

OREGON



WATER RESOURCES
DEPARTMENT

District 3 Overview

Robert Wood, Watermaster

District 3 Overview



- **District 3- Total Area = 2,911 sq miles**

- About ½ is public land or reservation
- Counties- Wasco, Hood River, part of Sherman
- Hood Basin, Lower Deschutes Basin

- **Primary Water Rights- 80,591 acres**

- Surface Water- 61,482 acres
- Groundwater- 19,109 acres

- **Annual Rainfall**

- Averages from about 32 inches in the west to 11 inches in the east.

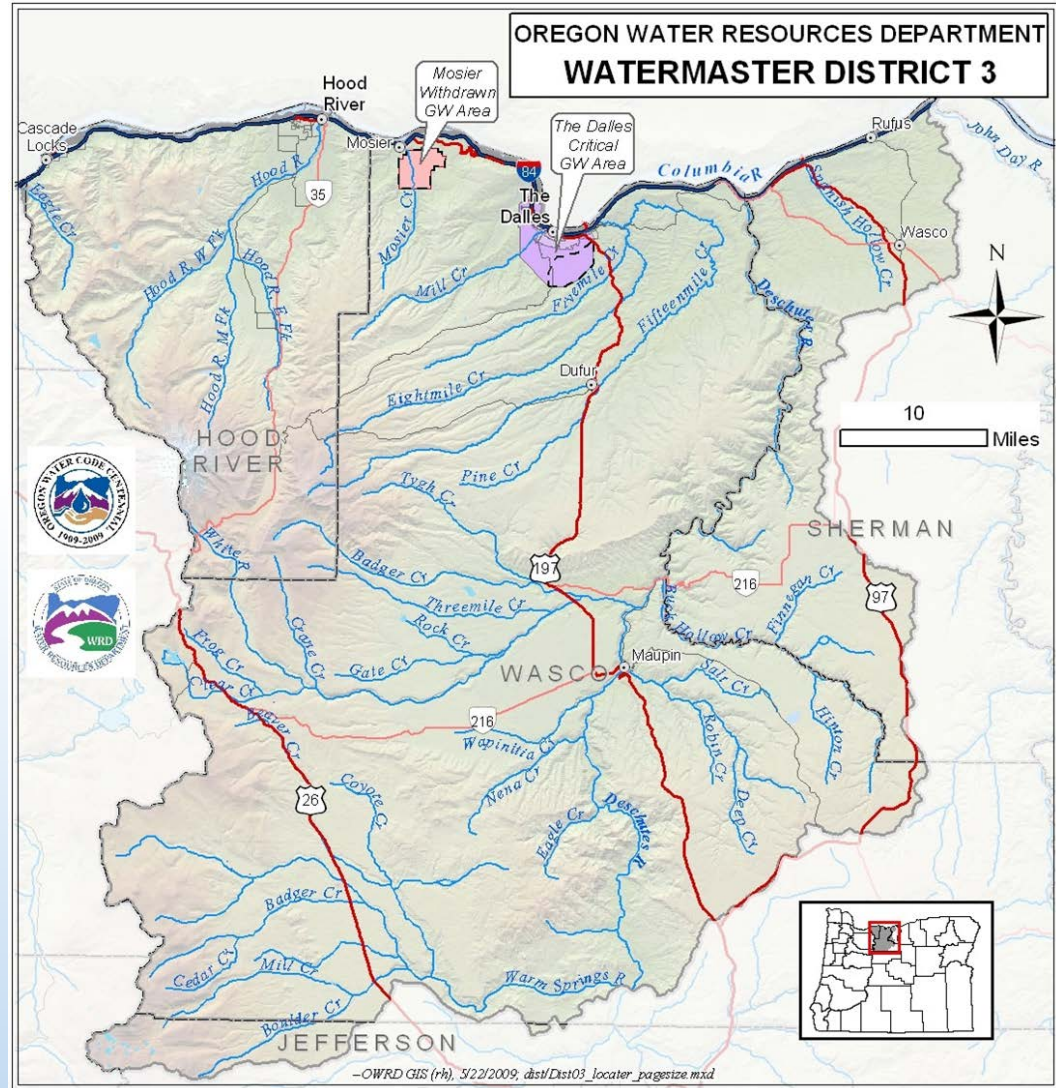


District 3 Overview

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District 3 Watermaster
2705 E 2nd St
The Dalles, OR 97058

Regulation Overview



- **Badger and Tygh Creeks (Tygh Valley)**
 - Regulation based on senior call
- **Eightmile Creek**
 - Regulation based on senior call or instream lease



Regulation Overview



- **Fifteenmile Creek**

- Out of stream priority dates: 1856 to 1984
- Instream priority dates: 1856 to 1984
- 26 mile long losing Reach
- Steelhead listed as 'Threatened' under ESA.



Fifteenmile Creek



- **Challenge**
 - Losing reach covers 26 miles
- **Solution**
 - Near Real-Time gaging station network
 - Flow meters on significant diversions



Fifteenmile Creek



- **Challenge**

- Groundwater declines in basalt aquifers

- **Solution**

- Groundwater/surface water monitoring



Fifteenmile Creek



- **Fifteenmile Action to Stabilize Temperature (FAST)**
 - Voluntary program started in 2013 by the Fifteenmile Watershed Council



Water Temperature Below Thresholds

Alert issued when water temperatures exceed 71.6°F (22°C) in upper Fifteenmile Creek or 73.4°F (23°C) in lower Fifteenmile Creek (including Eightmile Creek), and at two sites for two or more days.

	7/12/2019 Measured	Today	Water Temperature Forecast (°F)					
Elevation	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul
Eightmile Ck: 200 ft		65.9	66.0	66.1	65.7	65.8	66.0	65.7
Fifteenmile Ck: 200 ft	69	65.5	65.7	65.6	65.2	65.2	65.5	65.2
900 ft		66.1	66.4	66.7	66.3	66.2	66.5	66.1
1200 ft	61	60.2	61.3	61.5	61.7	62.5	62.7	62.6
1525 ft		58.1	58.5	58.6	58.5	59.3	59.3	59.6

Lower
Upper

Fifteenmile Storage Feasibility Studies



- **Surface Water**
 - OWRD Feasibility Study Grant (2015)
- **Groundwater**
 - OWRD Feasibility Study Grant (2017)



Current Water Projects



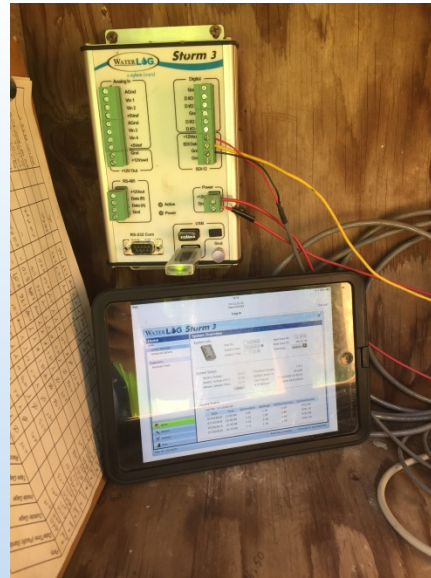
- **Dee Irrigation District (Phase 1)**
 - Main canal piped in Spring 2013
 - Camp and No Name Creeks: New diversions and FCA fish screens
 - 3.0 CFS transferred instream through Conserved Water Program (CW-76)
 - Deer Creek diversion abandoned



Current Water Projects



- **Dee Irrigation District (monitoring)**
 - West Fork Hood River Diversion
 - Main Pipeline



Current Water Projects



- **Dee Irrigation District (Phase 2)**
 - Finish piping within the district
 - Pressurized system, reduces end spills
 - Flow meters (on farm)
 - Irrigation system upgrades
 - 0.5 CFS will be transferred instream
 - Monitoring program will continue

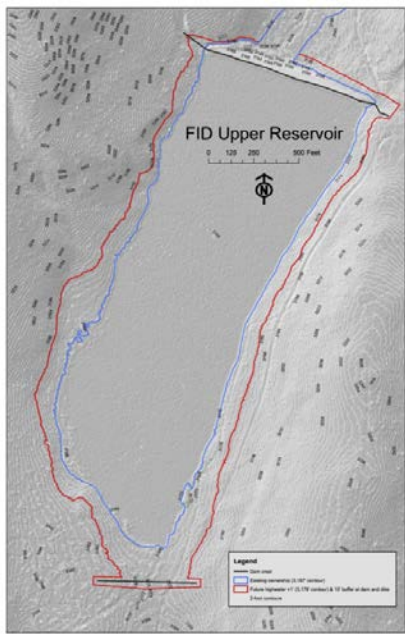


Farmer's ID Reservoir Expansion

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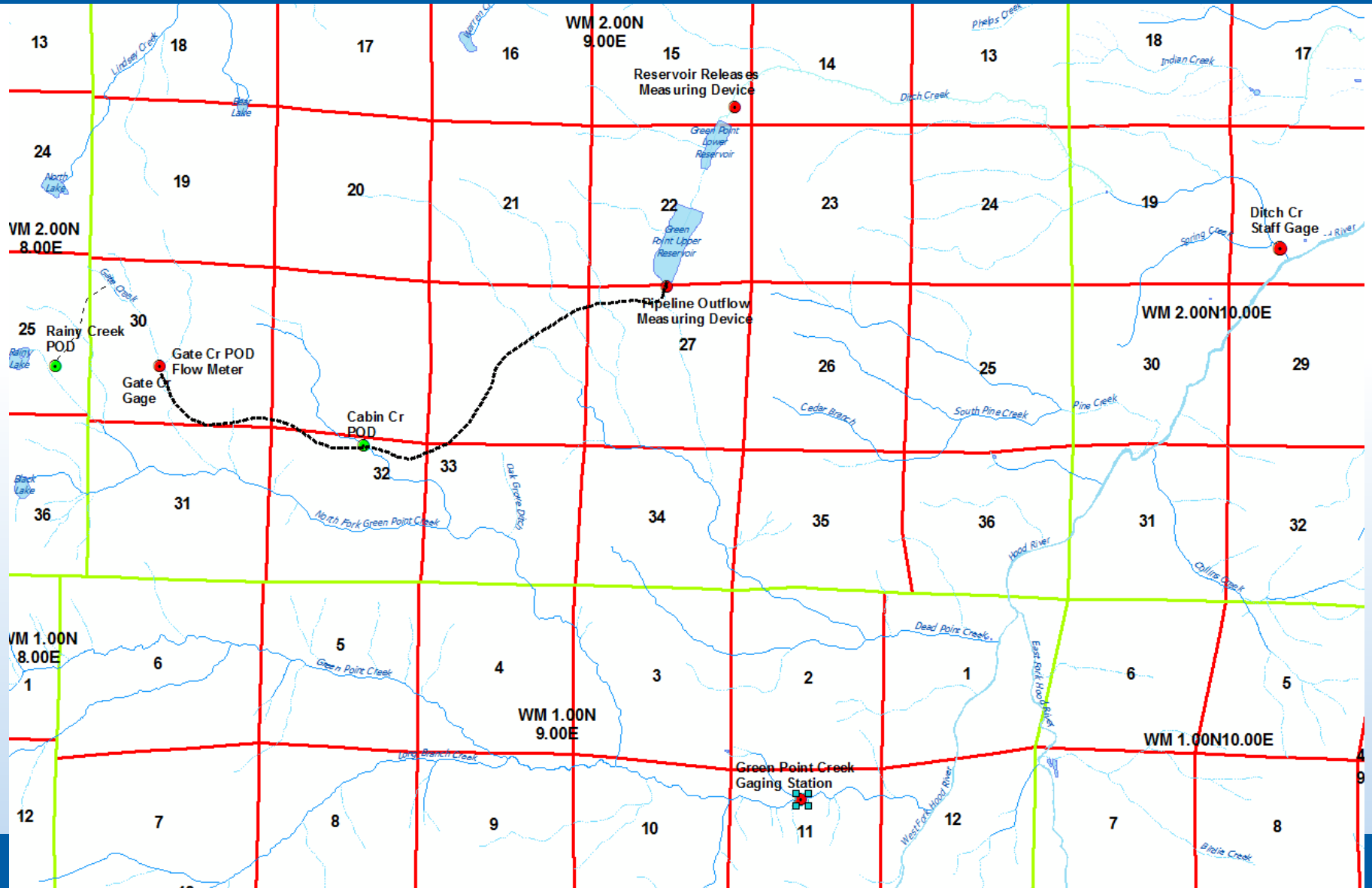
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- Upper Kingsley Reservoir will store additional 650 acre-feet → increased supply.
- Enhanced instream flow protection for Gate & Ditch Creeks.
- Monitoring for the project ensures instream flows (SVF and IFP) are protected and determine how much of the water is stored and used.



Greenpoint Reservoir project



Current Water Projects



- **Farmer's ID Storage Project Monitoring (R-15387)**
 - Gaging Stations: Greenpoint & Gate creeks
 - Flow monitoring: Stanley Smith pipeline & Lower Reservoir
 - Staff gage: Ditch Creek



Questions, Comments?

