



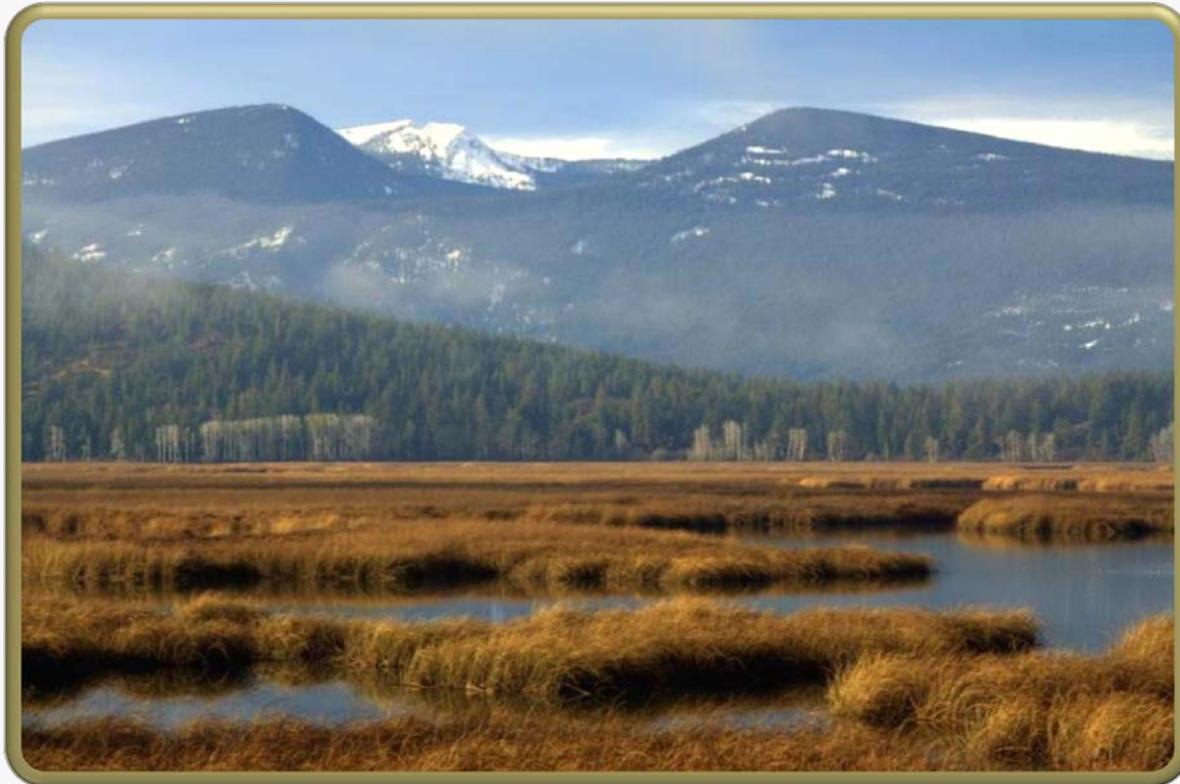
UPPER KLAMATH SPECIAL INVESTMENT PARTNERSHIP



UKWUA
Upper Klamath Water Users Association



The Nature Conservancy 





Partnership Summary

Upper Klamath SIP initiated January 2012

Funding Partners:

- OWEB
- NFWF





Partnership Summary, contd.

Strategic Partners — UKCAN:

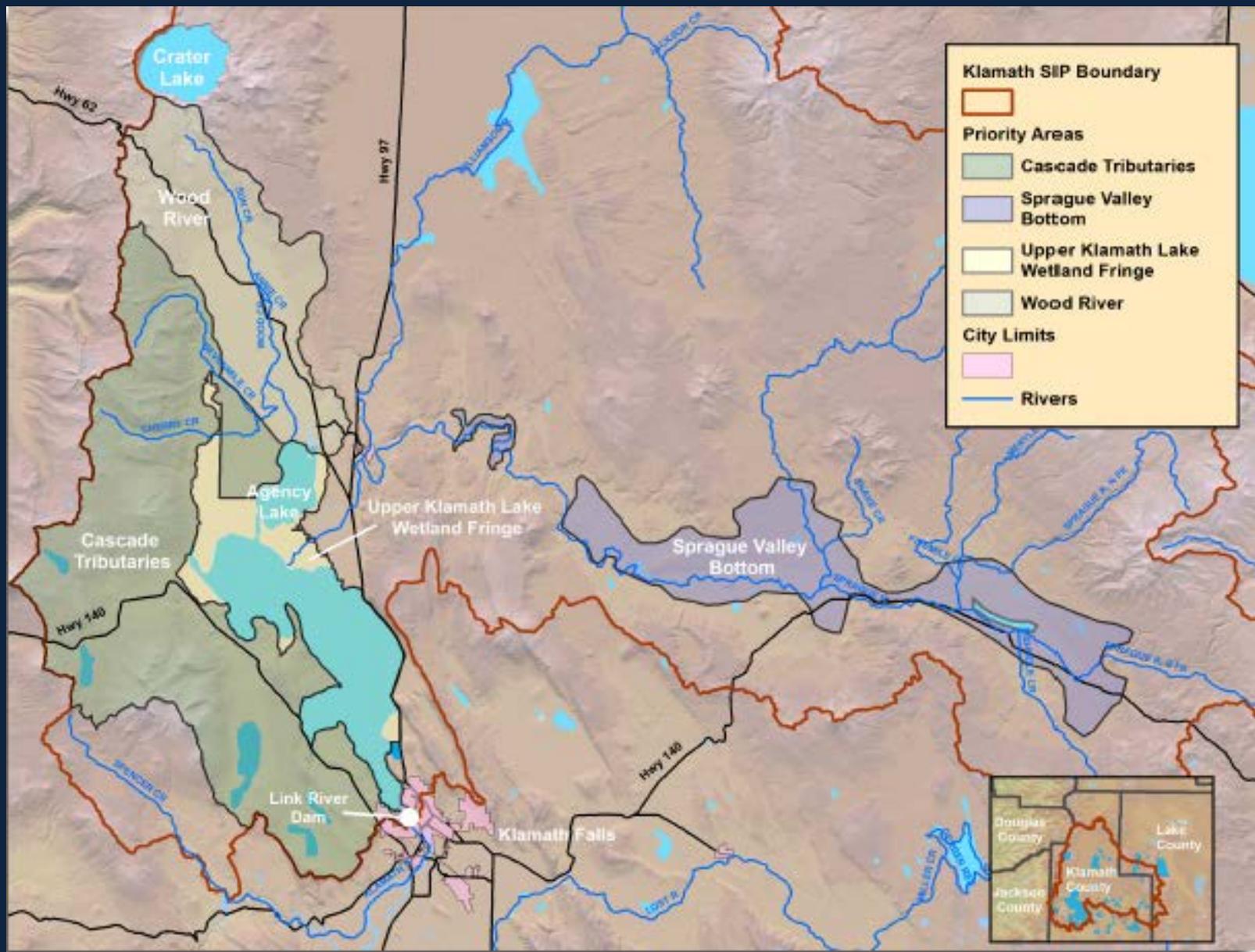
- Klamath Basin Rangeland Trust (KBRT)
- Klamath County SWCD (KSWCD)
- Klamath Watershed Partnership (KWP)
- Klamath Water Users Association (UKWUA)
- The Klamath Tribes (TKT)
- The Nature Conservancy (TNC)
- U.S. Fish and Wildlife Service (USFWS)



Partnership Summary, contd.

Technical Partners

- Federal: BOR, NRCS, USFS, USFWS, USGS
- State: ODFW
- Private: Sustainable Northwest and several private consultants
- Universities





Desired Ecological Outcomes

- Recover state and federally listed fish in the Upper Klamath Basin.
- Improve water quality.
- Prepare the Upper Klamath Basin aquatic ecosystems to support re-establishment of anadromous salmonids.



Applying a Scientific Framework

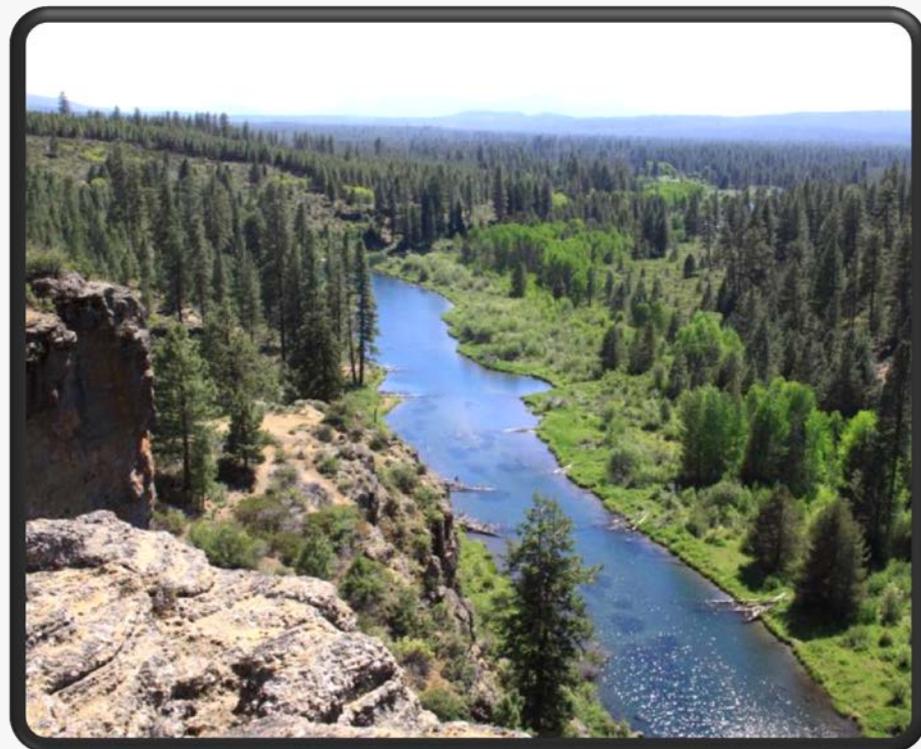
- Water Quality Monitoring
- Technical Assistance





Measuring Progress

- Fish Screening and Passage
- Habitat Restoration
- Water Quality and Streamflow





Fish Screening and Passage

Limiting Factors

- Barriers to fish movement, primarily irrigation diversions.
- Poor connectivity that blocks access for juvenile and adults.
- Unscreened diversions and poorly functioning fish screens.

Actions Taken

- Installed fish screens on irrigation pumps and canals.
- Replaced poorly functioning fish screens.
- Removed fish barriers (e.g., culverts).
- Developed fish bypass channels.



Fish Screening/Passage - Outputs

Fish Screening (# of diversions screened)

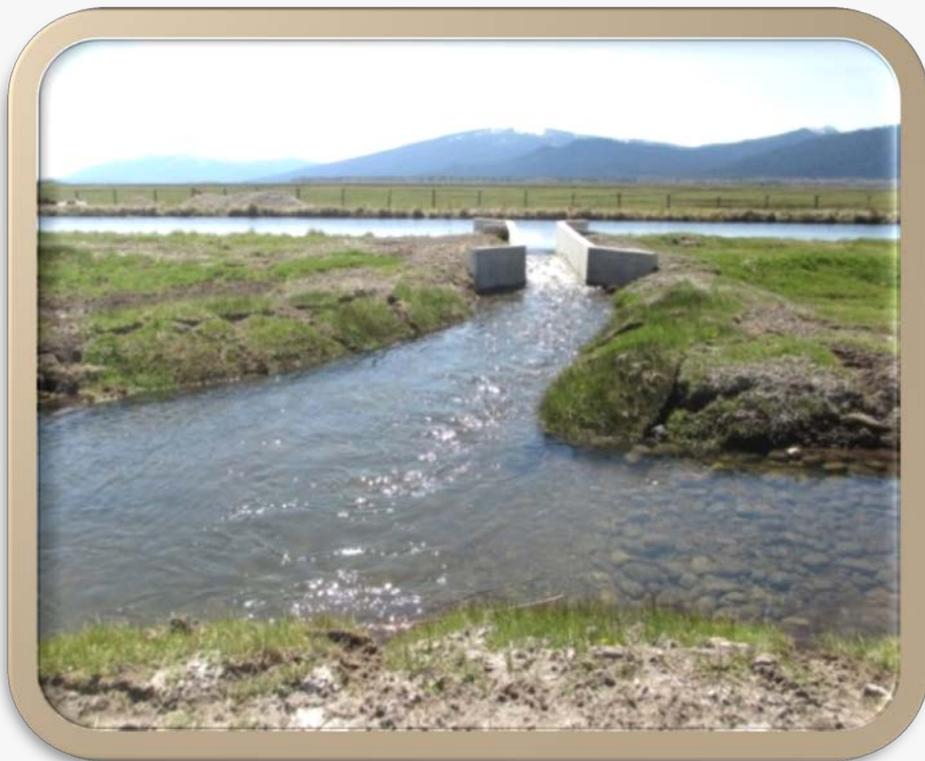


Fish Passage (# of barriers removed)





Highlight: Lower Sevenmile Creek Fish Passage





Habitat Restoration

Limiting Factors

- Excessive sedimentation.
- Loss of productive fringe wetlands.
- Habitat degradation and fragmentation.

Actions Taken

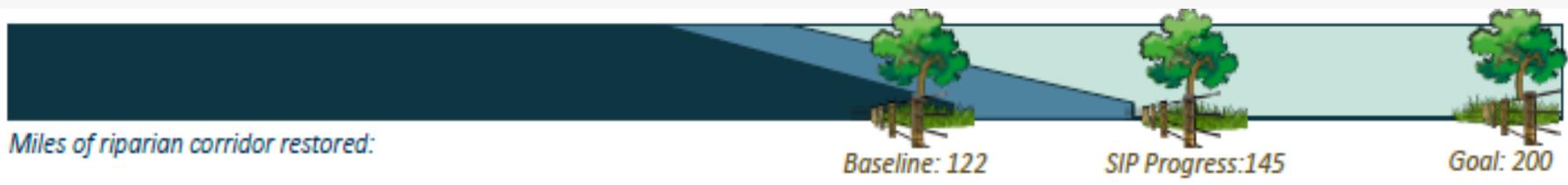
- Installed riparian fencing/off-stream watering facilities.
- Controlled invasive vegetation/planted native trees and shrubs.
- Removed and notched levees.
- Added log and rock structures and augmented instream gravel.
- Re-meandered existing channels and constructed new channels.



Habitat Restoration - Outputs

Riparian Corridor Restoration

(miles of riparian corridor restored)



Lake Fringe/Wetlands and Floodplain Restoration

(acres of lake-fringe wetlands and floodplain restored)





Highlight: Sun Creek Historic Channel Reconnection





Water Quality and Streamflow

Limiting Factors:

- Excessive thermal and nutrient loading.
- Reduced instream flow.
- Lack of fish access to essential habitat.

Actions Taken:

- Installed riparian fencing/off-stream watering facilities
- Controlled invasive vegetation/planted native species
- Constructed small diffuse-source treatment wetlands.
- Converted instream water leases to permanent instream transfers of water rights.



Water Quality and Stream Flow - Outputs

Water Quality

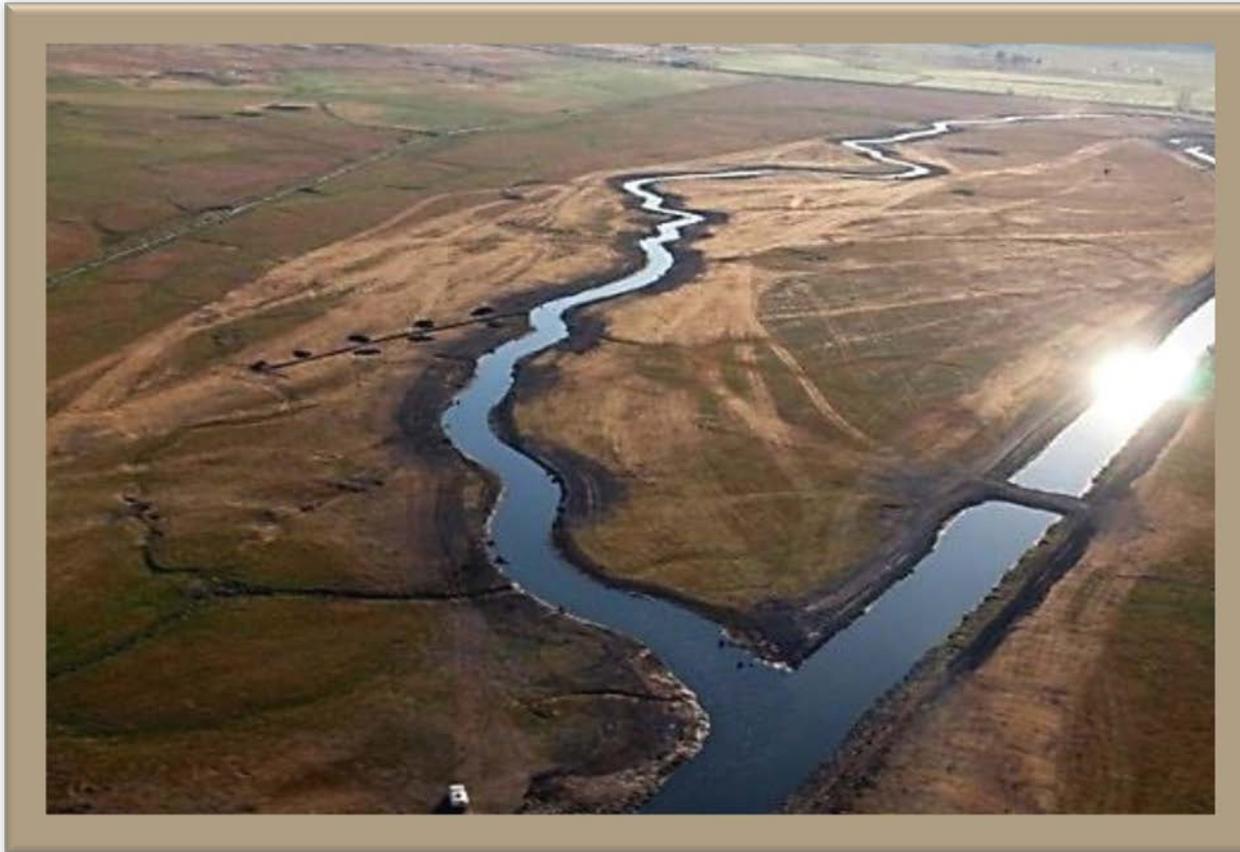
- Installed 2 treatment wetlands in Sevenmile Creek
- Treated 271 acres of pastureland in the Sprague River and Sevenmile Creek watersheds
- **EM is underway and future results are pending**

Streamflow Restoration (in acre feet)



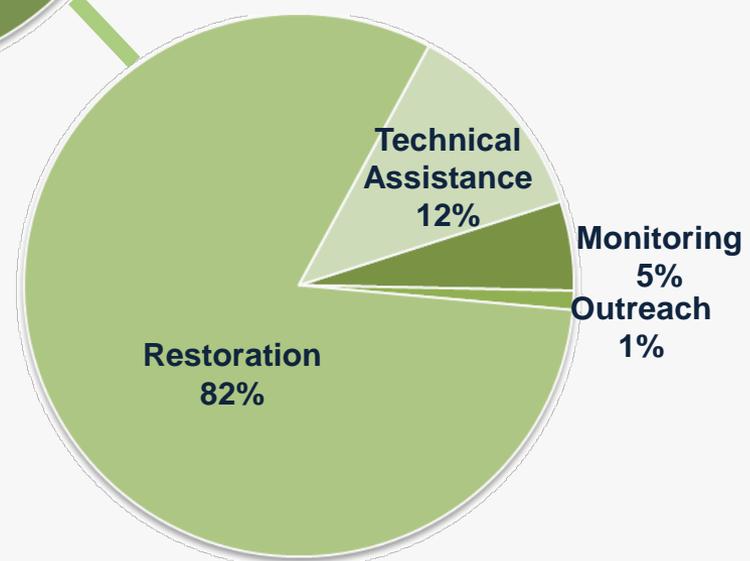
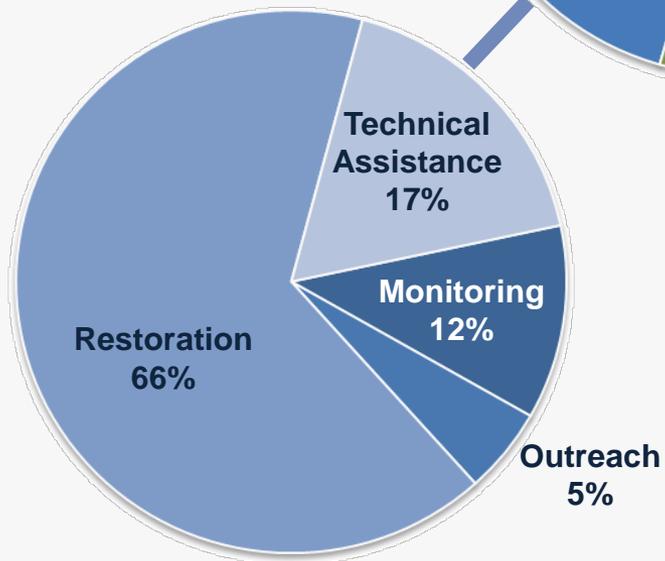
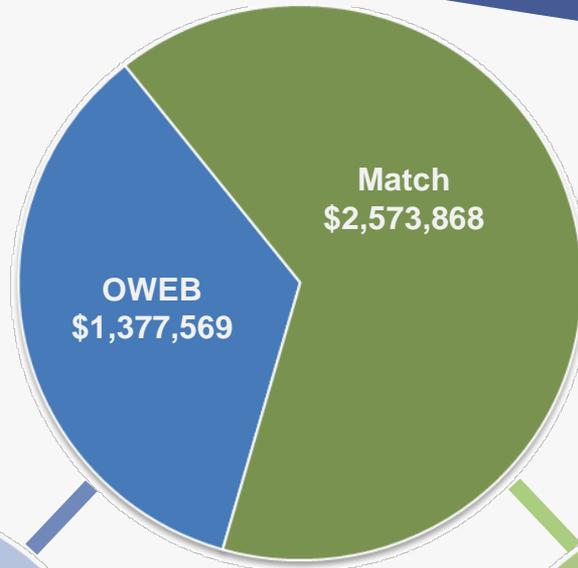


Highlight: South Fork Sprague River and Deming Creek Flow Restoration





Summary of Contributions





Local Economy/Community Outcomes

Restoration Economy

- Local contractors hired
- TKT jobs and internships

Community Outcomes

- Ranch management plans
- Landowner outreach workshops





Reflections

Lessons Learned (Funders' Perspective)

- Align scale of restoration geography with scale of investment.
- Governance structure and organizational decision-making processes are important to successful partnerships.
- Broader policy and management issues can affect the interest and willingness of landowners to engage.
- Set realistic expectations, takes time to realize outcomes.



Implementing Partners' Reflections

Lessons Learned

- Devote time to understanding LO's needs and concerns
- Plan for staff turnover
- Effectiveness monitoring before and after
- Adaptively manage based on past experiences

Recommendations for the Board

- Leveraging funds key to improving partnerships and accelerating restoration
- Extend timeframe of partnership investments up to a decade



Looking Ahead



- Shared common goals and objectives
- Continued collaboration