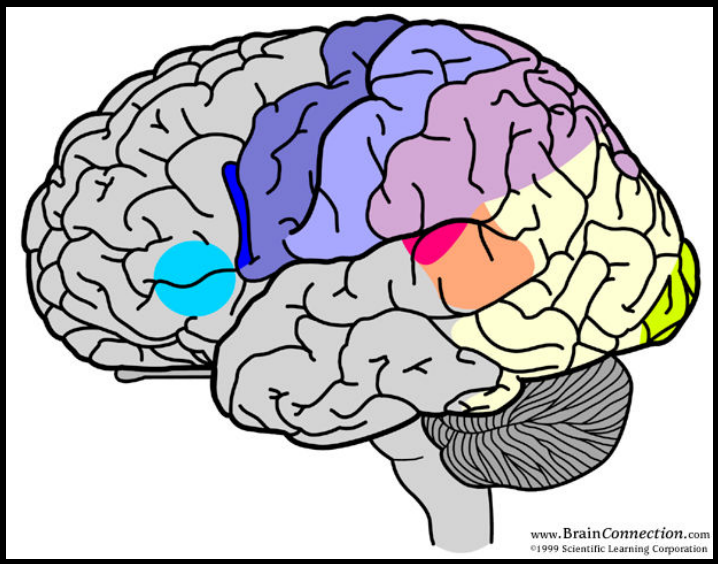
Luna Leopold


Water Cycle and Life Cycle are one!

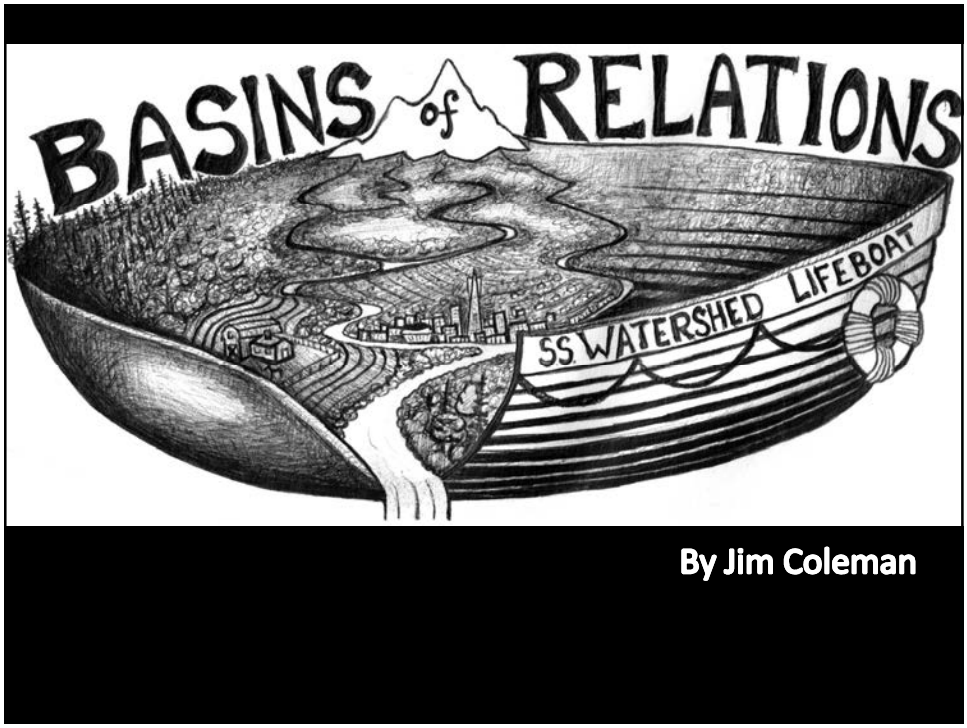
" The first thing we learned from salmon was the importance of the watershed as a unit of perception "

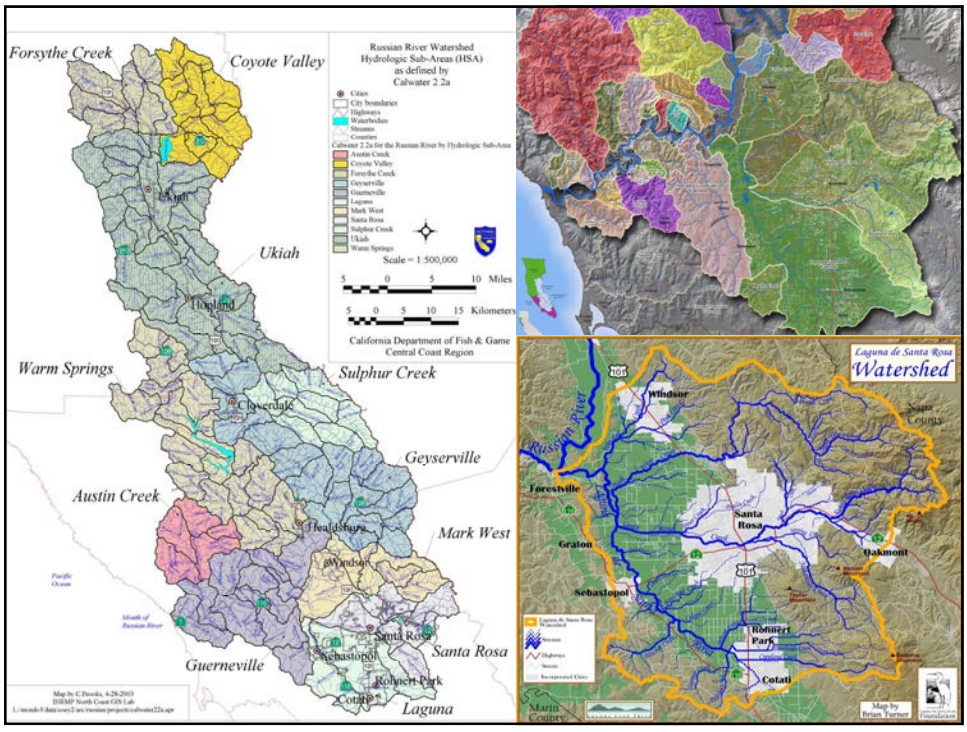
Freeman House

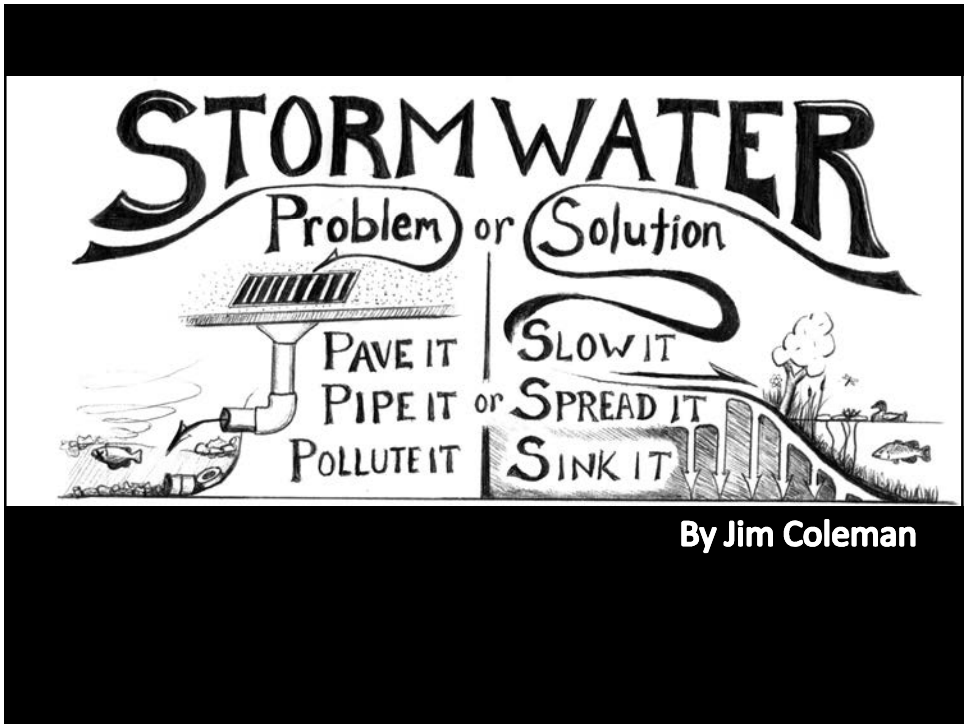
AUTHOR OF TOTEM SALMON

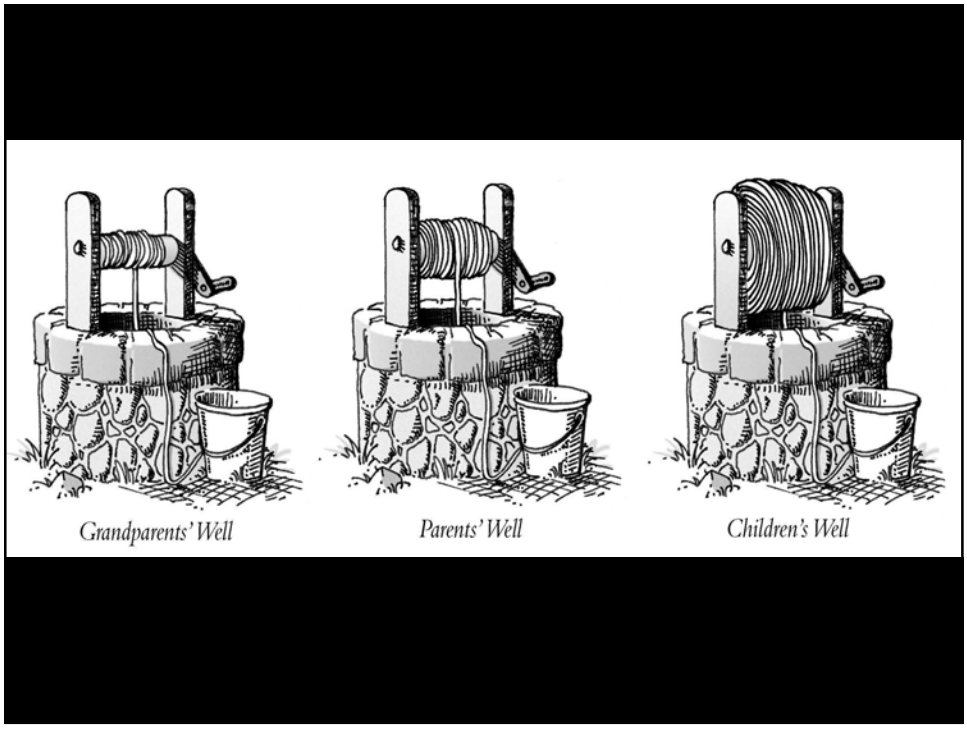


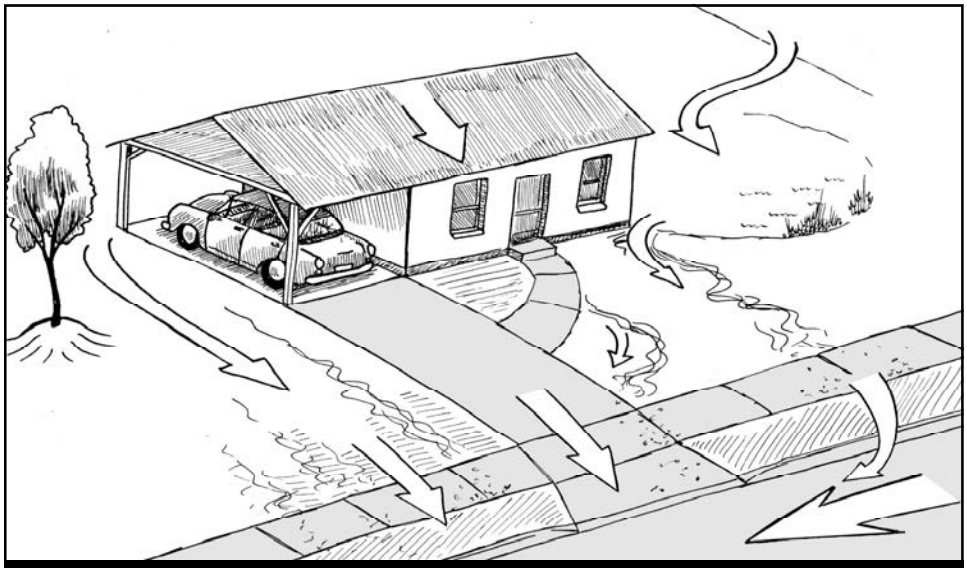
The critical Head-Waters in need of Ego-System Re-Storyation!


BASINS of RELATIONS
SS WATERSHED LIFEBOAT
By Jim Coleman


Forsythe Creek
Coyote Valley
Ukiah
Hopland
Warm Springs
Sulphur Creek
Cloverdale
Geyserville
Austin Creek
Mark West
Healdsburg
Windsor
Santa Rosa
Sebastopol
Guerneville
Rohnert Park
Cotati
Laguna
Russian River Watershed
Hydrologic Sub-Areas (HSA)
as defined by
Calwater 2.2a
Scale = 1:500,000
California Department of Fish & Game
Central Coast Region
Laguna de Santa Rosa
Watershed
Windsor
Forestville
Graton
Oakmont
Cotati
Map by
Brian Turner

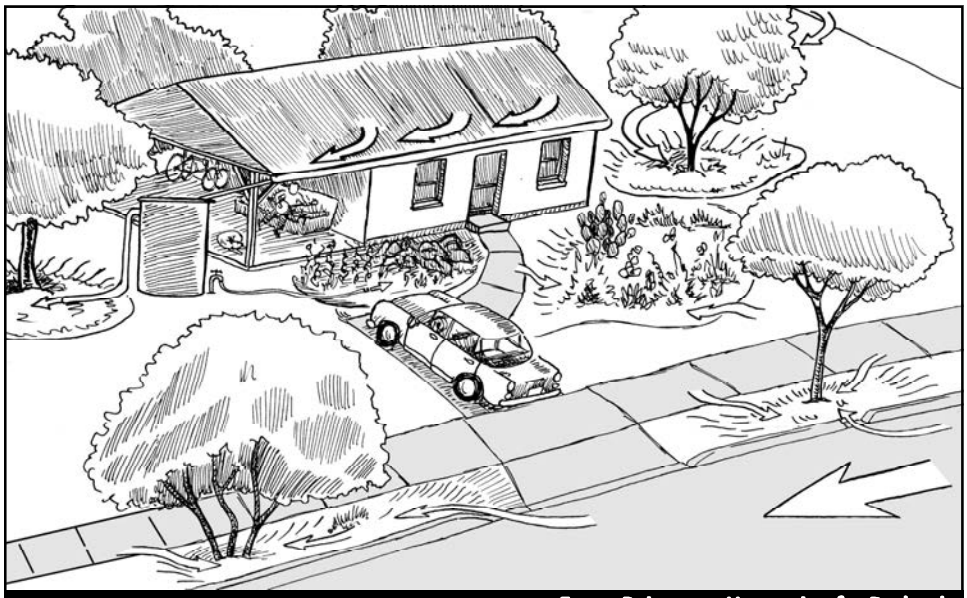

STORMWATER
Problem or Solution
PAVE IT
PIPE IT
POLLUTE IT
SLOW IT
SPREAD IT
SINK IT
By Jim Coleman


Grandparents' Well
Parents' Well
Children's Well



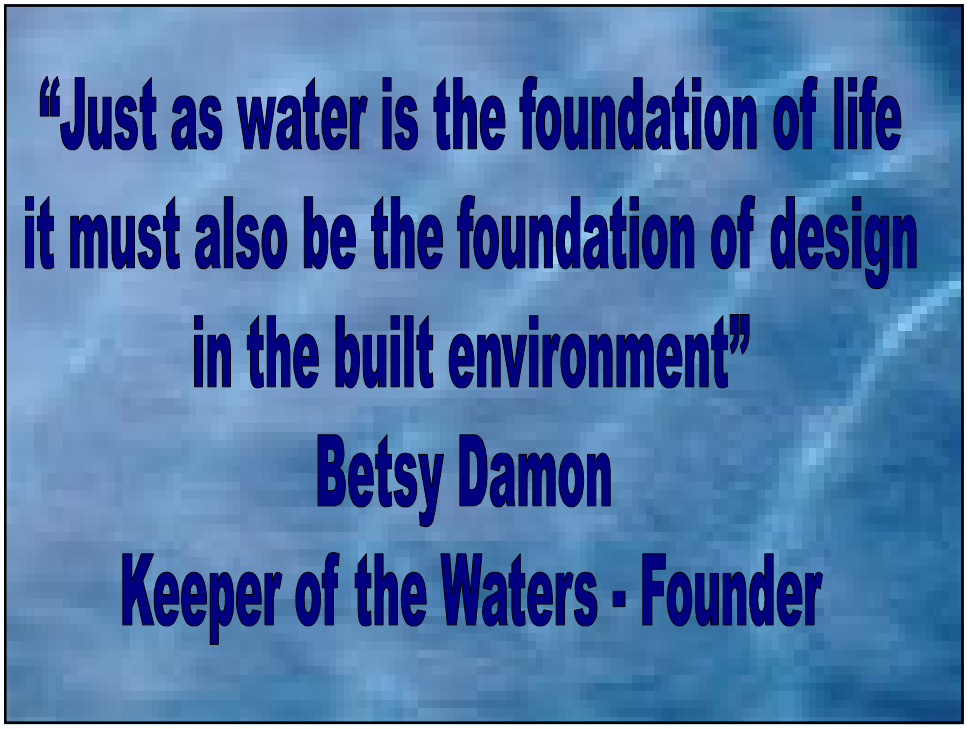
From: Rainwater Harvesting for Drylands
By Brad Lancaster

Drain-Age?



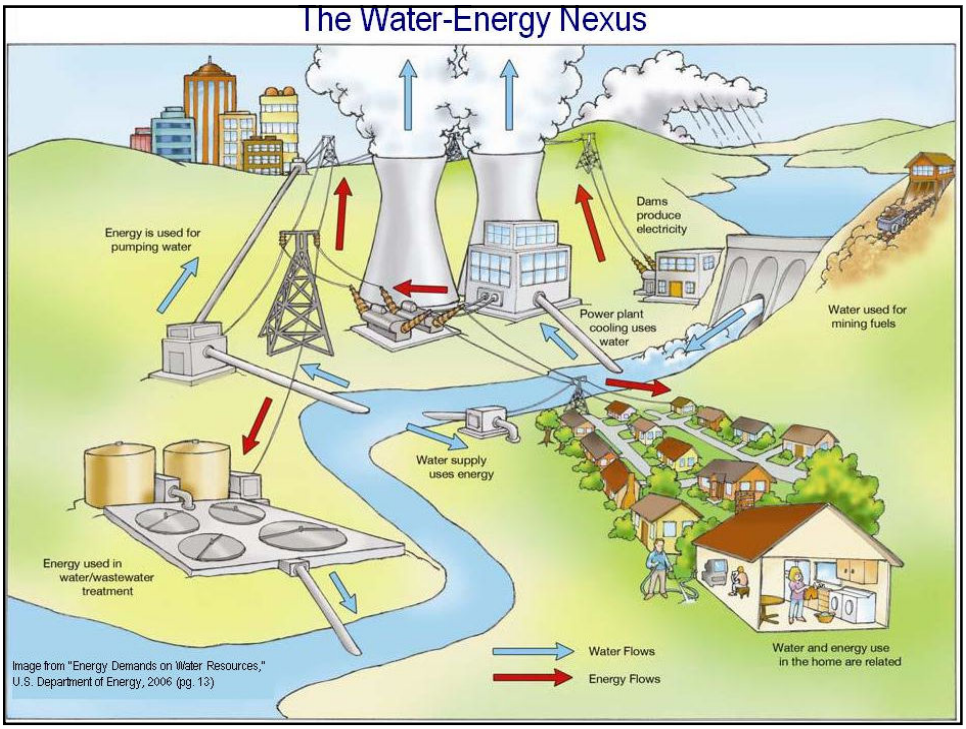
From: Rainwater Harvesting for Drylands
By Brad Lancaster

Retain-Age!


"Just as water is the foundation of life
it must also be the foundation of design
in the built environment"
Betsy Damon
Keeper of the Waters - Founder

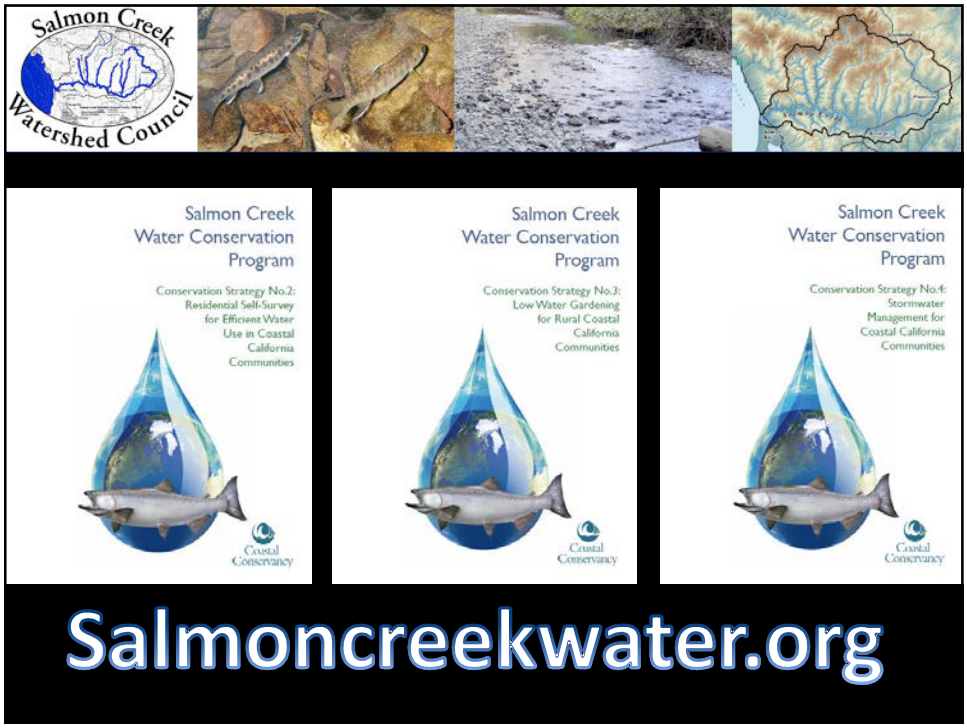
Indoor Conservation Products

The Water-Energy Nexus



LANDSCAPE LOCALLY
NURTURE THE SOIL
WILDLIFE HABITAT
WATER & AIR QUALITY
LESS TO THE LANDFILL
CONSERVE ENERGY
CONSERVE WATER
BAY-FRIENDLY
LANDSCAPING & GARDENING COALITION
RUSSIAN RIVER-FRIENDLY LANDSCAPING
Sustainable Practices for the Landscape Professional

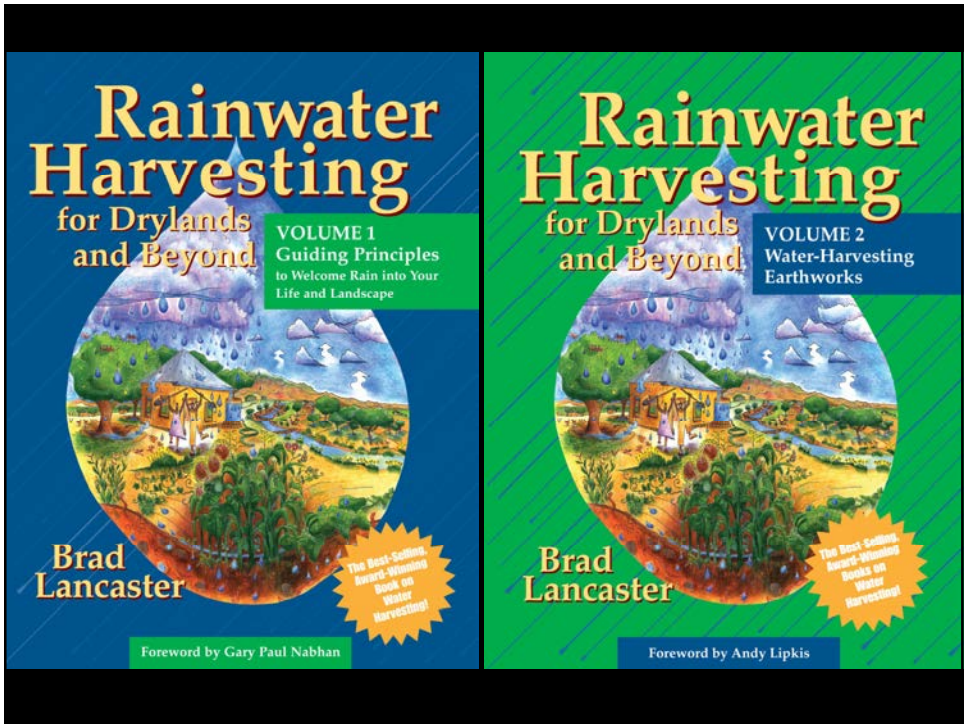
Slow it. Spread it. Sink it!
A Homeowner's & Landowner's Guide to Beneficial Stormwater Management
Sonoma Valley Groundwater Management Program



Quivira Coaltion's Watershed Restoration Principles

* Protect & Expand Moisture Storing Areas of the Landscape
* Stabilized Active Erosion & Prevent Further Degradation
* Restore Dispersed Flow & Increase Infiltration at every Opportunity
* Cultivate Restorative Plant Communities to Build Soil
* Create Site-Specific Solutions Using Natural Forms & Processes

www.QuiviraCoalition.org&www.DrylandSolutions.com



We do not live in a Water Scarce Area!

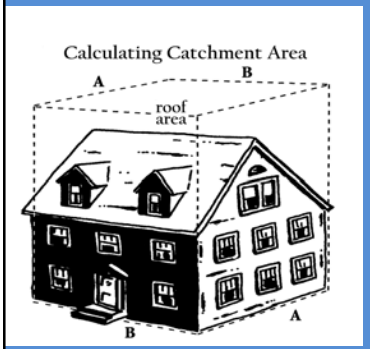
We Live in a Water Storage Scarce Area!!

Welcome to the
Glencoe
Rain Garden

RAIN GARDEN
Rain gardens work like a native forest by capturing and infiltrating stormwater from rooftops, driveways, and other hard surfaces.
Rain gardens -- reduce flooding by absorbing water from impervious surfaces; filter oil, grease and toxic materials before they can pollute streams, lakes and bays; help to recharge the aquifer by increasing the quantity of water that soaks into the ground; provide beneficial wildlife habitat.

Roof Water Harvesting Calculations

When 1 inch of rain falls on a 1000 square foot surface, you can collect 600 gallons



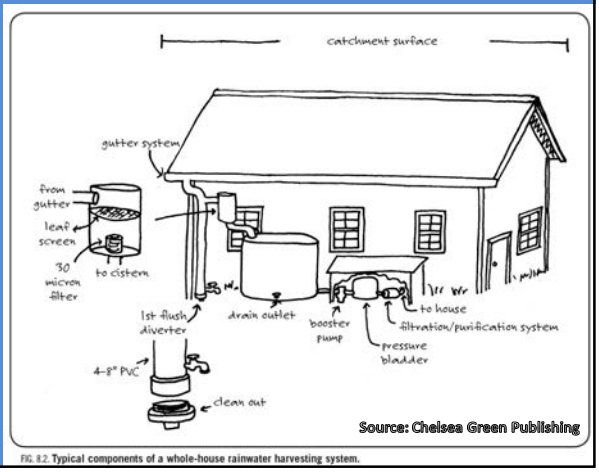
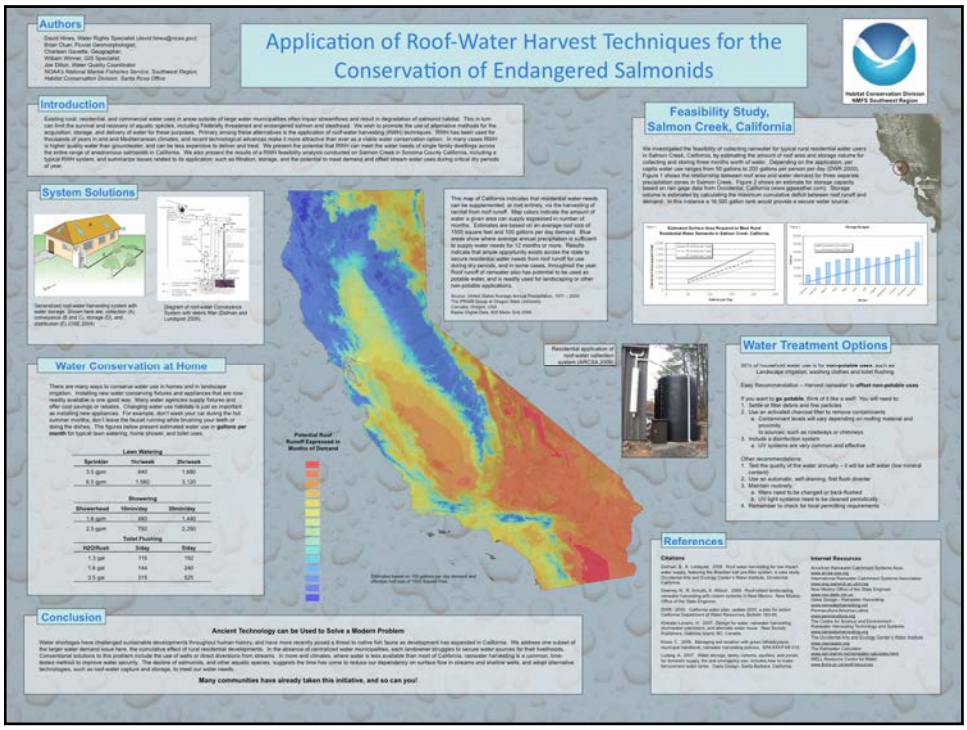
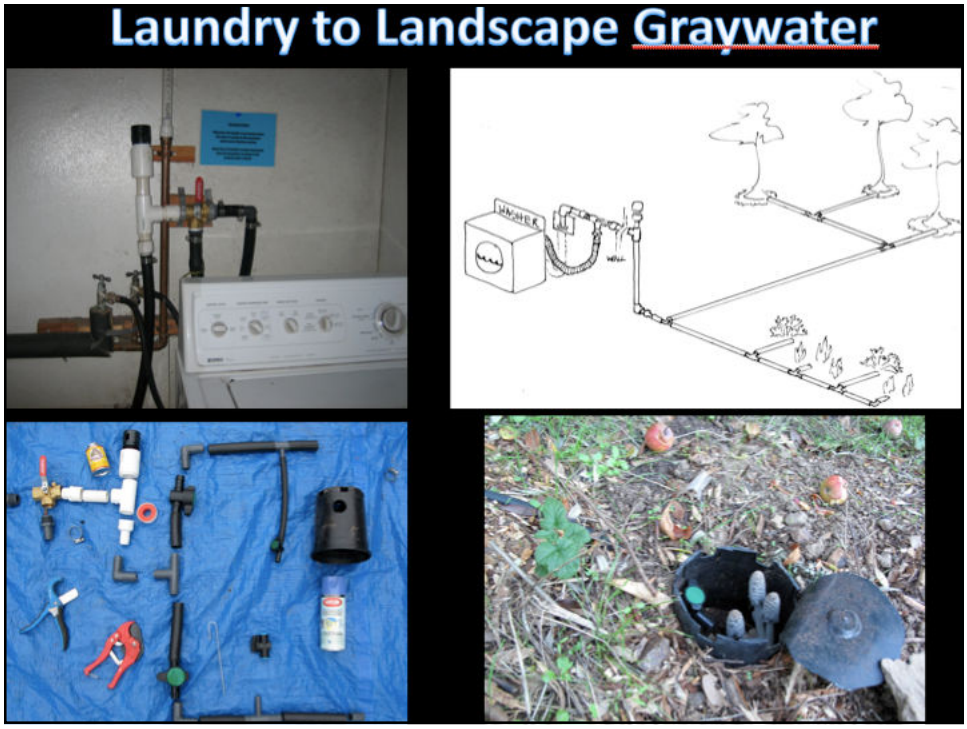


FIG. 8.2. Typical components of a whole-house rainwater harvesting system.

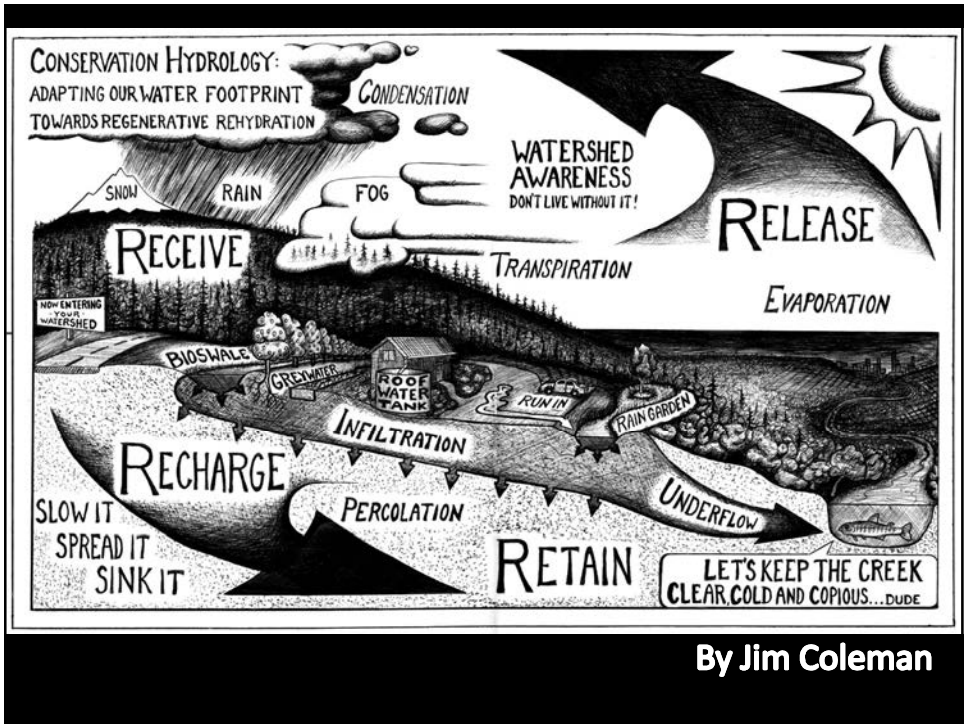

Application of Roof-Water Harvest Techniques for the Conservation of Endangered Salmonids
Authors
Introduction
System Solutions
Water Conservation at Home
Feasibility Study, Salmon Creek, California
Water Treatment Options
References
Conclusion
Ancient Technology can be Used to Solve a Modern Problem
Many communities have already taken this initiative, and so can you!


Laundry to Landscape Graywater

Branched Drain System

"If you're not part of the solution, you're part of the precipitate."

Steven Wright



By Jim Coleman

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Thank You!!

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