

Tualatin River Watershed Council Letter of Interest
Place-Based Integrated Water Resources Planning Grant

Appendix 1

The Tualatin River watershed is located in the northwest Oregon and drains approximately 712 square miles. The watershed includes the densely populated areas of southwest Portland, Hillsboro, Tigard and Beaverton; agricultural areas near Scholls, Gaston, Banks, Mountindale and North Plains; and forests of Oregon's Coast Range, Tualatin Mountains and Chehalem Mountains. The 80 mile river originates in the Coast Range and flows from west to east, where it enters the Willamette River near the "Willamette area" of West Linn. The character of the river changes dramatically as it flows from the headwaters in the Coast Range to its confluence with the Willamette River. Its character is set in part by the gradient of the river and by the composition of the bottom of the river. The river can be divided into four general reaches, the upper section is called the mountain reach, the next reach the meander reach, followed by the reservoir-like reach, and finally the riffle reach.

The Tualatin River watershed encompasses most of Washington County with small portions located in Clackamas and Multnomah Counties; it has a mix of various land uses, 39% forestry, 35% agriculture and 26% urban, residential and industrial. While nearly 75% of the watershed is rural in character, more than 95% of the population lives in the urbanized areas and that population is growing by about 1.8% annually. That means that Washington County's infrastructure has to accommodate more than 10,000 new residents every year.

Washington County is often referred to as the economic driver for the State of Oregon and includes high tech products manufacturers and developers such as Intel. During 2015, Washington County employers created about 20 jobs a day, many in the high-paying tech business, but with other jobs spread among more than 16,000 private and public employers. Agricultural production in rural areas includes irrigation of 19,000 acres of the total 455,680 acres; a large portion of the irrigation water is provided through a Bureau of Reclamation Scoggins Dam, constructed in the 1970s and distributed through Tualatin Valley Irrigation District pipelines. Large forested tracts are owned by Stimson Lumber Co., Weyerhaeuser, and Oregon Department of Forestry with smaller tracts owned by companies, families and individuals.

Our basin's water is supplied through a combination of water from rainfall, groundwater and stored water, with water supply coming from inside and outside the watershed; the majority of rainfall received is during winter and spring months. During summer and autumn months, the Tualatin River is supplemented by increased flow through water releases from Scoggins Dam. However, many tributary streams are over allocated and stream flow is often reduced during summer and fall months impacting native fish and wildlife.

In anticipation of future Washington County growth, water providers have been exploring solutions that will provide water for an increasing population and industrial growth as well as provide additional flow to over allocated tributary streams that will benefit native fish and wildlife. Proposed solutions include increasing the water storage capacity of Scoggins Dam through a dam raise and increasing municipal water supplies through purchase and piping of water from the Willamette and Clackamas Rivers.

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Appendix 2

Tualatin Basin Reports, Plans and Data Collections

Tualatin Basin Action Plan, 1999
 Tualatin River Watershed Technical Supplement, 1998
 Gales Creek Watershed Assessment Project, 1998
 Dairy-McKay Watershed Analysis, 1999
 Upper Tualatin – Scoggins Watershed Analysis, 2000
 Middle Tualatin-Rock Creek Watershed Analysis, 2001
 Lower Tualatin Watershed Analysis, 2001
 Lower Gales Creek Habitat Enhancement Plan, 2003
 Lower Gales Creek Enhancement Planning, Geomorphic Studies, 2006
 Lower Gales Creek Enhancement Planning Knotweed and Ivy mapping and report 2006
 Lower Gales Creek Large wood debris inventory 2006
 Gales Creek Sub-basin Restoration Action Plan, 2015
 2013 Tualatin Basin Rapid Bio-Assessment Survey final report and map
 2013-14 Tualatin Basin Rapid Bio-Assessment Survey final report and maps
 Dairy-McKay fish passage barriers on private lands (in process)
 Tualatin Basin Fish and Macro-Invertebrate studies (1990s-2004)
 Tualatin Basin drinking water providers' water management and conservation plans
 Tualatin Basin drinking water providers master plans
 Tualatin Basin drinking water providers' capital improvement plans
 Tualatin Basin drinking water providers' ASR plans
 Forest Grove Watershed Stewardship Management Plan (2001) and Update (2013)
 Washington County Transportation Division Dairy-McKay Fish Passage Assessment and Prioritization (2006)
 Washington County Transportation Division Gales Creek Fish Passage Assessment and Prioritization (2011)
 Washington County Transportation System Plan 2014
 Washington County Community Development Code and Community Plans
 Clean Water Services Healthy Streams Plan (includes stream preservation and enhancement map; flow restoration map; community tree map; storm water outfalls map; culvert barriers map) 2005
 Clean Water Services floodplains and models
 Clean Water Services Low Impact Development Handbook for the Tualatin Basin
 Clean Water Services Updated Sanitary Sewer Master Plan
 Clean Water Services Tualatin Basin garlic mustard, Japanese knotweed and giant hogweed mappings
 City of Portland Bureau of Environmental Services Fanno and Tryon Creek Management Plan (2005)
 Tualatin River National Wildlife Refuge Comprehensive Conservation Plan (2013)
 Tualatin River Sub-basin Agriculture Water Quality Management Area Plan
 Oregon Department of Environmental Quality Tualatin Sub-basin Total Maximum Daily Load and Water Quality Management Plan
 Oregon Department of Forestry, Forest Grove District, Annual Operating Plans
 Oregon Department of Fish and Wild Conservation Strategy
 ODFW, NOAA and the state of Oregon Upper Willamette River Conservation and Recovery Plan for Chinook Salmon and Steelhead (2011)
 Willamette Basin Restoration Priorities: Watershed Summary *Oregon Watershed Enhancement Board and Willamette Basin Watershed Council, December 2005*
 METRO regional transportation plan; METRO regional urban and rural reserves plan
 Tualatin Basin Flow Management Annual Reports (1992-2014)

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Appendix 3
Scoggins Dam 15 year fill curve

