

# F01: Pilot Projects for Biodiversity Conservation

LTA Rally 2007

**Living Lands Project Defenders of Wildlife** 



### LIVING LANDS:

Helping Land Trusts
Conserve Biodiversity



#### Living Lands Mission

To support and increase the capacity of the land trust community to conserve biodiversity on private lands through financial and technical assistance.



#### Living Lands: Why now?

- Standards 8, 11 and 12
- IRS and taxpayers need conservation donations to be worthy of a federal tax benefit
- Land trusts need to document "conservation purposes" in easement language
- Funders want strategic planning
- State Wildlife Action Plans

#### Survey Responses

- Assistance or training needs:
  - Conservation planning
  - Habitat restoration and management
  - Monitoring
  - Identifying funding sources



#### Living Lands Resources

• Land Trust Alliance regional conferences and Rally (2006, 2007, 2008)

• Written resources for land trusts: <a href="https://www.defenders.org/livinglands">www.defenders.org/livinglands</a>

Case studies

Small grants for biodiversity pilot projects

#### Pilot Projects Overview

• Purpose: to support and increase capacity of the land trust community to conserve biodiversity through technical and financial assistance.

- Types of projects considered:
  - capacity building
  - habitat restoration
  - remove a specific barrier to a project



#### Pilot Project Overview cont'd

- Criteria summary:
  - Local, regional or statewide land trust
  - Up to \$10,000 for a biodiversity project
  - 1:2 match
  - 2 year grant period
  - Land must be permanently protected



#### Pilot Projects

- Important dates
  - January 15, 2008 applications due
  - March 17, 2008 decisions made
  - May 5, 2008 grant period begins



#### Pilot Projects

- Applications online
  - www.defenders.org/livinglands



- Questions?
  - Aimee Weldon (Project Manager), aweldon@defenders.org
  - 1130 17th St NW, Washington DC 20036
  - -202-682-9400

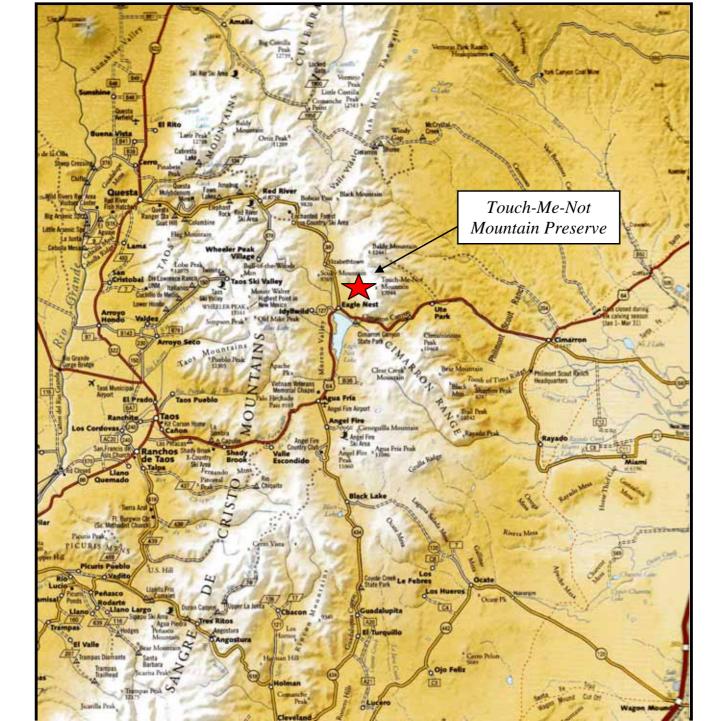
#### 2007 Pilot Projects

- \$59,300 awarded to 7 land trusts
  - Greenbelt Land Trust, OR
  - Teton Regional Land Trust, ID
  - Nisqually Land Trust, WA
  - Washtenaw Land Trust, MI
  - Eastern Sierra Land Trust, CA
  - Taos Land Trust, NM
  - Sudbury Valley Trustees, MA



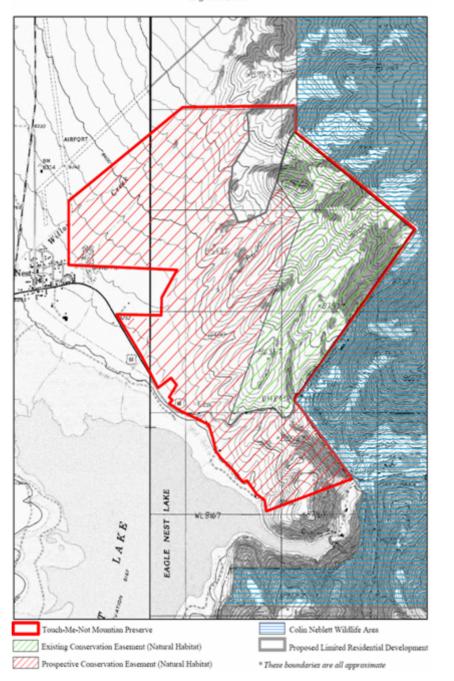






#### Touch-Me-Not Mountain Preserve

Eagle Nest, NM

















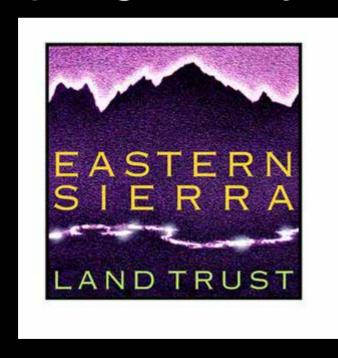






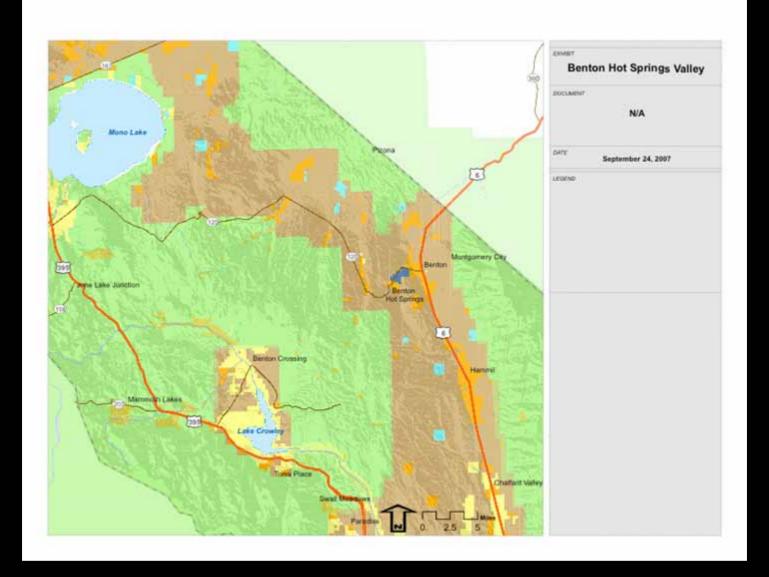
## Preserving Special Resources in Mono County, CA

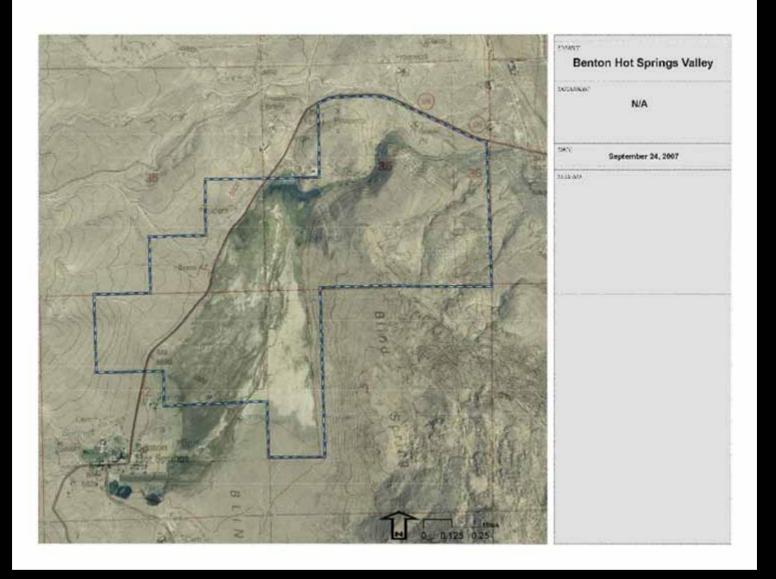
Benton Hot Springs Valley



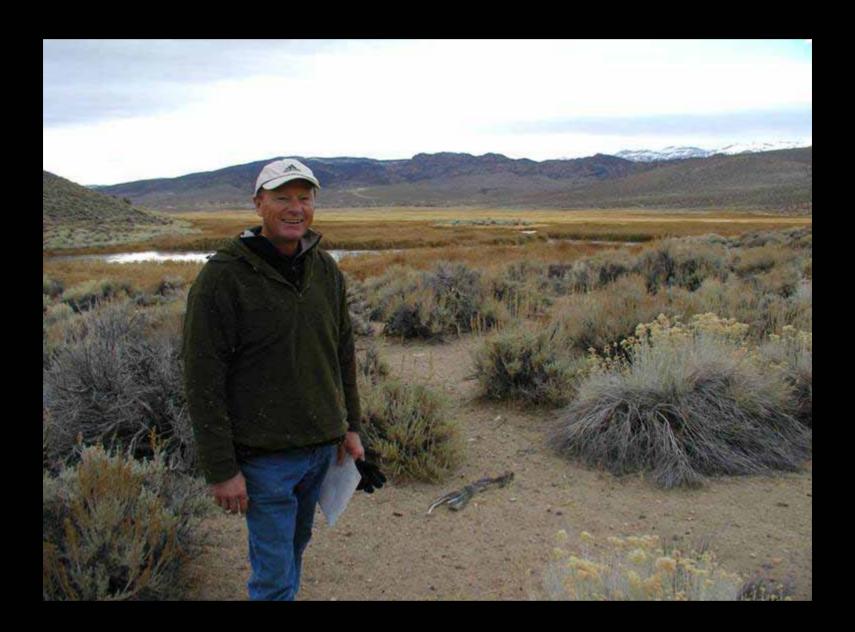








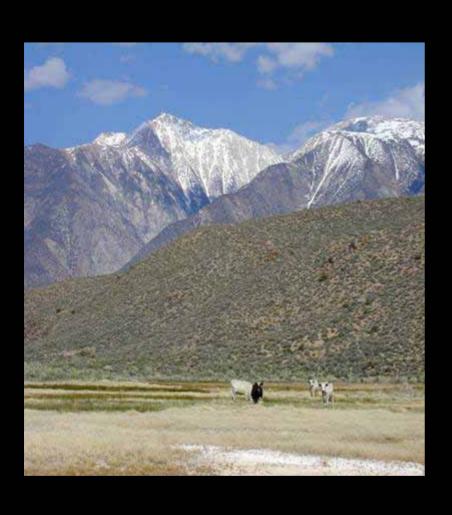






- CA Wildlife Action Plan recommends "agricultural and rangeland management practices that are compatible with wildlife and habitat conservation."
- Mono County General Plan states that property should remain ag land and wildlife habitat

#### Resources on the Property



- Agriculture
- Historic
- Wildlife
- Plants
- Wetlands
- Water
- Scenic



- 114 species of birds counted so far
- Bird list compiled by local Audubon Chapter



#### **Plant Habitats**

- Sagebrush scrub
- Wet meadow
- Alkali meadow
- Ponds, springs and seeps
- Riparian

















## Goals and Tasks for the Project



- Learn what resources are on the property
- Create effective and efficient monitoring protocol based on experience with the property
- Utilize grazing to enhance habitat and biodiversity
- Educate and engage communities based on resources of the property

# Reserved Rights and Restrictions for Benton Hot Springs Valley Conservation Easement



- Landowner can continue to use and enjoy the property
- Limited eco-tourism activities
- No new roads, subdivision, or development
- Continued grazing as guided by an adaptive Conservation Plan
- No water export

# Conservation Plan for Grazing Management

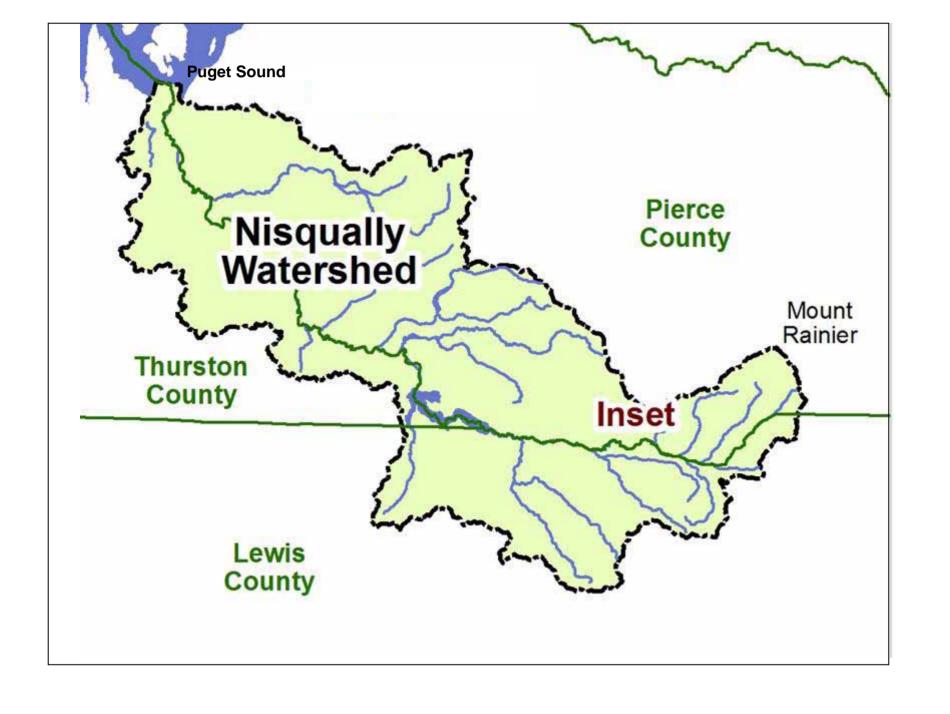


- Collaboration with landowner to ensure that habitats and water resources are maintained
  - Timing of grazing
  - Number of cattle
  - Best management practices
  - Maintenance and monitoring of springs and wetlands
  - Invasive species control

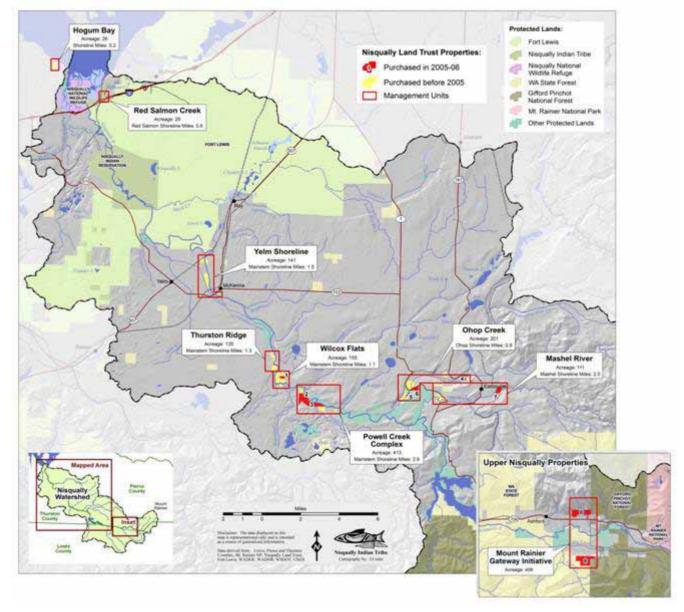


# Nisqually Land Trust Mount Rainier Gateway Initiative

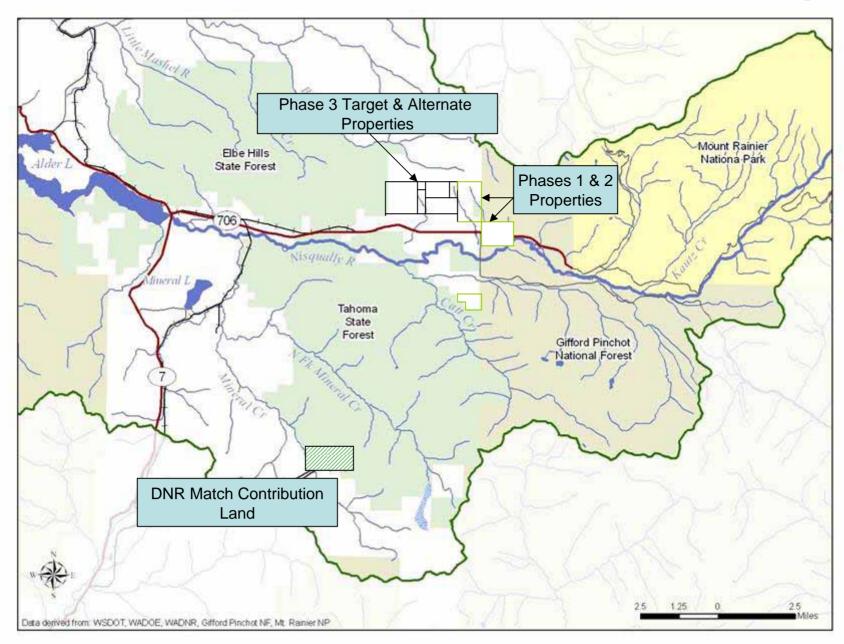


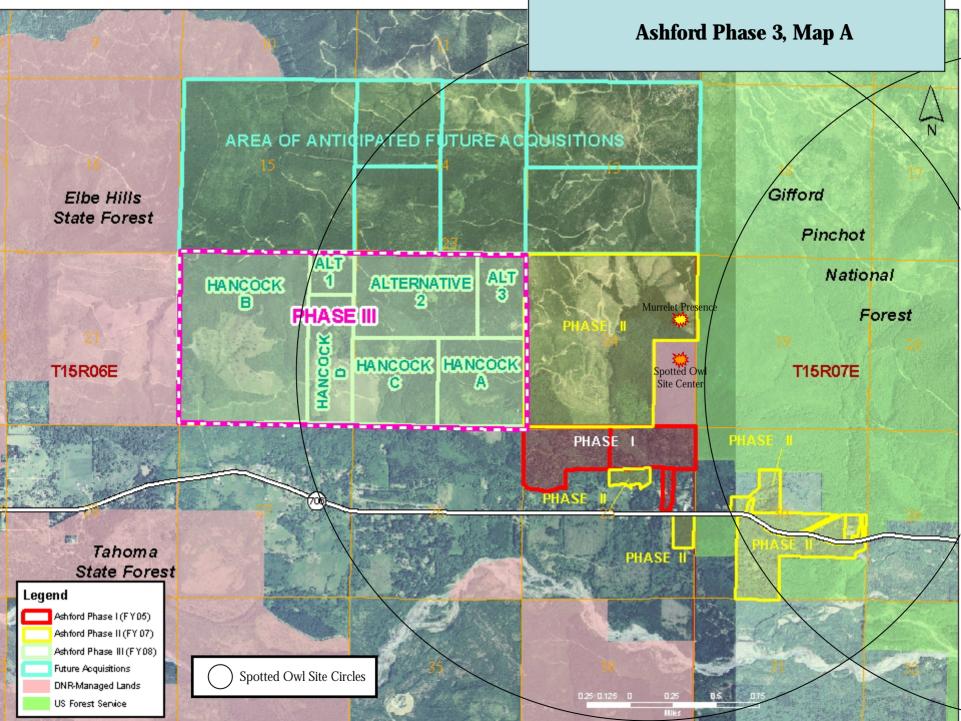


### Nisqually Land Trust Protected Properties 2006

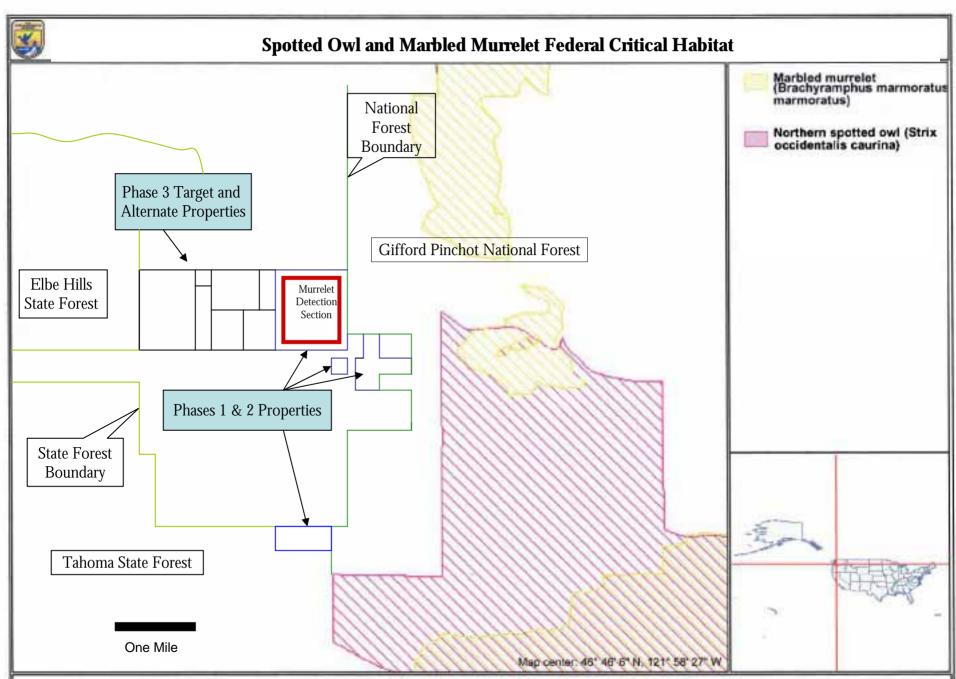


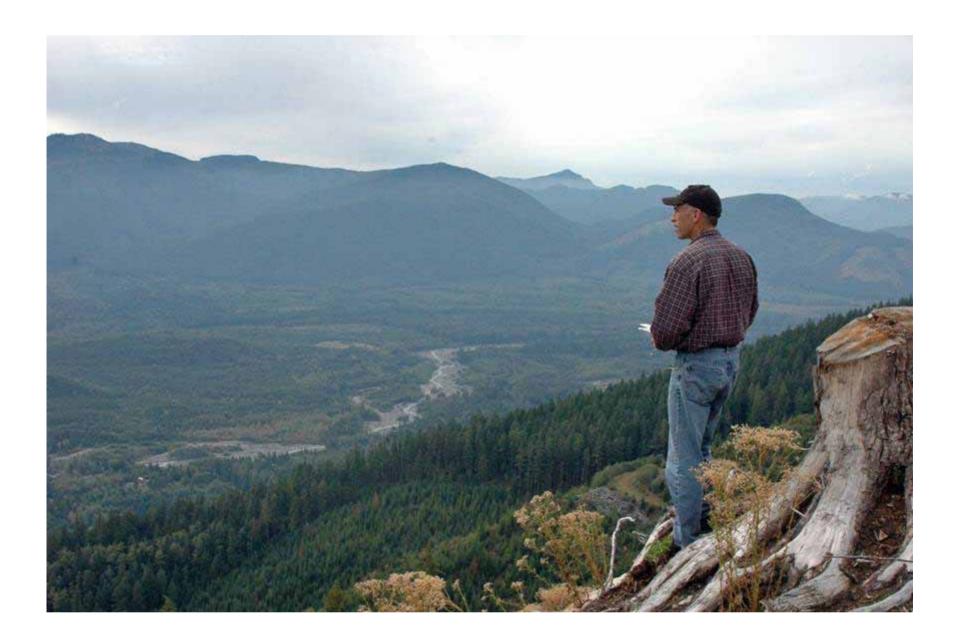
#### Ashford Phase 3 Map B



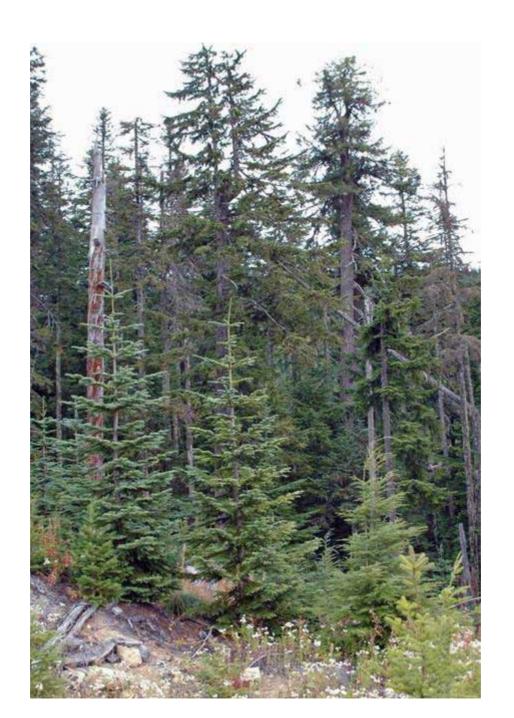


#### **Ashford Phase 3, Attachment 1**







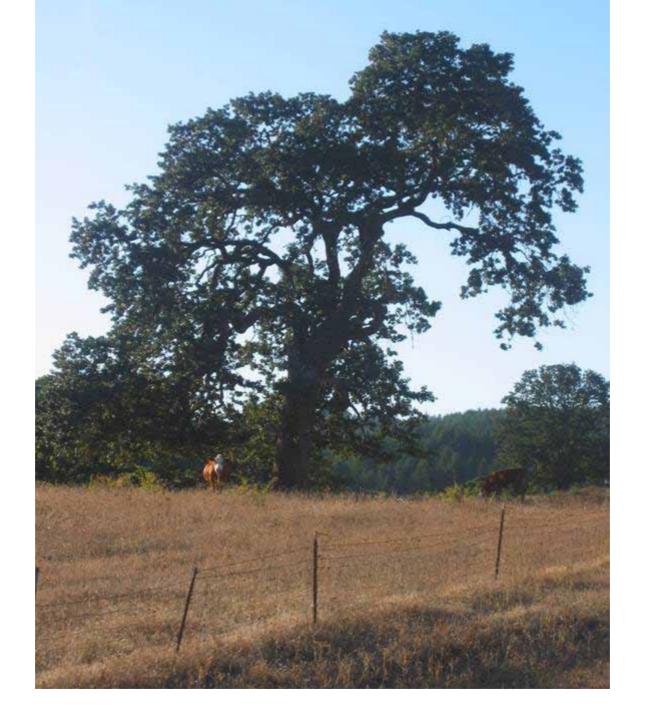






## Lone Star Ranch Easement

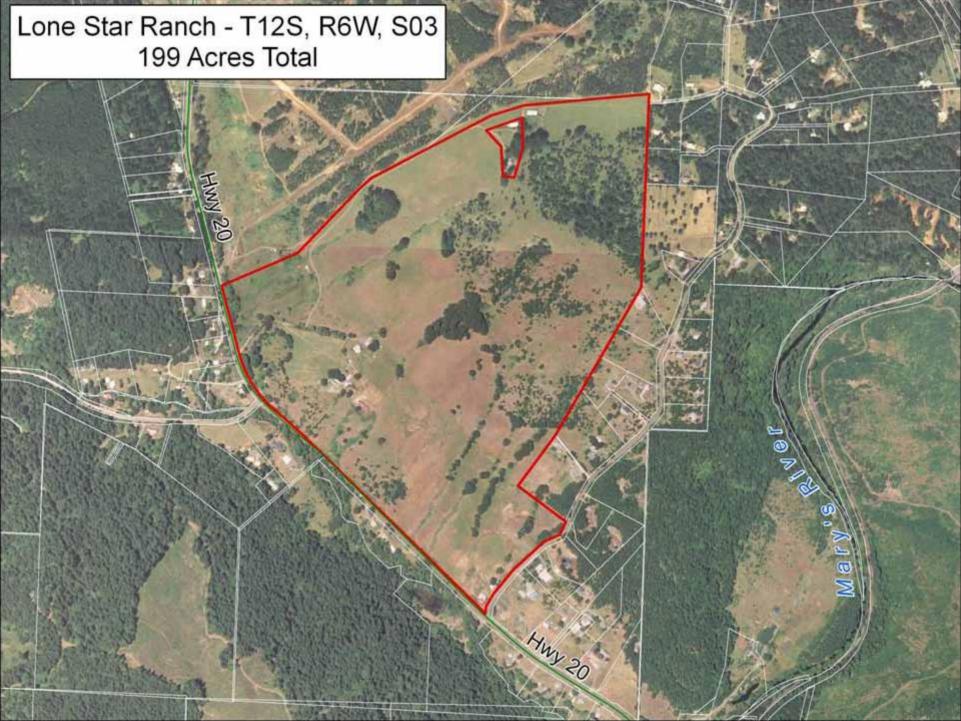
199 acres in Willamette Valley Oregon







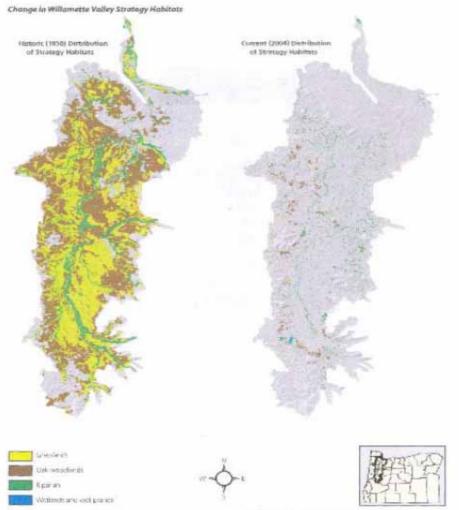






#### Summary List of Strategy Habitats

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Data Searce: Drogon Manual rendage Enformation Comer, 2007.



#### I live in the Willamette Valley ecoregion

The Willamette Valley ecoregion is the most urban in the state. It is also the fastestgrowing cooregion—it has nine of Oregon's ten largest cities. Fertile soil and abundant rainfall make the valley the most important agricultural region in the state. Culturally, the Willamette Valley is a land of contrasts. Bustling urban areas are nestled within productive farmland. Pressure on valley ecosystems from population growth,

productive farmland. Pressure on valley ecosystems from population growth land-use conversion and pollution is likely to increase as more people make the Valley their home.

Learning about the afrisk species and their habitats in your ecoregion gives you the information you need to get involved in conserving Oregon's fish and wildlife for your enjoyment and that of future generations.

#### Strategy Habitats and Species

Important habitats in the ecoregion include oak woodlands, grasslands (including oak savanna), wetlands, riparian and aquatic.

Strategy species in need of help include western gray squirrel, northern red-legged frog, foothill yellow-legged frog, northwestern pond turtle, western meadowlark, western bluebird, Oregon chub, Pácific lamprey and Fender's blue butterfly. See back of sheet for more information.

#### Northern red-legged frog: I live in the Willamette Valley ecoregion

Red-legged trogs like cool damp forests and wetlands. Adults have red underlegs, hence their name. Their decline in the northwest is due, in part, to habitat loss and invasive bullfrags.

Fun fact: It's unlikely you'll ever hear a red-legged frog call. They call underwater.

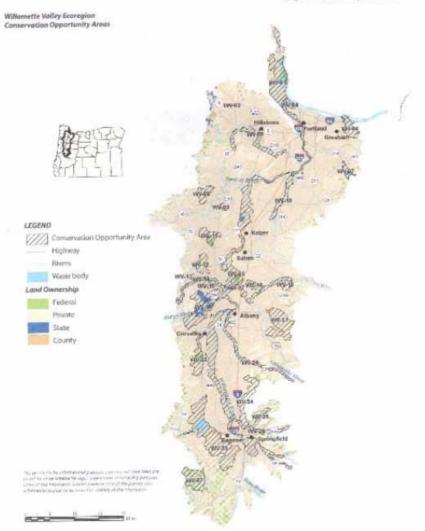




Valley

Corvallia Sweet Home

Eugene



#### Partial list of Oregon Conservation Strategy Willamette Valley Ecoregion Strategy Species and Invasive Species

Strategy species are species of greatest conservation need; they have low or declining populations due, many times, to habitat loss and degradation. *Invasive species* are non-native plants or animals that can negatively impact native habitats both economically and environmentally.

#### STRATEGY SPECIES

#### Mammals

Townsend's big-eared but Western gray squirrel

#### Plants

Golden paintbrush Kincaid's Inpine Neison's checker-mallow Peacock larkspur Willamette daisy

#### Amphibians and Reptiles

Northern red-legged frog Foothill yellow-legged frog Northwestern pund turtle Western named turtle

#### Invertebrates

American grass bug Fender's blue butterfly

#### Fish

Chinook salmon (Lower Columbia River ESU, spring run) Coastal cutthroat trout (SW Washington, Columbia River ESU) Coho salmon (Oregon Coast ESU) Oregon chub Pacific lamprey Steelhead (Lower Columbia River ESU, summer run) Western brook lamprey

#### Birds

Acora woodpecker Slender-billed mithatch Streaked horned lark Western bluebird Western meadowlark Western purple martin Yellow-breasted chat

#### INVASIVE SPECIES

#### Invasive Animals

Amur goby

Asian clam
Bullfrog
Carp (common, grass)
Eastern gray squirrel
Eastern snapping turtle
European starling
Fathead minnow
Feral swine

Fox squirrel Goldfish House sparrow Mosquito fish (Gambusia)

Mute swan Nutria

Oriental weather lish Red-eared slider turtle Viroinia opossum

#### Invasive Plants

Brooms (Scotch, Spanish, Portuguese) Butterfly bush English ivy Eurasium watermilfoil Fulse bronne Garlic mustard Gorse Himalayan blackberry Knotwords (Japanese, giant, Himalayan)

Kudzu Meadow knapweed Purple loosestrife Reed canary grass St. Johnswort

Tansy ragwort Yellow flag iris A complete list of Strategy species can be found on the ODFW Web site. Click Conservation Strategy on the home page.

#### ODFW OFFICES

Northwest Region Office,

Cluckamas (971) 673-6000

#### South Willamette Watershed

Office, Corvallis (541) 757-4186

#### Sauvie Island Office

(503) 621-3488

#### Springfield Office

(541) 726-3515

Find your local Watershed Council. (541) 682-8323 www.oregonwatersheds.org/

For more information on the Oregon Conservation Strategy, visit the Oregon Department of Fish and Wildlife Web site.



Oregon Department of Fish and Wildlife

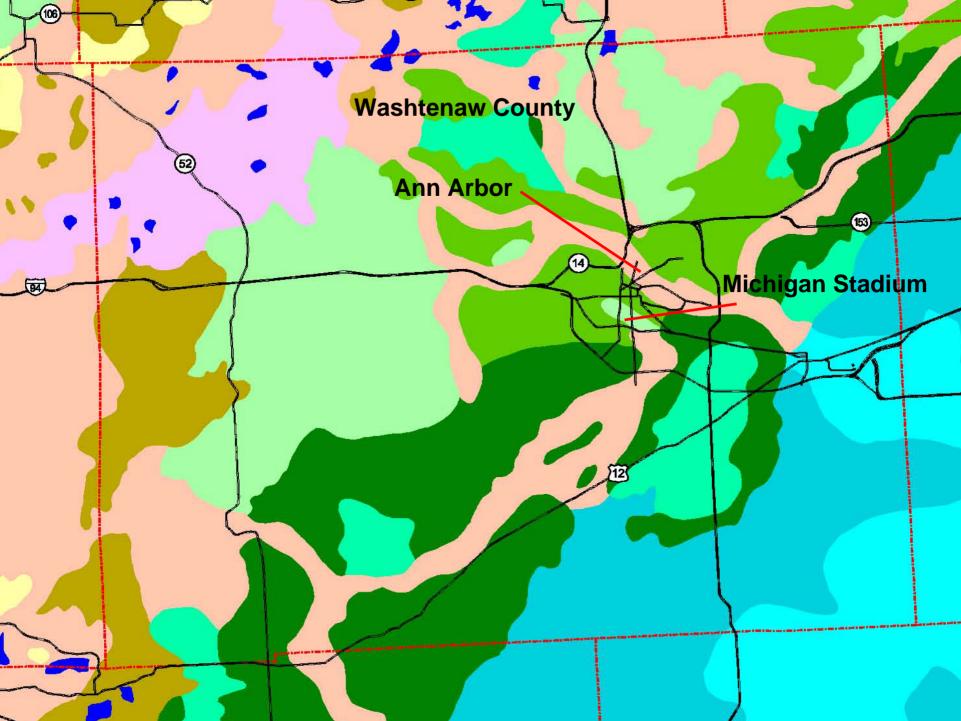
3406 Cherry Avenue NE Salem, OR 97303 503-947-6000

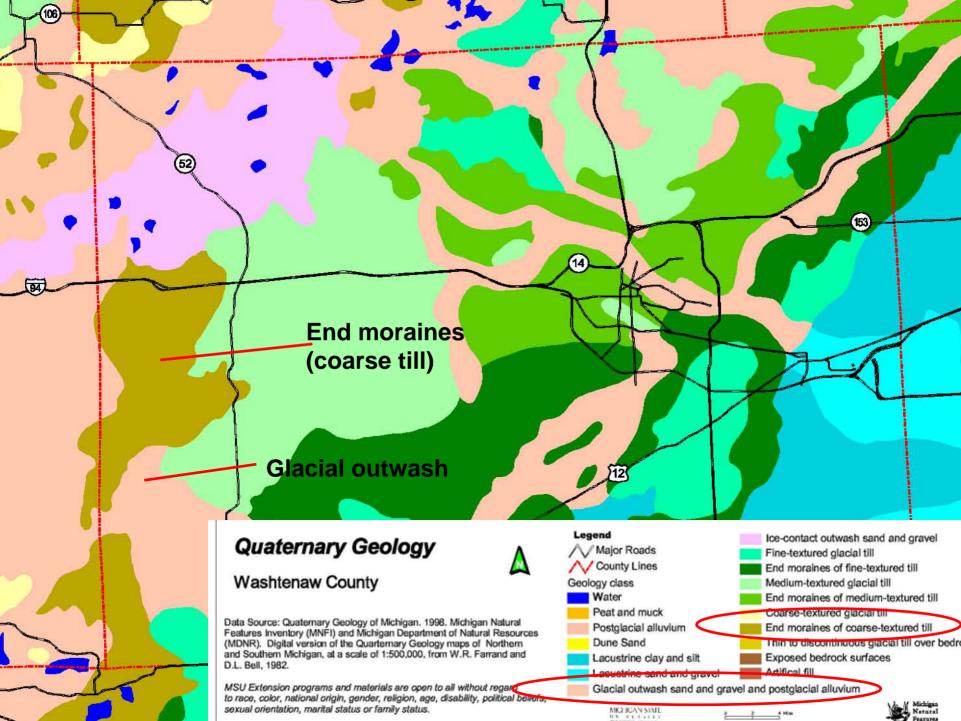


# The Mill Creek Fen Project - Species Protection in Southeast Michigan

Presented by Mark Patrick
Land & Operations Manager
Washtenaw Land Trust, Ann Arbor, MI











© Daria Hyde, MNFI

# Mitchell's Satyr

Federally listed endangered species

Only 21 known active sites (19 in MI)

Seems restricted to calcium/magnesium rich areas (tamarack fens)

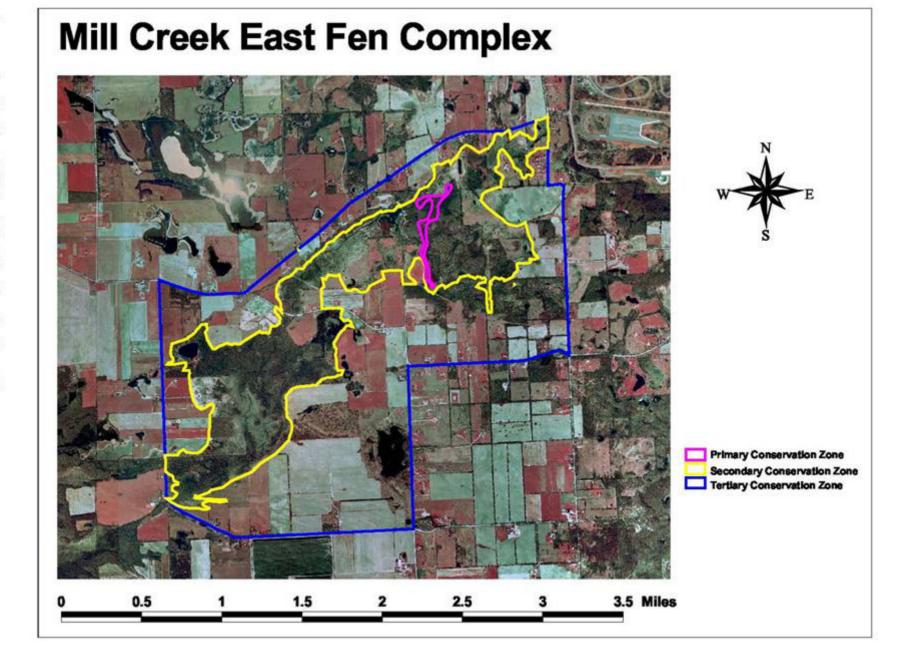


Figure 5. Mill Creek East Fen Complex

# E. Massasauga Rattlesnake State species of special concern Federal candidate species





 1832 – Family given land in Michigan Land Grant

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- 1950's Family allows researchers on fen

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- 1965 1 Satyr found
- 2000 17 Satyrs found

# Mill Creek Timeline -cont.

 2005 – Court orders resolution of family estate among siblings, potentially through sale of land

# Mill Creek Project Partners













# Accomplishments

- Survey & Appraisals done Spring 2007
- Land/property disputes resolved
- Easement finalized September 2007
- 124 acres protected, including primary conservation zone

# Challenges

Balancing habitat management vs.
 landowner's needs – burn example

Grazing concerns

Boundary dispute (from 1837!)

# Long Term Goals

- Additional conservation easements on surrounding properties
- Permanent protection of 100% of Mitchell's satyr colonies
- Partner with Huron River Watershed Council to implement water quality plan
- Support MNFI, MDNR(LIP), in maintaining fen habitat





























# Teton Regional Land Trust





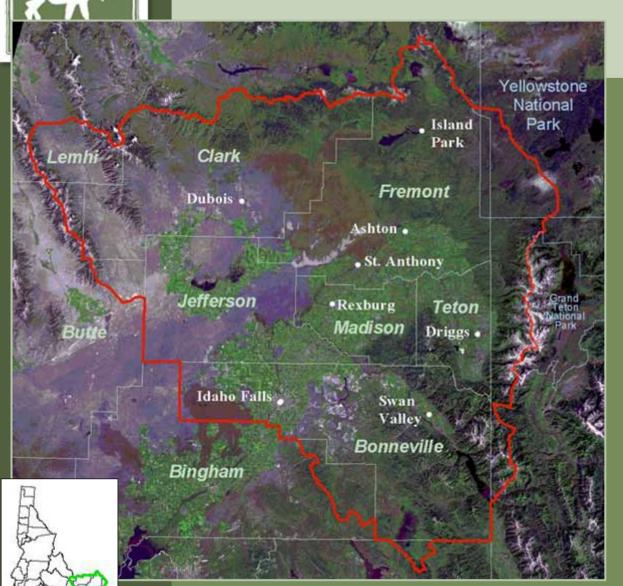






Riparian Biodiversity Restoration and Capacity Building—Teton River Restoration Project

#### **Our Service Area**

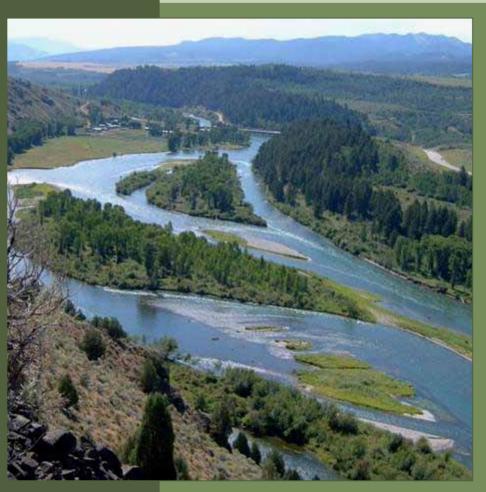


#### Our Mission

. . . to conserve agricultural and natural lands and to encourage land stewardship in the **Upper Snake River** Watershed for the benefit of today's communities and as a legacy for future generations.



# Priority Natural Resources Dependent on Private Lands



- Wetlands, Wetlanddependent Birds
- Native Trout, Riparian
   Corridors
- Big Game Winter Range& Migration Corridors
- Rare Upland Birds
- Rare Plants and Communities
- Strategic Ranch Lands
- State High-Quality Farmland



# Strategic Program for Protecting Priority Natural Resources

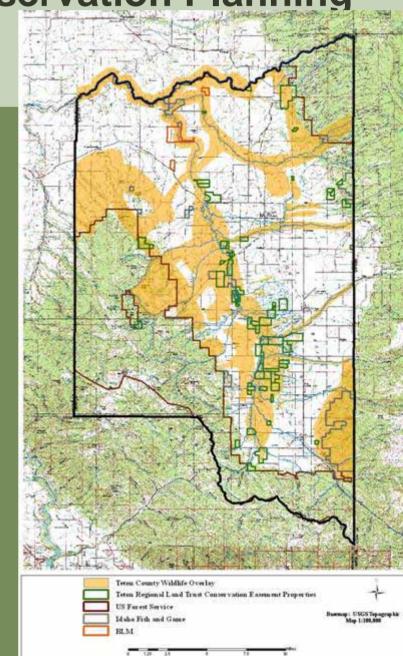


- Strategic land protection
- Collaborative conservation planning
- Resource surveys-Ecological monitoring
- Targeted restorationbenefits to high priority conservation species
- Partnerships



**Collaborative Conservation Planning** 

- Working with multiple partners
- Identify priority habitats and wildlife use areas
- Strategic land protection
- Targeted restoration/ enhancement





#### Restoration



- Program guided by BOD-approved policies
- Project must be approved by the BOD
- Willing landowner, on easement-protected land
- Suitable management scenario for protecting investment
- Target priority species and have landscape-scale benefits

Riparian, wetland and upland restoration



# Riparian Biodiversity Restoration and Capacity Building—Teton River Restoration Project

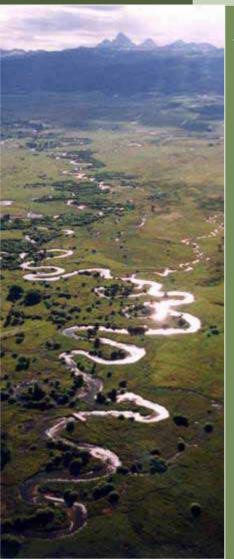


- Landowner action and initiative
- Located on 200-acre easement property protecting ~1 mile of the Teton River
- Property is active cattle ranch
- Managed for fish and wildlife





# **Project Goals**



#### **Short-Term**

- Develop restoration plan to optimize property's value to conservation priority species
- Have restoration expert mentor Land Trust staff during project planning & implementation
- Implement restoration plan using contractors & volunteers

#### Long-Term

- Improve instream & riparian habitat conditions for conservation priority species
- Cooperatively steward the project with landowner to maximize biodiversity
- Increase Land Trust staff ability to complete large-scale restoration



# **Priority Species**









- Idaho Comprehensive Wildlife Conservation Strategy—Species of Greatest Conservation Need
- Rocky Mountain Population
   Trumpeter Swan Implementation Plan
- Idaho Department of Fish and Game Fisheries Management Plan
- Idaho Partners in Flight Plan
- Teton Basin Important Bird Area

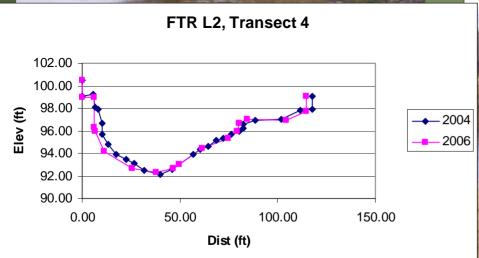




### **Project Accomplishments**

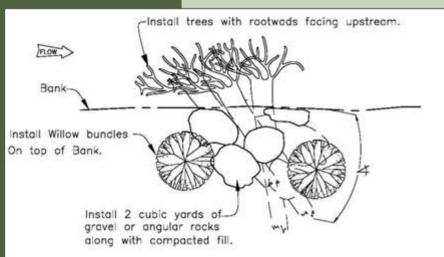


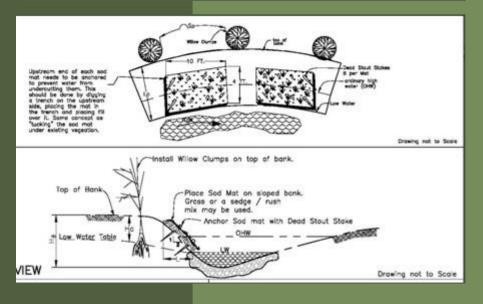
- Reach Assessment by restoration expert
- Land Trust staff training



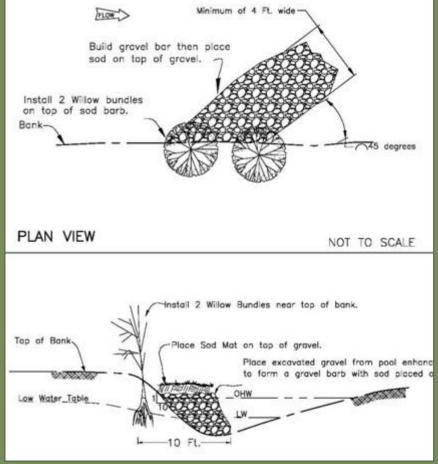


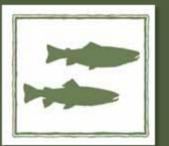
# **Project Accomplishments**





#### Design development





# **Project Accomplishments**





# **Capacity Building**



Restoration expert mentoring through:

- Technical review
- Project and staff evaluation during and after implementation
- Final report evaluating project, staff



# **Project Monitoring**



A legacy of Lands in the Upper Snake River Valley



### **Partnerships**















- Landowners
- Volunteers
- NRCS
- US Fish and Wildlife Service
- National Fish and Wildlife

#### **Foundation**

- Defenders of Wildlife
- Trout Unlimited
- Foundations
- Idaho Dept Fish & Game