

Water for Irrigation Streams & Economy

BEAR CREEK AND LITTLE BUTTE CREEK WATERSHEDS

Why WISE?

- > 2001 water crisis in Klamath Basin
- Protect Agriculture amid urban growth
 - Open spaces
 - Economy
- Protect and restore local streams
 - > Fisheries
 - Recreation
 - Economy



How WISE?

- Proactive approach
- Inclusive partnerships
- Think big
- And then think even bigger
- Long term solutions
 - Technology
 - Economies
 - Regulations

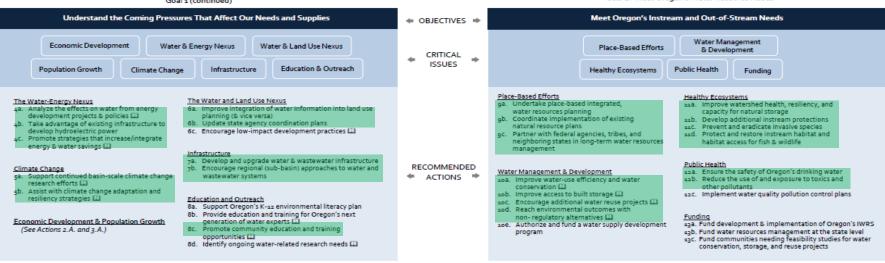


Water Strategy for the Future

Recommended Actions from Oregon's IWRS Framework

Oregon's Integrated Water Resources Strategy

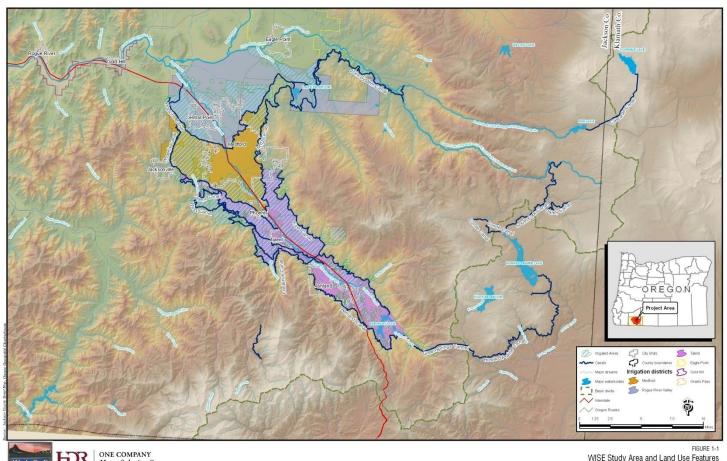




WISE Project Goals

- Increase summer stream flows
- Improve water quality
- Improve water temperature
- Improved irrigation water reliability
- Improved irrigation water availability

WISE Project Area





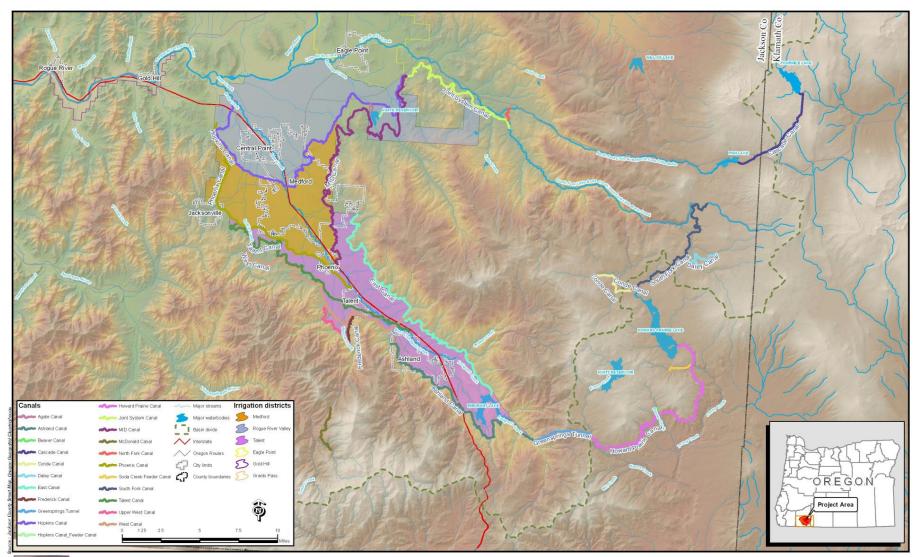
WISE Study Area and Land Use Features WISE Preliminary Feasibility Study | City of Medford



Possible Sources of Additional Water

- Conserved Water
 - Piped/lined irrigation canals
- Increased reservoir storage capacity
 - > Emigrant
 - Agate
- Pumped water
 - Regional Water Reclamation Facility
 - Lost Creek Reservoir via Rogue River

WISE Piping layouts



Specific Irrigation Benefits

- Conserved water available for irrigation
 - > 22,297 30,998 39,710 (A/F)
- Gravity pressure system
- Reduced shortages

$$>$$
 77 - 4,674 - 8,019 (A/F)

- Extended drought protection
- More flexible water availability
- Minimal moss and algae in system
- Greatly reduced canal/pipe maintenance
- Hydropower generation

Instream Benefits

- More water instream
- Potentially increased flows in tribs
 - > 2,193 9,895 20,207 (A/F)
 - Stored water component in reservoirs
 - Conserved water from surface rights
 - Water exchange from reuse component
- Elimination of mixed canal and live flows
- Significantly improved water quality

Issues

- Stormwater management
- > Perceptions regarding use of Reclaimed effluent
- Environmental impacts vernal pools, wetlands, canal-side vegetation
- Shallow wells



WISE Project Timeline

- 2010 Complete Prefeasibility Study
- 2012 Begin Cost Benefit Analysis
- 2013 Begin FS/EIS
- 2013 Complete CBA
- > 2014 Construct WISE Pilot Project
- 2016 Complete FS/EIS

Because you asked ...

- Conserved water
 - □ 22,297 30,998 39,710
- Reduced Shortages

Instream improvements

□ Total water improvements

$$24,567 - 45,567 - 67,936$$

