



October 2015 Grant Cycle Review Process

1

- **187 applications checked, scanned, entered into database**

2

- **Reviewers read applications and visit sites**

3

- **Regional Review Team Meetings**

4

- **OWEB staff funding recommendations**



Regional review teams - process

(a) Review projects based on criteria in OAR 695-010-0060 and recommend:

- A. Do fund
- B. Fund with conditions
- C. Do not fund

(b) Prioritize projects recommended for funding based on:

- A. Meeting the criteria established in OAR 695-010-0030 and OAR 695-010-0060
- B. Certainty of success
- C. Benefit to watershed function, habitat, water quality
- D. Project costs relative to watershed benefits



Regional review teams - tools



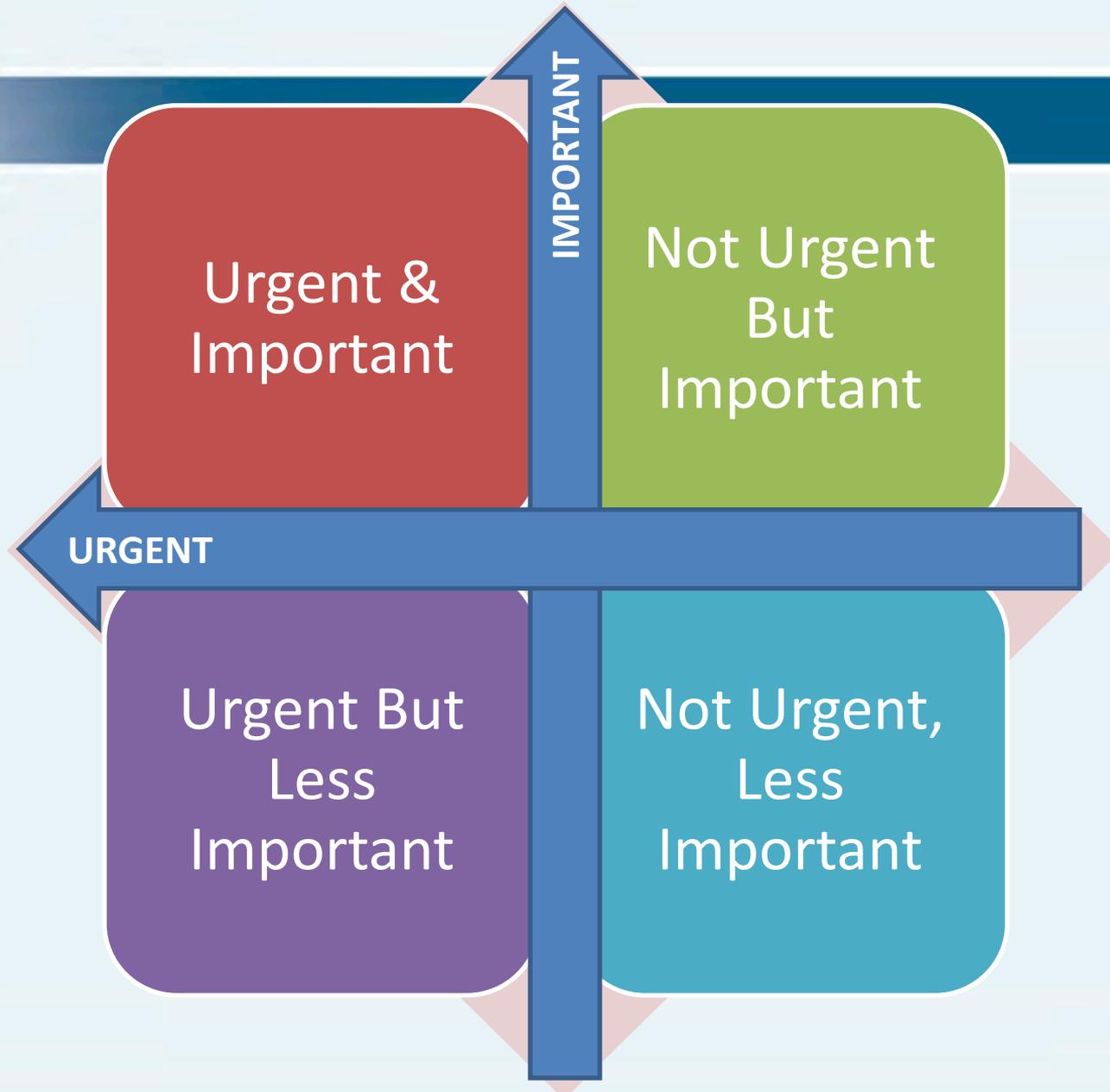
*IS THE PROJECT THE RIGHT ACTION,
RIGHT TIME, RIGHT LOCATION?*

Can the actions or watershed benefit(s) at project location wait?

Are the actions so important to the resource, you would pay any price for the project.

Is the project urgent?

Does the project improve-protect ecosystem process and function?



Urgent & Important

Not Urgent But Important

URGENT

Urgent But Less Important

Not Urgent, Less Important

IMPORTANT



Salmon license plate projects



Application Number	Title	Project Objectives	Total Project Cost	Salmon License Plate Contribution
216-1034	Claskanie Fish Passage Phase 3	Two culvert replacements that will open up 3.4 miles of habitat.	\$330,000	\$72,336
216-2045	Ross Slough Channel & Riparian Habitat Restoration	Reconfigure 2 miles of channel, correct 2 fish passage barriers, plant and protect riparian/wetland vegetation.	\$335,031	\$66,119
216-3039	Upper Sandy River Basin Habitat Restoration Project	Re-activation of side channels, alcoves, and large wood placement.	\$232,166	\$50,000
216-6055	Bull Run Large Woody Debris	Install large woody debris across 2 miles of Bull Run Creek.	\$61,645	\$61,545
			Total	\$250,000



Sage-grouse projects

Application Number	Application Type	Title	Project Objectives	Dedicated Sage Grouse Funding
216-4015	Technical Assistance	Crooked River Watershed Sage Grouse Conservation II	Complete Site Specific Plans (SSP) to implement habitat restoration.	\$49,995
216-4022	Monitoring	Assessing Juniper Re-Occupation Effects	Monitor re-occupation of juniper seedlings in a previously treated area.	\$39,550
216-4012	Restoration	Sabre Sage Steppe & Wetland Enhancement	Wetland/riparian fencing, weed control, shrub planting.	\$272,413
216-5040	Restoration	Kill Medusahead in Lava Land	Noxious weed control.	\$73,429
216-5037	Restoration	Coyote Creek Riparian and Upland Restoration	Juniper removal and re-seeding.	\$109,922

Total \$545,309





Staff recommendations

REGION	Monitoring	Outreach	Restoration	Technical Assistance	TOTALS
Region 1 <i>North Coast</i>	\$186,638	\$48,819	\$1,036,728	\$69,999	\$1,342,184
Region 2 <i>South Coast</i>	\$246,619	\$44,186	\$1,236,622	\$148,854	\$1,676,281
Region 3 <i>Willamette Basin</i>	\$0.00	\$96,867	\$1,086,975	\$96,695	\$1,280,537
Region 4 <i>Central Oregon</i>	\$39,550	\$27,773	\$705,835	\$64,724	\$837,882
Region 5 <i>Eastern Oregon</i>	\$165,995	\$47,549	\$960,151	\$78,560	\$1,252,255
Region 6 <i>Mid Columbia</i>	\$309,467	\$44,440	\$1,137,296	\$164,458	\$1,655,661
TOTALS	\$948,269	\$309,634	\$6,164,407	\$623,290	\$8,045,600



**Open Solicitation Grant
Program's Focus on
THE MANY FACES OF
ECOLOGICAL
UPLIFT**

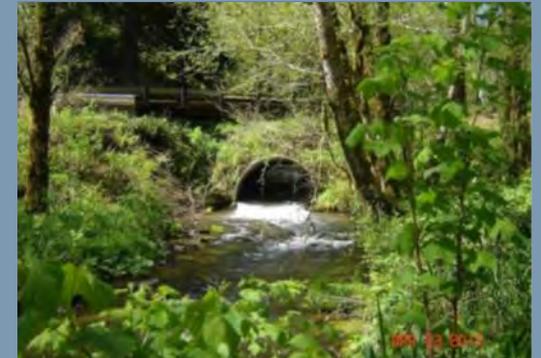
WHAT IS ECOLOGICAL UPLIFT?

ECOLOGY = Interactions Between Organisms & Their Environment.

UPLIFT = The Act, Process, or Result of Raising or Lifting Up.

Remove physical barriers to provide uplift

Replace culverts to provide access

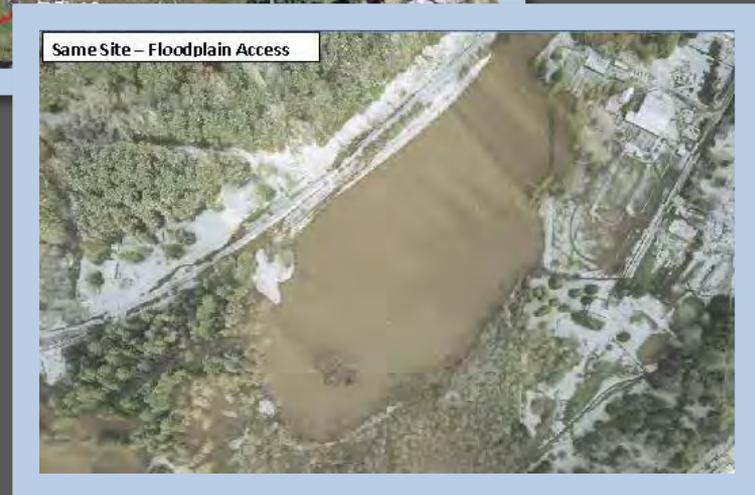
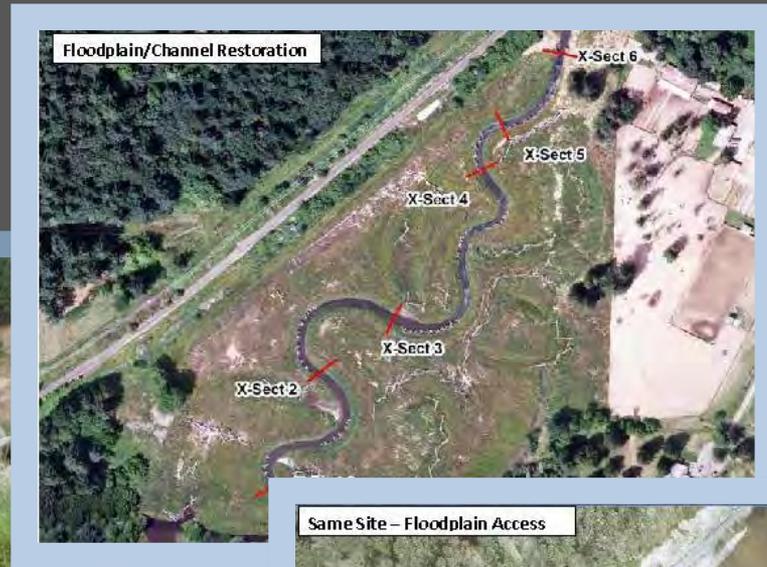


WHAT IS ECOLOGICAL UPLIFT?

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Increase available habitat with large wood placement and floodplain access



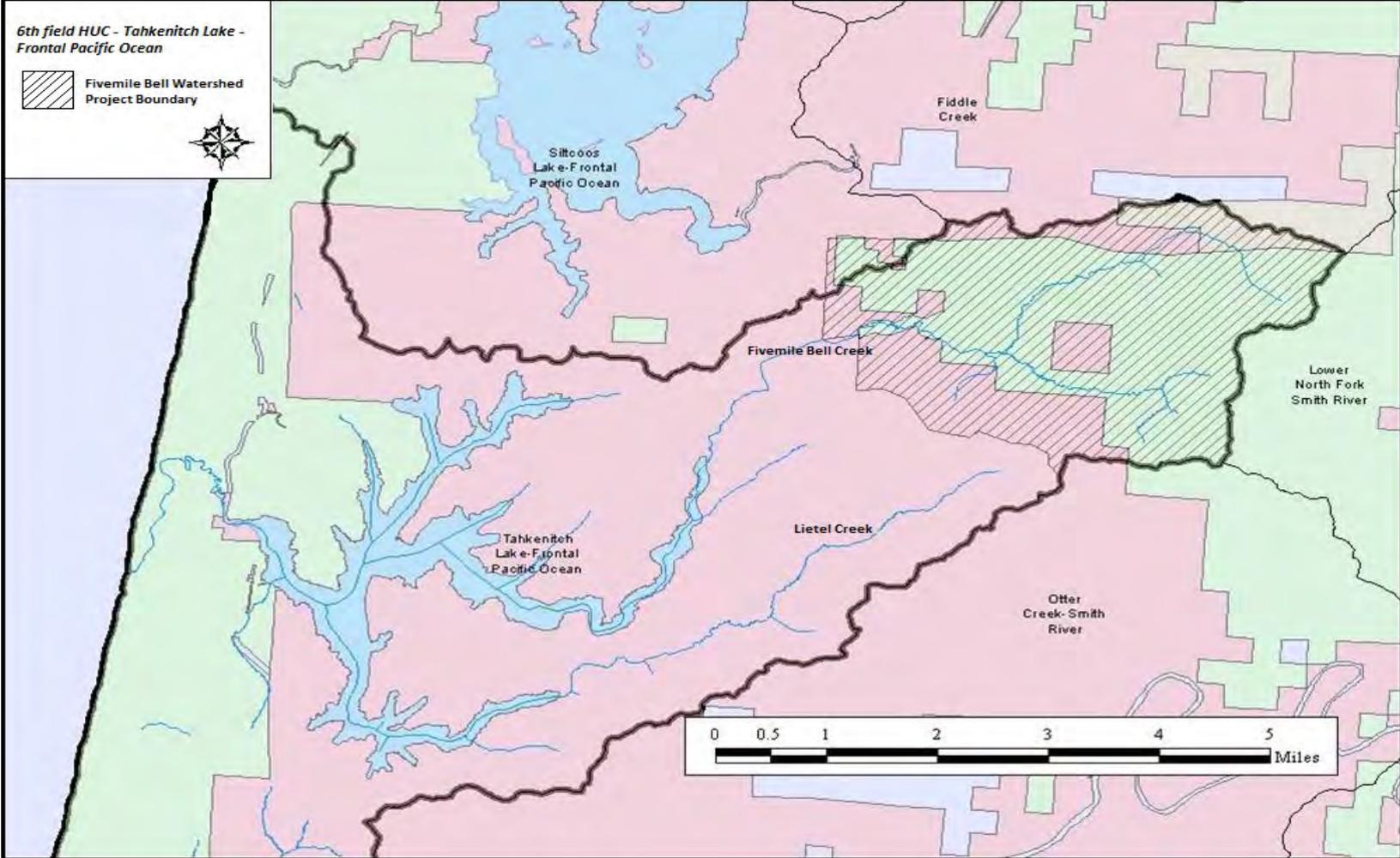
Region 1 – North Coast



Landscape scale watershed restoration

OWEB

Stage III Fivemile Bell Restoration



Region 1 – North Coast



Landscape scale watershed restoration

Stage III Fivemile Bell Restoration





Limiting Factors

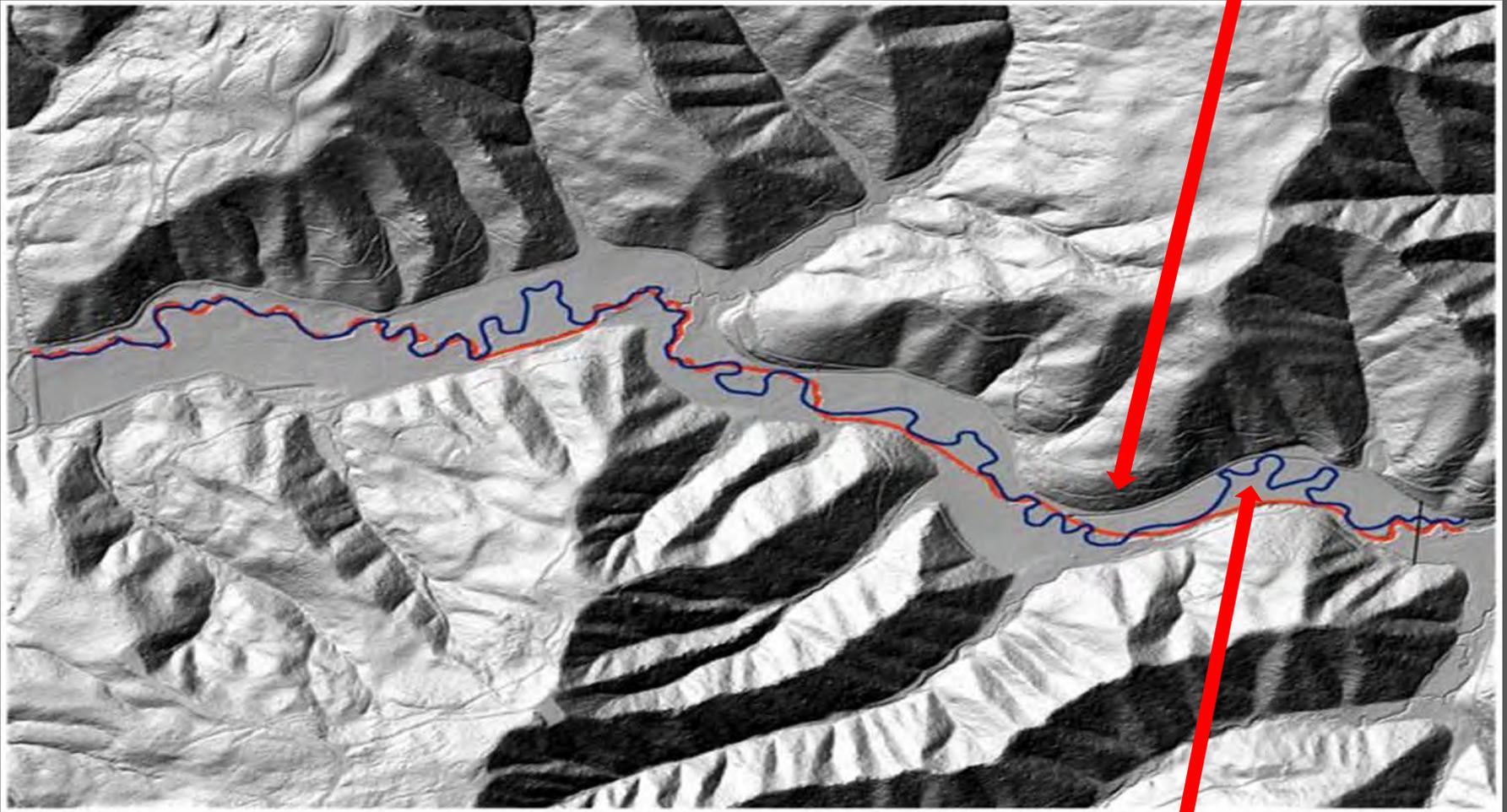
- **Simplified stream system**
- **Loss of over 30% of historic stream length**
- **Loss of stream habitat complexity and diversity**
- **Loss of historic riparian habitat**
- **Infestation of invasive plant species**



Region 1 – North Coast

Limiting Factors

Incised channels



Channels straightened & pushed to edge

Region 1 – North Coast



Ecological Lift- Oregon Coast coho and aquatic habitat



2012



2015



- 4 miles of stream reconstruction
- 5 miles of large wood placement
- 125 acres of re-grading and native plant community restoration
- 6 miles of road decommissioning

Region 1 – North Coast



Ecological Lift- beyond fish



*Reference Site:
Leitell Creek*

- **Restoration of early seral habitat and plant community complexity**
- **Reduction of invasive vegetation**
- **Broad mix of woody and herbaceous species**
- **Restoration of biologically and structurally diverse native plant communities**

Region 1 – North Coast Ecological Lift- beyond fish



- **Restoration of early seral habitat and plant community complexity**
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- **Restoration of biologically and structurally diverse native plant communities**

Region 2 - Southern Oregon



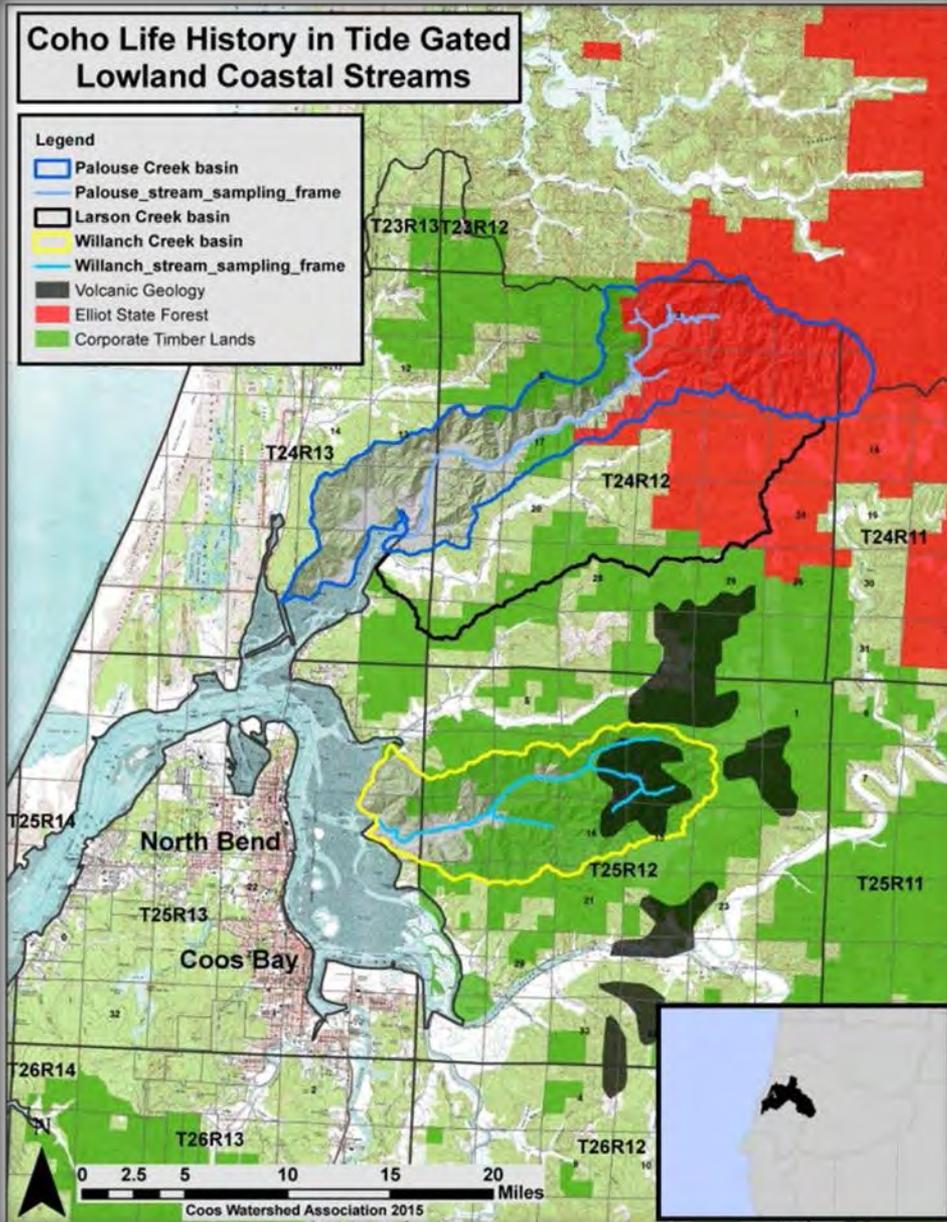
Coho Limiting Factors in Estuary and Small Direct Estuary Tributaries

Region 2 - Southern Oregon

*Coho Limiting Factors in Estuary and
Small Direct Estuary Tributaries*



Region 2 - Southern Oregon



Restoration Grant #216-2068
Coos Watershed Association
Coho Life History in Tide-Gated
Lowland Coastal Stream

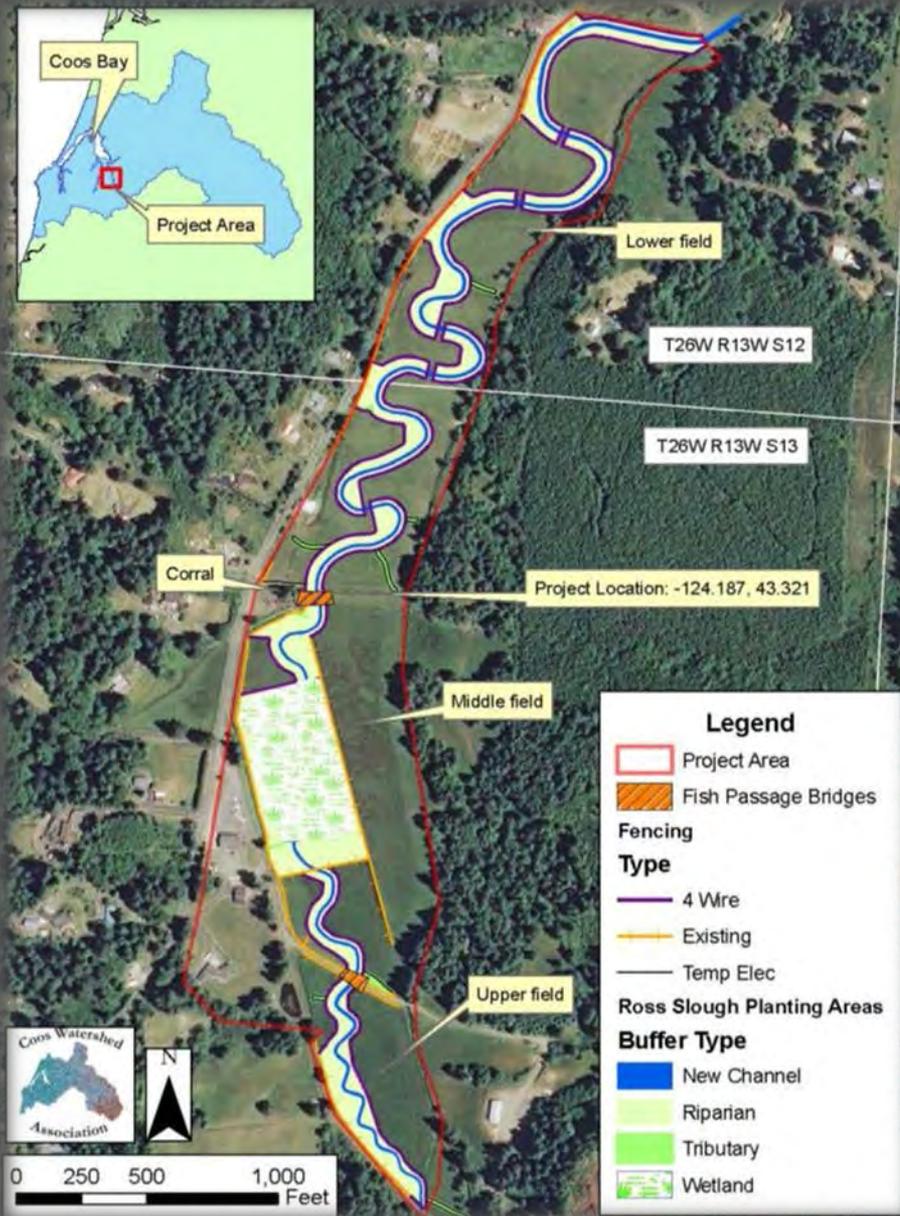
Region 2 - Southern Oregon



Restoration Grant #216-2068
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Region 2 - Southern Oregon



Restoration Grant #216-2045
Coos Watershed Association Ross
Slough Channel and Riparian
Habitat Restoration

**Restoration Grant #216-2045
Coos Watershed Association Ross
Slough Channel and Riparian
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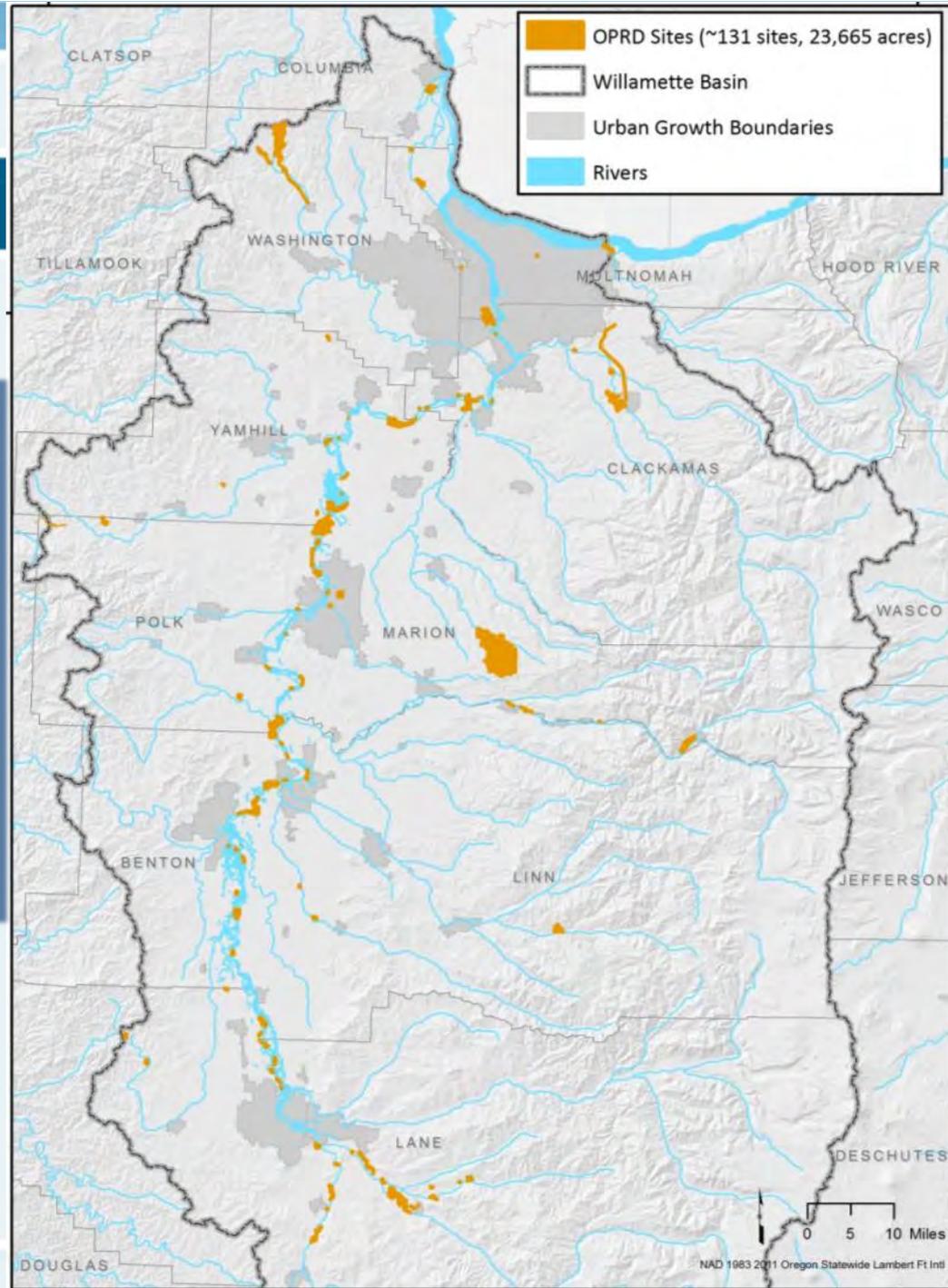


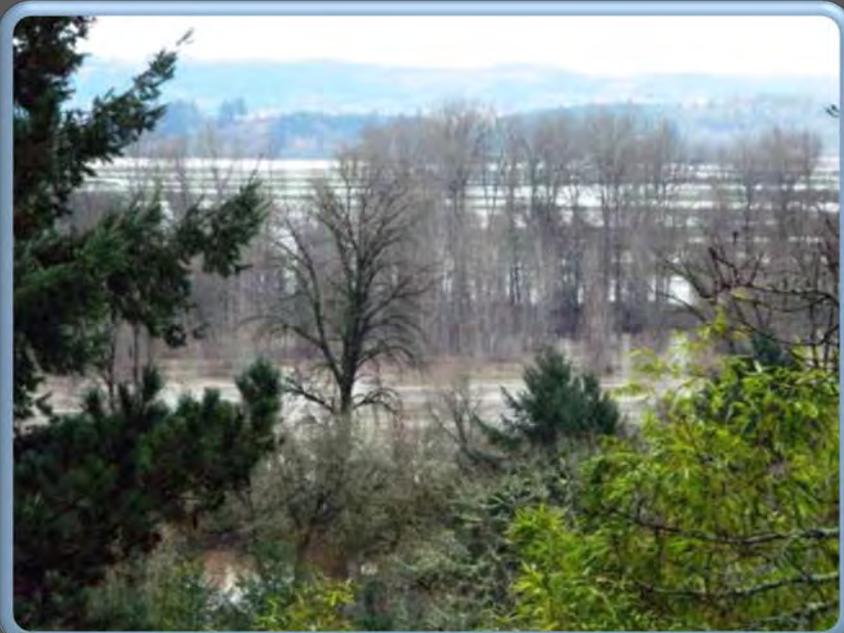


OPRD WILLAMETTE BASIN

PROPERTY PORTFOLIO:

- 131 properties
- 23,665 acres
- Size ranges from: smallest: 0.23 ac
largest: 9,141 ac
- Habitats, including floodplain, riparian areas, oak, & prairie, support a diversity of native fish & wildlife species





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Sara Viernum

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WATERSHED
COUNCILS

SWCDs

TRIBES

LANDOWNERS

NGOs

Volunteers

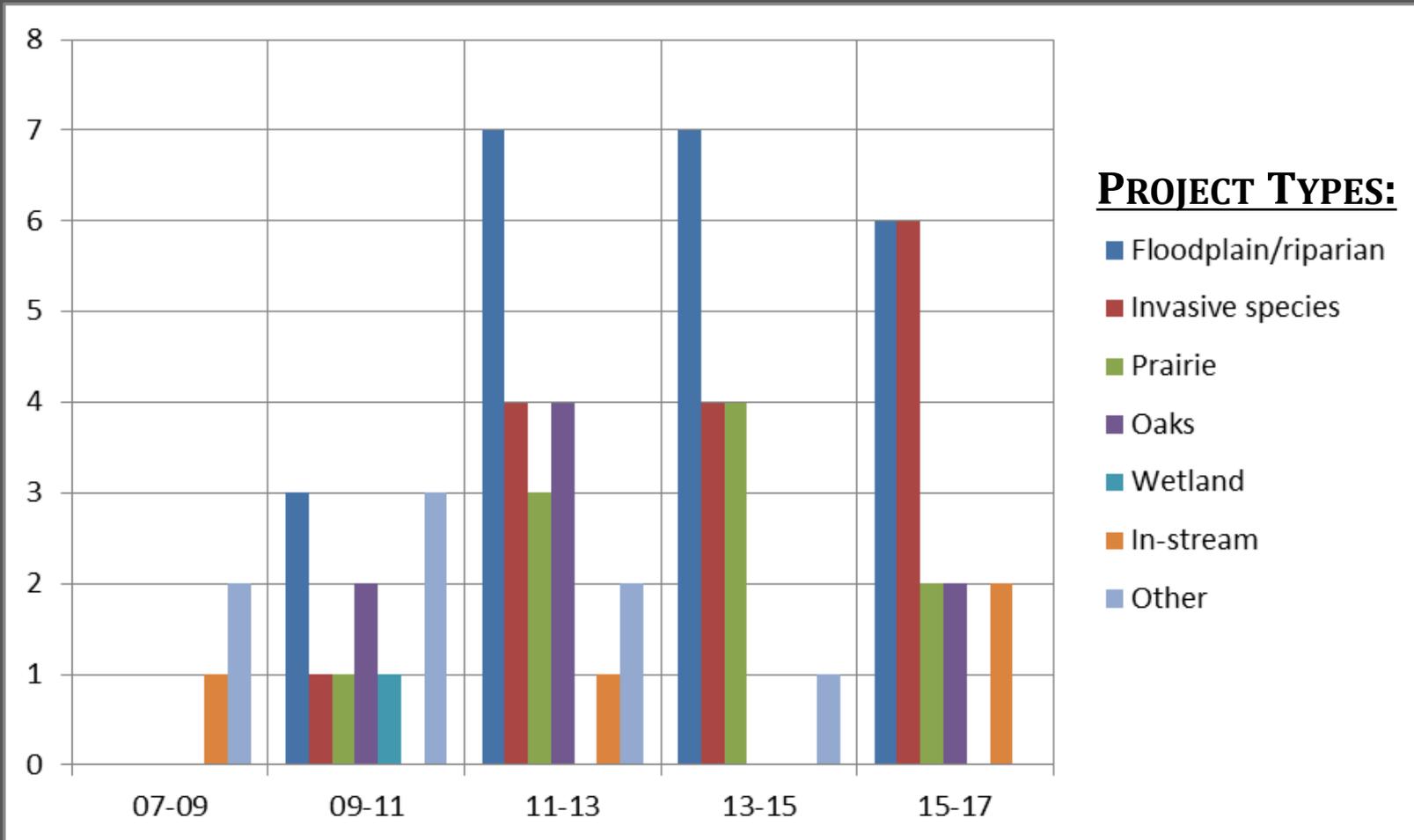
STATE &
FEDERAL
AGENCIES

PUBLIC &
PRIVATE
FUNDERS



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RESTORATION UNDERWAY



*Showing only Willamette Basin projects receiving Stewardship section funding

*Does not include Forestry projects

TECHNICAL ASSISTANCE LEADS TO ECOLOGICAL UPLIFT

Renewing a Habitat

Like a beautiful painting marred by age and neglect, a damaged ecosystem can be restored.



Luckiamute State Natural Area is being transformed. All around you, restoration crews have been replacing invasive weeds with native plants. Why? Native plants are better at stabilizing stream banks, shading rivers, and providing habitat for fish and wildlife.



Monocultures occur when invasive weeds take over. They contain very few plant types and are not as effective at absorbing floodwater and filtering out pollutants from the soil.

Why are the plants in rows?

Planting native trees and shrubs in tight rows encourages quick canopy cover and prevents weeds from taking over. You can visit www.LuckiamuteLWC.org to learn more.



Oregon grape
(*Mahonia aquifolium*)



Douglas Spirea
(*Spiraea douglasii*)



Indian Plum
(*Oemleria cerasiformis*)



Red Elderberry
(*Sambucus racemosa*)

These four native plants provide food and shelter to many kinds of birds and animals. Look carefully as you walk along the trail. Can you identify them?

Luckiamute State Natural Area



CHALLENGES:

- Partner enthusiasm to do work without clear direction, resulting in scattered approach
- Lack information on needs & opportunities
- Lack ability to forecast funding needs
- Insufficient “stewardship” resources & approaches to preserve existing ecological values

EXPECTED RESULTS FROM TA INVESTMENT:

- Effectively mobilize ready partners & queue up prioritized projects
- Scale up successful stewardship strategies
- Identify new funding mechanisms
- Identify additional partnership approaches to increase capacity for stewardship

TECHNICAL ASSISTANCE LEADS TO ECOLOGICAL UPLIFT

COST

BENEFIT



EFFECTIVE INVESTMENT = ECOLOGICAL UPLIFT

Region 4 – Central Oregon

Outreach Grant #216-4016 Hood River SWCD

Hood River Irrigation Water Management Training



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Hood River Irrigation Water Management Training



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Hood River Irrigation Water Management Training



BLAINE FRANGER / BEAUTIFULHOODRIVER.COM

- Up To 85% of streamflow is diverted for irrigation in July/August

Region 4 – Central Oregon

Outreach Grant #216-4016 Hood River SWCD
Hood River Irrigation Water Management Training



- July/August is rearing for ESA listed Salmon/steelhead smolts & Chinook spawning

Region 4 – Central Oregon

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Region 4 – Central Oregon

Outreach Grant #216-4016 Hood River SWCD
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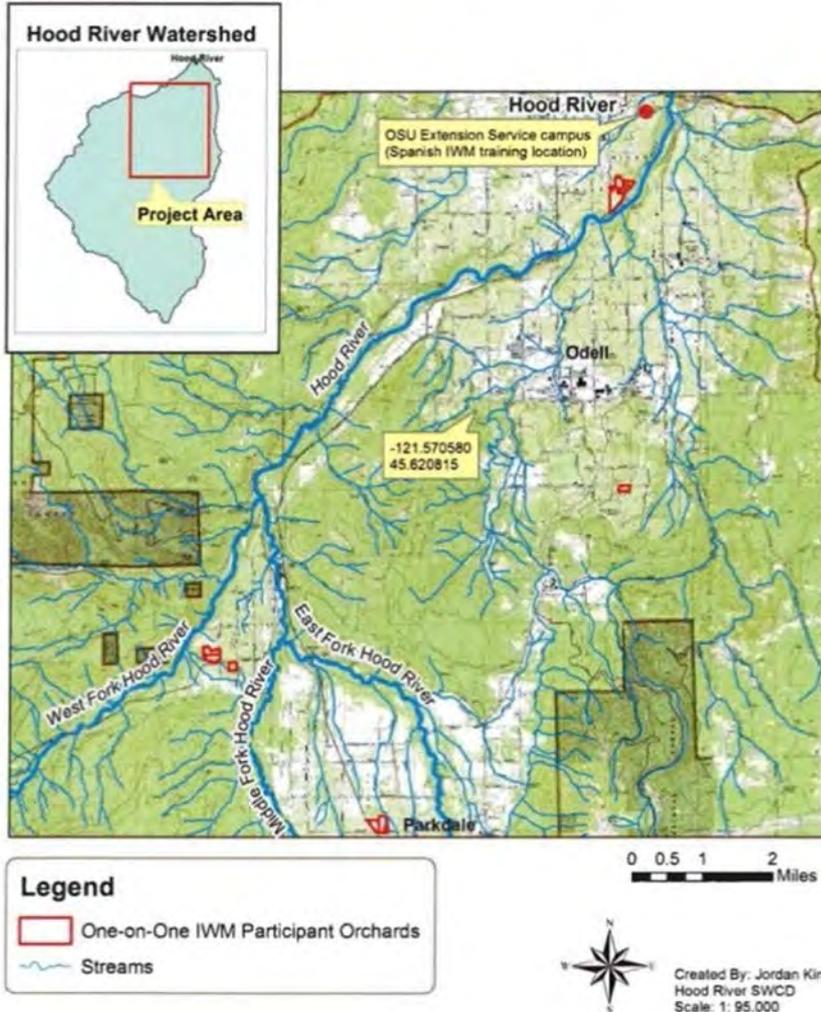


On-Farm Management Changes = Conserved Water (up to 32cfs) & Conserved Energy

Region 4 – Central Oregon

216-4016

Hood River Irrigation Water Management Training Project Activity Location Map



Outreach Grant #216-4016
Hood River SWCD
Hood River Irrigation Water
Management Training



Region 4 – Central Oregon

Hood River Irrigation Water Management Training

216-4016

One-on-One IWM Participant Orchard Locations

Landowner: Erin Roby
Site Address: 1760 Copper Dam Rd., Hood River, OR 97031
Legal Description: T2N, R10E, S11 Tax Lots: 1000, 2200, 300



Legend

- One-on-One IWM Participant Orchards
- Proposed Flow Meter
- Streams

0 250 500 1,000
Feet



Created By: Jordan Kim
Hood River SWCD
Photo Date: 2014

Outreach Grant #216-4016

Hood River SWCD

Hood River Irrigation Water
Management Training



Ecological Uplift = Conserved Water

Societal Uplift = Inspire Change

Region 5 – Eastern Oregon

Restoration Grant #216-5059

NE Oregon Post Fire – Seed & Seedling Acquisition



Phillips Creek Fire

Total Fire Size: 2,598 Acres

Private Land Acres: 602

Forested Acres: 340

Cornett/Windy Ridge Fires

Total Fire Size: 103,822 Acres

Private Land Acres: 46,613

Forested Acres: 17,806



Region 5 – Eastern Oregon

Restoration Grant #216-5059

NE Oregon Post Fire – Seed & Seedling Acquisition



Eldorado Fire

Total Fire Size: 13,127 Acres

Private Land Acres: 12,790

Forested Acres: 662

Eagle Complex

Total Fire Size: 12,294 Acres

Private Land Acres: 463

Forested Acres: 418



Region 5 – Eastern Oregon

Restoration Grant #216-5059

NE Oregon Post Fire – Seed & Seedling Acquisition



Grizzly Bear Complex

Total Fire Size: 75,530 Acres

Private Land Acres: 6,808

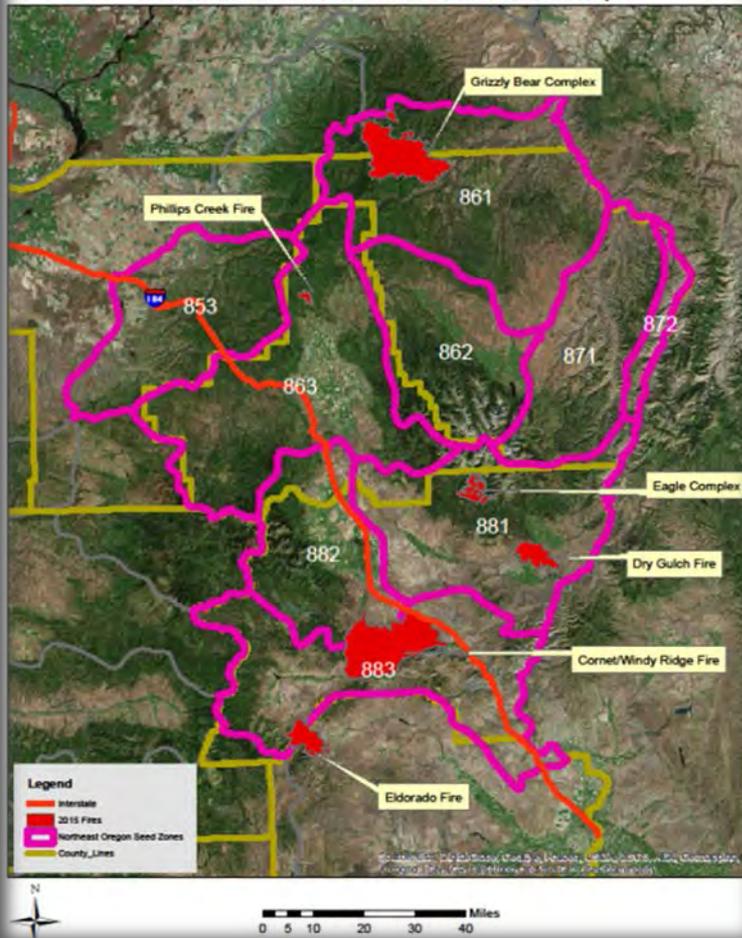
Forested Acres: 2,482

Region 5 – Eastern Oregon

Restoration Grant #216-5059

NE Oregon Post Fire – Seed & Seedling Acquisition

Seed Zone Collection/2015 Fires Map



207,371 Acres Burned

Fires Burned Across Many Different Forest Types, Conditions, and Elevations.

Challenge = Lack of Site Specific, Species Specific, Seed

Region 5 – Eastern Oregon

Restoration Grant #216-5059

NE Oregon Post Fire – Seed & Seedling Acquisition

Seed Collection & Propagation = Complex
Collection Considerations = Soils, Slope, Aspect, Elevation



Collecting, Processing, Growing-Out

Region 5 – Eastern Oregon

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Collecting, Processing, Growing-Out

Region 5 – Eastern Oregon

Restoration Grant #216-5059

NE Oregon Post Fire – Seed & Seedling Acquisition



Ecosystem Uplift = Forests Restored

Region 5 – Eastern Oregon

Restoration Grant #216-5059

NE Oregon Post Fire – Seed & Seedling Acquisition



Ecosystem Uplift = Forests Restored



Region 6 – Mid-Columbia

Mountain Creek Watershed

Ecological Uplift:

The difference between baseline conditions and restored conditions





Region 6 – Mid-Columbia

Mountain Creek Watershed

Ecological Uplift:

The difference between baseline conditions and restored conditions

***From
this...***



From this...



... to this



... to this





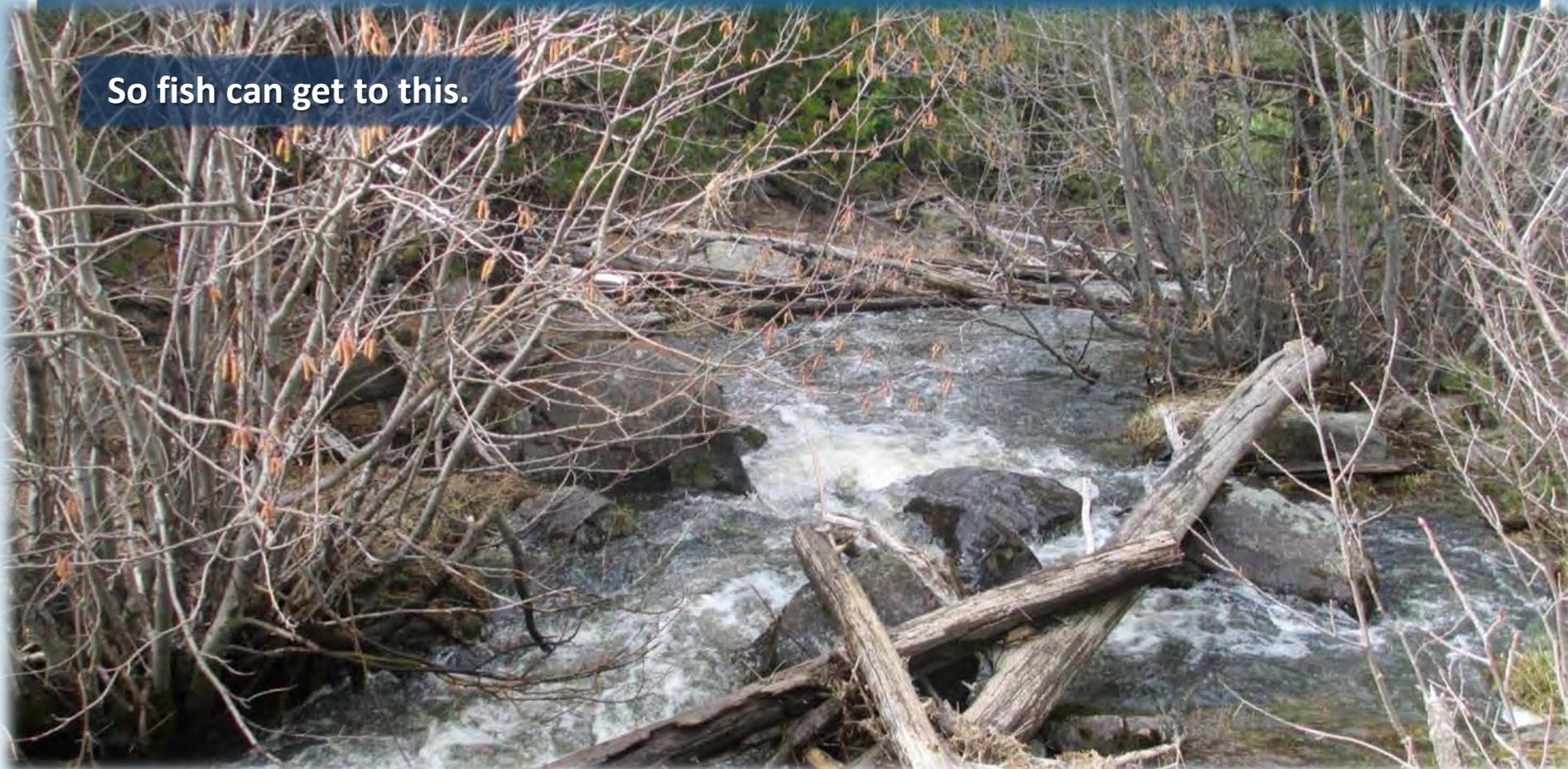
Region 6 – Mid-Columbia

Mountain Creek Watershed

Ecological Uplift:

The difference between baseline conditions and restored conditions

So fish can get to this.



Region 6 – Mid - Columbia

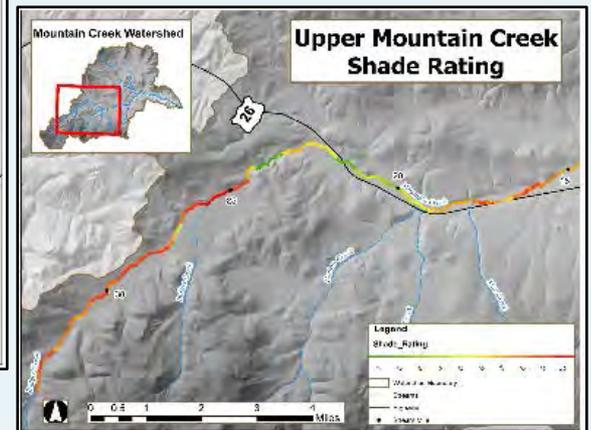
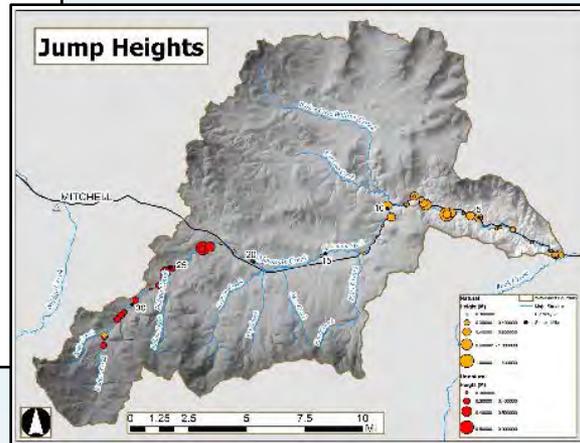


First, strategic planning and landowner engagement

MOUNTAIN CREEK REACH EVALUATION



Wheeler Soil and Water Conservation District
PO Box 431
Fossil, OR 97830
December 2011



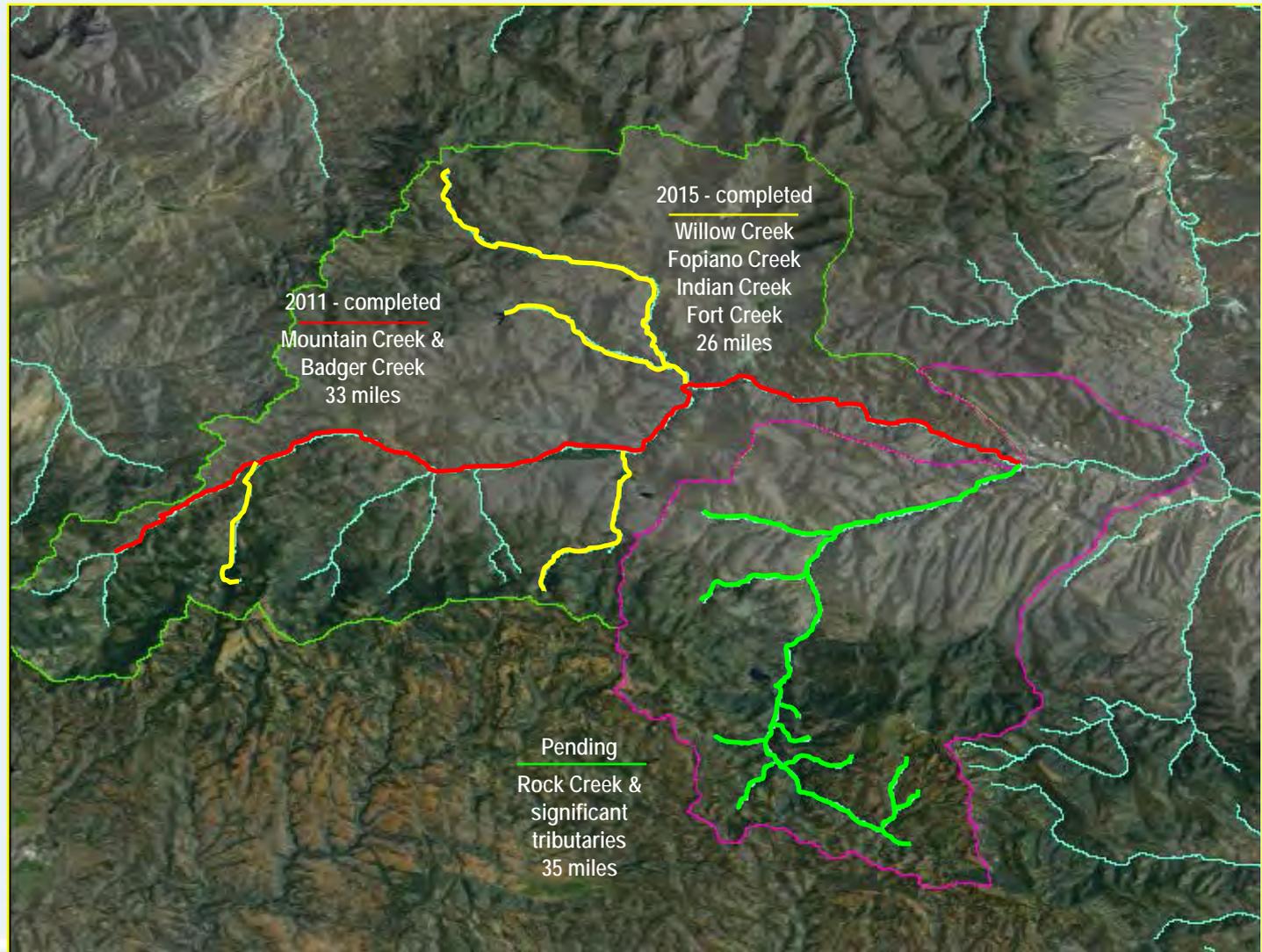
Survey Data Collected:

- Unit number
- Unit type (pool, riffle, glide)
- Percent flow
- Width
- Depth
- Percent slope
- Shading
- Percent substrate composition
- Boulder count
- Percent active erosion
- Small/Medium/Large wood
- Passage barrier

Region 6 – Mid - Columbia

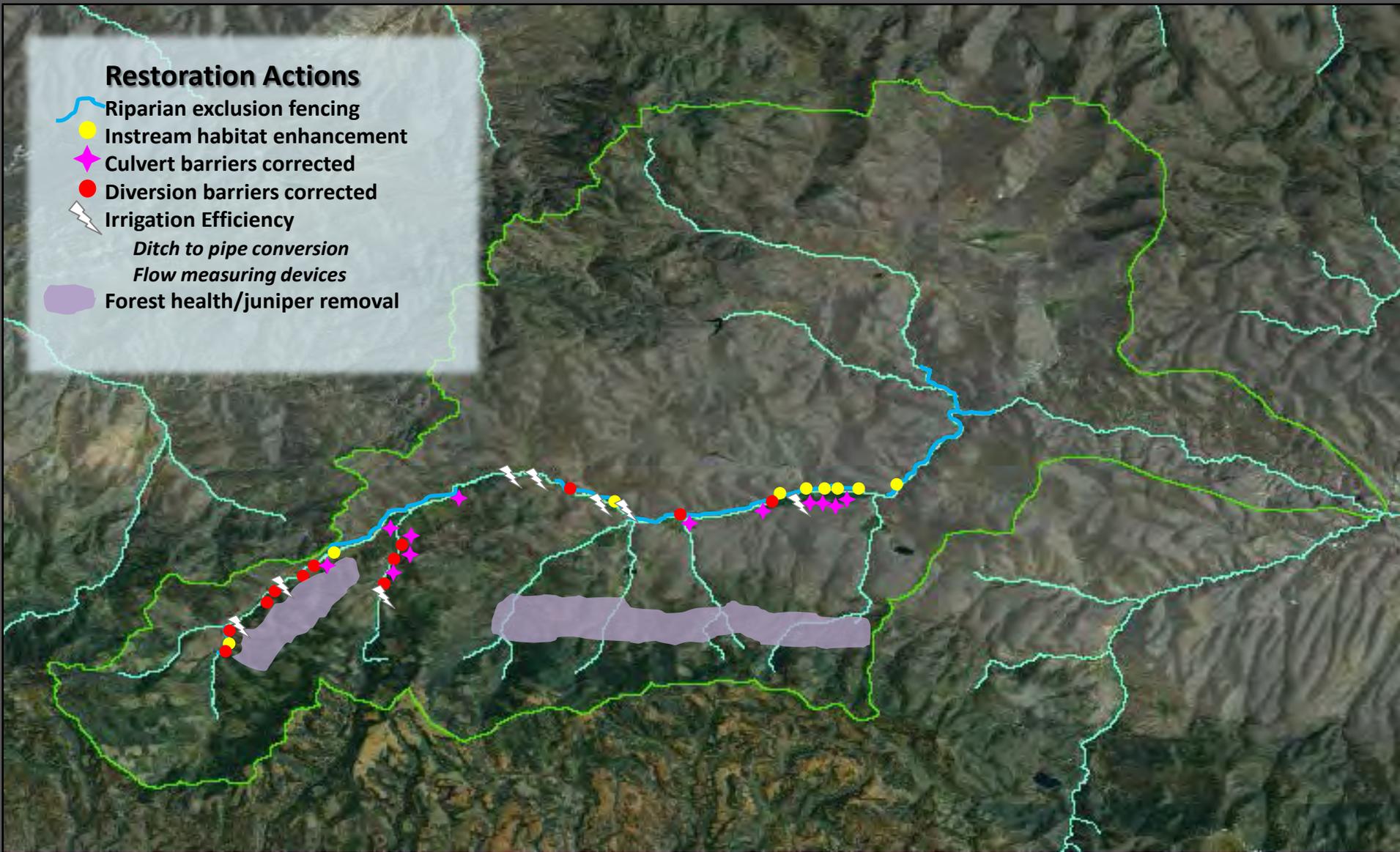


First, strategic planning and landowner engagement



Region 6 – Mid - Columbia

Next, partnerships and implementation





Sandy River – Post Marmot Dam Removal