

Water Quantity and Water Quality

Western States Water Council



Oregon's **2017** Integrated Water Resources Strategy



Presented by: Tom Byler, Director

Integrated Water Resources Strategy

TABLE OF CONTENTS

“Unlike traditional water supply plans, this Strategy considers instream needs...along with out-of-stream needs..., including water quality, water quantity, and ecosystem needs.”

p.11

Chapter 1 — Understand Water Resources Today.....	42
Critical Issue – Further Understand Limited Water Supplies and Systems	43
Critical Issue – Improve Water Quality and Water Quantity Information	45
Critical Issue – Further Understand Our Water Management Institutions	53
Recommended Actions at a Glance	60
References	61
Chapter 2 — Understand Instream and Out-of-Stream Needs.....	65
Critical Issue – Further Define Out-of-Stream Needs / Demands.....	70
Critical Issue – Further Define Instream Needs / Demands.....	78
Recommended Actions at a Glance	90
References	97
Chapter 3 — Understand the Coming Pressures that Affect our Needs and Supplies.....	104
Critical Issue – Water and Energy.....	109
Critical Issue – Climate Change.....	110
Critical Issue – Extreme Events.....	115
Critical Issue – Water and Land Use.....	121
Critical Issue – Water-Related Infrastructure.....	140
Critical Issue – Education and Outreach.....	152
Recommended Actions at a Glance	163
References	172
Chapter 4 — Meet Oregon’s Instream and Out-of-Stream Needs.....	173
Critical Issue – Place-Based Efforts.....	173
Critical Issue – Water Management and Development.....	173
Critical Issue – Healthy Ecosystems.....	173
Critical Issue – Public Health and Water.....	173
Critical Issue – Funding for Oregon’s Water.....	173
Recommended Actions at a Glance	173
References	173

Oregon's Strategic Enterprise Approach to Monitoring



Oregon Mid and North Coast Water Monitoring Summit

- State, federal, tribes, local partners
- Identify opportunities for coordinated monitoring
- Identify data needs

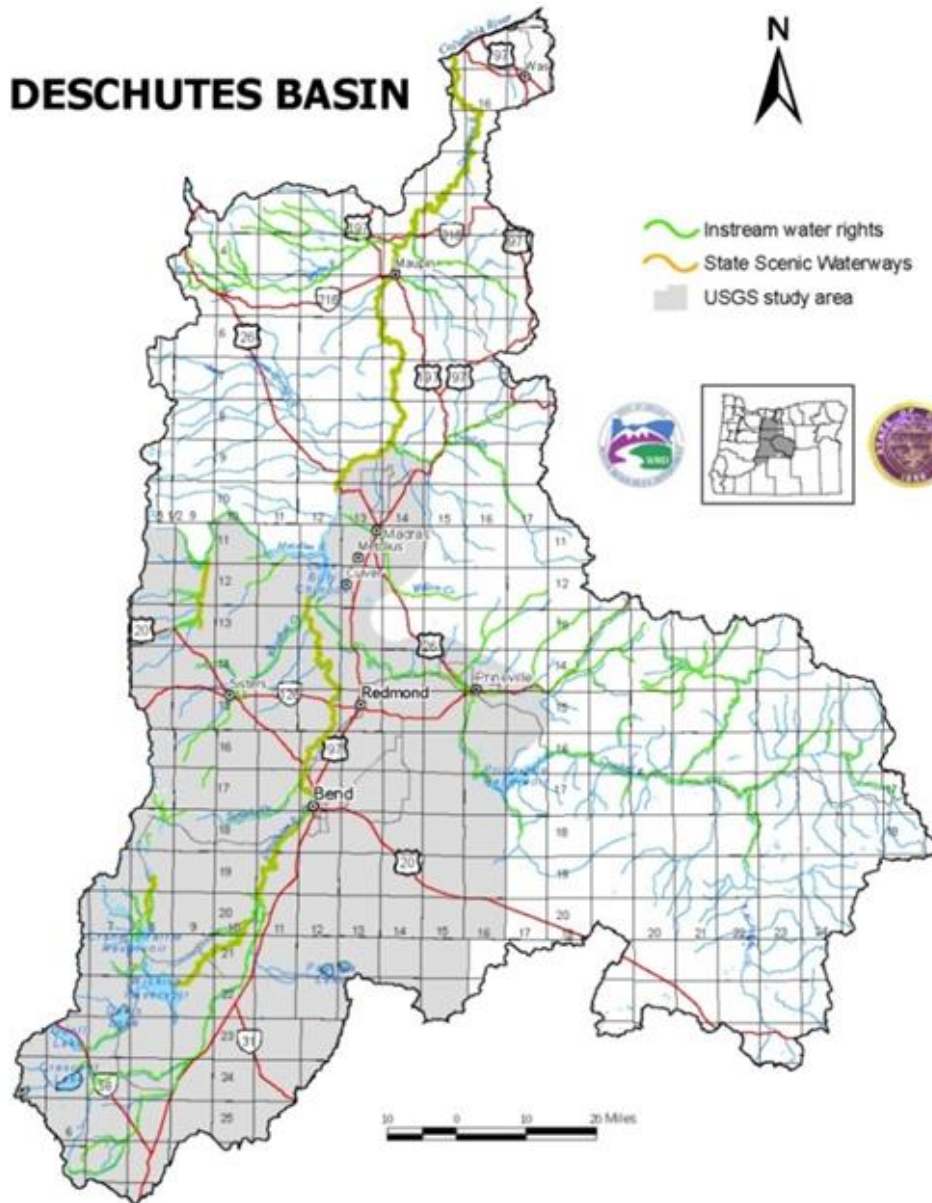
Place-Based Planning

Key Principles

- Locally initiated and led
- Voluntary, non-regulatory
- Balanced representation of interests
- Addresses instream and out-of-stream
- **Integrates quantity, quality, & ecosystem needs**
- Open and transparent process
- Conducted in partnership with the state
- Does not infringe on existing water rights
- Adheres to IWRS principles & state laws



DESCHUTES BASIN



OWD 122 (A), 1/1/2016, dschutes_122A_122B.mxd

Water Rights Applications

Application for a Permit to Use Surface Water



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
503-986-0900
www.oregon.gov/OWRD

Upper Columbia - OAR 690-033-0115 thru -0130

Is the POD located in an area where the Upper Columbia Rules apply?

☐ Yes ☐ No

If yes, you are notified that the Water Resources Department will consult with numerous federal, state, local and tribal governmental entities so it may determine whether the proposed use is consistent with the “Columbia River Basin Fish and Wildlife Program” adopted by the Northwest Power Planning Council in 1994 for the protection and recovery of listed fish species. The application may be denied, heavily conditioned, or if appropriate, mitigation for impacts may be needed to obtain approval for the proposed use.

If yes,

- I understand that the proposed use does not involve appropriation of direct streamflow during the time period April 15 to September 30, except as provided in OAR 690-033-0140.
- I understand that I will install, operate and maintain a fish screen and fish passage as listed in ORS 498.301 through 498.346, and 509.580 through 509.910, to the specifications and extent required by Oregon Department of Fish and Wildlife, prior to diversion of water under any permit issued pursuant to this application.
- I understand that the Oregon Department of Environmental Quality will review my application to determine if the proposed use complies with existing state and federal water quality standards.

OREGON



WATER RESOURCES
DEPARTMENT