

TUALATIN RIVER FLOW MANAGEMENT TECHNICAL COMMITTEE



2007 Annual Report

*prepared by
Bernie Bonn for*

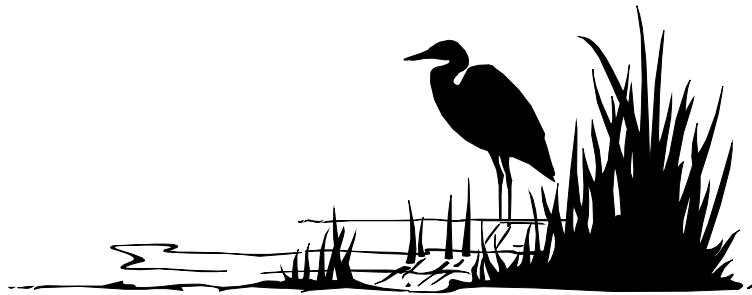
CleanWater Services
Our commitment is clear.

Photo Credits:

clockwise from left: Recreation at Cook Park, Tualatin Community Park, Rood Bridge Park, Cook Park, Jurgens Park
all photographs taken by Bernadine Bonn, July 2008

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2007 Annual Report



Prepared by:

Bernie Bonn

For:

Clean Water Services

In cooperation with:

Oregon Water Resources Department, District 18 Watermaster

FLOW MANAGEMENT TECHNICAL COMMITTEE MEMBERS

Darrell Hedin, Secretary	<i>Oregon Water Resources Department</i>
Kevin Hanway	<i>Joint Water Commission</i>
Niki Iverson	<i>Joint Water Commission</i>
Jan Miller, Chair	<i>Clean Water Services</i>
Wally Otto	<i>Tualatin Valley Irrigation District</i>
Scott Porter	<i>Washington County — Emergency Management System</i>
Mark Rosenkranz	<i>Lake Oswego Corporation</i>
Chris Wayland	<i>Washington County Parks — Hagg Lake</i>
Randy Smith	<i>City of Forest Grove</i>
Jean Woll	<i>Joint Water Commission</i>

ACRONYMS USED IN THIS REPORT

FULL NAME	ACRONYM	FULL NAME	ACRONYM
Facilities		Units of Measurement	
Springhill Pumping Plant	SHPP	Acre-Feet	ac-ft
Wastewater Treatment Plant	WWTP	Cubic Feet per Second	cfs
Organization		Micrograms per liter	µg/L
Clean Water Services (formerly Unified Sewerage Agency)	CWS	Milligrams per Liter	mg/L
Joint Water Commission	JWC	Million Gallons per Day	MGD
Lake Oswego Corporation	LOC	Pounds	lbs
Oregon Department of Environmental Quality	ODEQ	River Mile	RM
Oregon Department of Transportation	ODOT	Water Year	WY
Oregon Water Resources Department	OWRD	Other	
Tualatin Valley Irrigation District	TVID	Endangered Species Act	ESA
Tualatin Valley Water District	TVWD	Load Allocation	LA
U.S. Bureau of Reclamation	BOR	Total Maximum Daily Load	TMDL
U.S. Geological Survey	USGS	Wasteload Allocation	WLA
Water Quality Parameters			
Dissolved Oxygen	DO		
Sediment Oxygen Demand	SOD		

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I. River Mile Indices—

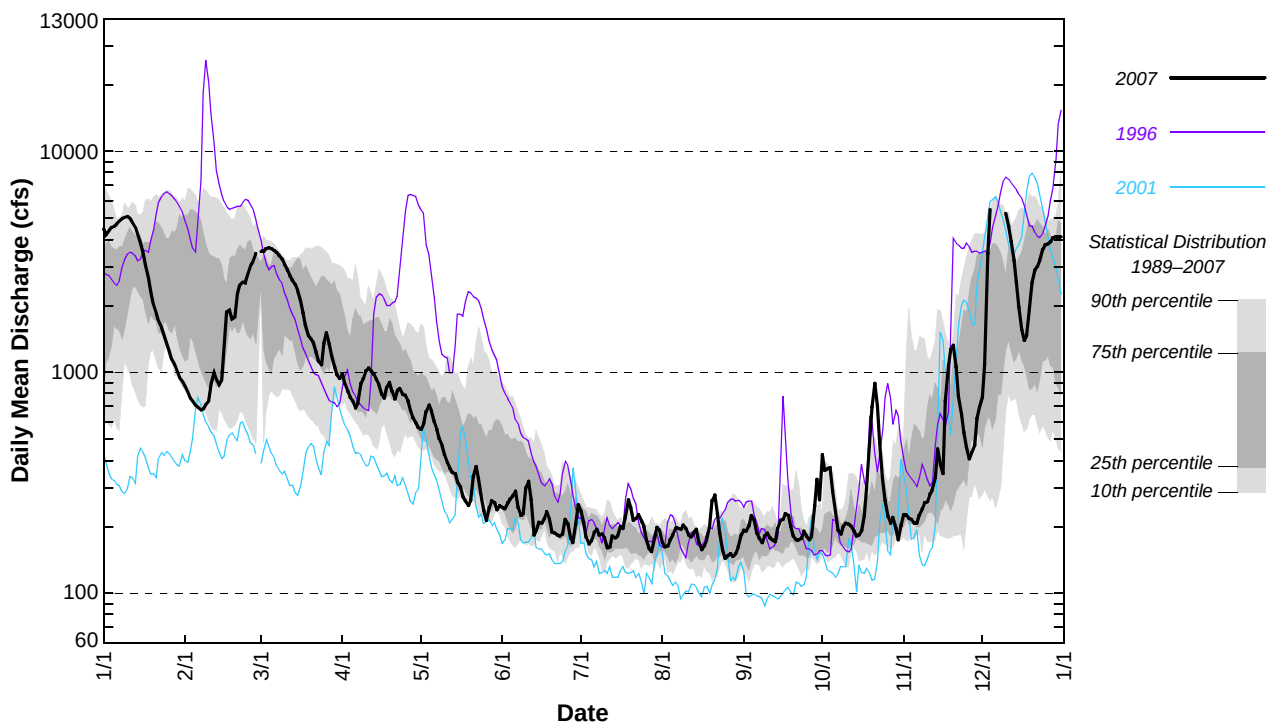
2007 SUMMARY

This is the twentieth year that the Tualatin River Flow Management Technical Committee has prepared an annual report documenting the flow management of the Tualatin River. Members of the committee include Clean Water Services (CWS), Tualatin Valley Irrigation District (TVID), Joint Water Commission (JWC), Lake Oswego Corporation (LOC) and Oregon Water Resources Department (OWRD).

Highlights for 2007 include:

- Low rainfall in January and low flow in February resulted in starting the reservoir fill process earlier than normal

Tualatin River at Farmington (RM 33.3 #14206500) 1989–2007



- Both Barney and Scoggins Reservoirs filled.
- The minimum flow released from Scoggins Reservoir into Scoggins Creek was voluntarily increased from 10 cfs to 25 cfs for the benefit of coho redds.
- Data updates were increased to hourly intervals for seven OWRD sites that are served by the GOES satellite system.
- The comprehensive Hagg Lake monitoring program that was initiated in August 1999 was discontinued in 2007. An assessment of macroinvertebrates was done in October of 2007. The results are in Appendix G.
- JWC developed a monitoring plan for Barney Reservoir which will be implemented beginning in 2008.
- A large storm occurred during the first week of December which flooded several areas in the basin. This event is described in more detail on the next page.

December storm event

- From December 1st until December 4th, 6.71 inches of rain fell at Scoggins Reservoir; Saddle Mountain, in the upper elevations of the basin, received 11.0 inches of rain in the same time period.
- Storage at Barney and Scoggins Reservoirs drastically increased.

Reservoir	Time Period	Reservoir Elevation Gain (feet)	Storage Gain (acre-feet)
Barney Reservoir	11/30/2007 – 12/4/2007	7	2,437
Scoggins Reservoir	11/30/2007 – 12/5/2007	13.4	10,229

- Inflow to Scoggins Reservoir rose so quickly and carried so much debris and silt that gaging sites on all three inflow streams (Sain, Scoggins, and Tanner Creeks) were damaged. The velocity of the water destroyed each control point. Huge boulders were moved out of position leaving some intake pipes exposed. Tanner Creek was completely silted in.
- The amount of debris that entered Hagg Lake matched or exceeded the amount received in the flood of February 1996 and the lake immediately became turbid.
- The Cherry Grove Slow Sand Plant and Forest Grove's Water Treatment Plant were closed for over a week due to the increased turbidity resulting from the flooding conditions and several upstream landslides.
- The Joint Water Commission Water Treatment Plant continued to produce high quality drinking water even though the turbidity levels exceeded 800 NTU for several days.
- Low lying areas around the City of Gaston experienced higher than usual flooding. Pressure from the flood water on the outside of the dike surrounding Wapato Lake caused the dike to break. This immediately stemmed the rise of the Tualatin River and water levels began to decrease as the excess water filled the lake.
- This event was unique in that it came so early in the season and in that the floodwaters rose and receded very quickly.



A landslide on Lee Falls Road. December 3, 2007
Jennifer Gay, Water Department City of Hillsboro



High turbidity in the upper Tualatin River is evident at the logging bridge near Lee Falls. December 3, 2007
Jennifer Gay, Water Department City of Hillsboro

BACKGROUND

Basin Description

The Tualatin River Basin comprises an area of 712 square miles situated in the northwest corner of Oregon and is a subbasin of the Willamette River. The headwaters are in the Coast Range and flow in a generally easterly direction to the confluence with the Willamette River. The basin lies almost entirely in Washington County. (See map below)

The Tualatin River is about 80 miles long and changes dramatically from its headwaters to its mouth. The mountain or headwater reach (upstream of RM 55) is narrow (about 15 ft) and steep with an average slope of about 74 ft/mi. The meander reach (RM 55–33) is wider with an average slope of about 1.3 ft/mi. The reservoir reach (RM 33–3.4) is very wide (up to 150 ft) and has an estimated slope of only 0.08 ft/mi. It includes several deep pools. Travel times through this reach are very long. The slow movement of the water causes this reach to act much like a lake. In the riffle reach (RM 3.4–0), the Tualatin River flows through a short reservoir section and then drops into a narrow gorge near the City of West Linn before it enters the Willamette River just upstream of Willamette Falls. The average slope in this reach is 10 ft/mi.

Water sources to the Tualatin River

Precipitation: Seasonal rainfall accounts for most of the natural flow in the Tualatin Basin; stream flow from snowmelt is minimal. The amount of rainfall ranges from 110 inches on the eastern slopes of the Coast Range to 37 inches in the southeastern area of the drainage basin. Peak months for rainfall are November through February while the driest months are normally June through October. The peak streamflow month is usually February, and the lowest streamflow month is August.

Barney Reservoir: Barney Reservoir is located on the Middle Fork of the North Fork of the Trask River. It has a capacity 20,000 acre-feet and stores water for Clean Water Services, the Tualatin Valley Water District, and the Cities of Beaverton, Hillsboro and Forest Grove. Water released from Barney Reservoir enters the Tualatin River at RM 78 via an aqueduct over a low Coast Range divide and via a pipeline. Water is released during the summer low-flow season to supplement shortages in natural flow.

Scoggins Reservoir: Scoggins Creek enters the Tualatin River at RM 60.0. In the early 1970's the Bureau of Reclamation built an earthen dam on Scoggins Creek. Scoggins reservoir (Henry Hagg Lake) has an active storage capacity of 53,640 acre-feet. It is a multipurpose facility with contracted water for irrigation, municipal and industrial, and water quality uses. Recreation is a major activity during the summer months on the reservoir. During the winter it serves as a flood control structure with 20,000 acre feet designated for flood control storage from November to April.

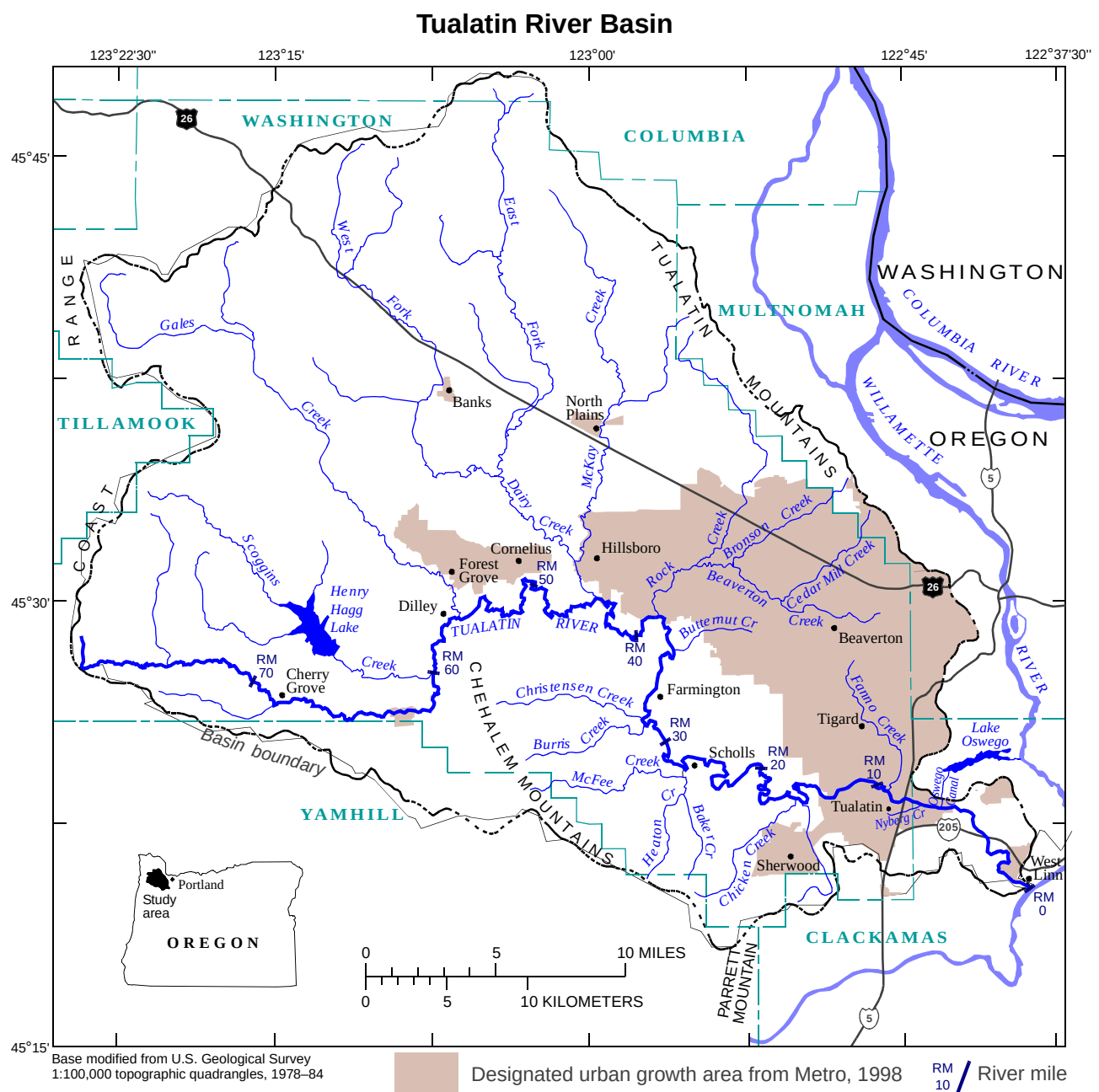
Clean Water Services: Clean Water Services (CWS) provides sanitary and stormwater services to the urban areas of Washington County. CWS has two major summer discharging wastewater treatment plants (WWTPs) that have permits to discharge water into the Tualatin River. The Rock Creek WWTP discharges an average of 50 cfs (33 MGD) at RM 38.1; the Durham WWTP discharges an average of 31 cfs (20 MGD) at RM 9.4. CWS also releases storage water from Scoggins and Barney Reservoirs for flow augmentation during the seasonal low flow periods. The goal is to maintain flow in the Tualatin River at Farmington Road Bridge gage (RM 33.3) at the following levels: 120 cfs (78 MGD) in early summer, 150 cfs (97) in mid-summer, and 180 cfs (120) in the fall before the rainy season begins.

Tualatin Valley Irrigation District: Tualatin Valley Irrigation District (TVID) is the agricultural water service agency for the area and serves approximately 20,000 acres of irrigated cropland. TVID operates the Patton Valley Pump Station at RM 1.71 on Scoggins Creek which can divert water via a low-pressure pipeline into the upper Tualatin River above the city of Gaston (outfalls at RM 63.2 and RM 64). This water is used to serve irrigators upstream of the Scoggins confluence (RM 60.0).

Water diversions from the Tualatin River

Cherry Grove Intake (RM 73.2): The City of Hillsboro diverts water for municipal and industrial uses at the Cherry Grove Intake. Hillsboro customers are served by this treatment facility and include the City of Gaston, the LA Water Cooperative, and rural residents of the Dilly and Cherry Grove areas.

Springhill Pumping Plant (RM 56.3): The Springhill Pumping Plant (SHPP) is the largest diversion facility on the river. It is operated jointly by the Tualatin Valley Irrigation District (TVID) and the Joint Water Commission (JWC). TVID delivers water from SHPP to about 12,000 acres of irrigated cropland via a pressure pipeline. TVID has a pumping capacity of approximately 90 MGD (140 cfs) at the SHPP. JWC delivers water from SHPP to the Cities of Beaverton, Hillsboro, Forest Grove and to the Tualatin Valley Water District (TVWD). JWC has a pumping capacity of approximately 60 MGD (90 cfs) at the SHPP. Both TVID and JWC have natural flow water rights that are used when flows are high; they release contracted stored water from Scoggins and Barney Reservoirs to augment declined natural flow in the summer.



Irrigation withdrawals: Water is obtained directly from the Tualatin River for irrigation purposes by members of the Wapato Improvement District (Wapato Lake), members of the TVID, and irrigators with natural flow water rights. About 5,000 acres of cropland served by TVID is irrigated with water obtained directly from the Tualatin River.

Lake Oswego Canal Diversion: The Lake Oswego Corporation (LOC) diverts a portion of the Tualatin flow into the Lake Oswego Canal at RM 6.7. A headwork structure regulates the flow into this mile long canal that feeds into Lake Oswego. The water is used to generate power below the dam at the east end of Lake Oswego. The Lake Oswego Corporation has a natural flow water right for 57.5 cfs (priority date: 1906) and has 500 acre-feet of contracted stored water for consumptive uses from Hagg Lake. At RM 3.4, a combination diversion dam/fish ladder structure is used during low flow periods to elevate the Tualatin River enough to divert the flow into the canal. During most of the year, river elevation is adequate to allow diversion of the LOC water right; in the summer, however, flash boards may be installed to increase the water level. This dam is 4 feet high and causes the water surface of the Tualatin River to be elevated for about 25 river miles upstream. LOC did not install flashboards in 2007. Since 2000, LOC has taken no more than 10 cfs from the Tualatin River.

Tualatin River Flow Management Technical Committee

The Tualatin River Flow Management Technical Committee provides a mechanism for the coordination and management of flow in the Tualatin River. The members of the committee are technical staff with detailed knowledge of the specific characteristics of flow in this river. The committee meets monthly from February through November. Meetings focus mainly on the review of the hydrographs and current status of the reservoirs. In addition, a variety of other water issues and any problems are discussed. Each member updates the committee on any changes that could impact the flow management of the Tualatin.

Data collection system

A coordinated information system was developed to provide flow information to all members of the committee. Because use or release of water by any one of the entities can impact the other users, coordination of flow information is an important aspect of the committee's work. The data are collected by field staff from the cooperating entities or from the Corps of Engineers via telemetry. A system of gaging stations, precipitation and other flow monitoring equipment has been developed during the past several years to monitor the flows on the Tualatin and the major tributaries. Significant releases and diversions are also monitored.

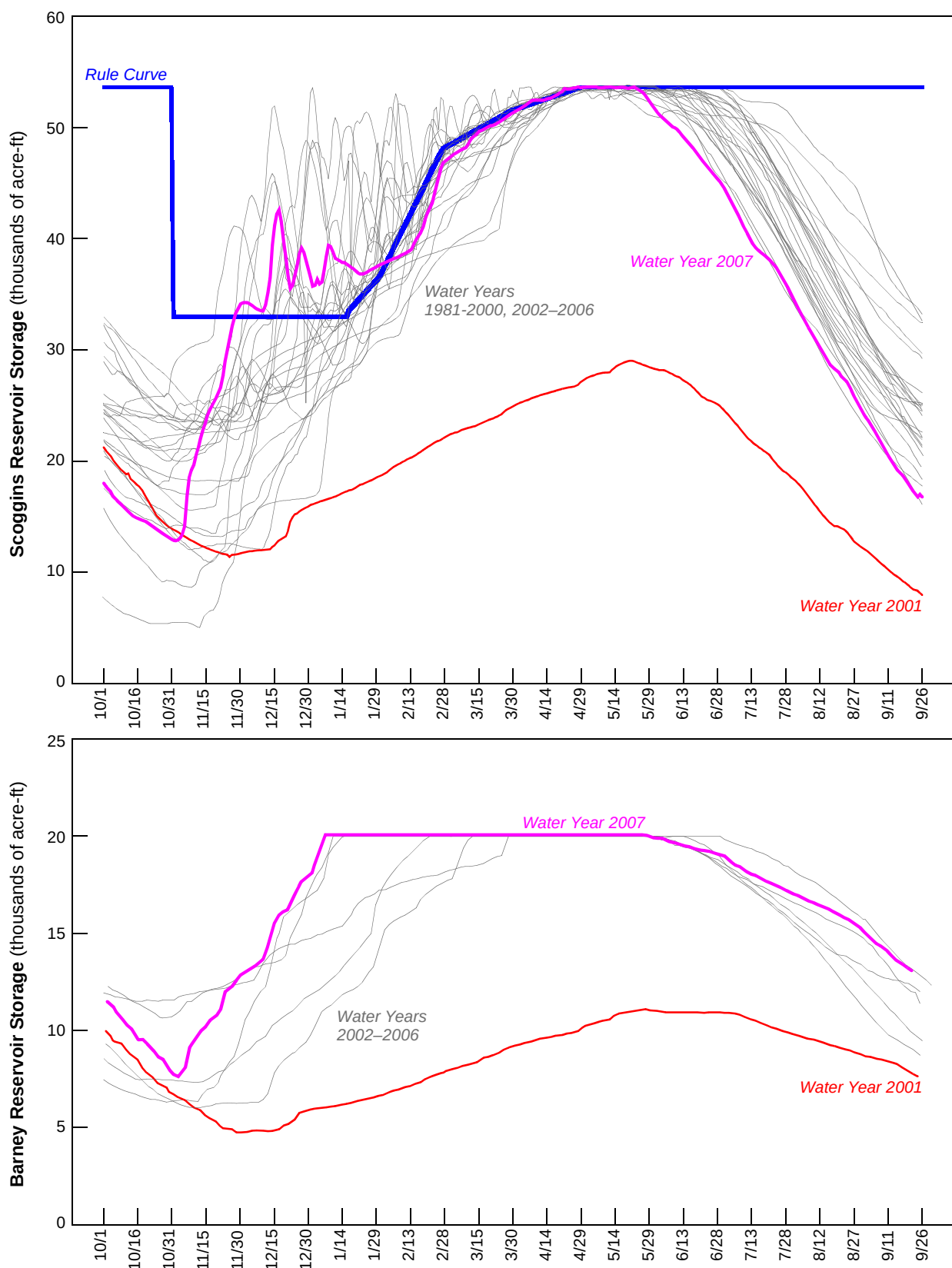
An expanding, on-going flow monitoring system continues to provide valuable information for the management of stored water and natural flow availability in the basin. It also makes the calculation of pollutant loads possible, when it is necessary for the Total Maximum Daily Load program (TMDL). Monitoring includes temperature as well as flow at some sites. As water quality issues have come to the forefront, the monitoring system has provided information vital to understanding the Tualatin basin, helped guide basin management, and been an excellent example of interagency cooperation.

Some of the monitoring data for the Tualatin Basin can be accessed at the following web sites:

- Bureau of Reclamation data: <http://www.usbr.gov/pn-bin/rtindex.pl?cfg=tual>
- Oregon Water Resources Division data: <http://www.goeslink.com/ordistrict18/>
- USGS data: http://or.water.usgs.gov/cgi-bin/grapher/graph_setup.pl?basin_id=tualatin

RESERVOIR STATUS

Both Scoggins and Barney Reservoirs filled in 2007. The fill curves for 2007 and the reservoir filling histories are shown below.



CLEAN WATER SERVICES

BY JAN MILLER, CLEAN WATER SERVICES

Water is released by Clean Water Services (CWS) from the Scoggins and Barney reservoirs to improve water quality in the Tualatin River. The Department of Environmental Quality issued an NPDES Watershed-Based Waste Discharge Permit to Clean Water Services on February 26, 2004. After a legal challenge, changes were made to the stormwater section of the permit and the entire permit was reissued on July 27, 2005. It provides Clean Water Services with flexibility in meeting its wastewater treatment plant permit requirements by recognizing the benefit of the water that Clean Water Services releases from the two reservoirs.

The reservoir releases during July and August are traded to mitigate approximately 75% of the thermal impacts of the wastewater treatment plants. Clean Water Services offsets the remainder of its thermal impact by improving riparian habitat along the tributaries either directly within its service area or through a partnership with the Tualatin Soil and Water Conservation District on rural lands. During the rest of the summer, the water is released to offset the impact of sediment oxygen demand on the dissolved oxygen levels in the river. The dissolved oxygen levels in the river downstream of the wastewater treatment plants determine the ammonia limits for the wastewater treatment plants. The higher the dissolved oxygen levels are, the more operational flexibility the wastewater treatment plants have.

Low dissolved oxygen levels can be a water quality issue in the lower Tualatin River. During the early parts of the summer, photosynthetic production of oxygen by algae effectively offsets the oxygen consumed by the decaying substances in the sediment of the river (sediment oxygen demand). In the fall, however, oxygen production by algae is reduced as the days become shorter and it becomes too small to offset the oxygen consumption by sediment oxygen demand. This can lead to low dissolved oxygen levels. Increasing the flow of water minimizes oxygen consumption by sediment oxygen demand because it shortens the contact time between the river water and the river sediments.

2007 Water Releases

Clean Water Services initiated its release from Scoggins Reservoir on July 3, 2007. This was the fourth year with two primary goals. One goal was to release an average of 35 cfs for July and August for temperature trading. Clean Water Services released an average of 34.2 cfs during this period. The second goal was to have enough water left to mitigate the impact of sediment oxygen demand after the algal populations declined in mid-September. Storms at the end of September and in mid-October temporarily increased river flows negating the need for flow augmentation for much of October. Water releases resumed for the first half of November and ended on November 13, 2007 when Farmington flows reached 336 cfs and winter flow conditions started. Clean Water Services released a total 10,134 acre-feet from Scoggins Reservoir for the summer. This was 80% of its allocation.

Clean Water Services initiated a constant rate of release of 14 cfs from Barney Reservoir on September 1, 2007. It continued, unchanged, until October 30, 2007. Clean Water Services used a total of 1,667 acre-feet from Barney Reservoir.

Clean Water Services released flow augmentation water for a total of 133 days in 2007. The combined average daily release (for days with releases) was 33 cfs. Daily and monthly flow targets were met. The amount of water available to and released by Clean Water Services during 2007 and monthly details of the water releases are summarized in the tables on the following page. Clean Water Services flow augmentation and treatment plant flow accounts for a significant fraction of flow in the lower Tualatin River, especially during the late summer and early fall period (see graphs on page 12).

CLEAN WATER SERVICES WATER AVAILABILITY AND USE — 2007

Reservoir		Maximum Available (acre-ft)	Available (acre-ft)	Total CWS Release (acre-ft)
Scoggins Reservoir	Storage	12,618	12,618	10,134
	Natural flow credit	4,282	0	—
Barney Reservoir	Storage	2,000	1,667	1,667
	Summer storage	—		
Total		18,900	14,285	11,801
Percent of available				82.6%

CLEAN WATER SERVICES WATER RELEASE SUMMARY 2007

	Units	May	June	July	Aug	Sept	Oct	Nov 1-3	Total
Scoggins Release	acre-ft	0	0	1,244	2,966	3,422	895	1,607	10,134
	days	0	0	29	31	30	16	13	119
Barney Release	acre-ft	0	0	0	0	833	833	0	1,667
	days	0	0	0	0	30	30	0	60
Total Release	acre-ft	0	0	1,244	2,966	4,256	1,728	1,607	11,801
Daily Average Release (for days with releases)	cfs	0	0	22	48	72	28	62	44

Measured Flows and Flow Goals for Tualatin River at Farmington (RM 33.3)

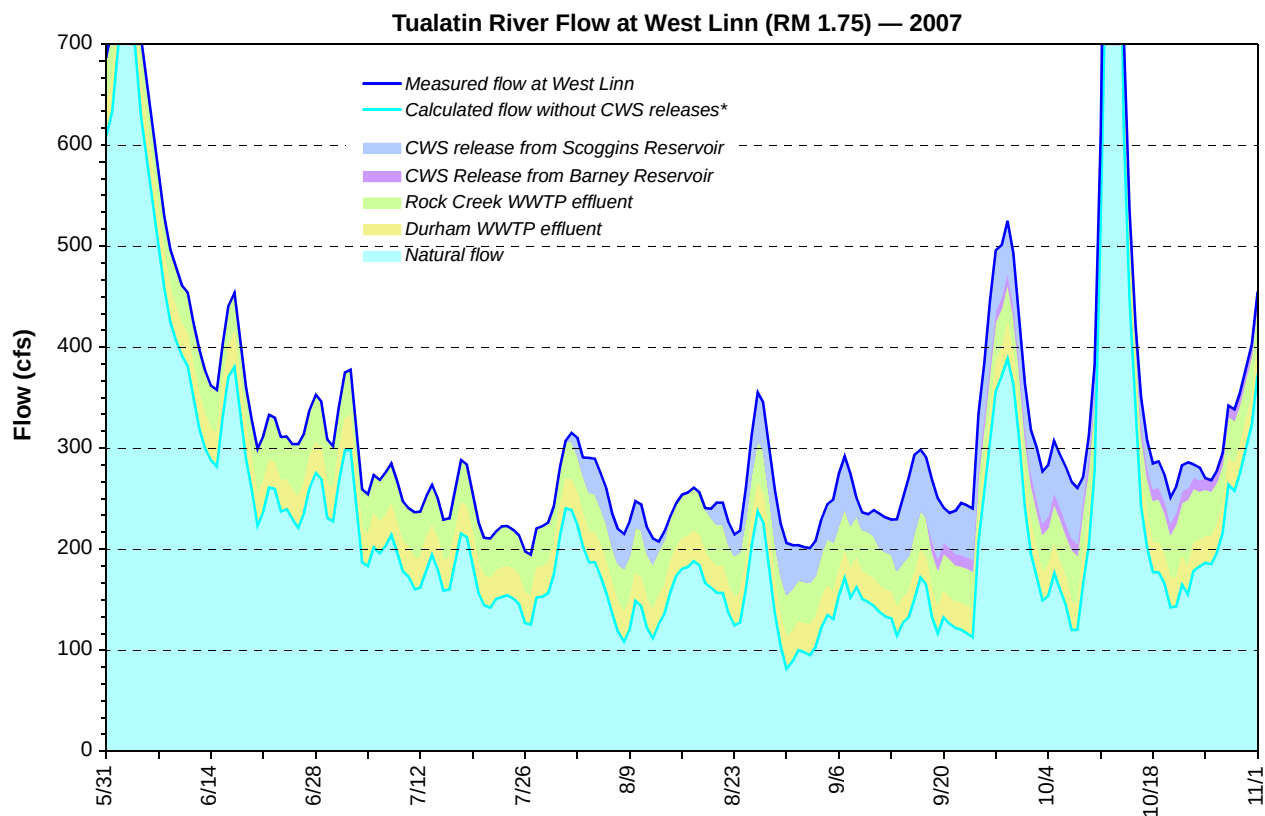
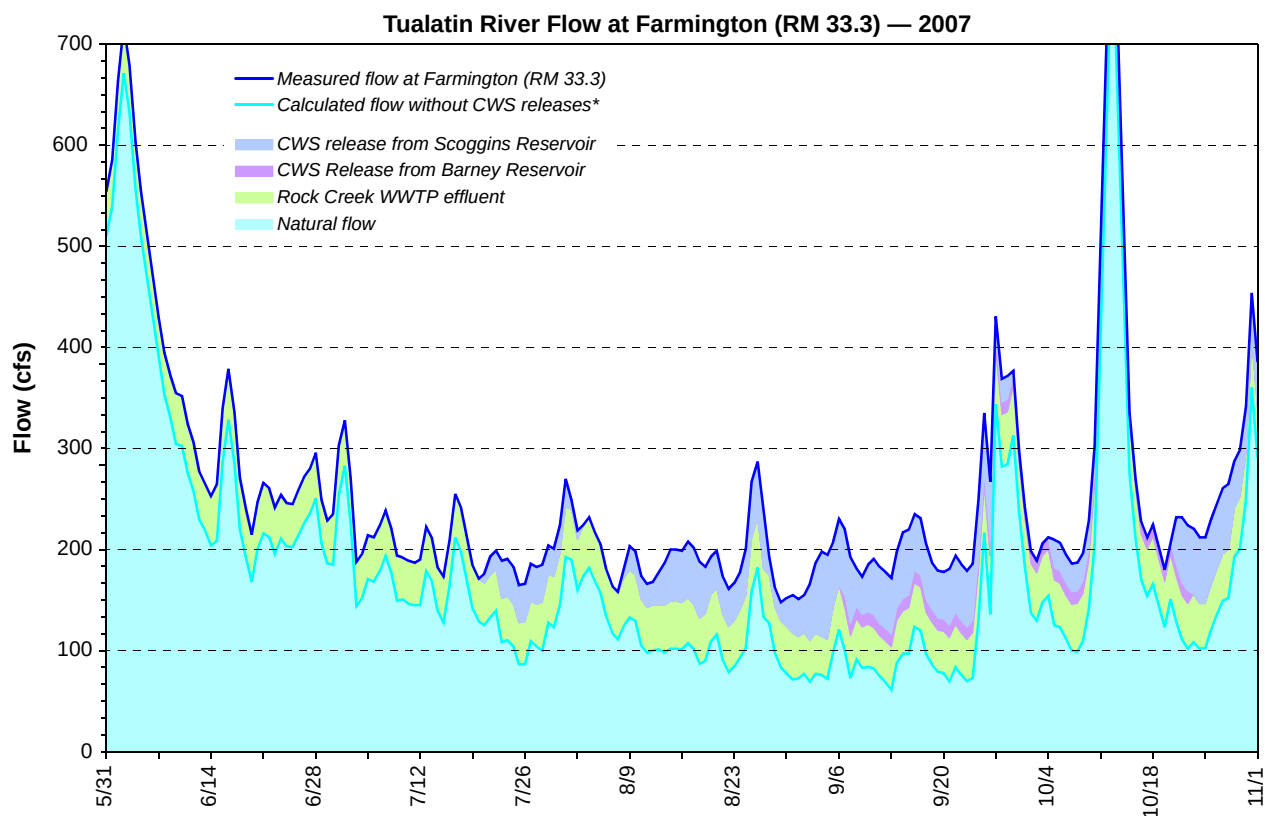
Measured minimum	cfs	214	170	155	145	170	176	209	—
Measured mean	cfs	384	227	195	183	201	310	247	—
Measured maximum	cfs	717	323	266	281	328	892	336	—
Daily minimum flow goal	cfs	120	120	120	120	120	120	120	—
Monthly mean flow goal	cfs	120	120	120	150	180	180	180	—

Natural flow credit

If the natural flow in the Tualatin River measured at West Linn is less than the flow target for the months of May, June, October and November, then CWS receives a natural flow credit of up to 4,282 acre-ft. Natural flow is calculated as the actual measured flow minus the CWS released flow. The table below shows that the natural flow at West Linn exceeded the flow targets for these four months, and therefore, CWS was not entitled to a natural flow credit in 2007.

BUREAU OF RECLAMATION NATURAL FLOW CREDIT 2007

Month	Mean Daily Measured Flow at West Linn (cfs)	Mean Daily CWS Release (cfs)	Calculated Natural Flow at West Linn (cfs)	Target Natural Flow at West Linn (cfs)	Maximum Possible CWS Natural Flow Credit (cfs) [acre-ft]	CWS Natural Flow Credit (cfs)
May	504	0	504	85	13 [798]	0
June	295	0	295	140	21 [1250]	0
October	430	28	402	95	16 [984]	0
November	616	27	589	110	21 [1250]	0



*Flows without CWS releases were calculated as follows. (Constant travel times and a uniform evaporative loss of 0.25% per mile were assumed.)

Flow at Farmington without CWS releases =

- + Measured flow at Farmington
- 0.988 x Rock Ck WWTP flow from the same day
- 0.933 x CWS Scoggins Release from 2 days before
- 0.888 x CWS Barney Release from 4 days before

Flow at West Linn without CWS releases =

- + Measured flow at West Linn
- 0.981 x Durham WWTP flow from 3 days before
- 0.909 x Rock Ck WWTP flow from 14 days before
- 0.854 x CWS Scoggins Release from 17 days before
- 0.809 x CWS Barney Release from 19 days before

Historical perspective

In 1987, Clean Water Services begin managing the release of its water with the goal of maintaining a monthly average of 150 cfs at the Tualatin River at Farmington. Work by the United States Geological Survey in the early 1990's indicated that it was more important to have higher flows in the fall to maintain dissolved oxygen levels than in the early summer to prevent algal blooms. The flow goals were changed to maintaining 120 cfs in the early summer, 150 cfs in August and then 180–200 cfs from September until the winter flows start. Winter flows are defined as flows that exceed a 7-day median of at least 350 cfs. In 2004, an additional goal of releasing water in July and August for temperature trading was added. The following table shows the history of Clean Water Services releases from Scoggins Reservoir

CLEAN WATER SERVICES — SCOGGINS RESERVOIR RELEASES

Year	Start Date	End Date	Total Release Days	Total Release (acre-ft)	Average per Release Day (cfs)	Minimum Monthly Flow at Farmington (RM 33.3) (cfs)
1987	6/9	11/30	175	16,722	48.2	138
1988	7/2	11/4	126	15,071	60.3	149
1989	6/27	11/15	141	16,586	59.3	158
1990	7/12	11/1	113	11,889	53.0	172
1991	7/12	11/4	116	13,024	56.6	181
1992	6/5	11/19	168	12,730	38.2	138
1993	7/3	12/1	150	11,486	38.6	154
1994	6/21	10/27	129	10,917	42.7	137
1995	6/24	11/8	138	9,824	35.9	174
1996	7/27	11/10	114	10,952	48.4	205
1997	7/4	10/2	91	6,716	37.2	202
1998	8/12	11/7	87	9,407	54.5	175
1999	7/27	11/12	109	12,001	55.5	188
2000	7/21	11/27	130	15,275	59.2	174
2001	9/25	11/14	50	2,403	24.0	114
2002	6/12	11/9	151	12,618	42.0	103
2003	7/11	11/17	130	11,765	52.4	107
2004	7/1	11/2	125	8,650	34.9	130
2005	7/8	10/31	116	9,918	43.1	153
2006	7/1	11/3	126	9,634	38.5	148
2007	7/3	11/13	119	10,134	42.9	145

Water is released from Barney Reservoir at a constant rate during the late summer to supplement the water released from Scoggins Reservoir. The following table shows the historic use of Barney Reservoir releases. Clean Water Services owns 10% of the 20,000 acre-foot reservoir. Each year the Joint Water Commission decides how much water is to be released for the Department of Fish and Wildlife. This, plus the dead pool, is subtracted from the available water. The remainder is allocated to the owners.

CLEAN WATER SERVICES — BARNEY RESERVOIR RELEASES

Year	Start Date	End Date	Total Release (acre-ft)	Daily Release Rate (cfs)	Comment
1998	7/12	8/27	2,779	24.6	extra water released to draw down reservoir
1999	9/1	10/19	1,025	10	10 cfs also released 6/4–6/10
2000	9/8	10/23	1,461	18	—
2001	9/18	10/29	1,416	17	1000 acre-ft purchased in addition to allocation; reservoir did not fill; 4,000 acre-ft held in reserve
2002	8/26	10/24	1,667	14	—
2003	8/15	10/14	1,742	14	—
2004	9/1	11/2	1,777	14	—
2005	9/1	11/8	1,874	14	miscommunication about end date; extra water released
2006	9/1	11/3	1,638	14	—
2007	9/1	10/30	1,667	14	—

JOINT WATER COMMISSION & JOINT BARNEY COMMISSION

BY NIKI IVERSON, WATER RESOURCES MANAGER, JOINT WATER COMMISSION/CITY OF HILLSBORO

Over 300,000 people in Washington County receive at least a portion of their water from JWC. The Joint Water Commission (JWC) provides water to its member agencies: the cities of Hillsboro, Forest Grove, Beaverton and Tigard, and the Tualatin Valley Water District. JWC also provides wholesale service directly to the city of North Plains, and to Cornelius, Gaston, and LA Water Cooperative as wholesale customers of Hillsboro. JWC's water production averages approximately 33.1 million gallons per day. During the peak periods of the summer, production increases substantially; in 2007 production peaked at 58.4 million gallons per day. JWC's highest peak production was 60 million gallons per day in 2006.

JWC's water treatment plant is supplied with water from the nearby Tualatin River. Water is pumped from an intake facility at Spring Hill that was constructed by the Bureau of Reclamation and is shared with the Tualatin Valley Irrigation District (TVID). Flows in the Tualatin River are supplemented during the summer with water from impounds at Scoggins Dam (Hagg Lake) and Barney Reservoir. Scoggins Dam is owned by the Bureau of Reclamation and is operated by contract with TVID. The Barney Reservoir Joint Ownership Commission (BRJOC) is the owner of Barney Reservoir, which is formed behind the Eldon Mills Dam on the Trask River. BRJOC includes Hillsboro, Forest Grove, Beaverton, and Tualatin Valley Water District as well as Clean Water Services.

The JWC water treatment plant uses conventional, dual media filtration, along with disinfection, to produce high quality potable water. Treated water is pumped from the plant to the member agencies either directly through finished water pipelines leaving the plant or via the Fern Hill Reservoirs. Fern Hill Reservoirs include two 20 million gallon covered concrete tanks, for a total of 40 million gallons of storage, located about one-third mile to the east of the treatment plant. The second 20 million gallon reservoir was recently constructed at the Fern Hill Site and began operation in October 2006. The JWC finished water pipelines include master meter and pressure reducing stations at the connection points to the member agencies.

JWC continued its emphasis on maximizing the capture of our source waters through improved coordination of the operation of Fern Hill Reservoirs with JWC member system demands, and through careful tracking of individual member use of their stored water. The 2007 stored water release program had continued success during our peak season, as the JWC pump station recovered 96.4% of the water available to us at our intake from our natural flow rights and releases from our impounded supplies.

JWC appreciates the efforts of the watermaster and our partners on the Flow Management Committee, and we extend our thanks for all of their involvement and cooperation. The communication and coordination that comes from this committee among the various Tualatin River users is invaluable to us.

SUMMARY OF 2007 RELEASE SEASON

Description	Beginning Balance (acre-ft)	Amount Released (acre-ft)	Calculated Inflow (acre-ft)	Ending Balance (acre-ft)	Average Release (acre-ft/day)
Breakdown by Reservoir					
Scoggins	13,500.00	10,371.72		3,128.28	66.91
Barney (M&I)	14,886.00	5,543.88	906.20	9,342.12	35.77
Total	28,386.00	15,915.60	906.20	12,470.40	102.68
Breakdown by Agency – Including Leased Allocations					
Hillsboro	9,327.40	4,602.24		4,725.16	29.69
Forest Grove	2,413.50	1,245.43		1,168.07	8.04
Beaverton	6,556.10	3,852.43		2,703.67	24.85
TVWD	9,589.00	5,735.32		3,853.68	37.00
Tigard	500.00	480.18		19.92	3.10
Total	28,386.00	15,915.60		12,470.40	102.68

Reservoir release detail after reallocation for leases (total released by storage ownership):

	Reservoir Release (acre-ft)			Average Release (acre-ft/day)
	Barney	Scoggins	Total Release	
Hillsboro	978.33	4,200.21	5,178.54	31.06
Forest Grove	485.64	2,519.01	3,004.64	24.70
Beaverton	897.54	3,652.51	4,550.05	39.20
TVWD	3,182.37	—	3,182.37	26.49
Total	5,543.88	10,371.72	15,915.60	121.45
North Plains usage is reflected in the figures for JWC partners:			49.09	0.32

COMPARISON OF STORED WATER RELEASES— 2006–2007

Year	Begin Date	End Date	Days Regulated Use	Stored Water Release (acre-ft)			Average Release (acre-ft/day)
				Barney	Scoggins	Total	
2007	5/25/2007	11/13/2007	155	5,543.88	10,371.72	15,915.60	102.68
2006	5/18/2006	11/3/2006	160	8,100.61	11,331.74	19,432.35	121.45

ESTIMATED WATER CAPTURE RATES (THROUGH 11/14/2007)

Peak production for season:	179.20 acre-ft/day
Average production for season:	116.91 acre-ft/day
Stored water released:	15,915.60 acre-ft
WRD loss factor:	–533.09 acre-ft
Natural flow:	+3,988.82 acre-ft
Total water available to be pumped:	19,371.33 acre-ft
Raw water pumped at Springhill Pump Station:	17,913.75 acre-ft = 92.48% of available
Water produced through Slow Sand Filter Plant:	509.37 acre-ft
Total water pumped for regulated season:	18,423.12 acre-ft = 95.11% of available
Finished water produced:	18,156.16 acre-ft = 93.73% of available
Total production:	18,665.53 acre-ft = 96.36% of available

LAKE OSWEGO CORPORATION

BY MARK ROSENKRANZ, WATER RESOURCE SPECIALIST

Introduction

The Lake Oswego Corporation (LOC), a non-profit organization, owns and manages Oswego Lake, a 168-hectare (403 acre) reservoir located 10 miles south of Portland, Oregon. LOC was formed in 1942 when the Oregon Iron and Steel Company, then owner of the land around the Lake, deeded to LOC the land, three dam structures, and all water rights. The original dam was constructed in 1871 and later upgraded in 1921. Oswego Lake is a private water body whose primary water right is hydropower generation. Secondary uses include irrigation, aesthetic viewing, contact recreation, fishing, and boating.

Oswego Lake and Watershed Morphology

The original natural lake, called Waluga, was formed 10,000 years ago by the Missoula glacial floods, altering the old Tualatin River channel. Today, the Lake has three basins: West Bay, the Main Lake, and Lakewood Bay. There are also two shallow, man-made canals, Blue Heron Canal and Oswego Canal. Oswego Canal is the 2.4-km conduit from the Tualatin River (RM 6.7). Total lake surface area and volume is 1.63 km² (403 acres) and 12.7 x 10⁶ m³ (10,300 acre-feet). Shoreline length, including bays and canals, is 18.62 km (11.56 mi.). Oswego Lake has a 5.08-km (3.15-mi) fetch and a narrow 0.56-km width (0.34-mi). The hydraulic residence time is 390 days.

Oswego Lake's two watersheds include the natural, 7.5-mi² urban basin around the Lake (10:1 watershed to lake-area ratio) and the larger 700-mi² Tualatin River basin (1,000:1 ratio) when the LOC Headgate is opened. Major inflows from the watershed include Springbrook Creek, Lostdog Creek, Blue Heron Creek, and 70-plus storm drains from the City of Lake Oswego.

LOC Water Rights

Hydro Power

The primary hydro power water right is 57.5 cubic feet per second (cfs) obtained in 1906 that allows year around diversion. To guarantee this flow during the dry season, LOC owns and operates a diversion dam located downstream of the Oswego Canal (RM 3.4). Flaps are erected on an "as needed" basis. In 2007, no flaps were used.

Irrigation

There is also a 1974 irrigation water right of 500 acre-feet for the irrigation season, March - October. LOC proved up their irrigation water right in 2000 with the Bureau of Reclamation and the Oregon Water Resources Department. The largest irrigator on the Lake is the Lake Oswego Country Club (approximately 175 acre-feet).

Maintenance/Evaporation

The third water right is the 1985 maintenance/evaporation water right of 3.36 cfs. This water can be diverted between September 16th and July 30th.

2007 Oswego Lake Management Summary

Water quality improvements and safety are the top priorities for LOC. The goal for the annual LOC Water Quality Management Plan is to reduce Cyanobacteria productivity and maximize the aesthetic value of the Lake by focusing on flow management, water quality treatment, and macrophyte issues.

Lake Water Quality

In 2007 the Oswego Lake water quality-monitoring program included six sites where water clarity, nutrient content, biological productivity, and chemical profiles were recorded. The year-round monitoring was conducted weekly during June through September and bi-weekly from October through May.

2007 OSWEGO LAKE WATER QUALITY SUMMARY AVERAGES

Location	Season	Chlorophyll-a (µg/L)	Total P (µg/L)	SRP (µg/L)	Total N (µg/L)	Secchi (m)	Turbidity (NTU)
Lakewood Bay	Annual	9	26	2	4.3	2.3	1.9
	Summer	12	33	2	397	1.6	2.8
Main Lake	Annual	12	28	4	543	3.1	2.4
	Summer	9	26	5	382	3.0	2.7
West Bay	Annual	10	54	15	1261	1.2	3.0
	Summer	9	42	3	523	1.2	2.7
Oswego Canal	Annual	5	165	63	3736	0.8	4.8
	Summer	7	175	65	3975	<u>0.8</u>	4.8
Blue Heron Canal	Annual	13	53	6	1026	1.0	4.7
	Summer	<u>6</u>	41	3	950	1.1	3.3
Outlet	Annual	11	24	2	505	3.1	2.2
	Summer	8	<u>22</u>	<u>2</u>	<u>324</u>	3.2	<u>2.2</u>

Bold = highest average during the summer; Underline = lowest average during the summer

Summer=June–September

Abbreviations: Total P = Total Phosphorus, SRP = Soluble Reactive Phosphorus, Total N = Total Nitrogen, Secchi = Secchi depth, Turb = Turbidity; µg/L = micrograms per liter, m = meters, NTU = nephelometric turbidity units, C = Celsius

Algae: Although the summer was dominated by cyanobacteria this year, West Bay and Main Lake concentrations were reduced from previous years because of periodic surface alum applications and ongoing alum injection. Lakewood Bay will need increased attention in the future as cyanobacteria is becoming problematic in this section of the lake. Our alum program has been effective in reducing phosphorus and the resultant cyanobacteria growth. Alum will continue to be used as necessary to reduce phosphorus that promotes algae and cyanobacteria. Nutrient input from the watershed and Tualatin River will have to be dramatically reduced in order to greatly reduce the amount of active management required to control phosphorus.

Macrophytes: Spring herbicide applications in Lakewood Bay and Half Moon bay were successful in controlling invasive *Potamogeton crispus* (curlyleaf pondweed). Later applications to Blue Heron Canal, Oswego Canal, and West Bay were used to control curlyleaf and invasive *Egeria densa* (Brazilian elodea).

In addition to herbicides, macrophytes are controlled by an aquatic weed harvester and diver hand-pulling. Harvesting is most effective when large areas of vegetation have reached the surface. Harvesting will clip vegetation about five feet below the surface. Hand-pulling is an effective long-term control solution used for removing complete plants from root to stem. A barge is equipped with a four inch suction hose that draws in plants where they are macerated and emptied into a tote for removal.

Chemical Treatments: Chemical treatments were limited to herbicide applications to control non-native aquatic weeds. In 2007 Lakewood Bay, Half Moon Bay, Kelok Bay, Oswego Canal, Blue Heron Canal, and West Bay were treated with herbicide.

Alum Treatments: This year LOC surface applied 45,000 gallons liquid alum and injected 8,800 gallons. Our surface applications occurred in Lakewood Bay, West Bay, Oswego Canal, Blue Heron Canal, and the West End. Alum injectors are installed in the same locations as mentioned above except for the West End.

Oswego Lake Watershed Management

To provide long-term water quality solutions and to be proactive in preserving the quality of the Lake, watershed activities are a major part of the LOC management plan.

Tualatin River Flows

Minimal Tualatin river flows were used for keeping the lake full. It is desirable to reduce river flow into Oswego Lake due to high phosphorus and sediment concentrations in the river water.

Oswego Lake Basin

A comprehensive storm sampling program in collaboration with the City of Lake Oswego continues. Sampling targets six stations on Lost Dog Creek on the south shoreline and nine outfalls on the lake perimeter. Data collected were phosphorus, nitrogen, total suspended solids, turbidity, and flow.

Management in the Future

LOC continues to monitor the Lake and watershed to better understand the ecosystem. Future plans are:

- Continue to implement the integrated aquatic plant management plan involving hand pulling, harvesting, and herbicides
- Continue educating watershed residents about water quality impacts
- Assess conditions in bays and canals and propose localized solutions
- Work with City to improve surface water runoff to the Lake
- Maximize the water quality improvements with the 2-layer lake aeration system
- Continue to use aluminum sulfate as a phosphorus reduction tool.



OREGON WATER RESOURCES DEPARTMENT

BY DARRELL C. HEDIN, WATERMASTER, DISTRICT 18

Introduction

The District 18 Watermaster's Office is a field office of the Oregon Water Resources Department (OWRD) in cooperation with Washington County, and is responsible for water supply management within the Tualatin, Lake Oswego, and Lower Willamette Drainage Basins.

The Watermaster's Office is part of the Field Services Division of OWRD. There are twenty Watermaster Districts statewide, organized into five regions. The Watermaster functions as a local contact for landowners, elected officials, and watershed councils, as well as other governmental agencies at the local, state and federal level. Duties include conducting streamflow measurements and maintaining gaging stations, in addition to performing well inspections and collecting groundwater level data. Information is also provided to landowners and others on water rights and Oregon Water Law. The Watermaster is also responsible for regulating water use during times of shortage.

Oregon Water Laws

Under Oregon law, all water is publicly owned. With some exceptions, cities, farmers, factory owners, and other water users must obtain a permit or water right from the Water Resources Department to use water from any source, whether it is underground, or from lakes or streams. Generally speaking, landowners with water flowing past, through, or under their property do not automatically have the right to use that water without a permit from the Department.

Oregon's water laws are based on the principle of prior appropriation. This means the first person to obtain a water right on a stream is the last to be shut off in times of low streamflows. In water-short times, the water right holder with the oldest date of priority can demand the water specified in their water right regardless of the needs of junior users.

There are four fundamental provisions under Oregon's Water Code:

Beneficial purpose without waste: Surface or groundwater may be legally diverted for use only if it is used for a beneficial purpose without waste.

Priority: The water right priority date determines who gets water in a time of shortage. The more senior the water right, the longer water is typically available for use.

Appurtenancy: Generally, a water right is attached to the land described in the right, as long as the water is used. If the land is sold, the water goes with the land to the new owner.

Use: Once established, a water right must be used as provided in the right at least once in every five year consecutive period. With some exceptions if nonuse occurs over a consecutive five year period the right is considered forfeited and is subject to cancellation.

Watermaster Department for 2007

Overall the year turned out to be fairly normal for streamflows in the Tualatin Basin. Regulation began on May 29 due to early dry conditions that dropped streamflows. As has happened many times before, rain events came again shortly after regulation and restored flows long enough to lift regulation for some until the middle of June. The regulation summary for the 2007 irrigation season is below. The Watermaster continues to work on the Significant Diversion Inventory whose goal is to achieve compliance with permit conditions for surface water diversions. Typically the conditions are that users install metering on their pumps and keep track of water usage.

2007 WATER RIGHTS REGULATION SUMMARY

Date	On/Off	Regulatory Activity	Mile	Back To
5/29/2007	Off	City of Beaverton (P-45455, 7/15/1980) – Tualatin River City of Forest Grove (P-40615, 4/28/1976) – Tualatin River City of Hillsboro (P-46423, 2/6/1974) – Tualatin River City of Hillsboro (P-50879, 6/9/1988) – Scoggins Creek TVID (P-35792) – Scoggins Cr	>56.09	2/5/1974
5/31/2007	Off	Tualatin River & tributaries above Springhill Pump Plant Tualatin River — 11, 2/20/1963 Gales Creek — 62, 9/24/1963 Carpenter Creek — 4, 7/10/1967 Scoggins Creek — 3, 7/28/1975 TVID (P-35792, 2/20/1963) – Scoggins Creek	> 56.09	2/19/1963
6/11/2007	On	TVID (P-35792, 2/20/1963) – Scoggins Creek	n/a	n/a
6/13/2007	Off	TVID (P-35792, 2/20/1963) – Scoggins Creek	n/a	2/19/1963
8/1/2007	Off	Tualatin River & tributaries above Springhill Pump Plant Tualatin River — 40, 3/18/1936 Gales Creek — 71, 9/6/1932 Carpenter Creek — 12, 3/25/1935 Scoggins Creek — 13, 4/1/1932	> 56.09	Between 2/19/1963 and 8/16/1930
8/10/2007	Off	McKay Creek and tributaries above Northrup Road	=44.73 =2.26 >15.5	Between 5/25/1966 and 10/8/1976
9/4/2007	Off	City of Hillsboro (P-2443, 5/1/1915) – Sain Creek City of Hillsboro (P-1136, 1/22/1912) – Sain Creek	n/a	1/21/1912
10/3/2007	On	City of Hillsboro (P-2443, 5/1/1915) – Sain Creek City of Hillsboro (P-1136, 1/22/1912) – Sain Creek (for a total of 5 cfs)	n/a	
10/3/2007	On	TVID (P-35792) – Scoggins Creek TVID (P-5777) – Scoggins Creek	n/a	n/a
10/3/2007	On	Stimson Lumber Co (P-10633) – Scoggins Creek-1	>56.8	n/a
10/19/2007	On	City of Beaverton (P-45455, 7/15/1980) – Tualatin River City of Forest Grove (P-40615, 4/28/1976) – Tualatin River City of Hillsboro (P-46423, 2/6/1974) – Tualatin River City of Hillsboro (P-50879, 6/9/1988) – Scoggins Creek	n/a	n/a

Gaging Stations

A complete listing of streamflow gaging stations that are operated by OWRD within the Tualatin River Basin is shown below.

WATERMASTER DISTRICT 18 GAGING STATIONS FOR 2007

Station Number	Stream	Stream Mile	Latitude	Longitude	Type
14206933	Ash Creek @ Metzger Park @ Metzger, OR	1.25	45°27'00"N	122°45'45"W	Logger
14206400	Beaverton Creek @ 170th near Aloha, OR	5.0	45°30'03"N	122°51'03"W	Staff
14206360	Beaverton Creek @ Cedar Hills Blvd @ Beaverton, OR	7.45	45°49'31"N	122°81'05"W	Logger
14206435	Beaverton Creek @ NE Guston Ct near Orenco, OR	1.2	45°31'15"N	122°53'59"W	Logger
14206423	Bronson Creek @ Bronson Rd near Orenco, OR	2.1	45°32'18"N	122°51'15"W	Logger
14206421	Bronson Creek @ West Union near Orenco, OR	3.1	45°32'42"N	122°50'18"W	Staff
14206419	Bronson Creek @ Saltzman Rd near Orenco, OR	5.1	45°33'19"N	122°48'25"W	Logger
14206748	Cedar Creek @ Edy Rd near Sherwood, OR (no rating curve)	0.62	45°22'05"N	122°51'22"W	Logger
14206395	Cedar Mill Creek @ Murray Blvd near Beaverton, OR	1.64	45°30'37"N	122°49'18"W	Logger
14206750	Chicken Creek @ Scholls-Sherwood Rd near Sherwood, OR	2.3	45°22'31"N	122°51'24"W	Logger
14206200	Dairy Creek at Hwy 8 near Hillsboro, OR	2.06	45°30'38"N	123°06'56"W	*Logger
14205480	E. Fk. Dairy Creek at Dairy Creek Rd near Mountindale, OR	12.33	45°40'32"N	123°03'54"W	Staff
14205000	W. Fk. Dairy Creek @ Banks, OR	7.7	45°37'26"N	123°06'59"W	Staff
14205160	W. Fk. Dairy Creek @ Evers Rd near Roy, OR	1.96	45°34'34"N	123°05'34"W	Staff
14206443	Dawson Creek @ Brookwood Rd near Hillsboro, OR	0.7	45°31'27"N	122°56'01"W	Logger
14206365	Erickson Creek @ Menlo Dr @ Beaverton, OR	0.76	45°29'14"N	122°58'54"W	Logger
14206950	Fanno Creek @ Durham Rd near Tigard, OR	1.2	45°24'12"N	122°45'18"W	*Logger
14206925	Fanno Creek @ Scholls Ferry Rd near Garden Home, OR	9.4	45°28'16"N	122°46'25"W	Staff
14204530	Gales Creek @ Old Hwy 47 near Forest Grove, OR	2.36	45°30'39"N	123°06'56"W	*Logger
14204540	Gales Creek @ Clapshaw Hill Rd near Gales Creek, OR	12.36	45°35'39"N	123°12'38"W	Staff
14206957	Hedges Creek Wetland near Tualatin, OR	1.2	45°22'53"N	122°46'35"W	Logger
14206958	Hedges Creek @ Tualatin Park @ Tualatin, OR	0.3	45°23'08"N	122°45'37"W	Logger
14206372	Johnson Creek @ Davis Rd near Beaverton, OR	1.3	45°28'30"N	122°49'52"W	Logger
14206190	McKay Creek @ Padgett Road near Hillsboro, OR	1.31	45°31'57"N	123°00'16"W	Logger
14205980	McKay Creek @ Northrup Rd near North Plains, OR	15.5	45°38'36"N	122°59'32"W	Staff
14206070	McKay Creek @ Scotch Church Rd above Waible Creek near North Plains, OR	6.3	45°57'21"N	122°99'18"W	Logger
14207000	Oswego Canal near Lake Oswego, OR	6.7	45°23'18"N	122°43'10"W	Logger
14206450	Rock Creek @ Hwy 8 near Hillsboro, OR	1.2	45°30'08"N	122°56'52"W	Logger
14206347	Rock Creek @ Quatama Rd @ Orenco, OR	4.9	45°31'25"N	122°54'34"W	Logger
14206305	Rock Creek @ NW Rock Creek Rd near Bowers Junction, OR	15.8	45°37'04"N	122°53'13"W	Logger
14206338	Rock Creek @ West Union Rd near Bethany, OR	9.0	45°33'34"N	122°52'30"W	Logger
14202920	Sain Creek above Hagg Lake near Gaston, OR	1.6	45°28'50"N	123°14'40"W	Logger
14202850	Scoggins Creek above Hagg Lake near Gaston, OR	8.0	45°30'06"N	123°15'06"W	*Logger
14211116	Springbrook Creek @ Iron Mountain Rd near Lake Oswego, OR	0.18	45°24'46"N	122°42'13"W	Logger
14206938	Summer Creek @ 121st Ave near Tigard, OR	1.0	45°26'06"N	122°47'55"W	Logger
14206905	Sylvan Creek @ Raleighwood Ln near West Slope, OR	1.0	45°29'35"N	122°44'48"W	Logger
14202860	Tanner Creek above Hagg Lake near Gaston, OR	1.6	45°30'21"N	123°13'10"W	Staff
14206600	Tualatin River @ Elsner	16.2	45°23'17"N	122°51'03"W	Staff
14206500	Tualatin River @ Farmington, OR	33.3	45°26'58"N	122°57'02"W	*Logger
14202510	Tualatin River @ Gaston, OR	62.3	45°26'21"N	123°07'85"W	*Logger

WATERMASTER DISTRICT 18 GAGING STATIONS FOR 2007

Station Number	Stream	Stream Mile	Latitude	Longitude	Type
14204800	Tualatin River @ Golf Course Rd near Cornelius, OR	51.5	45°30'08"N	123°03'22"W	*Logger
14202450	Tualatin River below Lee Falls near Cherry Grove, OR	70.7	45°30'21"N	123°13'06"W	*Logger
14206295	Tualatin River @ Rood Bridge Rd near Hillsboro, OR	38.4	45°29'24"N	122°57'06"W	*Logger
14206956	Tualatin River @ Tualatin (station number formerly 14206960)	8.9	45°23'14"N	122°45'46"W	*Logger
14206100	Waible Creek at Jackson School Rd near Hillsboro, OR	1.0	45°33'55"N	122°58'12"W	Logger
WAPO	Wapato Canal near Gaston, OR (from Tualatin R)	61.9	45°26'29"N	123°07'17"W	Staff
14206410	Willow Creek @ NW 143rd Ave near Beaverton, OR	3.5	45°32'12"N	122°49'24"W	Logger
14206413	Willow Creek @ Heritage Pkwy near Beaverton, OR	0.75	45°31'12"N	122°51'35"W	Logger

*Telemetry

Tualatin River Flow Management Technical Committee

The Watermaster and staff would like to thank all the committee members for your continued financial support of the Tualatin and Lake Oswego Basins gaging station network and also your weekly reporting of information to this office. The monthly graphs and technical reports compiled by this office and distributed during the Flow Management meetings are an important part of assessing the current conditions of the basin and are only possible with your support. It is through this collaboration and support that the Flow Management Committee has attained the highest levels of success within the basin.

TUALATIN VALLEY IRRIGATION DISTRICT

BY WALLY OTTO, RESERVOIR SUPERINTENDENT

Introduction

The Tualatin Valley Irrigation District (TVID) was formed in 1962 and is located in Forest Grove Oregon. According to records, in 1915 about 15 acres were irrigated in Washington County. By 1933, that total had grown to 130 acres. In 1951, there were a total of 18,455 acres with water rights in Washington County registered with the Office of Oregon State Engineer. This office is currently known as the Oregon Water Resources Department (OWRD) and located in Salem. The Tualatin Basin is included in OWRD District 18 headquartered in Hillsboro. When the Irrigation District was formed in 1962, the total acreage with water rights had increased to 33,885 acres. TVID was formed to assist in the delivery of irrigation water to about half of those acres (17,000) in the Tualatin Basin. The water was supplied from natural flow and return flows. This remained difficult since the two water supplies were extremely limited due to the early summer withdrawals from the River and the increasing need for irrigation. Beginning in 1975, additional water became available that was stored in the winter behind the newly completed Bureau of Reclamation Project, Scoggins Dam. Most of the water from these three sources is now pumped from the Tualatin River at the Spring Hill Pump Plant. Today, the majority of water is delivered to patrons through approximately 120 miles of pressurized pipeline. Additional water flows down both Scoggins Creek and the Tualatin River is withdrawn by irrigators with land abutting the River. They are known as "River Users" and pay for their own pumping costs since they are not associated with the pressure pipeline system. When natural flow no longer meets demand, the District 18 Watermaster begins regulating "junior" water users off. The TVID storage right is dated 1963 so anyone with water rights after that date must stop withdrawing water from the River before TVID. Storage water is discharged from Scoggins Reservoir (Henry Hagg Lake) to either augment the river flow or supply the entire need for the Irrigation District patrons (both the pump plant/pressure pipeline users and the river users). Water for some of the District members on the lower Tualatin River is supplied by reuse water discharged from the two Clean Water Services treatment plants. Crops irrigated with District water range from row crops including blueberries, blackcaps, corn, pumpkins and other vegetables to nursery stock.

2007 TVID Overview

During 2007, TVID used 22,114 acre feet of water from storage. This was a record amount for the District. For a 20 year average, it came in at 136%. For the 10 year average, it was 132%. It bypassed the previous high set in 2006 by 990 acre feet. Once again, the high use of storage water was in part caused by the extended season for irrigation allowed to TVID beginning in March and ending in November by the extended water season in agreement with the OWRD. All water used outside the normal irrigation season of April through October must come from TVID's annual contracted storage allotment of 27,022 acre feet.

Peak use (135 cfs) for the District came on July 12th. The high temperature had been 98 °F on the 11th and 94 °F on the 12th. Even though the temperatures later dropped into the 80's, demand remained high for a week. Then again in late July until August 17th, demand increased and remained between 98 and 129 cfs. This once again was related to the temperatures rising to the 80's and 90's. The month of November continued to require water from storage with an average of 3 cfs. During November, only 4.68" of precipitation was received at the dam. This was 59% of average for the month and container nurseries required water.

The extension of the irrigation season for the Tualatin Valley Irrigation District has made growing specialty crops in the District much more appealing. Primarily used for berries and later for the nurseries, a much more diverse list of crops can be served water. Nursery stock including flowers can now be raised well into November when protected by greenhouses. The District is now home to many small specialty nurseries along with several large operations. Water along with our moderate climate is critical for their success.

TVID Water Use

TVID is allowed to provide water to 17,000 acres. In 2007, a total of 16,466.9 acres were mapped and received water from the District. The following table breaks down how the District water was distributed within the three usage categories.

WATER YEAR 2007 CROP SUMMARY			
Water Use	Irrigated Acres	Breakdown by Crop	
		Crop	Irrigated Acres
High	6567.5	Berries	2365.6
		Nursery, Flowers	4201.9
Medium	3732.7	Corn	1245.5
		Turf, Yard, Garden	1793.8
		Vegetables – non-corn	693.4
Low	6166.7	Grain	1412.3
		Grass	2613.8
		Pasture, Trees, Nuts, Willow, Grapes	2140.6
Total (permits 35792 and 49958)	16466.9		

2007 TVID Operation and Maintenance

TVID delivers irrigation water by high pressure pipeline to customers from Gaston to North Plains and from West of Forest Grove to Highway 219 South of Hillsboro. The water is withdrawn from the Tualatin River near Fern Hill, south of Forest Grove. It is lifted by pumps to a water regulating tank on Blooming-Fern Hill and is then under gravity pressure from the tank to all points of delivery. Preventative maintenance continues to keep service delivery as dependable as possible. Several minor disruptions of service did occur during the year but were quickly isolated and repaired. Service was restored within minutes in some cases to a day if conditions did not allow quick access. One disruption came when a world wide equipment manufacturer staged a field demonstration of their trackhoe line. It was staged on property with a 27" TVID pipeline crossing the field in a dedicated easement! There were eight large machines digging "potholes" for demonstration purposes. The Oregon Utility Notification Center (Call before you Dig) had not been notified of the planned activity as required by Oregon law. The property owner had not notified TVID. The manufacturer was just told by the property owner that they could "dig up the field." This repair took more time than usual. A one inch hole was put into the steel pipe but because the accident occurred at the base of a hill, it took two days to drain the water out before repair could begin. A large steel plate was welded in place when access became available. Fortunately, this incident occurred in May before the water demand was critical. Most nurseries had alternate sources-ponds or creeks. Service was disrupted to less than a dozen customers for three days. This was the longest disruption of service and fortunately involved only a few patrons.

A moratorium remains in place regarding new turn-out deliveries. No new deliveries were added to the delivery system during 2007. One delivery was moved slightly to accommodate a property sale. The Measure 37 land use law approved by voters of the State of Oregon and upheld by the Oregon Supreme Court has not impacted the Irrigation District so far. Some lands served with District water have been approved for development by Washington County however no permanent water right transfers and or subdivisions within the District service area have been approved as of this time. The application process begins with Washington County and any changes in water service would have to then be approved by the District.

The Tualatin Valley Irrigation District and Clean Water Services continue their cooperative effort in identifying water use needs outside the Districts boundaries. Water conservation continues to be a priority. The TVID water distribution network was again used by CWS with great success in 2007. Two temporary pipelines were run from a TVID turnout to augment the low summer and fall flows in McKay Creek. The water quality of the stream was improved greatly at minimal cost. The cooperative partnership is expected to continue and possibly expand to other creek crossings in the future.

Scoggins Dam

Scoggins Dam, the primary feature of the Tualatin Project, is located on Scoggins Creek, a tributary of the Tualatin River. Owned by the Federal Government, the dam is administrated under the Department of Interior, Bureau of Reclamation. The dam was constructed in the early 1970's for the purpose of storing water in the winter to make it available for use in the summer and fall. Half of the water stored in Henry Hagg Lake is authorized for irrigation to 17,000 acres. One fourth of the water is for municipal and industrial used primarily as a raw water drinking water source for the cities of Forest Grove, Hillsboro and Beaverton. The Lake Oswego Corporation also receives 500 additional acre feet for irrigation. The approximate final fourth of the stored water is for Clean Water Services. CWS has 16,900 acre feet contracted from the Project of which 12,618 acre feet is available from storage in normal operating years. CWS water is used to augment the low summer and fall Tualatin River stream flows. This helps meet water quality standards set for the River.

Scoggins Dam is also authorized by the U. S Congress to provide flood control for the communities located downstream. The dam controls runoff from a 39 square mile watershed or about 5% of the total 711 square miles in the entire Tualatin River basin. Flood control relief is provided for the cities of Gaston, Forest Grove, Cornelius and other downstream communities. By storing and providing water for these uses, the dam and lake also provide water for recreation, maintenance of fish life in the Tualatin River basin and conservation of wildlife resources. The reservoir (Henry Hagg Lake) is also a major recreational destination. In 2007, there were 684,184 user days recorded at the 2,851 acre facility. The Park and lake opened on March 3rd and closed November 18th. Recreational uses included boating, fishing, picnicking, swimming, hiking, biking and relaxation. Numerous races were also held throughout the year including triathlons. Scoggins Dam does not generate electricity.

A "milestone" was reached in the amount of stored water delivered from Scoggins Dam in 2007. This completed 33 years of storing and delivering water from the multi-use project. A total of 44,130 Acre Feet of water were delivered in 2007. This now brought the 33 year total to over one million acre feet. The final total was 1,013,928 acre feet. 22,114 AF was delivered to TVID (a new record high), 10,132 to CWS, 3,840 to the City of Hillsboro, 3,458 to the City of Forest Grove, 3,093 to the City of Beaverton, 499 to the Lake Oswego Corporation and 994 to other uses including golf courses. Regulation by the Oregon Water Resources Department from natural flow on the Tualatin River to storage began on June 13th and lasted until October 3rd. 2007 was a typical water use season.

At Scoggins Dam, earthquake activity, weather (including temperature and precipitation), river stage levels and the water surface elevation are reported and recorded electronically. Many of these electronic reporting stations have alarms to alert operators if sudden and or unusual conditions develop including earthquakes and flooding. Operation and Maintenance of the dam is managed under contract between the TVID and Reclamation. While operators are not on site 24/7, the Project is monitored 24/7, both by Reclamation and TVID personnel.

Security at Scoggins dam remains a priority. The Department of Homeland Security (DHS) uses a five level alert system. Reclamation's Advisory System and Response Measures require the Project to follow the DHS alert levels and are defined as follows:

Green alert	Low risk of terrorist attacks
Blue alert	General risk of terrorist attacks
Yellow alert	Significant risk of terrorist attacks
Orange alert	High risk of terrorist attacks
Red alert	Severe risk of terrorist attacks

The alert level remained at Yellow for all of 2007. When the alert level rises to Orange, the Dam and appurtenant structures are inspected thoroughly every day. Alert level elevations are not necessarily caused by a specific threat to Scoggins Dam. The threat may be national in scope or regional. Alerts are

now being based on the types of infrastructure deemed at risk. This has refined the necessity for all segments of government to respond to each threat. A Site Security Plan specific to Scoggins Dam, adopted in October 2005, is used to maintain a level of security on the Project for the protection of life and supply of water. The Plan documents existing security systems, procedures, security responses and responsibilities and is to be used in conjunction with numerous other documents relating to the safe operation of the Project. Site security is taken very seriously at Scoggins Dam.

2007 Events at Scoggins Dam

Pipe repair: In January, a major spot coating repair was done on the 64" diameter outlet works pipe. This consisted of preparing and coating areas where the coating had failed on the interior of the pipeline, the D/S face of the gate relief and the transition piping. A coatings contractor was given the task of washing the old coating and surface residue off, then preparing each site with needle guns before restoring the coating in prescribed stages. All rust nodules found were popped and removed. This project was inspected daily by TVID and Reclamation officials to assure proper procedures were followed. It was a stopgap project. The entire inner coating will have to be removed and recoated eventually, but this preventative maintenance project saved money and postponed a total repair for years.

Coho found: Seventeen coho redds were found in the Outlet Channel on Nov 21st, 2006. In an effort to save them and possibly reestablish a run in Scoggins Ck, restrictions in rate of flow change and the minimum required discharge were altered. Ramping of discharges was not mandatory but done voluntarily. The discharge also was never decreased to lower than 25 cfs, the flow in the creek when the redds were first observed. In November of 2007, new redds were found and the same ramping procedure is being used when possible in 2008. Of course, an emergency release for the safety of the dam and residents of the valley would supersede this procedure.

Title transfer: The title transfer process of the Tualatin Project and Scoggins Dam has come to being largely due to the Water Feasibility Study that has been ongoing for several years. It has been concluded that almost double the current storage is going to be needed in the Tualatin basin by the year 2050. A huge effort has been made to gain title to the Project to allow the dam to be raised. Local control would help in better managing the water with all entities involved.

Alarms installed: Intrusion Alarms installed in April and May continued to increase the security of the facility. These alarms have several different measuring devices included and are monitored 24/7 by a local monitoring service. All Mission Essential Vulnerable Areas (MEVA's) are now under continuous surveillance. This system augments the CCTV camera system that was updated two years ago. Several false alarms occurred in 2007 but no unauthorized intrusions occurred.

Oil spill response: Two responses to oil spills were made. One response was to "oil in the road" at the Stephin and Scoggins Valley road intersection, just above the lake. Oil was reported running into the ditch and then going immediately to the lake. Investigation found it to be water seeping up through the asphalt. Only trace amounts of oil from the asphalt were detected. In October, a diesel oil spill was reported in Gaston. It was minor and did not endanger waters of the Tualatin.

Tours: Numerous tours were again given to grade school classes from the West Metro area. Over 400 children grades 4 through 6 including teachers and chaperones, visited the Project. Each individual learned the purposes of Scoggins Dam/Henry Hagg Lake and its benefit to the Basin and community. These tours followed the release of fish fry which each classroom had cared for through the incubation process.

Procedure revisions: Standard Operating Procedure (SOP) revisions were made to the electrical section to depict all electrical changes that have been made over the last twenty years! Reclamation officials, the electrical contractor and site supervisor diligently recorded and then drew new schematics that accurately depict the changes. New buildings have been added, a new generator installed along with a multitude of other changes. These are now properly recorded.

Facility review: The 2007 Period Facility Review (PFR) of Scoggins Dam was performed in May. This is done every six years by a team of Reclamation officials from the Regional office in Boise, the Field office in Bend and the Dam operation personnel. It offsets the Comprehensive Facility Review (CFR) also performed every six years and last done in 2004. Investigation and inspections were made of the entire facility including the embankments, abutments, seepage drains, the outlet works and all operational activities. Any deficient areas are noted and then made in the form of recommendations to correct. The 2007 PFR report has not yet been issued.

Temperature probe installation: Final installation of a temperature probe at the gaging site at Dilley was done in May. This completes the system that measures the water temperature at Scoggins Ck. above the lake (inflow), Scoggins Ck below the dam (discharge), the gaging site at Gaston on the Tualatin River (before influence of Scoggins stored water) and now at Dilley on the Tualatin River after the two have been combined.

Topoff Emergency Management Terrorism Exercise: Scoggins Dam played in the exercise billed as the “largest emergency management exercise in history.” It was directed by the Federal government and directed locally by the Office of Consolidated Emergency Management. The exercise was multi-state and even included Guam. In the exercise, all Washington County jurisdictions were elevated to the Orange terrorism level. Scoggins dam played an extremely minor role when compared to the size of the entire scope. Communications were the primary area tested

Snow and flooding: Snow began falling on November 28th and by December 3rd, there was widespread flooding in the basin which even exceeded the Feb. 1996 levels in some areas. Inflow to the reservoir was 4600 cfs throughout the day. Many roads were closed, including Highway 47 south of Forest Grove between Gales Creek and the old railroad crossing. Huge amounts of sediment and debris were washed into the reservoir including large old growth trees and many alders complete with root wads. An estimated 5 to 7 acres of woody debris was collected in the lake. The reservoir stored all but minimum discharge during the flood since the fill season had just begun. The Tualatin River at Dilly (DLLO site) crested at 19.03'; this was only 0.03' lower than in 1996! Removal of the debris from the reservoir did not begin until February 2008.

Catch a Special Thrill: Catch A Special Thrill (CAST) continues to be a special event held on Sept 9th. Forty children ages 7-16 years old participated. The program is targeted for kids who have a variety of physical or developmental disabilities and in some cases, a terminal illness. Each child was given fishing gear, fun packs and a variety of goodies donated by the local community. There were 33 boats with 60 volunteers to make the day special, fun and memorable for the 40 children. Smiles and laughter in the face of difficulty is probably the best measure of success. Again, many fish were caught by excited youngsters. Partners and sponsors of the event included: Bureau of Reclamation, Oregon State BASS Federation, Oregon Bass and Panfish Club, Kiwanis Clubs—Forest Grove and Hillsboro, Washington County Parks, Gaston Fire and Rescue, Forest Grove Fire and Rescue, Eagle Claw Hooks, Plano Tackle Boxes, Tualatin Valley Irrigation District, FishingGear.com, and Zebco. The 2008 CAST event will be held on September 7th at “C” ramp. Anyone interested in participating or volunteering can contact Reclamation's Lower Columbia Area Office at 503-872-2733. For a recap of the 2007 activities, including pictures, at Henry Hagg Lake, go to http://www.castforkids.org/2007_Events/cast_hagg.html

In conclusion, the 2007 water year was classified as normal in regards to both water available and water used. The Tualatin Project continues to be a vital asset for meeting the water needs of the Tualatin basin. A record of all daily operations of the dam and river flows both above the reservoir and below can be viewed in Appendix C under “Scoggins Dam Reservoir Operations.”

WATER QUALITY STATUS REPORT

BY JAN MILLER, CLEAN WATER SERVICES

Tualatin Basin TMDLs

The current Tualatin Total Maximum Daily Load (TMDL) became effective in August 2001. The Department of Environmental Quality revised the 1988 total phosphorus (for excessive algal growth and high pH) and ammonia (for low dissolved oxygen in the mainstem river) TMDLs and added TMDLs for temperature, bacteria, and settleable volatile solids which uses total suspended solids as a surrogate (for low dissolved oxygen in the tributaries). The Department of Environmental Quality issued Clean Water Services an NPDES Watershed-Based Waste Discharge Permit in February 2004. The following evaluation of river and tributary conditions and wastewater treatment plant effluent is for general information and not for determining compliance. In many instances, the statistics and reporting periods shown in this review are different than those used to judge compliance with the permits or to compare the river conditions to the TMDLs.

Total Phosphorus

The 2001 Tualatin TMDL set river and tributary loading capacities in mg/L. The following table shows the loading capacities and the data for the key sites both historically (1990, 1995, and 2000) and in recent years (2004 to 2007).

MEDIAN TOTAL PHOSPHORUS CONCENTRATIONS FOR SUMMER SEASON (MAY 1–OCT 31)

Location Code	Location	River Mile	2001 TMDL Loading Capacity (mg/L as P)	Total Phosphorus (mg/L as P)						
				1990	1995	2000	2004	2005	2006	2007
Tualatin River										
3701715	Cherry Grove	71.5	0.04	—	0.01	0.01	0.02	0.01	0.01	0.01
3701612	Springhill	61.2	0.04	0.04	0.03	0.03	0.02	0.01	0.01	0.01
3701528	Golf Course Road	52.8	0.04	0.05	0.04	0.03	0.03	0.03	0.03	0.03
3701450	Hwy 219	44.4	0.04	—	0.07	0.05	0.06	0.06	0.06	0.06
3701391	Rood Bridge Road	39.1	0.09	0.10	0.08	0.06	0.06	0.07	0.07	0.07
3701333	Farmington Road	33.3	0.10	0.43	0.08	0.09	0.08	*	0.08	0.08
3701271	Scholls	27.1	0.10	0.15	0.09	0.08	0.09	0.09	0.09	0.09
3701165	Elsner	16.5	0.11	0.14	0.09	0.08	0.09	0.09	0.09	0.09
3701087	Boones Ferry Road	8.7	0.11	0.23	0.09	0.08	0.10	0.09	0.09	0.10
3701054	Stafford Road	5.4	0.10	0.23	0.09	0.08	0.09	0.09	0.09	0.10
3701002	Weiss Bridge	0.2	0.10	0.22	0.09	0.08	0.09	0.09	0.08	0.08
Tributaries										
3805017	Scoggins @ Hwy 47		0.04	—	0.03	0.01	0.02	0.01	0.01	0.01
3810015	Gales @ New Hwy 47		0.04	0.06	0.05	0.04	0.05	0.04	0.04	0.04
3815021	Dairy @ Hwy 8		0.09	0.13	0.11	0.11	0.13	0.12	0.12	0.13
3820022	Rock @ Brookwood		0.19	0.21	0.21	0.18	0.18	0.19	0.24	0.20
3824001	Bronson @ 205th		0.13	0.13	0.12	0.12	0.15	0.14	0.19	0.15
3835020	Chicken @ Scholls-Sherwood		0.14	0.23	0.12	0.11	0.12	0.11	0.11	0.11
3838001	Nyberg @ Brown		0.14	—	—	0.17	0.18	0.20	0.19	0.20
3840012	Fanno @ Durham		0.13	0.15	0.15	0.15	0.16	0.15	0.16	0.14
* Water quality data for the Tualatin River at Farmington was not available for the summer of 2005 due to bridge construction.										

The following table shows the treatment plant performance relative to total phosphorus.

2007 MONTHLY MEDIAN TOTAL PHOSPHORUS CONCENTRATIONS IN WWTP EFFLUENT

		May (mg/L as P)	June (mg/L as P)	July (mg/L as P)	Aug (mg/L as P)	Sept (mg/L as P)	Oct (mg/L as P)
Rock Creek WWTP	Effluent	0.06	0.06	0.06	0.06	0.06	0.03
	Limit	0.10	0.10	0.10	0.10	0.10	0.10
Durham WWTP	Effluent	0.09	0.09	0.07	0.06	0.10	0.05
	Limit	0.11	0.11	0.11	0.11	0.11	0.11

The phosphorus TMDL was developed to protect the beneficial use of

- aesthetics, as measured by chlorophyll-*a*, and
- fish and wildlife, as measured by pH.

Three-month stratified mean chlorophyll-*a* for selected sites in the Tualatin Basin is shown in the following table. The water quality guidance level for this statistic is 15 µg/L. The river met the chlorophyll-*a* guidance level in 2007. This is the second year since the total phosphorus TMDL was issued in 1988 that it has met this guidance level.

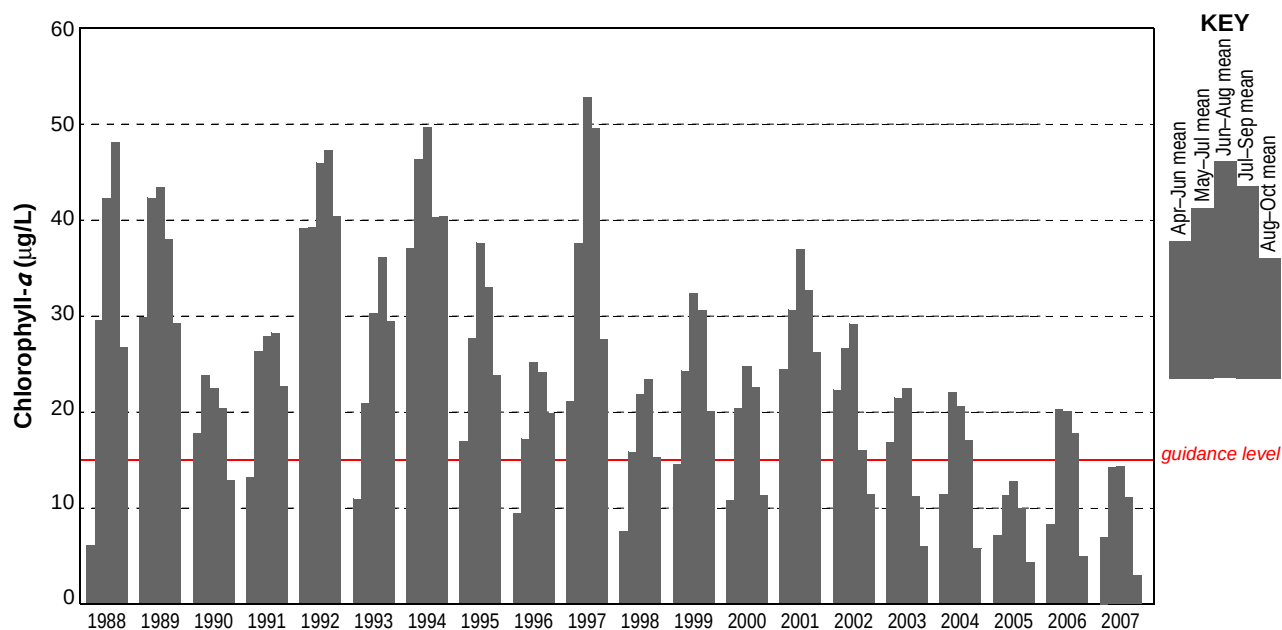
2007 THREE-MONTH MEAN CHLOROPHYLL-*a* CONCENTRATIONS

Location	River Mile	Mar-May (µg/L)	Apr-Jun (µg/L)	May-Jul (µg/L)	Jun-Aug (µg/L)	Jul-Sep (µg/L)	Aug-Oct (µg/L)
<i>Tualatin River</i>							
Rood Bridge Road	39.1	3.7	3.3	2.7	2.6	2.8	2.7
Farmington Road	33.3	3.6	2.9	2.2	1.8	1.7	1.7
Scholls	27.1	3.7	3.0	2.4	1.9	1.3	1.3
Elsner	16.5	4.4	4.8	5.4	5.2	3.6	2.2
Boones Ferry Road	8.7	4.4	7.6	10.8	10.3	6.3	2.2
Stafford Road	5.4	4.2	7.0	14.2	14.3	11.1	3.0

Chlorophyll-*a* concentrations are an indicator of the amount of algae in the river. High pH values can result from photosynthetic activities of the algae. This causes a negative impact on aquatic resources. The data from the continuous recorder at the Lake Oswego dam at river mile 3.4 were evaluated. This is the area of the river with the maximum algal production. In 2007, there were no pH values that exceeded 8.5. Low pH values are not a problem in the Tualatin River system.

The historic and current data for chlorophyll-*a* concentrations show an general decreasing trend over time (see the graph and table on the following page).

TUALATIN RIVER AT STAFFORD ROAD (RM 5.4)



MEAN CHLOROPHYLL-*a* CONCENTRATIONS – TUALATIN RIVER AT STAFFORD ROAD (RM 5.4)

Year	Apr-Jun (µg/L)	May-Jul (µg/L)	Jun-Aug (µg/L)	Jul-Sep (µg/L)	Aug-Oct (µg/L)
1988	6.1	29.6	42.2	48.1	26.7
1989	29.8	42.3	43.4	38.0	29.3
1990	17.8	23.8	22.4	20.4	12.8
1991	13.2	26.3	27.9	28.2	22.7
1992	39.1	39.2	45.9	47.3	40.3
1993	10.9	20.9	30.3	36.1	29.5
1994	37.0	46.3	49.7	40.3	40.4
1995	16.9	27.6	37.6	33.0	23.8
1996	9.4	17.2	25.2	24.1	19.9
1997	21.1	37.6	52.7	49.5	27.6
1998	7.6	15.8	21.8	23.4	15.2
1999	14.5	24.3	32.3	30.6	20.1
2000	10.8	20.4	24.7	22.5	11.3
2001	24.4	30.6	36.9	32.7	26.2
2002	22.3	26.6	29.2	16.0	11.4
2003	16.8	21.5	22.4	11.2	6.0
2004	11.4	22.0	20.6	17.0	5.8
2005	7.1	11.3	12.7	10.0	4.4
2006	8.3	20.3	20.1	17.8	5.0
2007	7.0	14.2	14.3	11.1	3.0

Ammonia TMDL

The 2001 TMDL revised the permitted ammonia loads. It allows higher loads of ammonia in the spring and early summer when river conditions are favorable for the assimilation of ammonia and lower ammonia loads in the fall when sediment oxygen demand consumes more oxygen leaving very little assimilative capacity. For the months of July through November, there are two tiers of ammonia limits. The applicable tier is based on the previous weeks downstream dissolved oxygen levels. The ammonia limit ends when Farmington flow exceeds 350 cfs. Flows were above 350 cfs on November 14, 2007.

The following table compares the effluent ammonia load with the most restrictive ammonia limit (most restrictive tier). A less restrictive limit would be in place if dissolved oxygen levels downstream of the treatment plants were above 6.7 mg/L. The actual permit is based on weekly ammonia discharges. There were no weekly permit violations in 2007.

2007 MONTHLY AMMONIA LOADS AND LIMITS FOR WWTP EFFLUENT

	May	June	July	August	Sept	October
Rock Creek WWTP median load (lb/day)	13	5	6	5	6	6
Durham WWTP median load (lb/day)	43	21	5	5	6	6
Total allowed load (lb/day)	2566	1683	832	296	218	258

The ammonia TMDL is designed to protect the dissolved oxygen levels in the reservoir-like section of the Tualatin River. The water quality criteria for this section of the river, which is considered “Cool Water Habitat,” are.

- Grab samples: DO > 6.5 mg/L
- Continuous Monitoring:
 - 30-day average of daily mean DO > 6.5 mg/L (no credit for supersaturation)
 - 7-day average of daily minimum DO > 5.0 mg/L (no credit for supersaturation)
 - Daily minimum DO > 4.0 mg/L

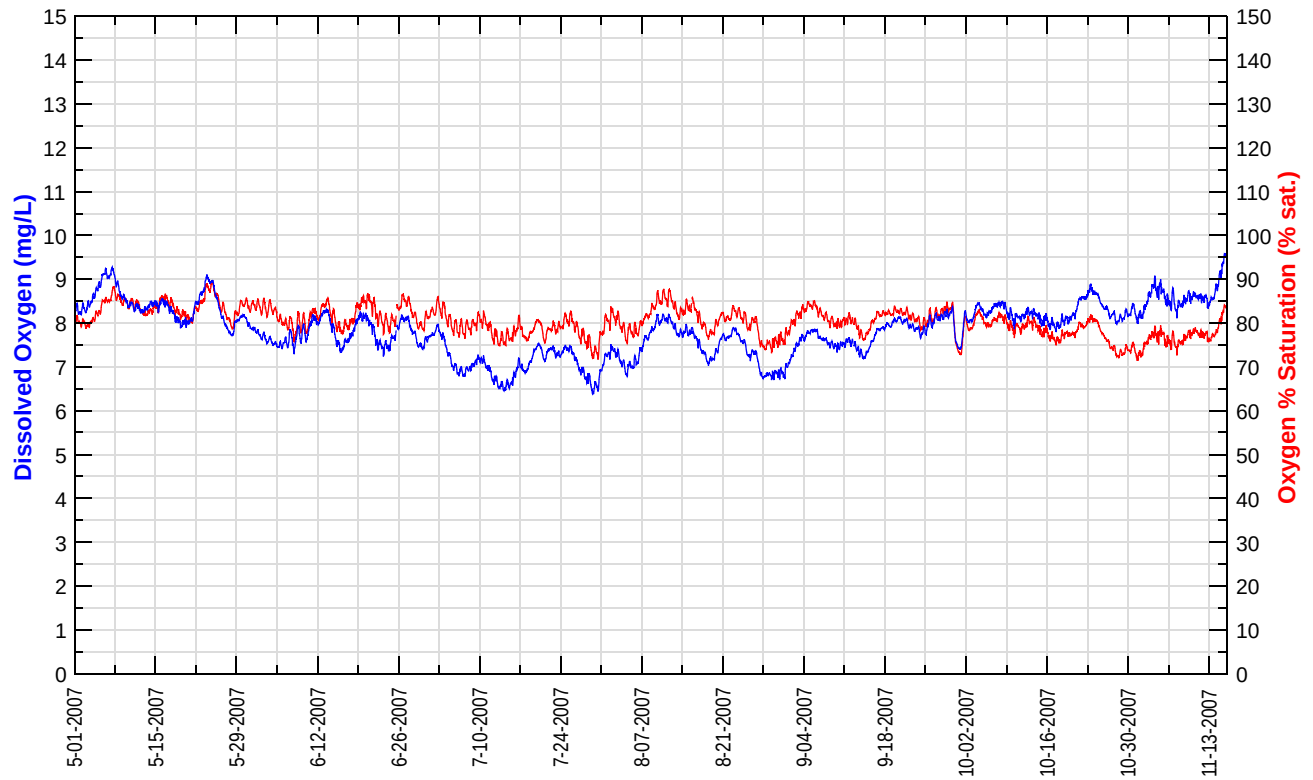
The following table shows the river conditions relative to dissolved oxygen at two locations in the reservoir section of the river. Continuous monitors are deployed at these locations. Graphs of the dissolved oxygen concentrations at these two locations are shown on the following page.

NUMBER OF DAYS THAT DID NOT MEET DISSOLVED OXYGEN CRITERIA IN 2007

Criterion	May	June	July	Aug	Sept	Oct	Summer Percentage
<i>Tualatin River at RM 24.5</i>							
30 day	0	0	0	0	0	0	0 %
7 day	0	0	0	0	0	0	0 %
Daily	0	0	0	0	0	0	0 %
<i>Tualatin River at Oswego Dam</i>							
30 day	0	0	0	20	23	0	18%
7 day	0	0	3	0	0	0	1 %
Daily	0	0	0	0	0	0	0 %

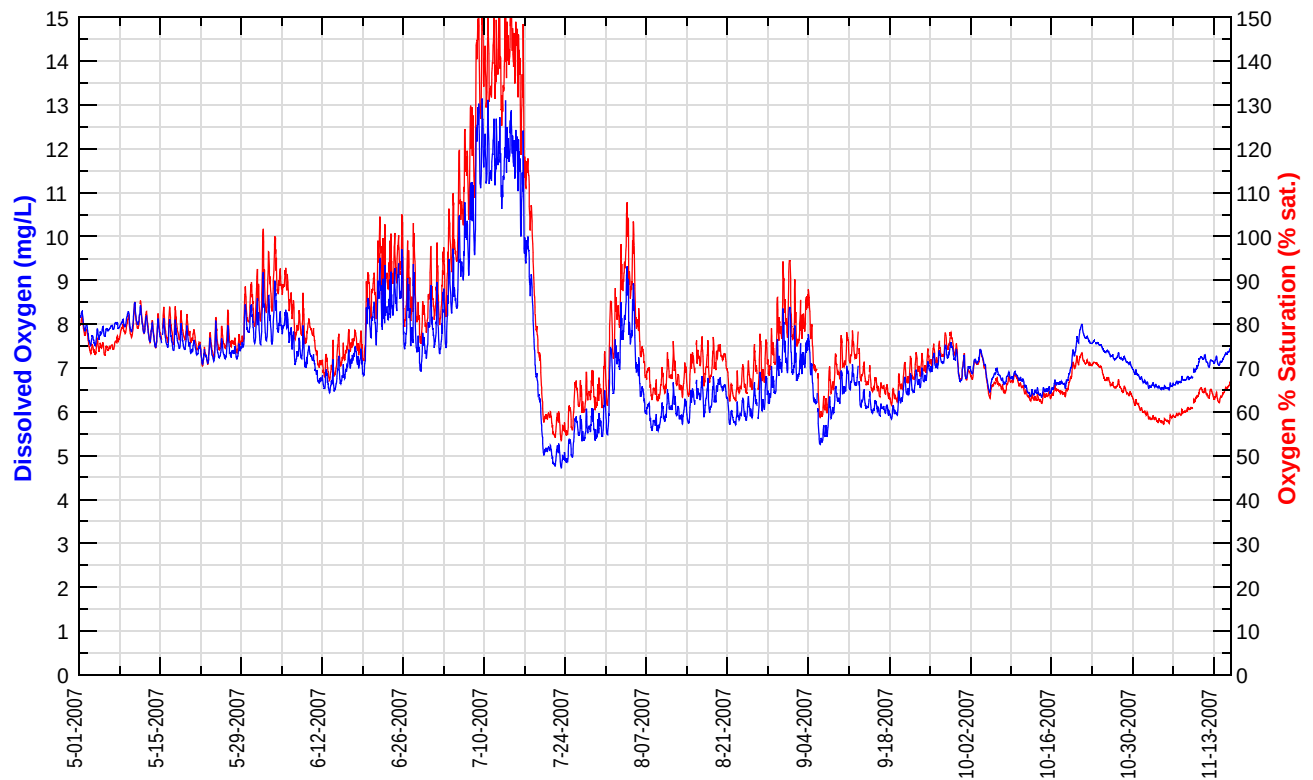
Tualatin River at River Mile 24.5 (14206694)

Data from U.S. Geological Survey



Tualatin River at Oswego Diversion Dam (14207200)

Data from U.S. Geological Survey

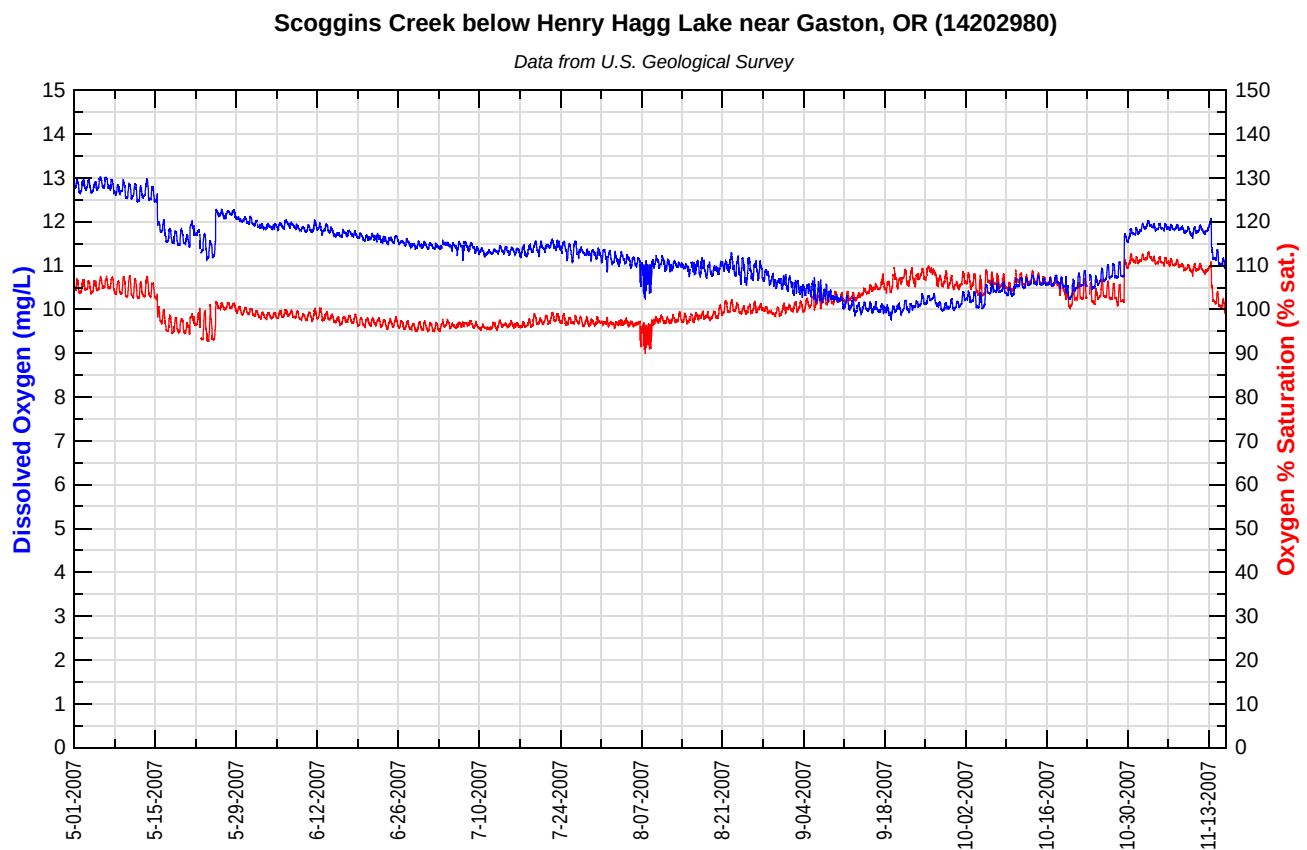


Temperature TMDL

Temperature data for the Tualatin River and its tributaries are shown in Appendix F.

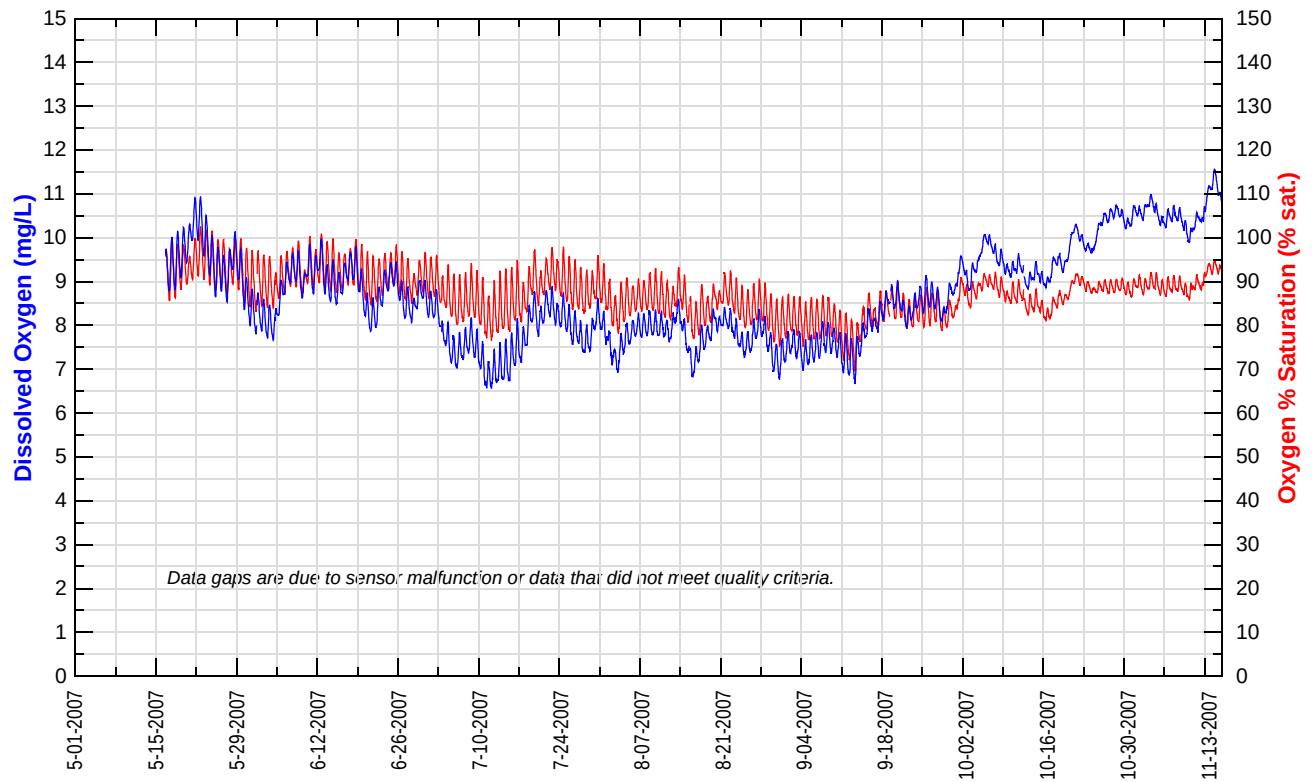
Dissolved Oxygen TMDL for Tributaries

The 2001 Tualatin TMDL contained requirements for tributary total suspended solids (a surrogate for settleable volatile solids) load reductions to protect dissolved oxygen. The best way to display data concerning solids reduction are being developed. The following graphs show the dissolved oxygen levels measured by continuous monitors at several tributaries during the summer period. These data are available at http://or.water.usgs.gov/cgi-bin/grapher/graph_setup.pl?basin_id=tualatin.



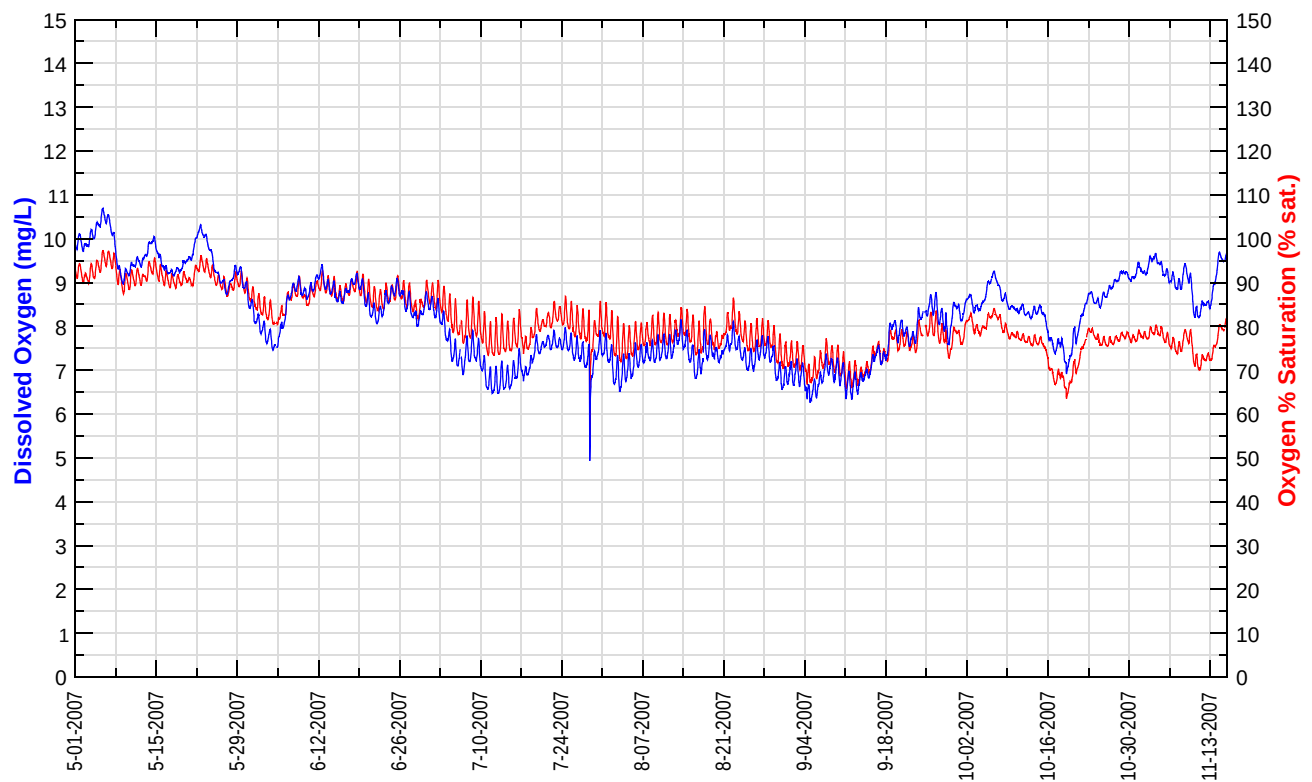
Gales Creek at Old Hwy 47, Forest Grove, OR (453040123065201)

Data from U.S. Geological Survey



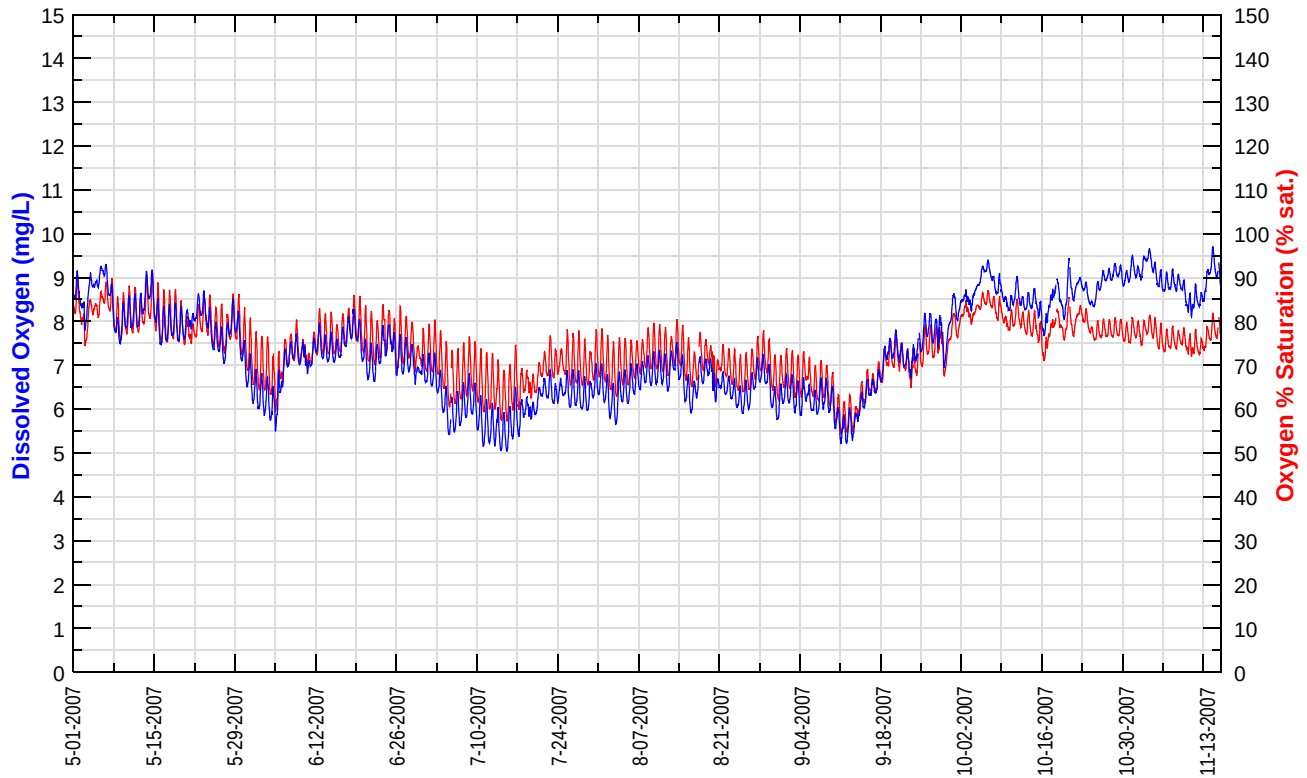
Dairy Creek at Hwy 8, Hillsboro, OR (453113123003501)

Data from U.S. Geological Survey



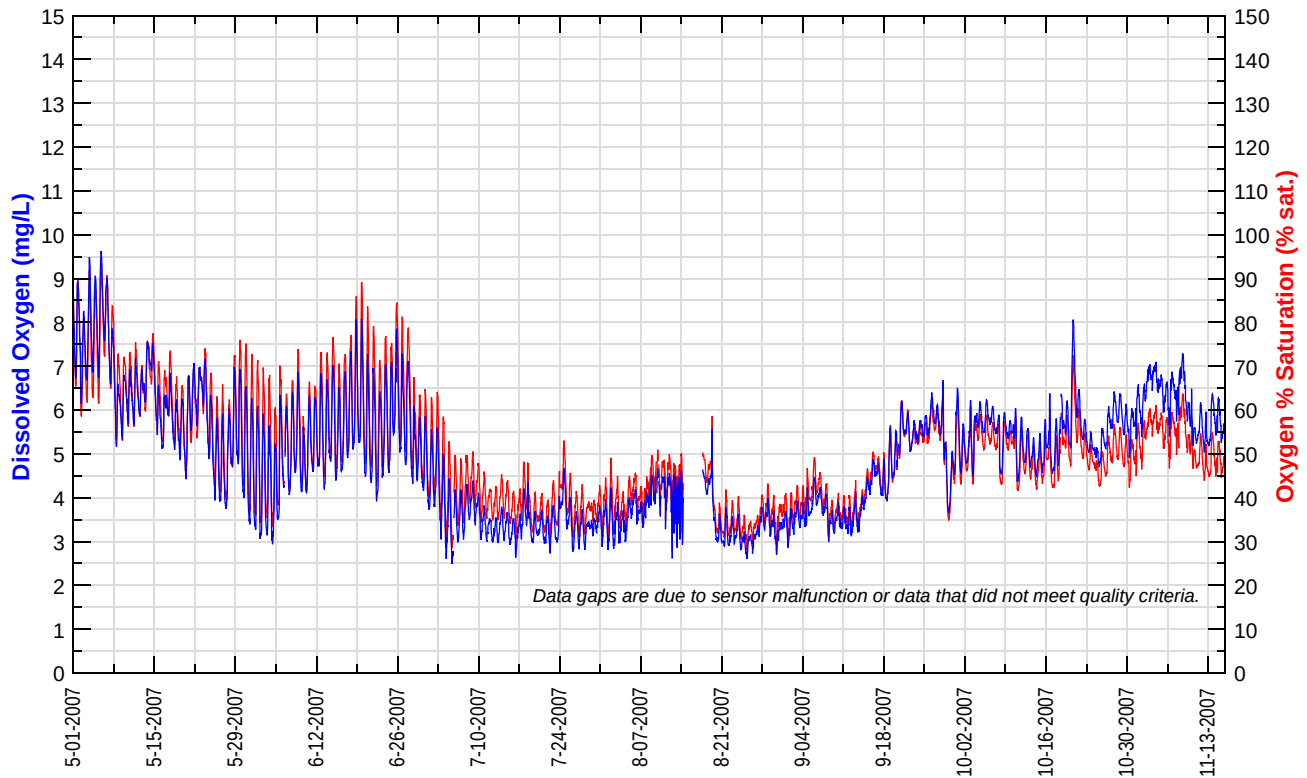
Rock Creek at Brookwood Ave, Hillsboro, OR (453030122560101)

Data from U.S. Geological Survey



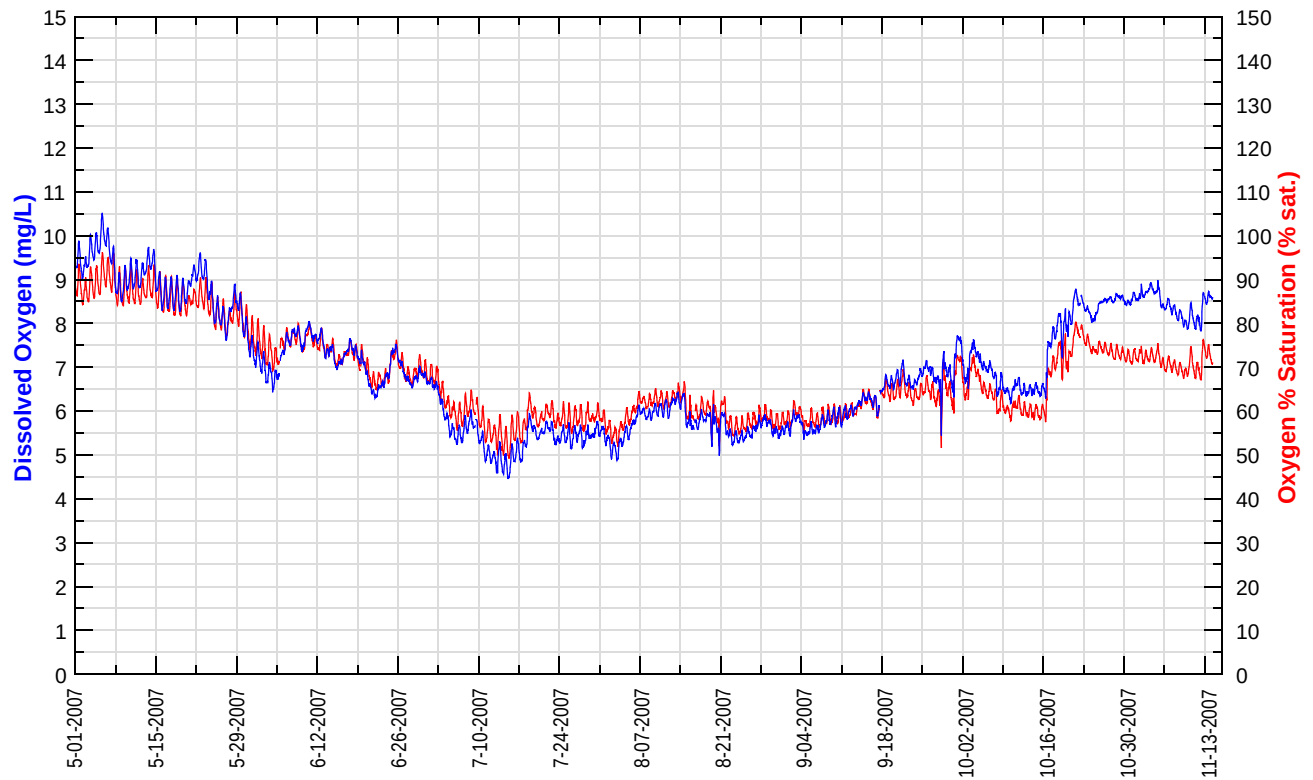
Beaverton Creek at 170th Ave, Beaverton, OR (453004122510301)

Data from U.S. Geological Survey



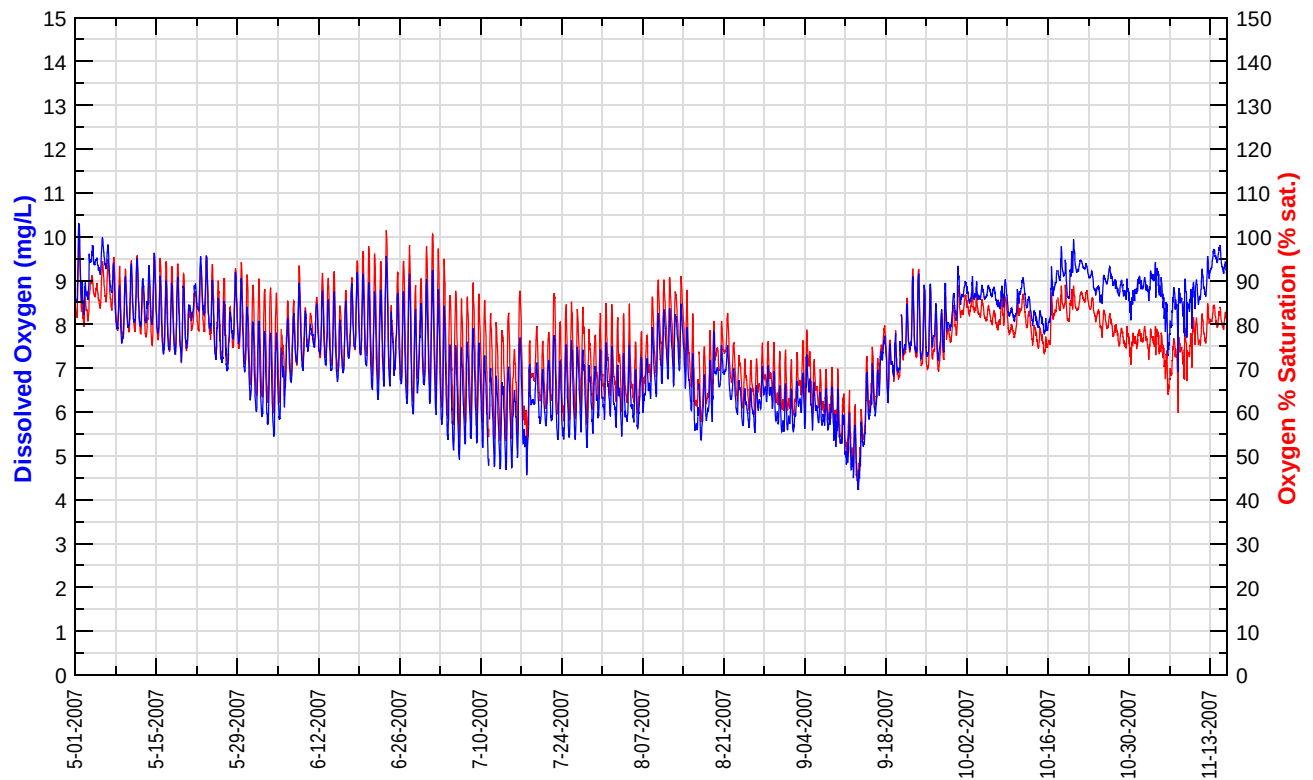
Chicken Creek at Scholls-Sherwood Hwy, Sherwood, OR (452230122512201)

Data from U.S. Geological Survey



Fanno Creek at Durham Road (14206950)

Data from U.S. Geological Survey



Bacteria TMDL

The TMDL for bacteria applies to both the Tualatin River and its tributaries during both summer and winter. The table below shows median and 90th-percentile bacteria levels for the 2007 winter and summer seasons. The median is the middle value—half of the measured values were less than the median and half were greater. Similarly, the 90th percentile also divides the data—90% of the measured values were less and 10% were greater. The water quality goals are the same for summer and winter; they are:

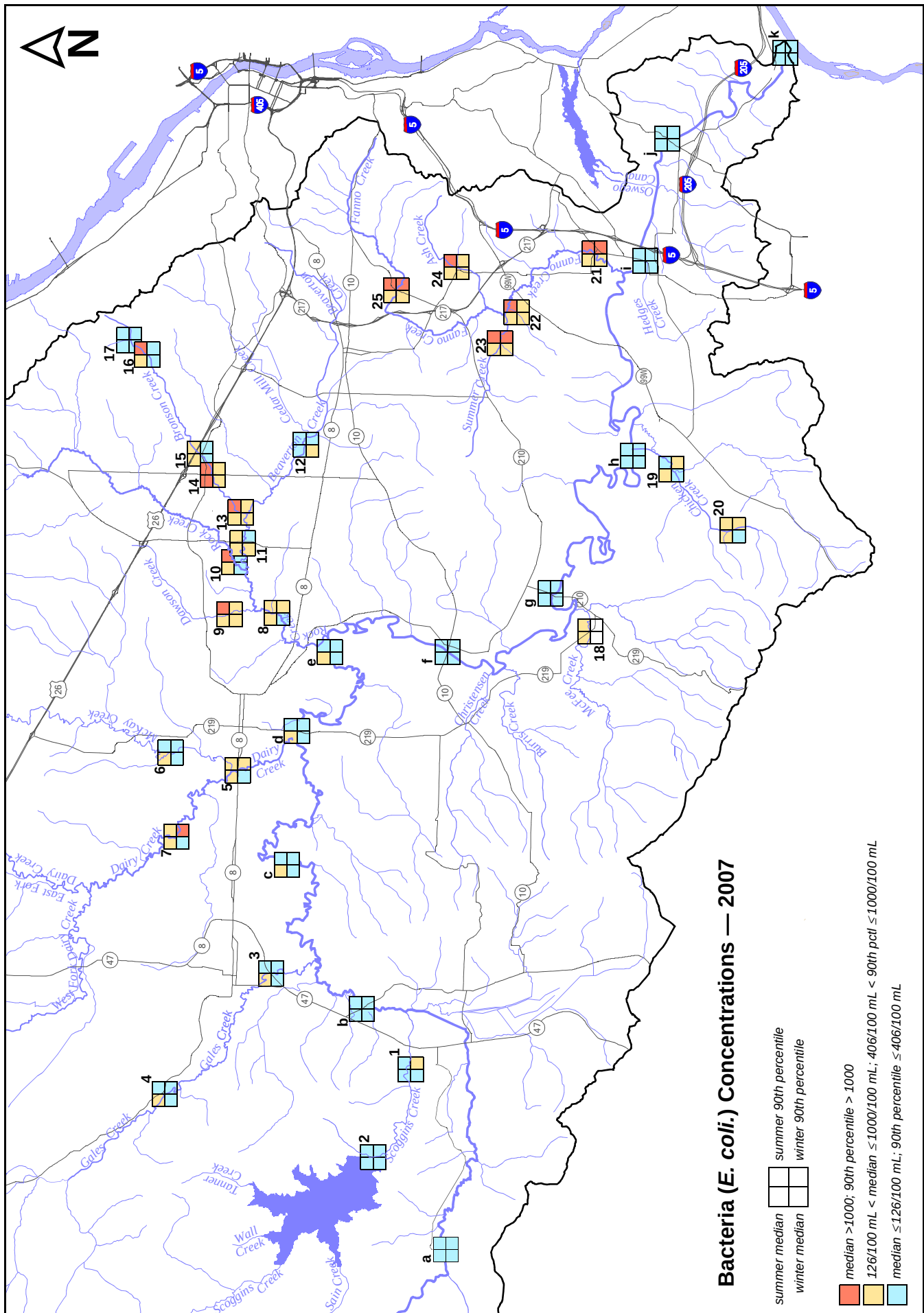
- median concentration of no more than 126 colony forming units/100 mL (#/100 mL)
- 90th percentile concentration of no more than 406/100 mL.

A map comparing the values to water quality goals is shown on the following page.

90TH PERCENTILES OF *E. COLI* CONCENTRATIONS FOR 2007

Map Code	Location Code	Location	River Mile	Winter (Nov-06 – Apr-07) (#/100 mL)*		Summer (May-07 – Oct-07) (#/100 mL)*	
				median	90th pctl	median	90th pctl
Tualatin River							
a	3701715	Cherry Grove	71.5	3	26	25	43
b	3701612	Springhill	61.2	29	142	98	181
c	3701528	Golf Course Road	52.8	31	401	135	254
d	3701450	Hwy 219	44.4	65	259	146	224
e	3701391	Rood Bridge Road	39.1	70	184	150	243
f	3701333	Farmington Road	33.3	64	148	90	216
g	3701271	Scholls	27.1	72	362	70	207
h	3701165	Elsner	16.5	40	154	38	64
i	3701087	Boones Ferry Road	8.7	50	310	42	188
j	3701054	Stafford Road	5.4	44	223	36	121
k	3701002	Weiss Bridge	0.2	49	171	30	67
Tributaries							
1	3805017	Scoggins @ Hwy 47		17	477	27	54
2	3805050	Scoggins below Hagg		1	5	1	2
3	3810015	Gales @ New Hwy 47		37	261	219	406
4	3810070	Gales @ Stringtown		16	128	144	282
5	3815021	Dairy @ Hwy 8		70	427	276	421
6	3816020	McKay at Hornecker		53	117	179	381
7	3815058	Dairy @ Susbauer		93	1192	236	445
8	3820022	Rock @ Brookwood		109	451	236	661
9	3850006	Dawson @ Brookwood		160	505	448	1626
10	3820047	Rock @ Quatama		75	365	249	2351
11	3821008	Beaverton @ Beaman		137	341	313	807
12	3821050	Beaverton @ 170th		153	287	102	381
13	3824001	Bronson @ 205th		212	730	489	1862
14	3824018	Bronson @ 185th		278	585	1175	2218
15	3824020	Bronson @ Bronson Park		90	339	212	476
16	3824072	Bronson @ Saltzman		84	299	159	1426
17	3859010	Bannister @ 124th		24	102	104	353
18	3811010	McFee @ Hwy 219		—	—	198	707
19	3835020	Chicken @ Scholls-Sherwood		70	679	173	334
20	3835060	Chicken @ Kruger		96	461	272	703
—	3838001	Nyberg @ Brown		204	485	579	972
21	3840012	Fanno @ Durham		179	1268	291	1120
22	3500035	unnamed trib to Fanno @ Walnut		179	411	687	2246
23	3844009	Summer Creek at 121st		980	1730	698	2248
24	3845014	Ash @ Hemlock		179	435	291	1059
25	3840095	Fanno near Allen		249	1050	663	2334

*The Colilert-18 (Most Probable Number) method was used for all analyses.

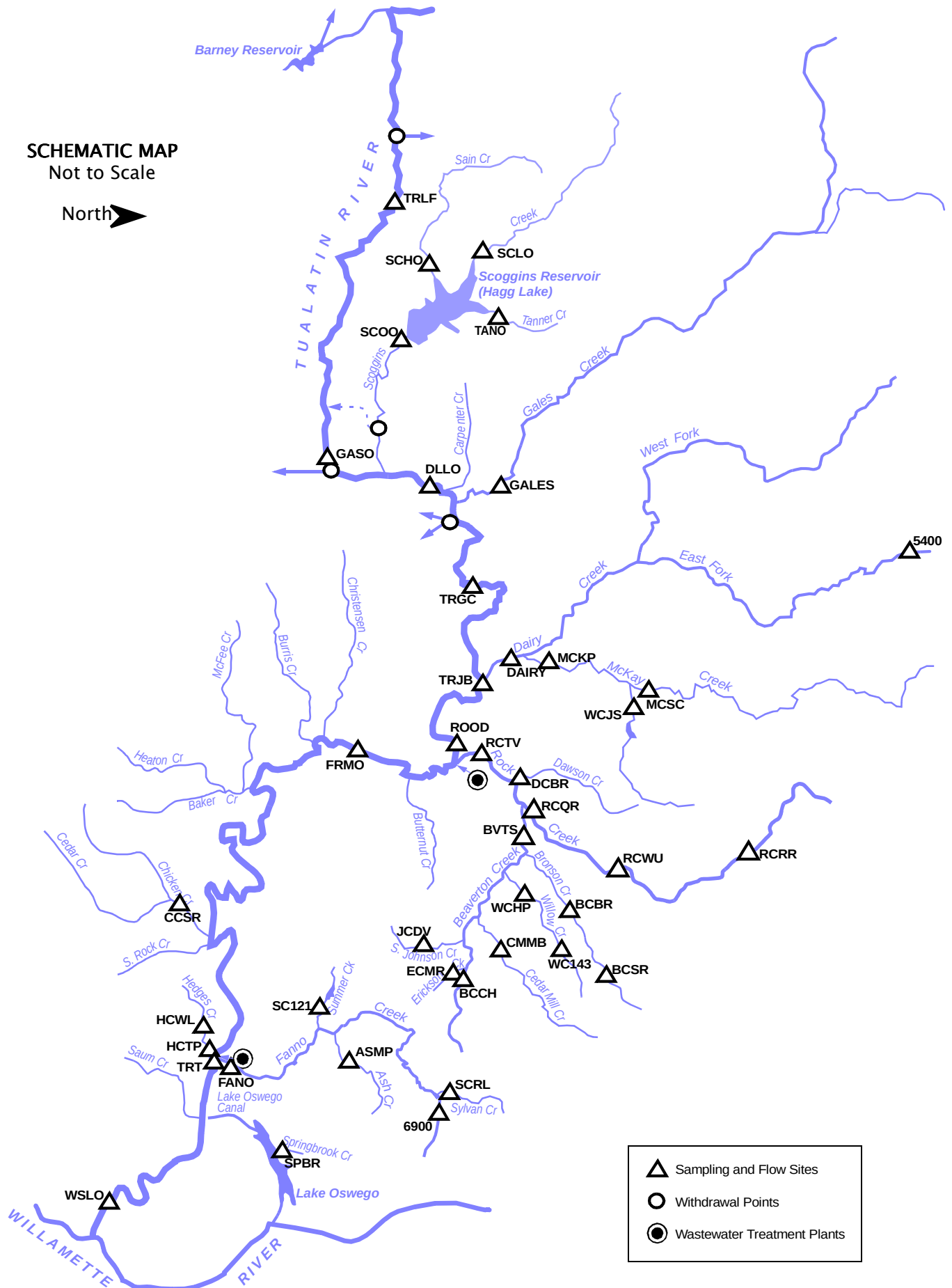


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Appendix A

Stream Gage Records

STREAM GAGE SITES — LOCATIONS



STREAM GAGE SITES — ALPHABETICAL LISTING BY SITE CODE

SITE CODE	SITE NAME	RIVER MILE	STATION ID	PAGE
5400	East Fork Dairy Creek near Meacham Corner, OR	12.4	14205400	A-13
6900	Fanno Creek at 56th Avenue	11.9	14206900	A-36
ASMP	Ash Creek at Metzger Park at Metzger, Oregon	1.25	14206933	A-38
BCBR	Bronson Creek at Bronson Road near Orenco, Oregon	2.1	14206423	A-30
BCCH	Beaverton Creek at Cedar Hills Blvd at Beaverton, Oregon	7.45	14206360	A-23
BCSR	Bronson Creek at Saltzman Road near Orenco, Oregon	5.1	14206419	A-29
BVTS	Beaverton Creek at NE Guston Court near Orenco, Oregon	1.2	14206435	A-31
CCSR	Chicken Creek at Scholls-Sherwood Road near Sherwood, Oregon	2.3	14206750	A-35
CMMB	Cedar Creek at Murray Blvd near Beaverton, Oregon	1.64	14206395	A-26
DAIRY	Dairy Creek at Hwy 8 near Hillsboro, Oregon	2.06	14206200	A-17
DCBR	Dawson Creek at Brookwood Road near Hillsboro, Oregon	0.7	14206443	A-32
DLLO	Tualatin River at Dilley, Oregon	58.8	14203500	A-10
ECMR	Erickson Creek at Menlo Drive at Beaverton, Oregon	0.76	14206365	A-24
FANO	Fanno Creek at Durham Road near Tigard, Oregon	1.2	14206950	A-40
FRMO	Tualatin River at Farmington, Oregon	33.3	14206500	A-34
GALES	Gales Creek at Old Hwy 47 near Forest Grove, Oregon	2.36	14204530	A-11
GASO	Tualatin River at Gaston, Oregon	62.3	14202510	A-5
HCTP	Hedges Creek at Tualatin Park at Tualatin, Oregon	0.3	14206958	A-42
HCWL	Hedges Creek Wetland near Tualatin	1.2	14206957	A-41
JCDV	Johnson Creek at Davis Road near Beaverton, Oregon	1.3	14206372	A-25
MCKP	McKay Creek at Padgett Road near Hillsboro, Oregon	1.31	14206190	A-16
MCSC	McKay Creek at Scotch Church Rd above Waible Ck near North Plains, Oregon	6.3	14206070	A-14
RCQR	Rock Creek at Quatama Road near Orenco, Oregon	4.9	14206347	A-22
RCRR	Rock Creek at NW Rock Creek Road near Bowers Junction, Oregon	15.8	14206305	A-20
RCTV	Rock Creek at Hwy 8 near Hillsboro, Oregon	1.2	14206450	A-33
RCWU	Rock Creek at West Union Road near Bethany, Oregon	9.0	14206338	A-21
ROOD	Tualatin River at Rood Bridge Road near Hillsboro, Oregon	38.4	14206295	A-19
SC121	Summer Creek at 121st Avenue near Tigard, Oregon	1.0	14206938	A-39
SCHO	Sain Creek above Henry Hagg Lake near Gaston, Oregon	1.6	14202920	A-7
SCLO	Scoggins Creek above Henry Hagg Lake near Gaston, Oregon	8.0	14202850	A-6
SCOO	Scoggins Creek below Henry Hagg Lake near Gaston, Oregon	4.80	14202980	A-9
SCRL	Sylvan Creek at Raleighwood Lane near West Slope, Oregon	1.0	14206905	A-37
SPBR	Springbrook Creek at Iron Mountain Rd near Lake Oswego, Oregon	0.18	14211116	A-45
TANO	Tanner Creek above Henry Hagg Lake near Gaston, Oregon	1.6	14202860	A-8
TRGC	Tualatin River at Golf Course Road near Cornelius, Oregon	51.5	14204800	A-12
TRJB	Tualatin River at Hwy 219 Bridge	44.4	14206241	A-18
TRLF	Tualatin River below Lee Falls near Cherry Grove, Oregon	70.7	14202450	A-4
TRT	Tualatin River at Tualatin, Oregon	8.9	14206956	A-43
WC143	Willow Creek at 143rd Avenue near Beaverton, Oregon	3.5	14206410	A-27
WCHP	Willow Creek at Heritage Parkway near Beaverton, Oregon	0.75	14206413	A-28
WCJS	Waible Creek at Jackson School Road near Hillsboro, Oregon	1.0	14206100	A-15
WSLO	Tualatin River at West Linn	1.75	14207500	A-44

TRLF – 14202450 – TUALATIN RIVER BELOW LEE FALLS NEAR CHERRY GROVE, OREGON [RM 70.7]

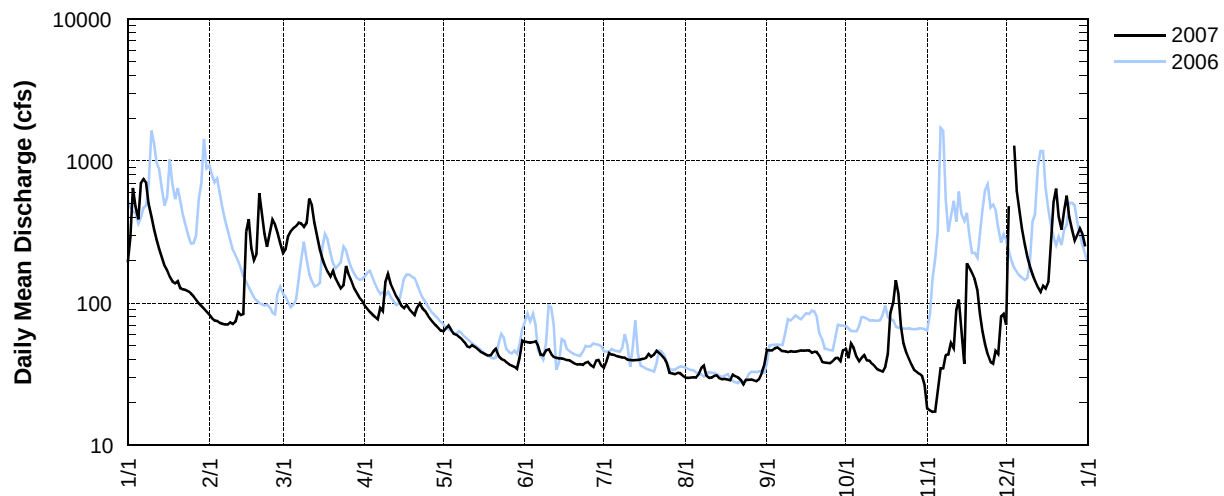
Latitude: 45 30 21 Longitude: 123 13 06

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	194	83	226	97	63	54	35	30	47	48	18	70
2	290	78	240	92	66	53	39	30	46	41	18	480
3	646	75	297	87	69	53	45	30	47	52	17	r
4	478	75	321	84	64	53	43	30	48	48	17	1285
5	388	73	339	80	61	54	43	30	49	42	23	618
6	701	71	349	77	60	50	42	32	47	39	35	449
7	747	71	367	93	58	44	42	35	46	41	35	336
8	705	71	363	88	56	43	41	36	46	43	43	260
9	499	73	346	141	53	47	41	31	45	40	43	212
10	406	71	369	160	50	48	40	30	46	39	52	182
11	331	75	546	135	49	44	40	30	46	37	48	160
12	279	87	488	123	51	42	40	31	46	36	89	143
13	240	83	367	112	49	41	40	31	46	34	106	129
14	208	84	291	105	47	41	40	30	46	34	64	120
15	183	318	239	95	46	41	40	29	46	33	37	133
16	169	388	206	92	45	40	41	29	47	36	190	127
17	153	244	183	97	44	40	41	29	47	44	176	142
18	142	201	166	91	43	40	44	29	45	85	163	289
19	138	222	154	87	43	38	42	31	46	101	148	514
20	143	594	170	83	46	37	43	31	45	145	123	641
21	128	427	149	93	48	37	46	30	43	117	84	406
22	125	308	137	100	42	37	45	29	38	69	63	330
23	124	249	127	92	41	37	43	27	38	52	51	448
24	121	312	134	88	40	38	41	29	38	45	44	570
25	117	385	183	82	38	39	37	29	38	40	39	404
26	112	357	159	78	37	37	32	29	39	37	38	326
27	106	311	144	74	36	36	32	29	41	34	46	276
28	100	265	127	71	36	39	32	28	41	33	44	303
29	96	—	118	67	34	40	32	29	39	32	81	337
30	92	—	110	64	41	37	32	32	47	31	84	306
31	88	—	105	—	55	—	31	37	—	27	—	250
TOTAL	8249	5651	7520	2828	1511	1280	1225	942	1329	1535	2019	12727
MEAN	272	202	247	94	49	43	40	30	44	50	67	416
MAX	747	594	546	160	69	54	46	36	49	145	190	2481
MIN	92	71	110	64	34	36	32	27	38	31	17	70
AC-FT	16369	11213	14922	5612	2998	2540	2431	1869	2637	3046	4006	25255

r=rating curve exceeded

TRLF — 14202450 — Tualatin River below Lee Falls near Cherry Grove, Oregon [RM 70.7]



GASO – 14202510 – TUALATIN RIVER AT GASTON, OREGON [RM 62.3]

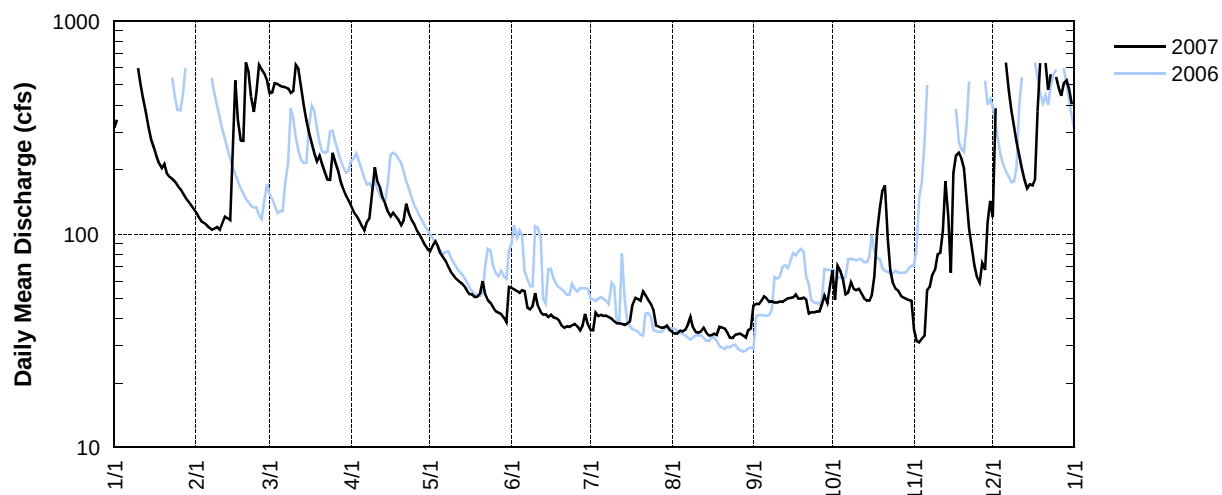
Latitude: 45 26 21 Longitude: 123 07 85

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN*	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	315	127	457	135	83	56	35	35	46	68	36	120
2	e343	120	460	127	89	55	35	34	47	49	32	e389
3	r	115	508	122	93	54	43	34	47	71	31	r
4	r	113	505	116	87	53	41	35	49	67	32	r
5	549	110	497	109	81	55	42	35	51	61	33	r
6	r	107	490	104	78	54	41	36	50	52	55	e636
7	r	105	488	114	74	45	41	38	48	53	57	473
8	r	106	482	119	70	44	41	41	48	59	64	382
9	r	108	458	160	66	46	40	36	48	55	69	320
10	e600	105	469	206	64	53	39	35	48	55	80	272
11	502	113	e619	176	62	46	38	34	48	55	82	232
12	430	121	594	165	60	43	38	35	48	53	103	202
13	369	119	481	148	59	42	38	36	49	50	177	180
14	316	116	401	138	57	42	38	35	50	49	121	164
15	277	e261	342	127	55	41	38	34	50	49	66	171
16	256	e524	300	121	52	42	39	34	50	52	194	169
17	231	343	265	126	52	41	47	34	52	63	233	181
18	214	274	239	121	51	40	50	34	50	104	240	375
19	204	273	220	116	51	39	50	37	50	132	226	e632
20	213	e636	234	110	53	37	48	37	50	160	203	r
21	193	e579	213	116	60	36	54	36	49	169	143	e634
22	185	442	195	139	52	37	51	34	42	95	106	475
23	181	374	180	124	49	37	49	33	43	68	85	e563
24	176	e464	179	116	48	37	47	32	43	59	71	r
25	169	e619	240	111	45	38	44	34	43	55	62	545
26	163	e591	218	104	44	37	37	34	43	54	59	485
27	155	e563	199	99	43	35	37	34	47	51	73	445
28	148	524	177	94	42	37	36	33	51	50	68	509
29	143	—	163	89	41	42	36	33	47	50	114	524
30	138	—	152	85	39	37	37	36	56	49	143	475
31	132	—	143	—	56	—	36	36	—	49	—	406
TOTAL	10602	8052	10568	3737	1856	1301	1286	1084	1443	2106	3058	11623
MEAN	361	288	348	125	60	43	42	35	48	69	102	415
MAX	898	636	619	206	93	56	54	41	56	169	240	846
MIN	138	105	152	85	39	35	35	32	42	49	31	120
AC-FT	21038	15978	20970	7415	3683	2582	2552	2151	2863	4179	6068	23064

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

GASO — 14202510 — Tualatin River at Gaston, Oregon [RM 62.3]



SCLO – 14202850 – SCOGGINS CREEK ABOVE HENRY HAGG LAKE NEAR GASTON, OREGON [RM 8.0]

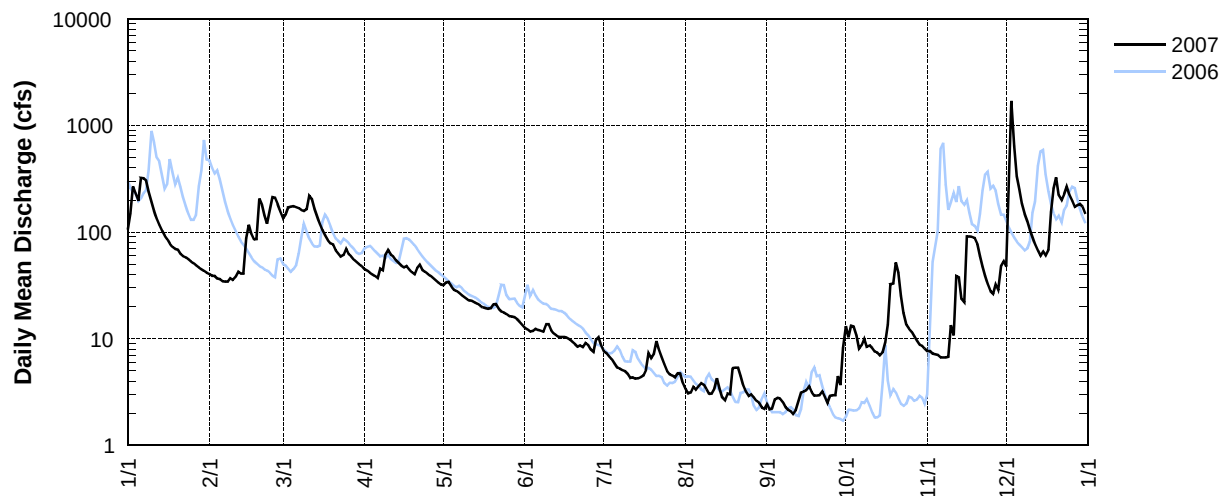
Latitude: 45 30 06 Longitude: 123 15 06

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	106	40	135	45	32	13	7.6	3.4	2.4	13	7.7	48
2	149	39	146	43	33	12	7.3	3.1	2.2	10	7.7	226
3	268	39	170	42	34	12	6.9	3.1	2.2	13	7.2	e1700
4	231	37	173	40	31	12	6.4	3.6	2.7	13	7.2	640
5	197	36	175	39	29	12	5.9	3.3	2.8	11	7.1	332
6	321	35	171	37	28	12	5.4	3.6	2.7	8.1	6.7	252
7	320	34	168	46	27	12	5.3	3.8	2.6	8.8	6.7	185
8	305	34	161	44	26	12	5.1	3.7	2.3	10	6.7	147
9	239	37	158	62	24	14	5	3.4	2.2	8.4	6.8	126
10	193	36	164	68	24	14	4.7	3	2.1	8.7	13	105
11	158	38	219	61	23	12	4.3	3	2	8.2	11	90
12	134	42	205	59	23	11	4.4	3.4	2.1	7.6	39	77
13	117	41	167	54	22	11	4.2	4.2	2.6	7.5	38	67
14	103	41	139	52	21	10	4.2	3.4	3.1	7	24	60
15	93	88	119	48	20	10	4.4	2.8	3.2	7.5	22	66
16	86	117	104	47	20	10	4.5	2.7	3.3	9.2	91	60
17	78	96	93	48	19	10	5.1	3.1	3.6	14	91	69
18	73	85	85	45	19	9.9	7.3	3	3.1	32	90	155
19	69	86	78	42	19	9.4	6.6	5.3	2.9	33	88	256
20	69	206	77	40	21	8.9	7.2	5.4	2.9	52	77	325
21	63	181	68	46	21	8.4	9.5	5.3	2.9	42	60	221
22	60	143	63	49	19	8.7	7.8	4.4	3.2	25	47	200
23	58	120	59	44	18	8.4	6.8	3.7	2.8	17	39	227
24	56	162	61	42	18	9.1	5.8	3.2	2.5	13	33	267
25	53	212	70	40	17	8.7	5	2.9	2.9	12	28	224
26	51	210	62	39	16	7.9	4.6	3	2.9	12	26	197
27	49	184	59	37	16	7.5	4.5	2.8	2.9	11	32	173
28	46	157	55	36	16	9.7	4.3	2.6	4.5	9.5	29	178
29	45	—	52	34	15	10	4.8	2.5	3.7	8.8	48	183
30	43	—	50	32	14	8.7	4.7	2.3	8.2	8.6	53	174
31	41	—	48	—	13	—	3.9	2.2	—	8.1	—	148
TOTAL	3874	2576	3554	1361	678	314	174	105	90	449	1043	7178
MEAN	128	92	117	45	22	10	5.7	3.4	3	15	35	234
MAX	321	212	219	68	34	14	9.5	5.4	8.2	52	91	1700
MIN	43	34	50	32	14	7.5	4.2	2.3	2	7	6.7	48
AC-FT	7687	5112	7052	2701	1345	623	345	208	179	891	2070	14244

e=estimated value

SCLO — 14202850 — Scoggins Creek above Henry Hagg Lake near Gaston, Oregon [RM 8.0]



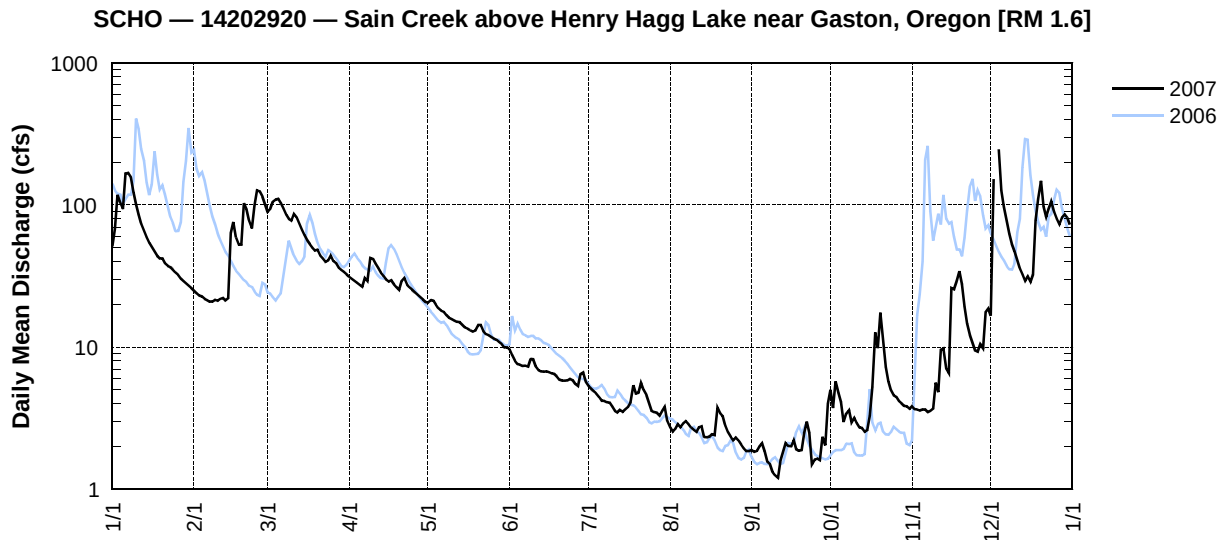
SCHO – 14202920 – SAIN CREEK ABOVE HENRY HAGG LAKE NEAR GASTON, OREGON [RM 1.6]

Latitude: 45 28 50 Longitude: 123 14 40

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	51	25	90	31	21	9.7	5.3	2.7	1.9	5.0	3.8	17
2	68	24	94	30	21	8.8	5.1	2.5	1.8	3.7	3.7	152
3	118	23	105	29	21	8	4.9	2.7	1.9	5.8	3.6	r
4	103	23	109	28	20	7.6	4.7	2.9	2.0	4.8	3.6	246
5	94	22	110	27	19	7.5	4.5	2.7	2.1	4.1	3.6	127
6	166	21	103	27	18	7.4	4.2	2.9	1.9	3.0	3.6	97
7	168	21	95	31	18	7.4	4.2	3	1.6	3.4	3.5	77
8	156	21	85	29	17	7.3	4.1	2.9	e1.5	3.6	3.6	63
9	123	21	80	42	16	8.3	4.1	2.7	e1.3	3.0	3.7	53
10	101	21	78	42	16	8.2	3.8	2.6	e1.3	3.2	5.6	47
11	85	22	87	39	15	7.3	3.6	2.5	e1.2	2.9	4.8	41
12	73	22	82	36	15	6.9	3.5	2.7	1.6	2.7	9.6	36
13	66	21	74	34	15	6.8	3.6	2.8	1.8	2.7	9.8	32
14	59	22	67	32	14	6.7	3.5	e2.3	2.1	2.6	7.0	29
15	54	63	61	30	14	6.8	3.7	2.3	2	2.6	6.5	31
16	51	76	57	29	13	6.7	3.8	2.4	2	3.3	26	29
17	47	59	53	30	13	6.5	4.1	2.4	2.2	5.3	26	32
18	44	52	50	28	13	6.5	5.4	2.4	1.9	13	29	78
19	42	52	48	26	13	6.2	4.7	3.8	1.9	9.9	34	110
20	42	103	48	25	14	5.9	4.8	3.5	e1.9	18	28	148
21	39	93	44	29	14	5.8	5.6	3.3	e2.5	12	19	98
22	37	77	42	31	13	5.8	5	2.8	e3.0	7.3	15	82
23	36	68	40	28	12	5.8	4.6	2.5	e2.5	5.8	12	94
24	35	99	41	26	12	6	4.1	2.3	e1.5	5.0	11	106
25	33	127	44	25	12	5.9	3.6	2.2	1.6	4.6	9.5	89
26	32	125	40	24	11	5.5	3.5	2.3	1.7	4.5	9.3	80
27	30	114	39	23	11	5.3	3.5	2.2	1.6	4.2	10	73
28	29	101	36	23	11	6.5	3.3	2.1	2.3	4.0	9.8	82
29	28	—	35	22	10	6.6	3.6	1.9	2.0	3.8	18	86
30	27	—	34	21	9.9	5.7	3.8	1.9	4.0	3.8	19	81
31	26	—	32	—	10	—	3	1.9	—	3.7	—	73
TOTAL	2063	1518	2003	877	452	205	129	80	59	161	352	2389
MEAN	68	54	66	29	15	6.8	4.2	2.6	2	5.3	12	80
MAX	168	127	110	42	21	9.7	5.6	3.8	4	18	34	246
MIN	27	21	34	21	9.9	5.3	3.3	1.9	1.2	2.6	3.5	17
AC-FT	4094	3012	3975	1740	897	407	256	159	117	319	698	4741

e=estimated value; r=rating curve exceeded



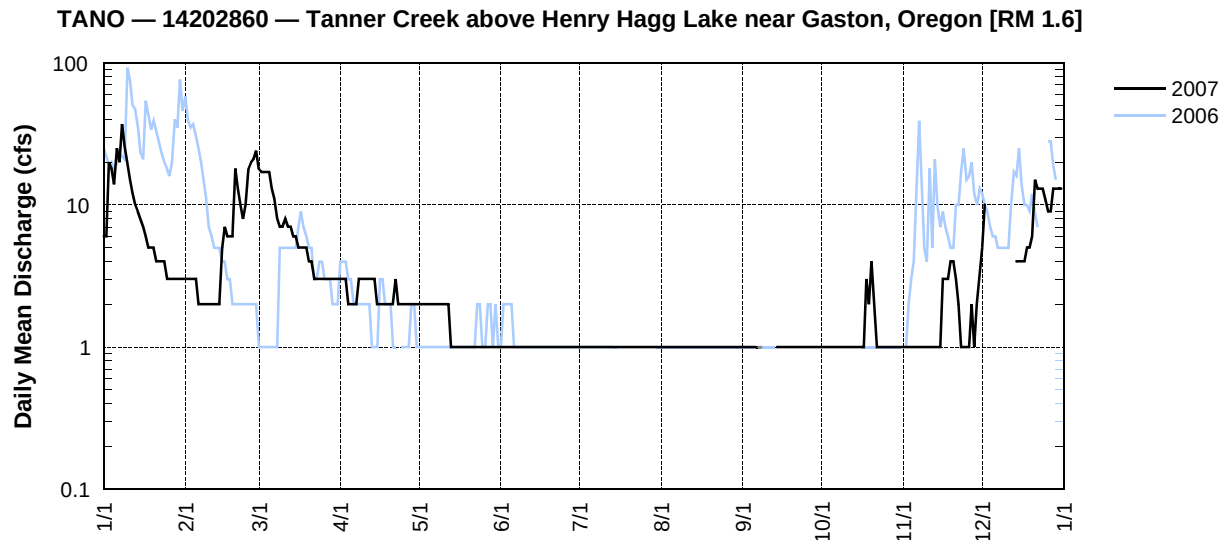
TANO – 14202860 – TANNER CREEK ABOVE HENRY HAGG LAKE NEAR GASTON, OREGON [RM 1.6]

Latitude: 45 30 21 Longitude: 123 13 10

Source Agency: Tualatin Valley Irrigation District

Day	2007 Daily Mean Discharge in Cubic Feet per Second ^a											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	6	3	18	3	2	1	1	1	1	1	1	5
2	6	3	17	3	2	1	1	1	1	1	1	10
3	20	3	17	3	2	1	1	1	1	1	1	
4	18	3	17	2	2	1	1	1	1	1	1	
5	14	3	17	2	2	1	1	1	1	1	1	
6	25	2	13	2	2	1	1	1	1	1	1	
7	20	2	11	2	2	1	1	1	1	1	1	
8	37	2	8	3	2	1	1	1	1	1	1	
9	26	2	7	3	2	1	1	1	0	1	1	
10	20	2	7	3	2	1	1	1	0	1	1	
11	15	2	8	3	2	1	1	1	0	1	1	
12	12	2	7	3	2	1	1	1	0	1	1	
13	10	2	7	3	1	1	1	1	0	1	1	
14	9	2	6	3	1	1	1	1	1	1	1	4
15	8	5	6	2	1	1	1	1	1	1	1	4
16	7	7	5	2	1	1	1	1	1	1	3	4
17	6	6	5	2	1	1	1	1	1	1	3	4
18	5	6	5	2	1	1	1	1	1	3	3	5
19	5	6	5	2	1	1	1	1	1	2	4	5
20	5	18	4	2	1	1	1	1	1	4	4	6
21	4	13	4	2	1	1	1	1	1	2	3	15
22	4	10	3	3	1	1	1	1	1	1	2	13
23	4	8	3	2	1	1	1	1	1	1	1	13
24	4	10	3	2	1	1	1	1	1	1	1	13
25	3	18	3	2	1	1	1	1	1	1	1	11
26	3	20	3	2	1	1	1	1	1	1	1	9
27	3	21	3	2	1	1	1	1	1	1	2	9
28	3	24	3	2	1	1	1	1	1	1	1	13
29	3	—	3	2	1	1	1	1	1	1	2	13
30	3	—	3	2	1	1	1	1	1	1	3	13
31	3	—	3	—	1	—	1	1	—	1	—	13
TOTAL	311	205	224	71	43	30	31	31	25	38	49	
AC-FT	617	407	444	141	85	60	61	61	50	75	97	

*Incomplete record; ^aValues are read from a staff plate. Some values are from daily readings at about 0800; others are based on averages over several days.

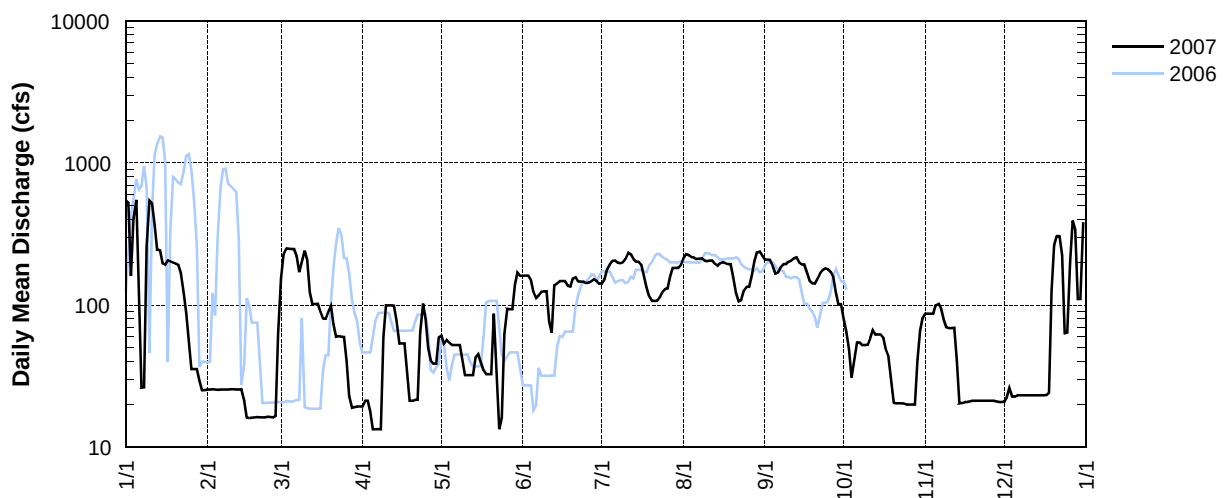


SCOO – 14202980 – SCOGGINS CREEK BELOW HENRY HAGG LAKE NEAR GASTON, OREGON [RM 4.8]

Latitude: 45 28 10 Longitude: 123 11 56

Source Agency: Bureau of Reclamation

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	544	25	154	19	61	161	142	213	209	79	87	21
2	523	26	230	21	54	161	152	229	209	64	87	23
3	160	26	251	21	57	161	179	224	208	49	87	26
4	407	25	249	18	54	150	193	218	187	31	87	23
5	549	25	248	13	52	123	205	217	167	42	100	23
6	93	25	248	13	52	112	205	211	169	55	102	23
7	26	25	221	13	52	117	198	212	185	55	94	23
8	26	26	171	13	52	124	198	213	195	52	79	23
9	259	26	200	60	41	125	200	206	194	52	70	23
10	545	26	242	99	32	125	212	204	202	53	69	23
11	521	26	208	99	32	77	234	206	205	58	69	23
12	370	26	123	99	32	64	228	206	213	66	69	23
13	245	26	102	99	32	138	211	195	217	62	41	23
14	242	26	101	78	43	142	202	189	199	62	20	23
15	198	21	102	54	45	147	202	197	193	62	21	23
16	193	16	90	54	40	147	192	202	193	59	21	23
17	207	16	80	54	35	147	160	197	169	49	21	23
18	203	16	80	34	33	136	134	194	149	44	21	24
19	200	16	91	21	33	135	116	195	142	30	21	126
20	196	16	99	21	33	154	107	158	142	20	21	264
21	193	16	73	22	87	157	107	121	153	20	21	306
22	168	16	60	22	34	147	107	107	168	20	21	305
23	122	16	60	64	13	146	114	109	177	20	21	226
24	88	16	60	103	16	146	123	127	181	20	21	64
25	54	16	60	79	63	143	129	135	178	20	21	64
26	35	16	41	50	94	144	131	135	171	20	21	201
27	35	17	23	41	94	147	159	160	157	20	21	393
28	35	63	19	39	94	153	183	202	122	20	21	341
29	29	—	19	39	140	148	182	234	101	41	21	110
30	25	—	19	59	169	142	182	238	102	66	21	110
31	25	—	19	—	161	—	192	223	—	81	—	382
TOTAL	6,520	637	3,743	1,424	1,830	4,120	5,279	5,876	5,258	1,394	1,399	3,309
MEAN	210	23	121	47	59	137	170	190	175	45	47	107
MAX	549	63	251	103	169	161	234	238	217	81	102	393
MIN	25	16	19	13	13	64	107	107	101	20	20	21
AC-FT	12,932	1,263	7,425	2,824	3,629	8,172	10,471	11,655	10,429	2,766	2,774	6,563

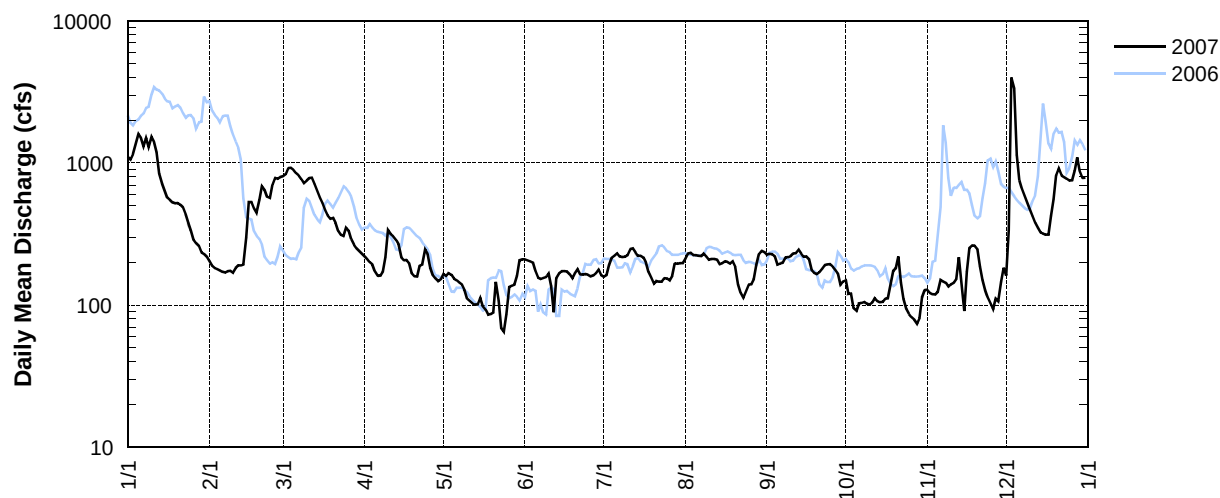
SCOO — 14202980 — Scoggins Creek below Henry Hagg Lake near Gaston, Oregon [RM 4.8]

STATION NUMBER: 14203500 TUALATIN RIVER NEAR DILLEY, OREG.

LATITUDE: 452830 LONGITUDE: 1230723 DRAINAGE AREA: 125.00 DATUM: 147.57

Discharge, Cubic Feet per Second, Calendar Year January to December 2007 Daily Mean Values

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	1100	204	806	222	166	210	159	212	227	150	128	161
2	1060	189	831	211	161	207	163	231	229	120	122	336
3	1150	182	921	200	168	204	192	233	228	121	119	3980
4	1340	180	926	193	164	199	215	225	219	95	118	3350
5	1590	176	890	173	154	174	222	225	193	91	124	1140
6	1490	172	847	160	150	157	232	222	197	103	151	755
7	1300	170	817	161	145	153	220	221	198	104	147	655
8	1500	173	769	173	140	155	218	230	217	105	143	586
9	1290	174	722	217	128	158	219	220	218	102	135	527
10	1520	169	751	336	111	167	225	209	221	101	140	474
11	1400	183	783	314	107	136	248	212	231	104	144	422
12	1190	190	786	303	103	89	250	211	231	112	153	381
13	840	190	711	288	101	156	236	209	245	107	218	349
14	715	194	633	268	101	168	222	194	230	105	140	324
15	639	299	570	216	113	173	223	197	219	105	91	319
16	571	530	521	207	99	174	216	203	220	111	172	313
17	551	532	470	208	93	172	200	202	210	112	253	313
18	529	479	430	198	86	165	170	196	177	137	263	425
19	520	445	404	168	87	155	157	203	169	174	262	557
20	523	546	412	160	89	168	141	186	165	181	247	823
21	510	689	379	159	146	179	147	140	171	219	188	918
22	488	651	332	189	108	165	146	122	180	144	150	818
23	435	579	313	193	69	164	146	113	192	110	128	796
24	379	569	306	246	65	165	155	124	193	94	113	774
25	335	707	351	228	86	164	154	139	194	87	103	751
26	289	785	335	183	134	160	149	140	186	82	94	755
27	273	773	291	163	137	162	161	152	177	79	111	884
28	261	794	265	155	139	168	196	192	167	74	106	1100
29	235	—	250	147	160	178	195	228	140	81	146	869
30	230	—	241	152	206	163	197	242	147	114	183	784
31	220	—	231	—	210	—	197	236	—	128	—	788
TOTAL	24473	10924	17294	6191	3926	5008	5971	6069	5991	3552	4592	25427
MEAN	789	390	558	206	127	167	193	196	200	115	153	820
MAX	1590	794	926	336	210	210	250	242	245	219	263	3,980
MIN	220	169	231	147	65	89	141	113	140	74	91	161
AC-FT	48540	21670	34300	12280	7790	9930	11840	12040	11880	7050	9110	50430

[†] Provisional data—subject to revision**DLLO — 14203500 — Tualatin River near Dilley, Oregon [RM 58.8]**

GALES – 14204530 – GALES CREEK AT OLD HWY 47 NEAR FOREST GROVE, OREGON [RM 2.36]

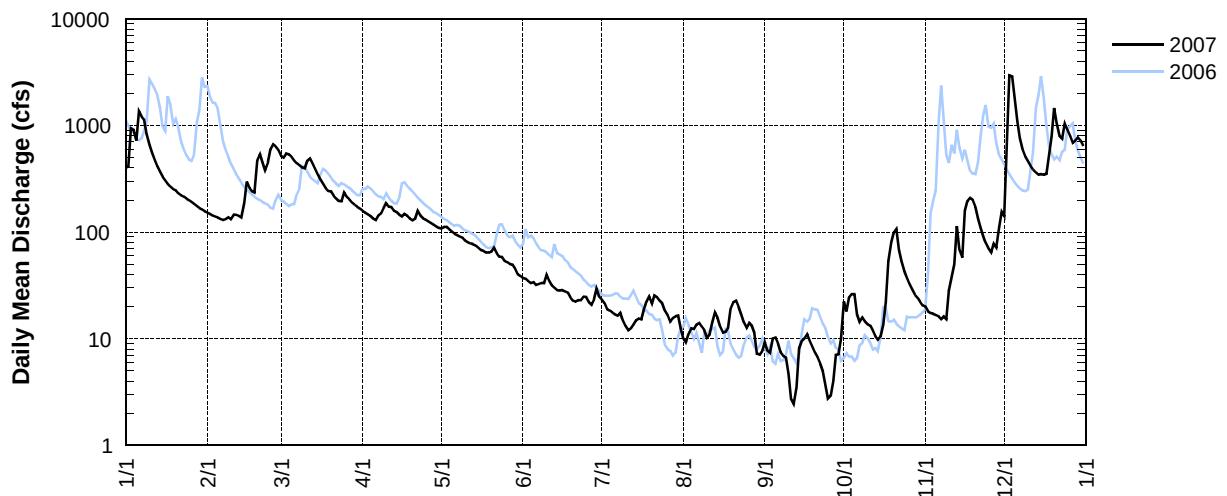
Latitude: 45 30 39 Longitude: 123 06 56

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	e398	152	517	159	108	37	23	10	9.2	22	20	140
2	e414	148	499	152	112	36	22	9.2	7.7	18	18	624
3	946	143	544	147	112	35	19	11	7.3	25	17	e2940
4	913	140	536	142	106	33	18	13	10	26	17	2882
5	723	137	507	135	101	34	18	12	10	26	17	1719
6	1351	133	470	130	97	32	17	14	9	17	16	1104
7	1212	130	443	143	94	33	16	14	7.5	14	15	758
8	1137	133	423	149	91	33	18	13	6.9	16	16	588
9	827	137	403	168	89	33	15	12	6.7	14	15	508
10	660	132	396	188	84	40	13	10	4.7	14	28	459
11	556	145	467	173	81	35	12	11	2.7	13	39	419
12	475	145	491	171	79	31	13	14	2.4	12	50	387
13	414	142	440	159	77	30	14	17	3.5	11	114	361
14	367	137	388	154	75	28	15	16	8.1	9.8	68	344
15	330	186	344	145	71	28	16	13	9.5	11	58	348
16	307	297	311	140	68	29	15	11	10	14	159	345
17	284	261	283	148	66	28	19	12	11	22	195	352
18	266	242	260	143	64	27	22	13	9.6	54	210	521
19	252	235	242	135	64	24	25	19	8.4	80	201	783
20	247	475	241	129	66	23	21	22	7.5	100	171	1456
21	231	540	220	134	71	22	25	23	6.7	107	135	1054
22	222	451	207	158	63	23	25	20	5.9	69	110	795
23	215	383	195	143	59	23	23	17	5	53	92	749
24	207	450	194	135	58	25	22	14	3.7	43	79	1043
25	199	597	234	131	54	25	18	13	2.8	37	70	914
26	192	662	213	126	52	22	17	14	2.9	32	64	794
27	183	635	204	122	50	21	14	13	4	29	77	686
28	175	596	189	118	49	23	16	11	7.1	26	71	722
29	168	—	180	113	46	29	16	7.2	7.1	24	110	774
30	163	—	173	109	40	25	17	7.1	10	22	155	726
31	157	—	167	—	39	—	13	7.7	—	21	—	643
TOTAL	14191	7964	10381	4299	2286	867	557	413	207	982	2407	25938
MEAN	468	284	340	143	75	29	18	14	6.9	32	80	843
MAX	1351	662	544	188	112	40	25	23	11	107	210	2940
MIN	163	130	173	109	40	21	12	7.1	2.4	9.8	15	140
AC-FT	28160	15803	20599	8531	4536	1720	1105	820	411	1949	4776	51470

e=estimated value

GALES — 14204530 — Gales Creek at Old Hwy 47 near Forest Grove, Oregon [RM 2.36]



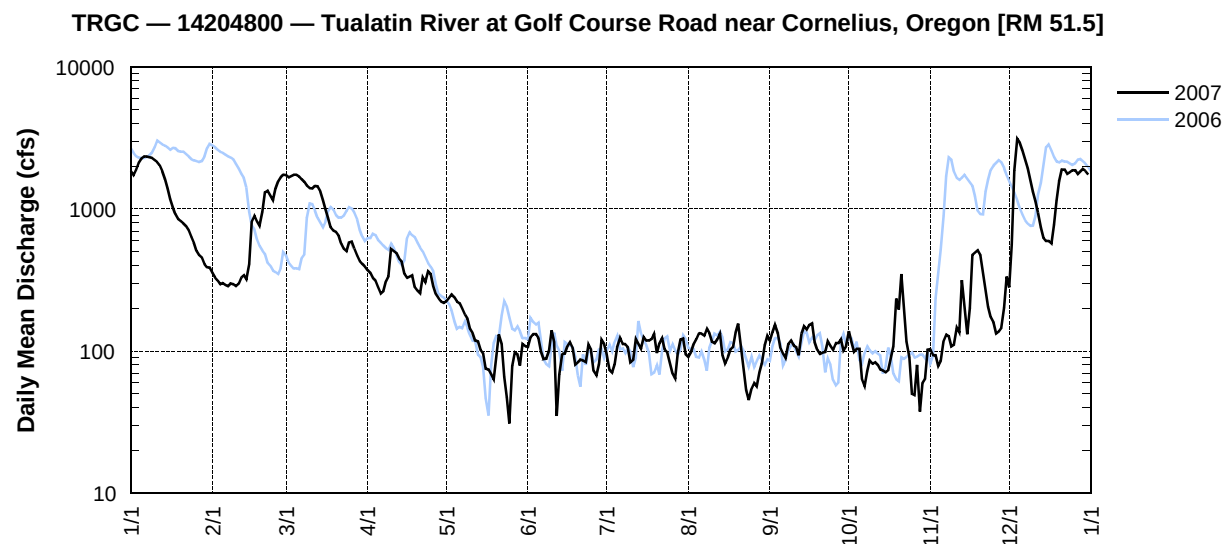
TRGC – 14204800 – TUALATIN RIVER AT GOLF COURSE ROAD NEAR CORNELIUS, OREGON [RM 51.5]

Latitude: 45 30 08 Longitude: 123 03 22

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1840	355	1727	374	224	107	96	91	118	138	103	281
2	1725	330	1674	356	236	125	74	98	136	116	94	562
3	1888	315	1696	328	250	132	71	113	153	99	94	e1870
4	2112	296	1741	314	239	132	81	122	134	104	79	e3110
5	e2260	302	1741	284	223	123	107	134	105	104	86	e2920
6	e2330	293	1692	254	218	99	124	133	96	63	119	2591
7	e2340	287	1623	264	200	88	112	129	89	57	131	2273
8	e2310	298	1549	309	181	89	112	144	113	72	128	1925
9	2291	296	1465	337	169	101	107	134	119	86	108	1600
10	2207	287	1399	522	143	140	84	117	110	82	111	1322
11	2143	299	1392	505	134	116	87	114	107	83	146	1129
12	2029	330	1451	488	119	35	121	122	94	80	135	940
13	1845	341	1441	449	117	69	112	134	133	74	316	738
14	1616	319	1330	429	102	96	104	94	150	73	205	627
15	1391	409	1161	348	97	96	126	82	142	71	132	595
16	1172	819	998	327	75	108	119	91	153	74	201	594
17	1030	897	868	335	74	116	119	103	157	89	475	571
18	919	816	746	342	68	105	122	107	116	108	493	775
19	848	760	705	284	63	80	133	135	102	234	511	1153
20	822	951	691	266	92	83	97	156	96	196	471	1571
21	793	1311	654	256	131	87	114	109	98	349	363	1886
22	760	1335	570	330	112	86	124	75	99	214	273	1886
23	705	1246	526	305	66	84	103	53	117	117	205	1773
24	637	1154	505	364	47	111	98	45	109	91	173	1809
25	577	1388	583	348	31	102	81	55	102	50	159	e1870
26	507	1556	592	287	79	72	69	60	114	49	133	e1870
27	473	1674	527	252	98	67	64	57	114	80	137	1756
28	455	1743	470	236	95	81	96	70	121	38	145	1828
29	410	—	432	223	79	120	121	82	101	e60	202	1908
30	388	—	412	219	112	112	123	110	108	e64	335	1852
31	386	—	396	—	108	—	95	128	—	102	—	1753
TOTAL	41209	20407	32757	9935	3982	2962	3196	3197	3506	3217	6263	47338
MEAN	1361	729	1079	331	129	99	103	102	117	104	209	1520
MAX	2340	1743	1741	522	250	140	133	156	157	349	511	3110
MIN	388	287	412	219	31	35	64	45	89	38	79	281
AC-FT	81772	40494	65001	19714	7902	5878	6342	6344	6957	6384	12428	93934

e=estimated value

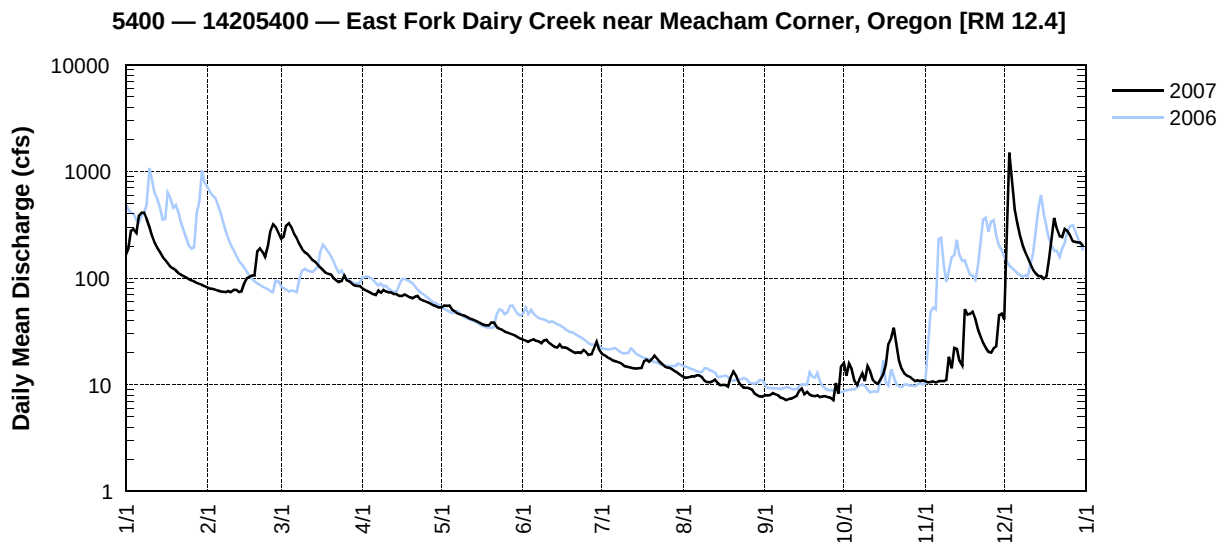


STATION NUMBER: 14205400 EAST FORK DAIRY CREEK NEAR MEACHAM CORNER, OR

LATITUDE: 454051 LONGITUDE: 1230412 DRAINAGE AREA: 32.92 DATUM: 290

Discharge, Cubic Feet per Second, Calendar Year January to December 2007 Daily Mean Values

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	166	82	234	80	53	27	20	12	8.0	16	11	41
2	190	80	243	77	55	26	19	12	7.9	12	11	286
3	278	79	310	75	55	25	18	12	8.0	16	11	1500
4	287	78	326	73	55	26	18	12	8.3	14	11	778
5	264	76	296	71	51	27	17	12	8.1	11	11	438
6	384	75	258	70	49	26	17	12	8.0	10	11	326
7	410	74	235	77	47	25	16	12	7.5	11	11	253
8	410	74	208	73	46	24	16	12	7.4	13	11	202
9	358	76	188	77	45	26	15	11	7.2	11	11	174
10	299	74	175	75	44	26	15	11	7.3	15	18	153
11	248	77	169	73	43	25	15	10	7.4	13	14	135
12	214	77	158	73	41	24	14	11	7.6	11	22	119
13	191	74	148	71	41	23	14	11	7.9	10	22	110
14	173	75	142	71	40	22	14	10	8.8	10	17	104
15	158	90	133	68	39	24	14	9.9	9.2	11	15	104
16	148	100	126	68	38	22	14	10	8.1	13	51	99
17	138	103	119	70	36	22	17	10	8.6	15	45	103
18	128	106	113	68	36	22	17	9.6	8.1	24	46	151
19	123	105	109	66	36	21	16	12	7.9	28	48	233
20	118	179	108	65	38	20	17	13	7.8	34	41	368
21	111	190	99	67	38	20	19	12	8.0	24	33	293
22	108	176	95	68	35	20	18	11	7.7	17	28	246
23	104	157	92	63	33	20	16	9.9	7.8	14	25	241
24	101	199	94	62	33	21	16	9.3	7.8	13	22	287
25	98	280	106	60	32	20	15	9.3	7.7	12	20	276
26	95	321	95	59	31	19	14	9.3	7.5	12	20	248
27	93	301	93	58	30	19	14	9.0	7.1	11	22	222
28	90	268	88	56	30	22	14	8.3	10	11	23	218
29	88	—	86	54	29	25	13	8.0	8.3	11	45	216
30	87	—	84	53	28	21	13	7.8	15	11	46	215
31	84	—	84	—	27	—	12	7.7	—	11	—	199
TOTAL	5744	3646	4814	2041	1234	690	487	326.1	246.0	445	722	8338
MEAN	185	130	155	68.0	39.8	23.0	15.7	10.5	8.20	14.4	24.1	269
MAX	410	321	326	80	55	27	20	13	15	34	51	1500
MIN	84	74	84	53	27	19	12	7.7	7.1	10	11	41
AC-FT	11390	7230	9550	4050	2450	1370	966	647	488	883	1430	16540

[†] Provisional data—subject to revision

MCSC – 14206070 – MCKAY CREEK AT SCOTCH CHURCH RD ABOVE WAIBLE CREEK NEAR NORTH PLAINS, OREGON [RM 6.3]

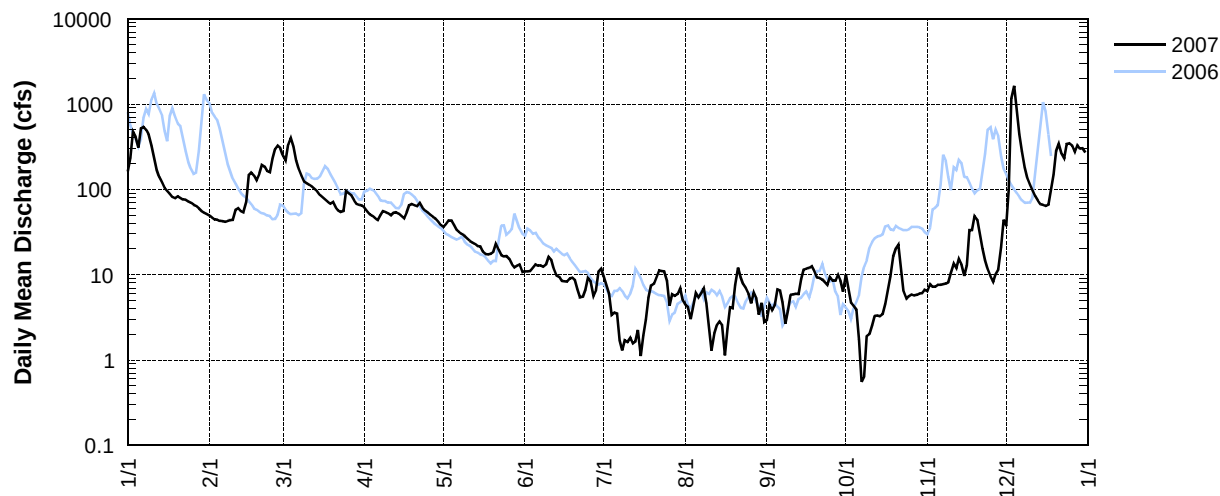
Latitude: 45 57 21 Longitude: 122 99 18

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	e163	49	247	61	36	11	9.6	4.4	2.9	10	6.4	37
2	e235	47	217	56	39	11	7.5	4.2	4.4	6.8	7.8	101
3	e470	44	336	51	43	11	6	3	3.8	4.7	7.2	1164
4	e415	44	405	49	43	12	3.4	4.3	4.5	4.3	7.2	1630
5	e310	43	313	46	38	13	3.6	6.1	6.8	3.9	7.6	848
6	e520	42	219	44	34	13	3.5	5.4	6.6	1.7	7.6	444
7	e540	42	173	50	31	13	1.7	6.1	4.7	0.56	7.7	282
8	e500	43	146	56	30	12	1.3	7	2.7	0.64	7.8	180
9	e442	44	125	54	28	13	1.7	4.7	3.8	1.9	8.2	135
10	325	44	118	53	27	16	1.6	2.4	5.8	2	10	113
11	234	58	113	50	25	15	1.8	1.3	5.9	2.6	13	97
12	171	60	108	53	24	12	1.6	e2.1	6	3.3	12	84
13	140	56	101	54	23	9.9	1.6	e2.6	5.9	3.3	15	74
14	121	54	94	52	22	9.4	2.2	e2.9	8.8	3.3	13	67
15	104	71	86	49	22	8.4	1.1	e2.6	11	3.5	9.7	66
16	96	147	81	46	19	8.4	2	1.1	12	4.5	13	64
17	89	158	76	53	17	8.3	3	e2.3	12	6.6	33	66
18	82	146	72	65	17	9.1	5.4	e4.2	12	9.6	33	101
19	79	128	68	68	18	9.2	7.5	4.1	11	17	48	149
20	83	153	71	65	18	8.7	7.9	7.6	9.2	20	44	283
21	79	193	62	64	23	6.7	9.4	12	9.2	23	29	343
22	76	185	57	70	20	5.4	11	9.3	8.8	12	20	259
23	75	164	55	62	17	5.5	11	7.8	8.2	6.4	15	230
24	72	159	56	57	16	6.7	11	7	7.6	5.2	12	341
25	70	228	95	54	17	9.2	8.4	5.9	9.4	5.6	9.6	345
26	67	295	90	51	15	8.5	4.3	4.6	8.5	5.9	8.2	324
27	64	325	86	48	13	5.7	5.9	6.2	8.5	5.7	10	277
28	60	305	74	46	12	6.6	5.7	5.3	10	5.8	11	331
29	56	—	67	42	13	11	6	3.4	8.5	6	21	301
30	54	—	66	38	13	12	7	4.7	6.3	6.1	44	304
31	52	—	65	—	11	—	5	2.8	—	6.7	—	272
TOTAL	5844	3327	3942	1607	724	301	159	147	225	199	491	9312
MEAN	193	119	129	54	24	10	5.1	4.8	7.5	6.4	16	301
MAX	540	325	405	70	43	16	11	12	12	23	48	1630
MIN	54	42	55	38	12	5.4	1.1	1.1	2.7	0.56	6.4	37
AC-FT	11596	6602	7822	3189	1437	597	316	292	446	395	974	18478

e=estimated value

MCSC — 14206070 — McKay Creek at Scotch Church Road above Waible Creek near North Plains, Oregon [RM 6.3]



WCJS – 14206100 – WAIBLE CREEK AT JACKSON SCHOOL ROAD NEAR HILLSBORO, OREGON [RM 1.0]

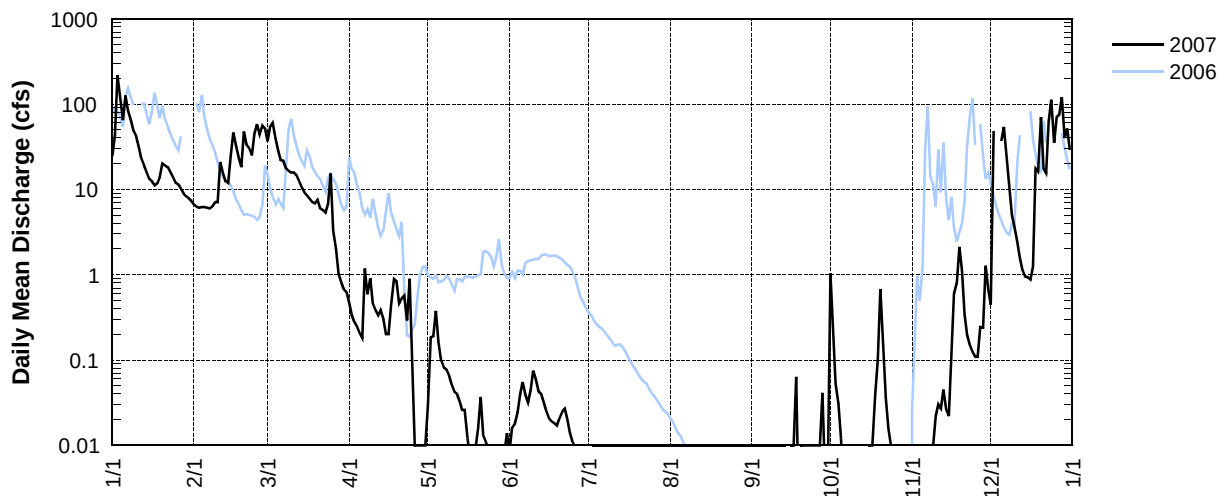
Latitude: 45 33 55 Longitude: 122 58 12

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	25	6.6	37	0.47	e0.03	<0.01	<0.01	<0.01	<0.01	1.00	<0.01	0.4
2	e43	6.2	55	0.34	e0.19	e0.02	<0.01	<0.01	<0.01	0.26	<0.01	e49
3	e218	6.1	60	0.28	e0.19	e0.02	<0.01	<0.01	<0.01	0.05	<0.01	r
4	111	6.2	39	0.25	e0.38	e0.02	<0.01	<0.01	<0.01	0.03	<0.01	r
5	65	6.2	29	0.21	e0.16	e0.04	<0.01	<0.01	<0.01	0.01	<0.01	37
6	e126	6.1	22	0.18	e0.1	e0.06	<0.01	<0.01	<0.01	<0.01	<0.01	54
7	83	6.0	22	1.20	e0.08	e0.04	<0.01	<0.01	<0.01	<0.01	<0.01	21
8	65	6.3	17	0.59	e0.08	e0.03	<0.01	<0.01	<0.01	<0.01	<0.01	9.9
9	48	7.1	16	0.91	e0.07	e0.04	<0.01	<0.01	<0.01	<0.01	<0.01	5.0
10	42	7.0	16	0.46	e0.05	e0.08	<0.01	<0.01	<0.01	<0.01	0.02	3.6
11	32	21	16	0.39	e0.04	e0.06	<0.01	<0.01	<0.01	<0.01	0.03	2.4
12	23	16	15	0.34	e0.04	e0.04	<0.01	<0.01	<0.01	<0.01	0.03	1.6
13	19	13	12	0.39	e0.03	e0.04	<0.01	<0.01	<0.01	<0.01	0.04	1.1
14	16	12	10	0.30	e0.03	e0.03	<0.01	<0.01	<0.01	<0.01	0.03	1.0
15	13	25	9.2	0.20	e0.03	e0.03	<0.01	<0.01	<0.01	<0.01	0.02	0.93
16	13	46	8.5	0.20	e0.01	e0.02	<0.01	<0.01	<0.01	<0.01	0.16	0.87
17	11	33	7.8	0.44	<0.01	e0.02	<0.01	<0.01	<0.01	<0.01	0.60	1.3
18	12	23	7.1	0.89	<0.01	e0.02	<0.01	<0.01	0.1	e0.04	0.81	18
19	14	18	6.9	0.83	<0.01	e0.02	<0.01	<0.01	<0.01	e0.1	2.1	16
20	20	48	7.6	0.46	e0.02	e0.02	<0.01	<0.01	<0.01	e0.68	1.1	70
21	19	34	6.0	0.53	e0.04	e0.02	<0.01	<0.01	<0.01	e0.2	0.35	17
22	18	30	5.7	0.57	e0.01	e0.03	<0.01	<0.01	<0.01	e0.04	0.20	15
23	16	25	5.4	0.29	e0.01	e0.02	<0.01	<0.01	<0.01	e0.02	0.15	e63
24	14	45	6.7	0.89	<0.01	e0.01	<0.01	<0.01	<0.01	e0.01	0.12	e113
25	12	58	15.0	0.08	<0.01	e0.01	<0.01	<0.01	<0.01	<0.01	0.11	35
26	11	44	3.3	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11	70
27	10	56	2.0	<0.01	e0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.24	75
28	9.0	52	1.0	<0.01	<0.01	<0.01	<0.01	<0.01	0.0	<0.01	0.24	e121
29	8.3	—	0.8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.3	40
30	7.9	—	0.7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.68	52
31	7.3	—	0.6	—	0.01	—	<0.01	<0.01	—	<0.01	—	29
TOTAL	1132	663.0	460.0	12.0	e1.7	e0.79	e0	e0	e1.4	e2.5	8.5	1038
MEAN	37	24.0	15.0	0.5	e0.06	e0.03	e0	e0	e0.24	e0.19	0.3	35
MAX	218	58.0	60.0	1.2	e0.38	e0.08	e0	e0	e1.1	e1	2.1	121
MIN	7.9	6.0	0.7	0.1	e0.01	e0.01	e0	e0	e0.01	e0.01	0.0	0.4
AC-FT	2246	1316	913	24	e3.4	e1.6	e0	e0	e2.8	e5	17.0	2060

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

WCJS — 14206100 — Waible Creek at Jackson School Road near Hillsboro, Oregon [RM 1.0]



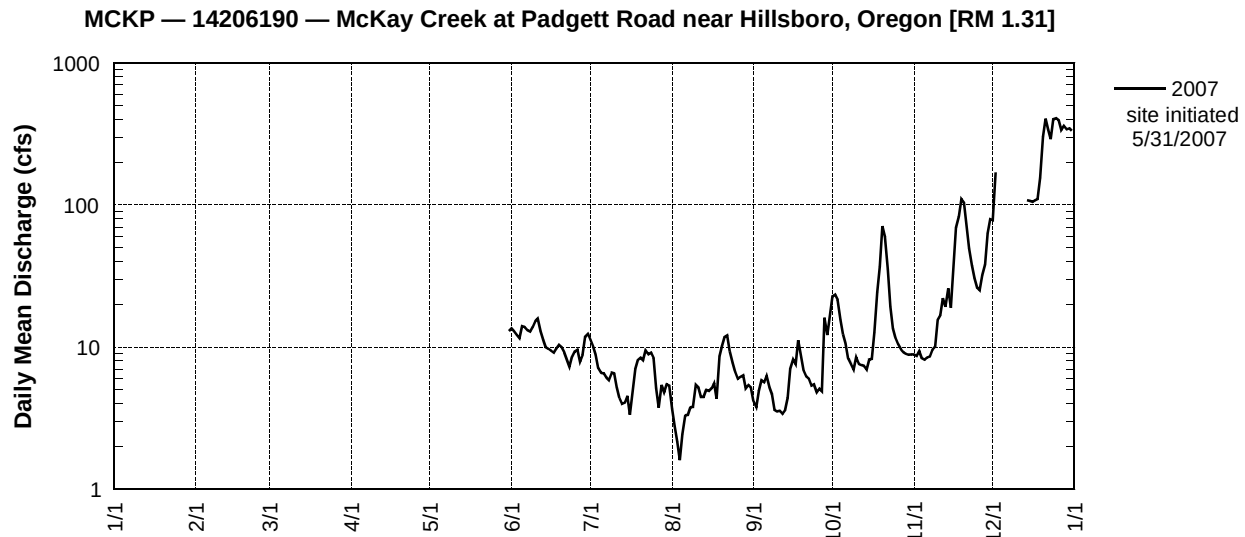
MCKP – 14206190 – MCKAY CREEK AT PADGETT ROAD NEAR HILLSBORO, OREGON [RM 1.31]

Latitude: 45 31 57 Longitude: 123 00 16

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY*	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1						14	11	3.7	4.2	23	8.9	78
2						13	10	2.8	3.8	23	8.7	169
3						12	8.8	2.2	4.9	22	9.4	r
4						12	7.1	1.6	5.8	16	8.4	m
5						14	6.6	2.4	5.7	12	8.2	m
6						14	6.5	3.3	6.3	11	8.5	m
7						13	6.1	3.3	5.2	8.3	8.6	m
8						13	5.9	3.8	4.7	7.6	9.6	m
9						14	6.6	3.8	3.6	6.9	10	m
10						15	6.5	5.4	3.5	8.5	16	m
11						16	5.2	5.2	3.6	7.6	17	m
12						13	4.4	4.5	3.4	7.5	22	m
13						11	4	4.5	3.6	7.4	19	m
14						10	4.1	5	4.4	7	26	e108
15						9.7	4.6	4.9	7.1	8.2	19	e107
16						9.4	3.4	5.1	8.2	8.3	35	e105
17						9.2	4.8	5.6	7.6	13	69	e108
18						9.8	7	4.3	11	24	83	e110
19						10	8.2	8.6	8.8	37	110	e155
20						10	8.4	10	6.8	71	104	e303
21						9.2	8.1	12	6.2	60	71	e404
22						8.2	9.5	12	6	35	50	e340
23						7.3	8.9	9.3	5.4	19	37	e290
24						8.6	9.1	7.7	5.5	13	31	e401
25						9.3	8.4	6.7	4.8	12	26	e406
26						9.6	5.1	6	5.1	11	25	e395
27						7.9	3.8	6.2	4.9	9.7	32	e337
28						8.8	5.4	6.3	16	9.2	38	e361
29		—				12	4.8	5.1	12	9	63	e341
30		—				12	5.5	5.4	16	8.8	79	e346
31		—		—	e13	—	5.4	5.2	—	8.9	—	e332
TOTAL						335	203	172	194	525	1052	
MEAN						11	6.6	5.6	6.5	17	35	
MAX						16	11	12	16	71	110	
MIN						7.3	3.4	1.6	3.4	6.9	8.2	
AC-FT						665	403	341	385	1042	2088	

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.



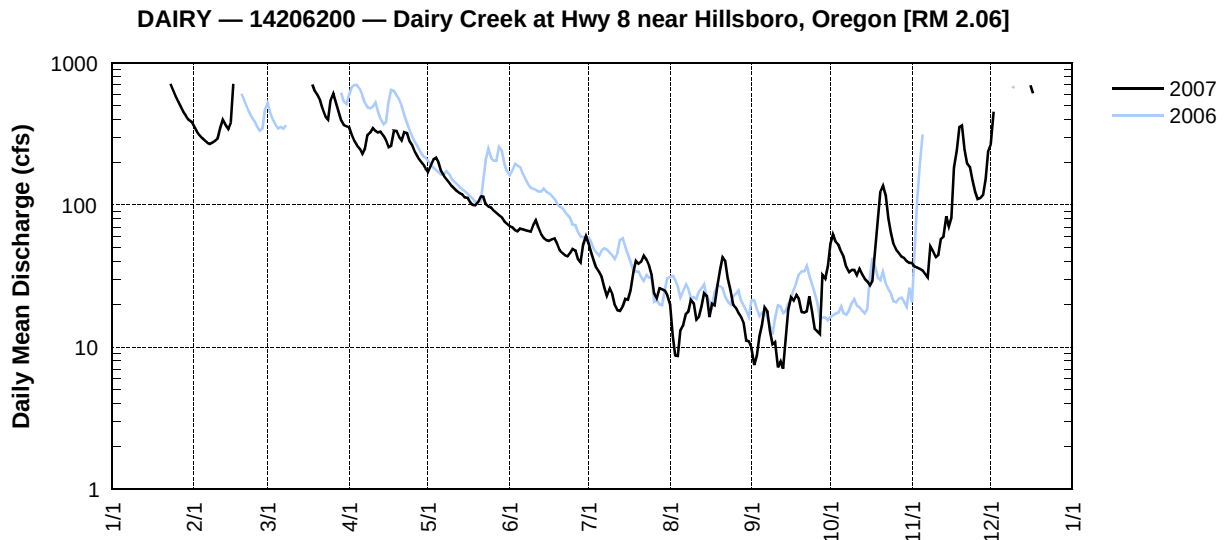
DAIRY – 14206200 – DAIRY CREEK AT HWY 8 NEAR HILLSBORO, OREGON [RM 2.06]

Latitude: 45 30 38 Longitude: 123 06 56

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN*	FEB*	MAR*	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	r	357	r	351	171	71	54	20	9.9	53	39	269
2	r	330	r	311	191	70	46	12	7.5	62	37	e453
3	r	313	r	281	209	67	41	8.7	8.7	55	36	r
4	r	297	r	263	215	65	36	8.7	12	52	36	r
5	r	284	r	248	199	68	34	13	14	47	35	r
6	r	275	r	229	173	67	31	14	19	43	33	r
7	r	268	r	248	160	66	26	17	18	37	31	r
8	r	275	r	311	152	66	23	18	13	34	51	r
9	r	283	r	323	144	65	26	21	11	35	47	r
10	r	294	r	349	136	72	24	20	11	35	43	r
11	r	349	r	332	130	78	20	16	7.2	32	45	r
12	r	397	r	324	125	69	18	16	8	36	58	r
13	r	366	r	328	121	62	18	19	7.1	32	60	r
14	r	343	r	308	119	58	19	24	11	30	83	r
15	r	380	r	285	113	56	22	23	18	29	71	r
16	r	e711	r	255	112	56	22	16	22	27	81	e695
17	r	r	r	261	104	58	25	20	21	29	183	608
18	r	r	e703	332	100	58	34	20	23	48	244	r
19	r	r	627	330	100	53	40	27	22	74	353	r
20	r	r	591	301	105	48	39	35	18	125	363	r
21	r	r	544	284	115	46	40	43	17	137	246	r
22	r	r	465	323	114	44	44	41	18	116	196	r
23	e712	r	417	318	101	44	41	31	23	81	185	r
24	645	r	399	278	97	46	38	25	18	64	149	r
25	585	r	550	262	96	49	32	20	13	53	124	r
26	530	r	610	236	91	48	24	19	13	49	110	r
27	488	r	522	217	88	42	22	17	12	46	112	r
28	449	r	453	205	85	39	26	16	32	43	118	r
29	422	—	393	195	82	53	26	15	30	42	152	r
30	399	—	365	181	76	60	25	11	37	40	241	r
31	387	—	358	—	73	—	23	11	—	39	—	r
TOTAL				8469	3897	1744	939	617	494	1625	3562	
MEAN				282	127	58	31	20	16	53	119	
MAX				351	215	78	54	43	37	137	363	
MIN				181	76	39	18	8.7	7.1	27	31	
AC-FT				16805	7733	3461	1863	1224	980	3225	7068	

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.



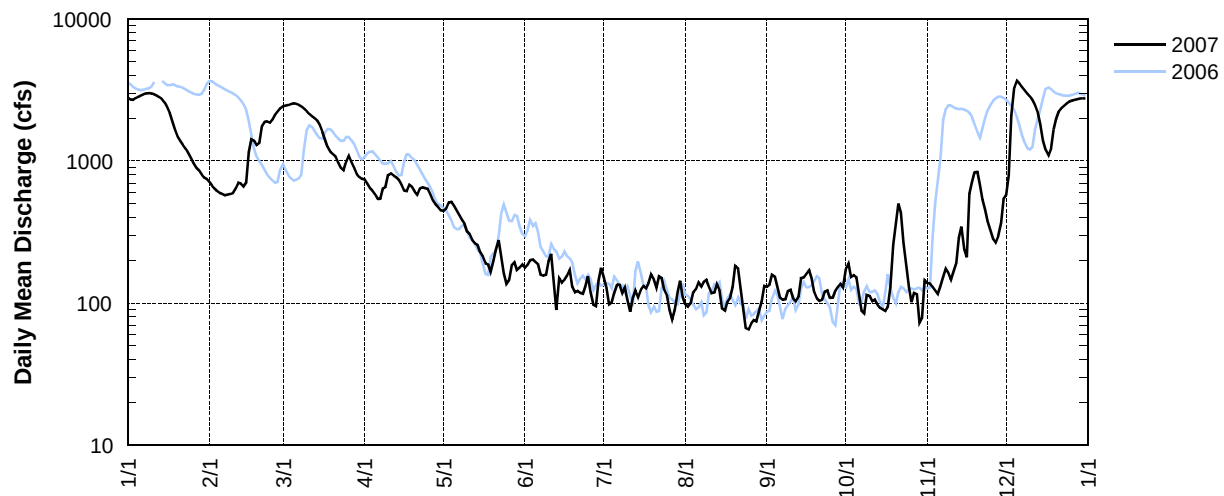
TRJB – 14206241 – TUALATIN RIVER AT HWY 219 BRIDGE [RM 44.4]

Latitude: 45 30 01 Longitude: 122 59 24

Source Agency: Jackson Bottom Wetland Education Center

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2784	712	2423	742	446	178	153	99	131	175	139	580
2	2698	669	2447	690	462	186	128	95	135	192	137	793
3	2681	640	2471	648	509	201	98	100	159	153	130	2098
4	2765	614	2509	619	513	202	101	119	154	157	123	3290
5	2835	596	2532	585	484	194	118	126	130	152	116	3670
6	2885	586	2522	539	451	187	135	140	109	117	133	3519
7	2942	575	2484	542	419	159	134	131	105	88	153	3322
8	2979	579	2424	639	386	156	118	142	107	85	174	3140
9	2994	586	2342	657	363	159	129	146	122	114	163	2988
10	2980	595	2243	795	320	198	106	130	124	112	146	2840
11	2944	643	2141	817	307	222	87	118	108	104	168	2674
12	2891	703	2060	789	279	140	109	119	103	106	191	2462
13	2816	696	1999	771	264	90	122	136	111	98	288	2171
14	2712	662	1919	738	257	149	110	123	150	93	345	1787
15	2572	711	1787	681	228	140	124	92	151	91	239	1384
16	2390	1147	1600	619	213	146	132	89	160	89	210	1195
17	2168	1422	1413	615	190	156	127	103	170	95	589	1095
18	1911	1388	1256	679	187	172	138	109	149	129	710	1221
19	1647	1291	1156	659	166	130	158	130	120	258	831	1658
20	1472	1342	1113	610	196	120	146	183	108	365	839	1981
21	1375	1754	1075	579	237	122	128	176	104	502	679	2224
22	1294	1877	972	639	278	118	155	130	106	432	532	2362
23	1217	1897	897	653	209	116	150	94	121	267	453	2451
24	1130	1856	859	642	162	131	124	67	123	181	375	2535
25	1047	1963	987	637	138	155	113	66	109	131	325	2617
26	965	2115	1089	582	147	120	89	72	109	101	283	2662
27	901	2232	987	527	186	97	77	76	123	118	268	2685
28	857	2347	896	496	194	95	89	75	131	116	297	2710
29	809	—	814	474	171	144	119	87	137	73	366	2746
30	767	—	771	449	178	177	144	103	129	79	545	2758
31	750	—	746	—	188	—	111	133	—	145	—	2743
TOTAL	63177	32196	50931	19115	8726	4560	3774	3505	3796	4916	9947	72358
MEAN	2038	1150	1,643	637	281	152	122	113	127	159	332	2334
MAX	2994	2,347	2,532	817	513	222	158	183	170	502	839	3670
MIN	750	575	746	449	138	90	77	66	103	73	116	580
AC-FT	125311	63860	101022	37914	17307	9045	7486	6951	7529	9750	19731	143522

TRJB — 14206241 —Tualatin River at Hwy 219 Bridge [RM 44.4]

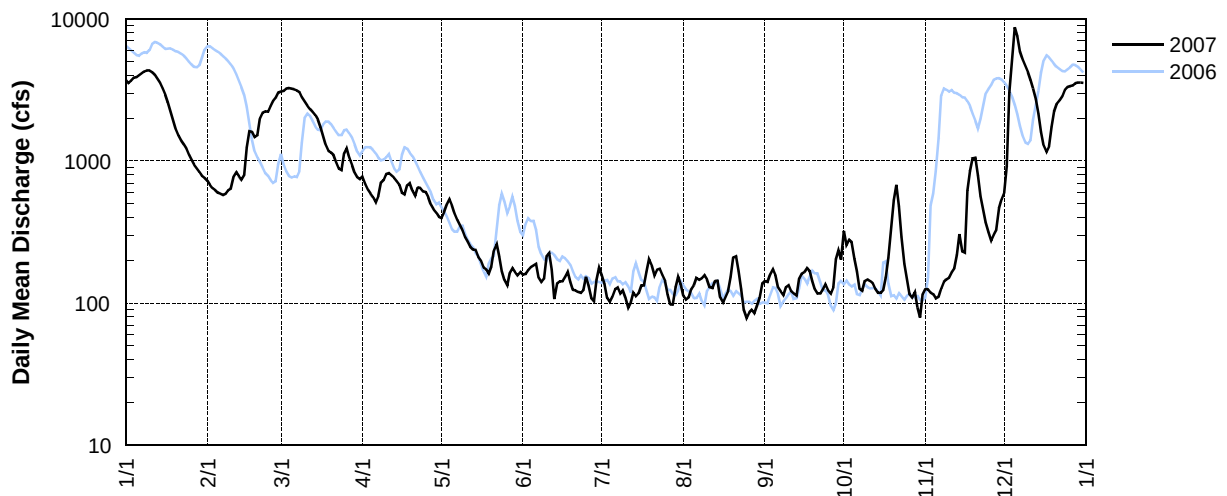


ROOD – 14206295 – TUALATIN RIVER AT ROOD BRIDGE ROAD NEAR HILLSBORO, OREGON [RM 38.44]

Latitude: 45 29 24 Longitude: 122 57 06

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3733	726	3082	775	397	159	158	113	143	322	126	600
2	3533	678	3106	687	435	160	136	106	141	257	125	918
3	3674	643	3222	630	496	171	109	110	159	279	119	3024
4	3853	623	3250	593	540	180	102	126	173	269	116	5486
5	3883	599	3225	559	485	184	111	134	157	205	108	8733
6	3996	588	3190	512	427	189	126	151	129	166	111	7533
7	4144	578	3138	569	387	151	129	146	121	126	127	5912
8	4274	588	3061	701	353	141	117	150	114	122	141	5134
9	4320	622	2800	731	325	149	123	157	130	143	147	4652
10	4319	638	2608	807	291	214	110	147	134	147	151	4213
11	4214	778	2449	820	271	226	93	130	121	143	165	3723
12	4037	832	2323	792	249	172	101	128	117	138	176	3230
13	3807	781	2232	762	238	107	119	143	113	126	218	2713
14	3539	741	2113	723	236	138	112	144	149	118	306	2150
15	3244	798	1959	679	212	142	118	110	161	118	232	1602
16	2929	1245	1739	598	200	142	133	101	165	124	227	1292
17	2589	1619	1509	582	178	152	133	111	177	152	621	1160
18	2240	1599	1314	674	172	166	166	122	169	209	845	1271
19	1908	1470	1180	698	161	141	203	153	143	342	1042	1739
20	1666	1524	1155	615	181	124	183	210	125	532	1051	2244
21	1515	2003	1098	569	235	123	157	214	117	679	792	2534
22	1404	2175	979	650	261	120	172	168	117	482	565	2666
23	1311	2235	885	647	213	118	175	126	125	292	455	2853
24	1216	2217	863	609	167	124	159	90	136	189	370	3165
25	1115	2437	1133	603	145	153	144	79	124	146	314	3301
26	1017	2641	1226	555	133	133	115	86	117	116	276	3351
27	941	2782	1063	494	164	108	98	90	130	110	304	3401
28	886	3021	934	458	176	103	97	85	203	120	327	3511
29	837	—	825	433	165	146	129	95	235	93	469	3547
30	784	—	766	406	157	178	153	110	202	79	542	3564
31	758	—	742	—	165	—	136	137	—	116	—	3541
TOTAL	81686	37181	59169	18931	8215	4514	4117	3972	4347	6460	10568	102763
MEAN	2698	1328	1948	631	268	150	133	128	145	211	352	3307
MAX	4320	3021	3250	820	540	226	203	214	235	679	1051	8733
MIN	784	578	766	406	133	103	93	79	113	79	108	600
AC-FT	162092	73779	117411	37565	16301	8957	8169	7882	8626	12819	20970	203916

ROOD — 14206295 — Tualatin River at Rood Bridge Road near Hillsboro, Oregon [RM 38.4]

RCRR – 14206305 – ROCK CREEK AT NW ROCK CREEK ROAD NEAR BOWERS JUNCTION, OREGON [RM 15.8]

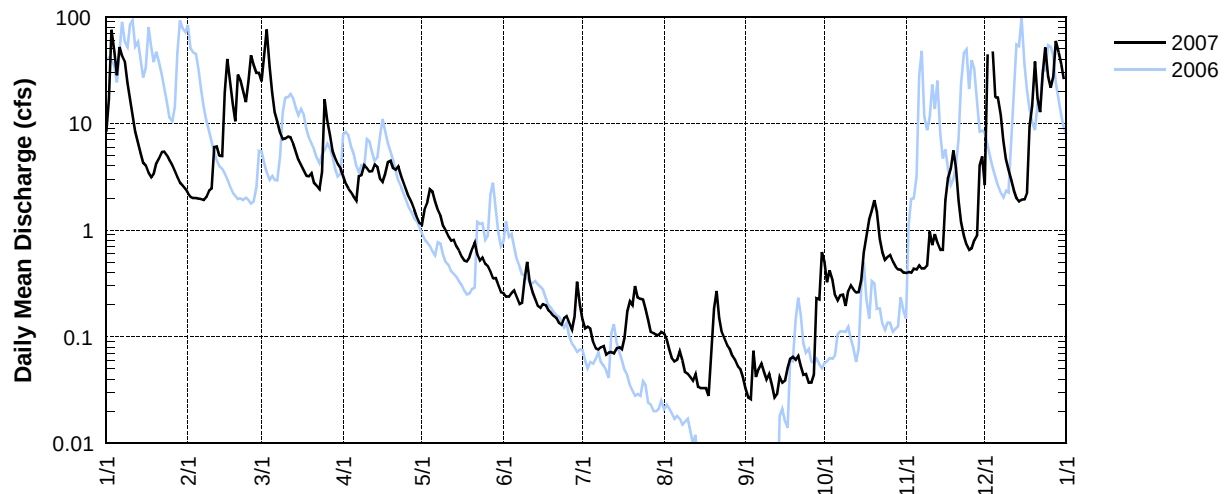
Latitude: 45 37 04 Longitude: 12 53 13

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	8.4	2.2	25	3.2	1.1	0.26	0.14	0.11	0.03	0.51	0.40	2.7
2	17	2.0	e44	2.7	1.6	0.24	0.12	0.09	0.03	0.32	0.41	e44
3	e76	2.0	e76	2.5	1.8	0.24	0.12	0.08	0.03	0.42	0.40	r
4	47	2.0	35	2.3	2.4	0.26	0.12	0.06	0.07	0.34	0.43	e47
5	28	2.0	20	2.0	2.3	0.27	0.09	0.06	0.04	0.24	0.43	18
6	52	1.9	13	1.9	1.9	0.24	0.08	0.06	0.05	0.22	0.47	17
7	43	1.9	10	3.2	1.5	0.20	0.08	0.07	0.06	0.24	0.44	12
8	38	2.0	8.1	3.3	1.4	0.21	0.08	0.06	0.05	0.25	0.44	6.9
9	24	2.3	7.1	4.1	1.1	0.35	0.08	0.05	0.04	0.20	0.47	4.6
10	17	2.4	7.2	3.8	0.99	0.50	0.07	0.05	0.04	0.27	0.97	3.7
11	12	6.0	7.5	3.6	0.87	0.33	0.07	0.04	0.04	0.30	0.72	2.9
12	8.4	6.1	7.4	3.6	0.79	0.26	0.07	0.04	0.03	0.28	0.91	2.4
13	6.6	5.0	6.4	4.1	0.81	0.22	0.07	0.04	0.03	0.26	0.76	2
14	5.2	4.9	5.4	3.9	0.71	0.19	0.08	0.03	0.04	0.26	0.65	1.9
15	4.3	20	4.5	3.0	0.65	0.19	0.08	0.03	0.04	0.34	0.65	1.9
16	4.0	40	4.0	2.8	0.56	0.20	0.08	0.03	0.04	0.62	1.9	1.9
17	3.4	25	3.6	3.3	0.52	0.20	0.10	0.03	0.05	0.87	3.1	2.2
18	3.1	15	3.2	4.3	0.51	0.18	0.17	0.03	0.06	1.3	3.8	9.5
19	3.4	10	3.2	4.5	0.55	0.17	0.21	0.08	0.07	1.5	5.6	14
20	4.3	29	3.4	3.8	0.67	0.16	0.20	0.18	0.06	1.9	3.9	38
21	4.7	25	2.8	3.7	0.77	0.15	0.30	0.27	0.07	1.5	1.9	17
22	5.4	20	2.6	4.0	0.59	0.13	0.23	0.15	0.05	0.83	1.2	13
23	5.5	16	2.4	3.2	0.52	0.13	0.23	0.11	0.04	0.62	0.88	29
24	5.0	25	3.5	2.8	0.55	0.15	0.22	0.09	0.04	0.53	0.73	52
25	4.5	43	17	2.4	0.48	0.16	0.18	0.08	0.04	0.56	0.65	28
26	4.0	36	11	2.0	0.46	0.13	0.14	0.08	0.04	0.58	0.68	22
27	3.6	30	7.7	1.8	0.41	0.12	0.11	0.07	0.04	0.51	0.8	27
28	3.1	30	5.5	1.6	0.35	0.15	0.11	0.06	0.23	0.45	0.9	59
29	2.8	—	4.7	1.3	0.36	0.33	0.10	0.05	0.22	0.43	4.0	46
30	2.6	—	4.1	1.2	0.30	0.20	0.10	0.05	0.62	0.42	4.9	36
31	2.4	—	3.8	—	0.26	—	0.11	0.04	—	0.40	—	26
TOTAL	449	407	359	90	28	6.5	3.9	2.3	2.3	17	43	588
MEAN	15	15	12	3.0	0.92	0.22	0.13	0.07	0.08	0.57	1.4	19
MAX	76	43	76	4.5	2.4	0.5	0.3	0.27	0.62	1.9	5.6	59
MIN	2.6	1.9	2.4	1.2	0.30	0.12	0.07	0.03	0.03	0.20	0.4	1.9
AC-FT	891	808	712	179	56	13	7.7	4.6	4.6	34	85	1167

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

RCRR — 14206305 — Rock Creek at NW Rock Creek Road near Bowers Junction, Oregon [RM 15.8]



RCWU – 14206338 – ROCK CREEK AT WEST UNION ROAD NEAR BETHANY, OREGON [RM 9.0]

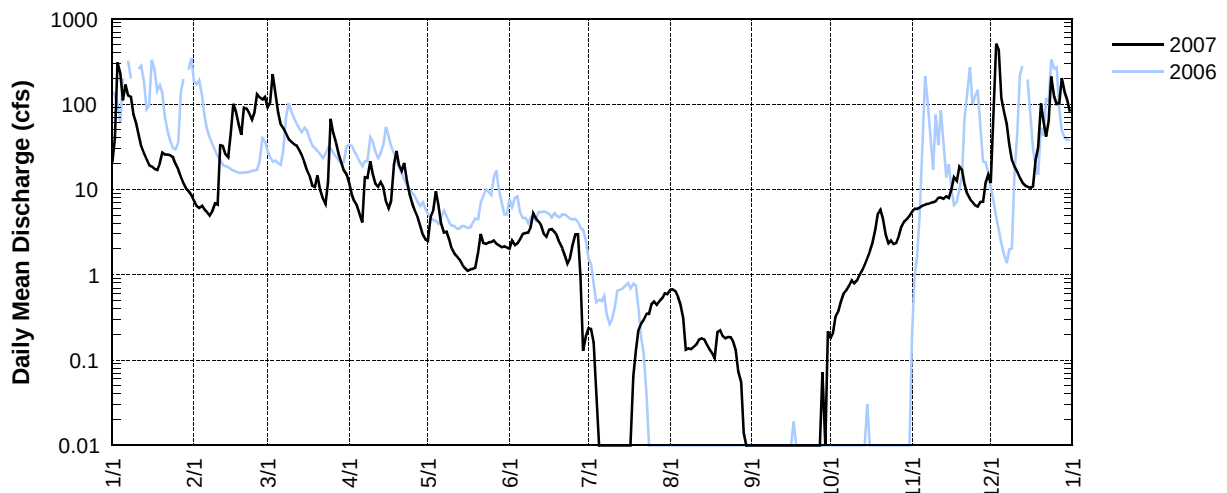
Latitude: 45 33 34 Longitude: 122 52 30

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	21	7.3	92	12	2.5	2.0	e0.23	e0.67	e0.01	e0.18	e5.5	12
2	40	6.4	105	8.7	4.9	2.5	e0.23	e0.67	e0.01	e0.21	e5.9	62
3	307	6.0	225	7.3	5.8	2.2	e0.16	e0.65	e0.01	e0.33	e5.9	e511
4	228	6.4	132	6.4	9.6	2.3	e0.04	e0.56	e0.01	e0.38	e6.1	429
5	111	5.8	80	5.1	6.5	2.6	e0.01	e0.45	e0.01	e0.49	e6.5	119
6	170	5.4	58	4.1	4.0	3.0	e0.01	e0.31	e0.01	e0.60	e6.6	82
7	126	5.0	52	14	3.1	3.1	e0.01	e0.13	e0.01	e0.66	e6.7	58
8	122	5.5	45	14	3.2	3.1	e0.01	e0.14	e0.01	e0.75	e6.9	33
9	75	6.9	39	21	2.6	e3.6	e0.01	e0.13	e0.01	e0.87	e7.0	22
10	60	6.6	36	15	2.0	e5.2	e0.01	e0.14	e0.01	e0.80	e7.3	18
11	44	33	34	12	1.8	e4.6	e0.01	e0.15	e0.01	e0.85	e8.0	16
12	32	32	33	11	1.6	e4.2	e0.01	e0.17	e0.01	e0.98	e8.0	14
13	26	26	29	12	1.5	e3.7	e0.01	e0.18	e0.01	e1.1	e7.8	12
14	22	24	25	11	1.3	e3.0	e0.01	e0.17	e0.01	e1.3	e8.4	11
15	19	45	21	7.2	1.2	e2.8	e0.01	e0.15	e0.01	e1.6	e8.0	11
16	19	101	17	6.0	1.1	e3.4	e0.01	e0.13	e0.01	e1.9	e10	10
17	17	82	14	7.3	1.2	e3.4	e0.01	e0.12	e0.01	e2.3	e14	11
18	17	57	11	20	1.2	e3.2	e0.07	e0.10	e0.01	e3.4	e13	22
19	20	44	11	28	1.2	e2.9	e0.13	e0.21	e0.01	e5.2	e19	31
20	27	91	15	19	1.8	e2.4	e0.23	e0.22	e0.01	e5.8	e17	102
21	26	89	9.9	16	3.0	e2.0	e0.27	e0.19	e0.01	e4.5	e11	62
22	26	78	7.8	21	2.4	e1.7	e0.30	e0.18	e0.01	e2.9	e8.9	42
23	25	66	6.7	12	2.3	e1.4	e0.35	e0.19	e0.01	e2.3	e7.7	64
24	24	80	12	8.7	2.4	e1.6	e0.35	e0.19	e0.01	e2.5	e7.1	211
25	20	131	67	6.9	2.4	e2.2	e0.45	e0.16	e0.01	e2.3	e6.5	123
26	17	120	46	5.6	2.5	e3.0	e0.49	e0.13	e0.01	e2.3	e6.3	100
27	14	113	35	4.7	2.3	e3.0	e0.45	e0.07	e0.01	e2.9	e7.1	102
28	12	121	26	3.7	2.2	e0.92	e0.49	e0.06	e0.07	e3.7	e7.2	201
29	10	—	21	3.0	2.1	e0.13	e0.53	e0.01	e0.01	e4.2	e12	138
30	9.5	—	17	2.6	2.2	e0.19	e0.60	e0.01	e0.22	e4.5	15	112
31	8.5	—	15	—	2.1	—	e0.59	e0.01	—	e4.9	—	81
TOTAL	1695	1394	1337	325	84	79	e6.1	e6.7	e0.57	e67	266	2822
MEAN	56	50	44	11	2.7	2.6	e0.18	e0.22	e0.02	e2.1	8.9	91
MAX	307	131	225	28	9.6	5.2	e0.60	e0.67	e0.22	e5.8	19	511
MIN	9.5	5	6.7	2.6	1.1	0.13	e0.01	e0.01	e0.01	e0.18	5.5	10
AC-FT	3363	2766	2653	645	167	157	e12	e13	e1.1	e133	528	5600

e=estimated value

RCWU — 14206338 — Rock Creek at West Union Road near Bethany, Oregon [RM 9.0]



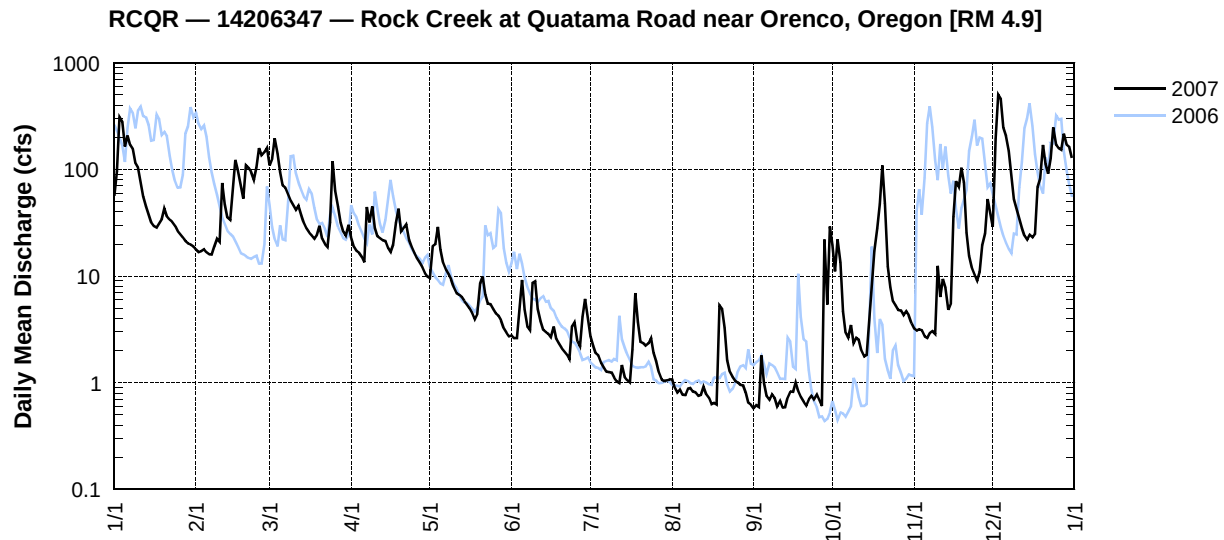
RCQR – 14206347 – ROCK CREEK AT QUATAMA ROAD NEAR ORENCO, OREGON [RM 4.9]

Latitude: 45 31 25 Longitude: 122 54 34

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	57	18	109	23	9.6	2.8	2.7	1.1	0.57	20	3.2	29
2	95	17	126	19	19	2.6	2.2	0.90	0.61	11	3.1	194
3	307	17	197	17	20	2.6	1.9	0.81	0.59	22	3.2	e500
4	277	18	141	17	29	5.0	1.8	0.86	1.8	13	3.1	e455
5	164	17	94	15	18	9.2	1.5	0.77	1.0	4.7	2.7	247
6	208	16	71	14	13	4.9	1.4	0.77	0.76	2.9	2.6	207
7	170	16	67	45	11	3.3	1.3	0.88	0.69	2.6	2.9	149
8	154	19	58	32	10	3.1	1.3	0.89	0.78	3.5	3	85
9	114	22	51	45	9.3	8.6	1.2	0.82	0.72	2.4	2.9	53
10	103	21	46	28	7.9	9.0	1.1	0.81	0.6	2.6	12	43
11	76	75	42	24	6.9	4.9	1.0	0.75	0.67	2.5	6.4	34
12	56	47	46	23	6.7	3.8	1.0	0.77	0.59	2	9.4	28
13	45	36	37	22	6.4	3.1	1.5	0.92	0.59	1.8	7.8	24
14	38	33	31	21	5.9	3.0	1.1	0.79	0.73	1.8	4.8	22
15	32	62	28	18	5.4	2.9	1.1	0.72	0.82	3.7	5.5	24
16	30	123	26	17	5.0	2.7	1.0	0.63	0.82	8.7	36	23
17	29	97	24	20	4.5	3.3	2.1	0.65	1	17	78	25
18	31	70	22	32	3.9	2.6	6.9	0.63	0.83	28	68	68
19	34	53	24	43	4.4	2.3	3.7	5.3	0.73	47	104	81
20	43	109	30	26	8.5	2.1	2.4	5.0	0.66	109	75	170
21	37	103	22	28	9.9	2	2.4	3.3	0.61	48	26	112
22	34	95	20	31	6.7	1.8	2.2	1.6	0.7	12	15	91
23	32	80	19	22	5.5	1.7	2.3	1.3	0.75	7.9	12	127
24	30	105	32	19	5.4	3.4	2.6	1.1	0.7	5.8	10	249
25	27	159	119	17	4.9	3.7	1.9	1.0	0.78	5.3	9	171
26	25	136	63	15	4.4	2.4	1.6	1.0	0.69	4.8	11	159
27	23	146	45	13	4.2	2.2	1.3	0.96	0.6	4.7	19	153
28	21	160	32	12	3.9	4.2	1.1	0.94	22	4.3	25	217
29	20	—	26	11	3.2	6.1	1.0	0.81	5.4	4.7	53	170
30	20	—	24	9.9	2.9	4.0	1.0	0.65	29	4.3	39	162
31	19	—	30	—	2.7	—	1.1	0.62	—	3.6	—	128
TOTAL	2351	1870	1702	679	258	113	57	38	77	412	653	4200
MEAN	78	67	56	23	8.5	3.8	1.9	1.2	2.6	14	22	136
MAX	307	160	197	45	29	9.2	6.9	5.3	29	109	104	500
MIN	20	16	19	9.9	2.9	1.7	1	0.63	0.57	1.8	2.6	22
AC-FT	4665	3711	3377	1347	512	224	113	75	153	818	1296	8334

e=estimated value



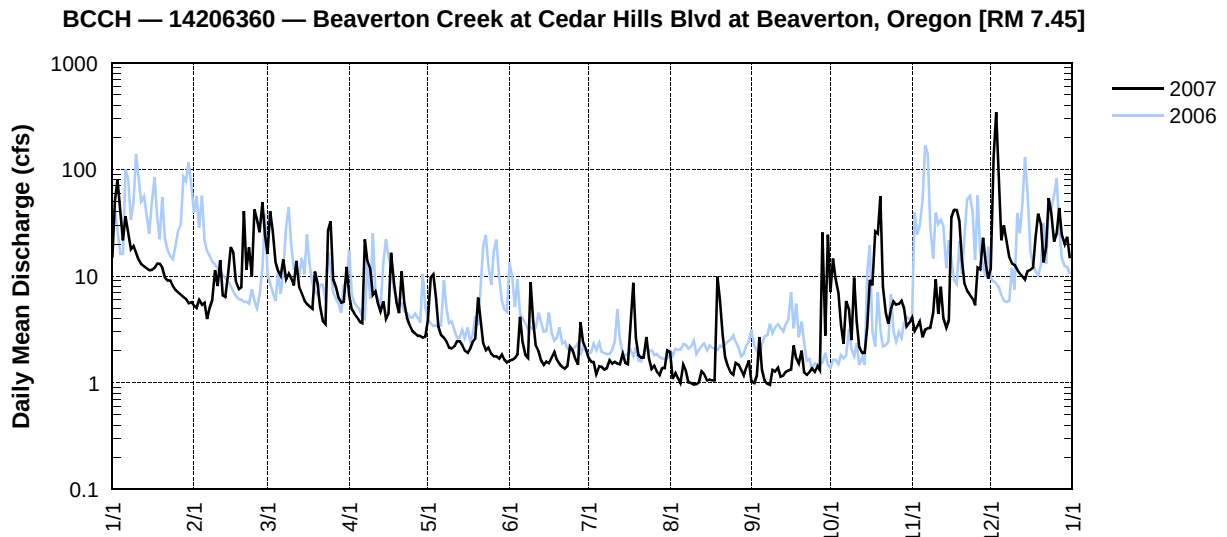
BCCH – 14206360 – BEAVERTON CREEK AT CEDAR HILLS BLVD AT BEAVERTON, OREGON [RM 7.45]

Latitude: 45 49 31 Longitude: 122 81 05

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	15	5.3	16	6.6	3.9	1.6	1.7	1.9	1.0	7.1	4.1	12
2	51	5.0	41	4.9	9.7	1.6	1.6	1.1	1.0	15	3.1	131
3	80	5.9	27	4.5	10	1.7	1.6	1.2	1.2	9.5	3.4	e344
4	41	5.3	13	4.1	6.4	1.8	1.2	1.1	2.7	6.9	3.8	96
5	22	5.6	11	3.7	3.3	4.2	1.4	0.99	1.3	3.5	2.7	22
6	36	4.0	10	3.6	2.8	2.4	1.4	1.5	1.0	2.3	3.2	30
7	26	5.0	14	22	2.6	1.8	1.3	1.3	0.98	5.8	3.2	21
8	18	6.0	9.4	14	2.4	1.7	1.4	1.0	0.95	4.9	3.3	15
9	19	11	11	12	2.1	8.8	1.6	0.99	1.3	2.5	4.5	13
10	17	8.1	9.5	6.6	2.1	3.8	1.5	0.96	1.3	9.7	9.3	13
11	14	14	8.2	7.2	2.2	2.2	1.6	0.97	1.4	3.8	4.4	11
12	13	6.6	14	5.5	2.5	2.0	1.5	1.0	1.1	2.1	8.0	11
13	12	6.4	7.8	4.7	2.4	1.6	1.5	1.3	1.2	1.9	4.0	9.9
14	12	11	6.9	5.8	2.2	1.5	1.9	1.2	1.3	1.9	3.3	9.3
15	11	19	5.9	4.0	2.0	1.6	1.5	1.0	1.3	3.3	3.9	11
16	11	16	5.5	4.5	1.9	1.5	1.5	1.1	1.3	9.2	36	11
17	12	8.8	5.1	17	2.1	1.7	3.5	1.0	2.2	8.2	42	12
18	13	7.5	4.9	8.7	2.4	2.0	8.6	1.0	1.7	26	41	23
19	13	7.8	11	5.6	2.6	1.6	2.6	9.9	1.5	25	33	38
20	12	41	8.6	4.5	6.3	1.5	1.8	5.8	2.0	56	14	30
21	9.7	11	5.2	11	3.7	1.4	1.7	2.9	1.2	8.0	8.4	13
22	9.1	19	3.8	5.7	2.3	1.4	1.7	1.7	1.2	4.5	7.3	19
23	9.1	10	3.5	4.1	2.0	1.4	2.7	1.4	1.3	3.6	6.6	54
24	8.0	42	27	3.5	2.1	2.2	1.7	1.2	1.4	4.9	6.2	39
25	7.4	34	32	3.1	1.9	2.0	1.4	1.2	1.3	5.8	5.3	21
26	7.0	26	9.4	2.9	1.8	1.7	1.4	1.5	1.4	5.4	12	25
27	6.6	49	7.9	2.8	1.8	1.5	1.3	1.5	1.3	5.5	11	43
28	6.3	24	6.2	2.7	1.7	3.7	1.2	1.3	26	5.9	23	24
29	6.1	—	5.6	2.7	1.8	2.4	1.4	1.2	2.8	5.0	13	20
30	5.6	—	5.7	2.7	1.6	2.1	1.4	1.4	24	3.4	9.4	23
31	5.7	—	12	—	1.5	—	2	1.6	—	3.7	—	15
TOTAL	529	414	358	191	94	66	59	53	90	260	332	1159
MEAN	17	15	12	6.4	3.1	2.2	1.9	1.7	3	8.6	11	38
MAX	80	49	41	22	10	8.8	8.6	9.9	26	56	42	344
MIN	5.6	4	3.5	2.7	1.6	1.4	1.2	0.96	0.95	1.9	2.7	9.3
AC-FT	1050	822	710	379	187	131	117	105	179	516	659	2300

e=estimated value



ECMR – 14206365 – ERICKSON CREEK AT MENLO DRIVE AT BEAVERTON, OREGON [RM 0.76]

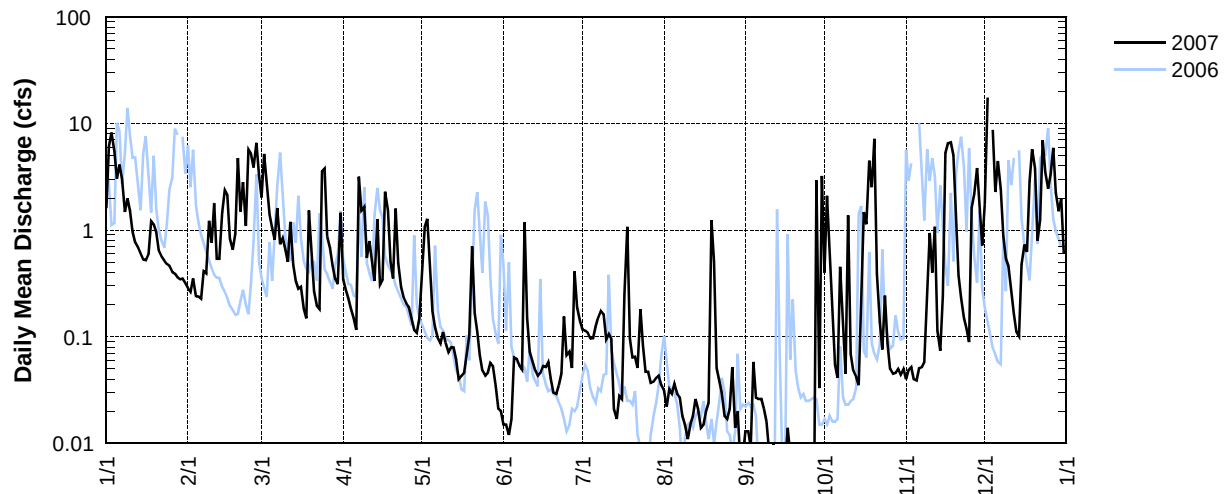
Latitude: 45 29 14 Longitude: 122 58 54

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	1.6	0.29	2.0	0.34	0.41	0.01	0.12	0.03	0.01	0.4	0.04	1.7
2	6.1	0.26	5.2	0.28	1.1	0.01	0.11	0.02	0.01	2.1	0.05	e17
3	8.2	0.35	2.7	0.23	1.3	0.01	0.11	0.03	0.01	0.49	0.05	r
4	5.5	0.24	1.4	0.18	0.41	0.02	0.10	0.03	0.06	0.14	0.04	e8.7
5	3.1	0.24	1.0	0.15	0.17	0.06	0.10	0.04	0.03	0.06	0.04	2.3
6	4.1	0.23	0.81	0.12	0.12	0.06	0.13	0.03	0.03	0.04	0.05	4.4
7	3.0	0.41	1.6	3.2	0.10	0.05	0.15	0.03	0.03	0.45	0.05	2.4
8	1.5	0.39	0.74	1.5	0.09	0.05	0.18	0.02	0.02	0.11	0.06	0.88
9	2.0	1.2	0.85	1.6	0.11	1.2	0.16	0.02	0.02	0.05	0.27	0.54
10	1.5	0.76	0.67	0.55	0.09	0.15	0.10	0.01	0.01	1.4	0.94	0.46
11	0.96	1.8	0.5	0.79	0.07	0.07	0.11	0.02	0.01	0.07	0.4	0.27
12	0.77	0.54	1.2	0.52	0.08	0.06	0.10	0.02	0.01	0.05	1.1	0.16
13	0.68	0.54	0.47	0.33	0.08	0.05	0.02	0.03	<0.01	0.04	0.11	0.11
14	0.6	1.5	0.33	1.3	0.06	0.04	0.02	0.02	<0.01	0.04	0.07	0.1
15	0.53	2.3	0.28	0.31	0.04	0.05	0.03	0.01	<0.01	0.22	0.24	0.48
16	0.52	2.1	0.3	0.34	0.04	0.05	0.03	0.01	0.01	1.5	5.3	0.73
17	0.6	0.83	0.18	2.3	0.05	0.05	0.25	0.02	0.01	1.1	6.5	0.62
18	1.2	0.66	0.15	1.5	0.07	0.06	1.1	0.02	0.01	4.5	6.6	2.9
19	1.1	0.93	1.5	0.51	0.10	0.04	0.1	1.2	0.01	2.5	5.0	5.7
20	0.95	4.7	0.63	0.35	0.70	0.03	0.06	0.5	<0.01	7.2	1.3	3.8
21	0.64	1.5	0.27	1.6	0.17	0.03	0.07	0.05	<0.01	0.39	0.38	0.8
22	0.56	2.8	0.2	0.49	0.11	0.03	0.05	0.04	<0.01	0.14	0.23	1.2
23	0.52	1.1	0.18	0.29	0.07	0.04	0.18	0.03	0.01	0.08	0.15	7
24	0.48	5.7	3.6	0.23	0.05	0.16	0.08	0.02	0.01	0.24	0.12	3.5
25	0.46	5.2	3.8	0.2	0.04	0.07	0.05	0.02	<0.01	0.09	0.09	2.5
26	0.40	3.9	0.87	0.19	0.05	0.07	0.05	0.02	<0.01	0.05	1.6	3.3
27	0.39	6.6	0.67	0.14	0.06	0.05	0.04	0.05	<0.01	0.05	2.2	5.9
28	0.36	3.3	0.46	0.12	0.05	0.41	0.04	0.01	2.9	0.05	3.8	2.2
29	0.34	—	0.35	0.11	0.03	0.19	0.04	0.02	0.03	0.05	1.7	1.5
30	0.35	—	0.31	0.15	0.02	0.14	0.04	0.01	3.2	0.04	0.72	2
31	0.31	—	1.4	—	0.02	—	0.03	0.01	—	0.05	—	0.6
TOTAL	49	50	35	20	5.9	3.3	3.8	2.4	6.4	24	39	84
MEAN	1.6	1.8	1.1	0.66	0.19	0.11	0.12	0.08	0.31	0.79	1.3	2.9
MAX	8.2	6.6	5.2	3.2	1.3	1.2	1.1	1.2	3.2	7.2	6.6	17
MIN	0.34	0.23	0.15	0.11	0.02	0.01	0.02	0.01	0.01	0.04	0.04	0.1
AC-FT	97	99	69	40	12	6.5	7.5	4.8	13	48	77	167

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

ECMR — 14206365 — Erickson Creek at Menlo Drive at Beaverton, Oregon [RM 0.76]



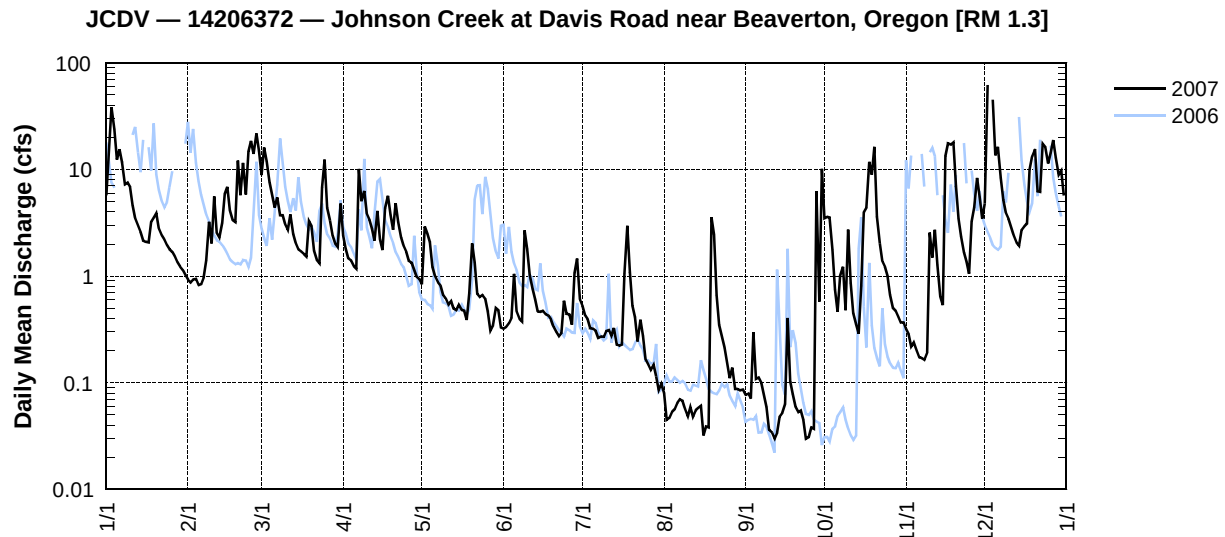
JCDV – 14206372 – JOHNSON CREEK AT DAVIS ROAD NEAR BEAVERTON, OREGON [RM 1.3]

Latitude:45 28 30 Longitude:122 49 52

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	5.7	0.92	8.9	2.4	0.84	0.32	0.52	0.08	0.08	3.5	0.32	4.8
2	e14	0.87	16	1.8	2.9	0.33	0.43	0.04	0.08	e3.6	0.28	e62
3	e38	0.93	12	1.5	2.5	0.36	0.39	0.05	0.07	3.5	0.22	r
4	e24	0.94	7.6	1.4	2.1	0.41	0.32	0.05	0.30	1.8	0.24	e45
5	12	0.83	5.7	1.2	1.2	1.1	0.32	0.06	0.11	0.75	0.20	13
6	15	0.84	4.4	1.2	1.0	0.47	0.31	0.06	0.11	0.46	0.17	16
7	12	0.97	5.5	10	0.87	0.4	0.26	0.07	0.10	1.0	0.17	8.3
8	7.3	1.4	3.7	5.0	0.82	0.37	0.27	0.07	0.08	1.2	0.16	5.2
9	7.5	3.2	3.7	6.3	0.67	2.7	0.27	0.06	0.06	0.48	0.19	3.9
10	6.8	2.0	3.0	3.8	0.62	1.8	0.31	0.05	0.04	2.7	2.6	3.5
11	4.6	5.6	2.7	3.4	0.54	1.0	0.31	0.06	0.03	0.87	1.5	2.8
12	3.5	2.5	3.8	2.8	0.59	0.76	0.28	0.05	0.03	0.45	2.7	2.4
13	3.0	2.3	2.5	2.2	0.5	0.61	0.33	0.05	0.03	0.35	1.3	2.1
14	2.6	3.1	2.0	4.1	0.48	0.47	0.23	0.06	0.05	0.29	0.64	1.9
15	2.2	5.9	1.8	2.2	0.54	0.46	0.22	0.06	0.05	0.81	0.53	2.7
16	2.1	6.9	1.7	1.8	0.48	0.47	0.23	0.03	0.06	4.0	13	2.9
17	2.1	4.1	1.6	4.3	0.48	0.44	1.1	0.04	0.40	4.4	e18	3.1
18	3.2	3.3	1.5	e5.7	0.39	0.43	3.0	0.04	0.10	12	e17	10
19	3.5	3.2	3.2	3.8	0.69	0.39	1.1	3.6	0.08	8.9	18	e13
20	3.9	e12	2.9	2.7	2.0	0.34	0.53	2.4	0.06	e16	7.0	15
21	2.8	5.7	1.7	4.8	1.3	0.30	0.41	0.66	0.05	3.6	3.5	6.2
22	2.4	11	1.4	3.2	0.68	0.27	0.24	0.35	0.06	2.0	2.3	6.1
23	2.2	5.8	1.3	2.3	0.64	0.29	0.39	0.28	0.04	1.4	1.7	e18
24	2.0	e15	6.8	1.9	0.66	0.59	0.27	0.21	0.03	1.2	1.4	e16
25	1.8	18	12	1.7	0.61	0.44	0.17	0.16	0.03	1.0	1.1	11
26	1.7	14	4.4	1.4	0.47	0.43	0.15	0.11	0.04	0.67	3.3	14
27	1.5	e22	3.3	1.3	0.31	0.35	0.13	0.14	0.04	0.5	4.4	e19
28	1.3	15	2.4	1.1	0.35	1.1	0.15	0.09	e6.3	0.47	8.4	13
29	1.2	—	2.0	0.98	0.5	1.5	0.11	0.09	0.58	0.42	5.5	9.0
30	1.1	—	1.9	0.94	0.48	0.6	0.09	0.08	10	0.37	3.5	9.8
31	1.0	—	4.8	—	0.33	—	0.1	0.09	—	0.37	—	5.7
TOTAL	192	168	136	87	27	20	13	9.2	19	79	119	345
MEAN	6.4	6	4.4	2.9	0.87	0.65	0.43	0.31	0.64	2.6	4	12
MAX	38	22	16	10	2.9	2.7	3	3.6	10	16	18	62
MIN	1.1	0.83	1.3	0.94	0.31	0.27	0.09	0.03	0.03	0.29	0.16	1.9
AC-FT	381	333	270	173	54	40	26	18	38	157	236	685

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.



CMMB – 14206395 – CEDAR MILL CREEK AT MURRAY BLVD NEAR BEAVERTON, OREGON [RM 1.64]

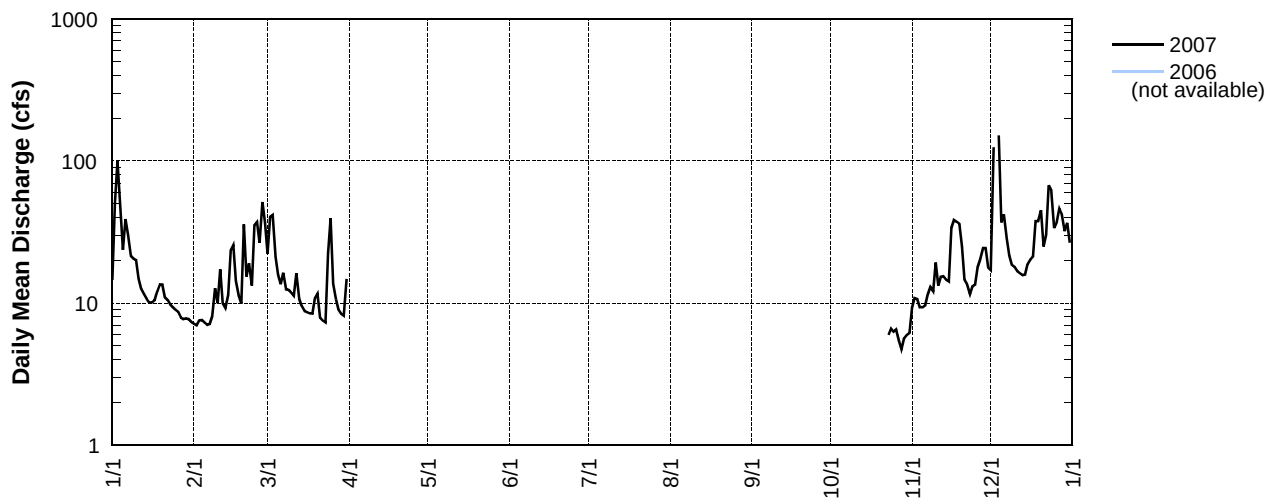
Latitude: 45 30 37 Longitude: 122 49 18

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR8	MAY*	JUN*	JUL*	AUG*	SEP*	OCT*	NOV	DEC*
1	15	7.2	22								9.3	17
2	51	7	41								11	e125
3	e100	7.6	42								11	r
4	43	7.6	21								9.4	e151
5	24	7.3	16								9.4	37
6	39	7	14								9.6	42
7	30	7.1	16								11	29
8	21	8.1	13								13	22
9	21	13	12								12	19
10	20	10	12								19	18
11	15	17	11								13	17
12	13	9.9	16								15	16
13	12	9.2	11								15	16
14	11	11	9.5								15	16
15	10	24	8.8								14	19
16	10	26	8.7								34	20
17	10	14	8.5								38	21
18	12	11	8.4								37	38
19	14	9.9	11								36	38
20	14	36	12								25	45
21	11	15	7.9								15	25
22	10	19	7.5							5.7	13	30
23	9.7	13	7.3							6	12	67
24	9.3	35	22							6.6	13	62
25	9	37	39							6.3	13	34
26	8.7	27	14							6.5	18	37
27	7.9	51	11							5.4	20	46
28	7.7	37	8.9							4.8	24	42
29	7.8	—	8.4							5.7	24	32
30	7.7	—	8.1							6	18	37
31	7.4	—	15	—		—			—		—	27
TOTAL	581	484	463								527	1145
MEAN	19	17	15								18	39
MAX	100	51	42								38	151
MIN	7.7	7	7.3								9.3	16
AC-FT	1153	960	919								1046	2272

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

CMMB — 14206395 — Cedar Mill Creek at Murray Boulevard near Beaverton, Oregon [RM 1.64]



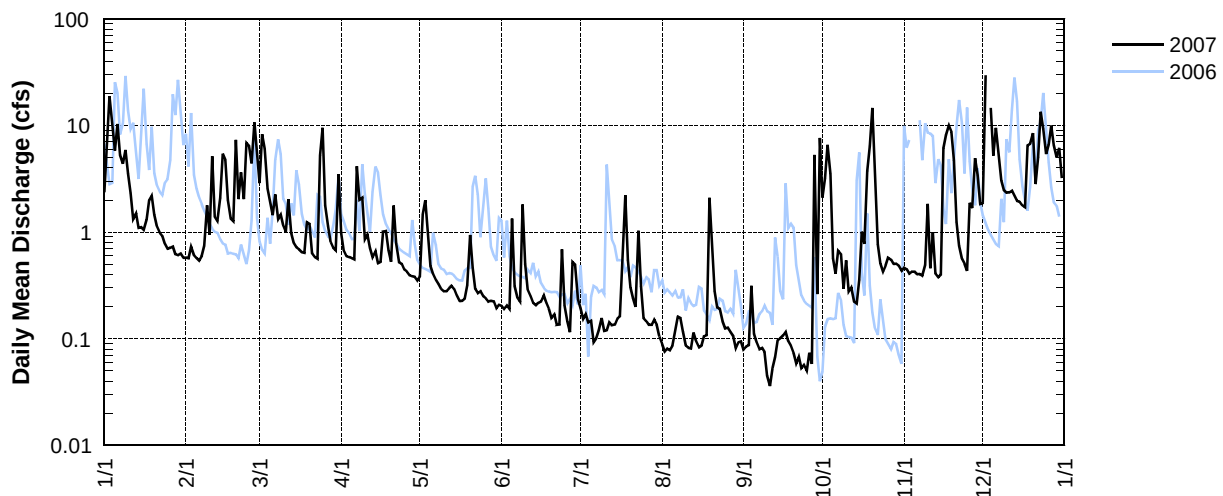
WC143 – 14206410 – WILLOW CREEK AT NW 143RD AVE NEAR BEAVERTON, OREGON [RM 3.5]

Latitude: 45 32 12 Longitude: 122 49 24

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	e2.4	0.57	2.9	0.98	0.38	0.20	0.19	0.09	0.08	2.1	0.46	1.9
2	e7.8	0.57	8.3	0.67	1.5	0.19	0.15	0.08	0.08	3.2	0.45	e30
3	e19	0.73	6.1	0.59	2.0	0.20	0.17	0.08	0.09	6.6	0.41	r
4	e10	0.61	2.6	0.58	0.92	0.19	0.14	0.08	0.31	3.5	0.42	15
5	e5.8	0.57	1.9	0.57	0.48	1.3	0.15	0.09	0.11	0.57	0.42	5.2
6	e10	0.54	1.4	0.56	0.41	0.31	0.09	0.12	0.09	0.41	0.40	9.5
7	e5.3	0.59	2.3	4.1	0.35	0.24	0.10	0.16	0.08	0.67	0.40	5.2
8	e4.4	0.74	1.3	2.0	0.33	0.22	0.12	0.16	0.08	0.62	0.39	3.0
9	e5.9	1.8	1.5	2.1	0.29	1.8	0.16	0.12	0.07	0.29	0.49	2.5
10	e3.5	0.95	1.1	0.86	0.28	0.51	0.12	0.09	0.05	0.55	1.8	2.3
11	e2.3	5.1	1.0	0.95	0.28	0.29	0.12	0.08	0.04	0.28	0.46	2.3
12	e1.3	1.4	2.0	0.71	0.30	0.25	0.14	0.08	0.05	0.30	1.0	2.4
13	e1.5	1.3	0.97	0.58	0.31	0.22	0.13	0.11	0.07	0.22	0.41	2.2
14	e1.1	2.1	0.79	0.67	0.29	0.21	0.14	0.09	0.10	0.21	0.38	2.0
15	e1.1	5.4	0.72	0.51	0.25	0.22	0.15	0.08	0.10	0.36	0.4	1.9
16	e1.0	4.8	0.69	0.53	0.23	0.22	0.16	0.09	0.11	1.0	6.1	1.8
17	e1.3	2.0	0.65	1.0	0.23	0.26	0.51	0.11	0.12	0.77	8.1	1.7
18	e2.0	1.3	0.64	1.0	0.24	0.22	2.2	0.11	0.09	3.7	10	6.5
19	e2.2	1.3	1.2	0.68	0.32	0.19	0.55	2.1	0.09	6.4	8.7	6.7
20	e1.4	7.3	1.2	0.53	0.94	0.16	0.3	0.76	0.07	15	4.6	8.5
21	e1.1	2.0	0.63	1.8	0.46	0.17	0.24	0.28	0.06	2.7	1.3	2.8
22	e0.98	3.6	0.58	0.78	0.29	0.14	0.2	0.20	0.07	0.77	0.75	5.0
23	e0.92	2.0	0.56	0.52	0.27	0.14	1.0	0.19	0.05	0.51	0.56	13
24	0.77	6.9	5.2	0.51	0.28	0.69	0.31	0.15	0.06	0.43	0.50	9.3
25	0.7	6.4	9.5	0.44	0.25	0.20	0.16	0.12	0.05	0.48	0.43	5.4
26	e0.71	4.4	1.8	0.43	0.24	0.14	0.15	0.13	0.07	0.58	1.9	6.6
27	0.73	11	1.1	0.39	0.22	0.11	0.13	0.12	0.06	0.55	1.7	10
28	0.62	5.7	0.81	0.39	0.23	0.52	0.13	0.11	5.3	0.50	4.9	6.5
29	0.61	—	0.71	0.38	0.22	0.49	0.15	0.08	0.26	0.51	3.4	5.0
30	0.63	—	0.67	0.35	0.19	0.23	0.14	0.09	7.6	0.48	1.8	6.2
31	0.57	—	3.5	—	0.21	—	0.11	0.09	—	0.43	—	3.2
TOTAL	98	82	64	26	13	10	8.5	6.2	15	55	63	184
MEAN	3.2	2.9	2	0.87	0.43	0.34	0.28	0.21	0.52	1.8	2.1	6.2
MAX	19	11	9.5	4.1	2	1.8	2.2	2.1	7.6	15	10	30
MIN	0.61	0.54	0.56	0.35	0.19	0.11	0.09	0.08	0.04	0.21	0.38	1.7
AC-FT	194	163	127	52	26	20	17	12	30	109	125	365

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

WC143 — 14206410 — Willow Creek at 143rd Avenue near Beaverton, Oregon [RM 3.5]

WCHP – 14206413 – WILLOW CREEK AT HERITAGE PARKWAY NEAR BEAVERTON, OREGON [RM 0.75]

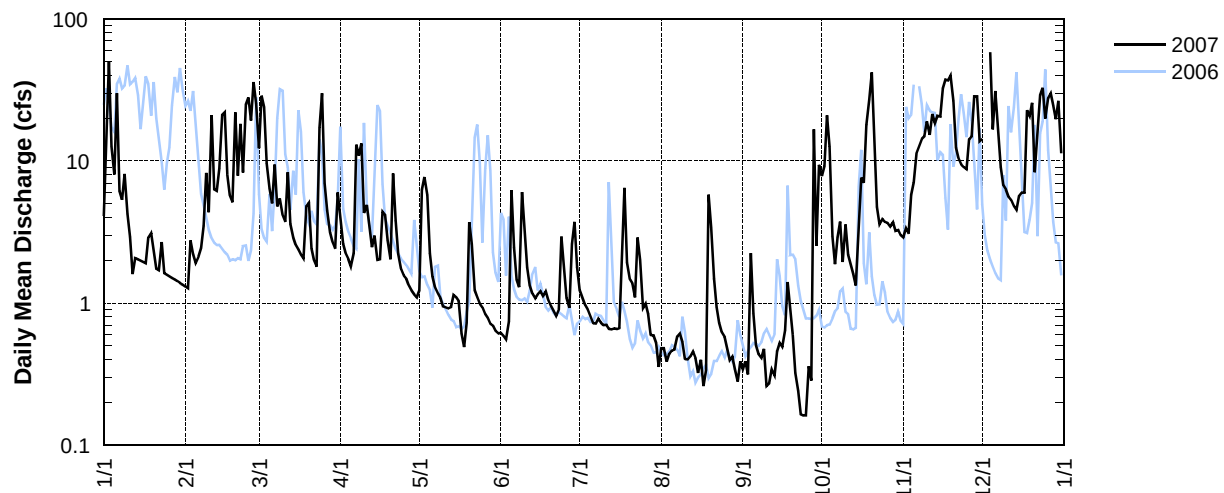
Latitude: 45 31 12 Longitude: 122 51 35

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	e4.1	e1.3	12	4.1	1.2	0.62	1.2	0.48	0.34	7.8	2.9	14
2	e12	e1.3	e29	2.6	6.3	0.59	1.1	0.48	0.39	e9.2	3.4	r
3	e50	e2.8	24	2.2	7.7	0.56	0.97	0.39	0.31	21	3.1	r
4	e13	e2.2	9.6	2	5.8	0.74	0.9	0.44	2.3	13	5.8	e58
5	e8.0	e1.9	6.4	1.8	2.3	6.2	0.81	0.47	0.85	3	7.1	17
6	e30	2.1	5.0	e2.3	1.5	2.5	0.72	0.47	0.51	1.9	12	e31
7	e6.2	2.4	9.4	e13	1.3	1.5	0.72	0.58	0.44	2.9	13	18
8	e5.3	3.5	4.8	11	1.2	1.3	0.78	0.61	0.41	3.7	14	9.0
9	e8.1	8.2	5.4	13	1.1	6.0	0.73	0.53	0.48	2	15	6.7
10	e4.2	4.4	4.1	4.3	0.95	3.3	0.70	0.40	0.26	3.6	19	6.3
11	e2.9	e21	3.7	4.9	0.94	1.8	0.70	0.40	0.27	2.2	15	5.6
12	e1.6	6.3	8.3	3.5	0.92	1.3	0.66	0.42	0.34	1.9	21	5.3
13	e2.1	6.2	3.6	2.5	0.94	1.2	0.65	0.46	0.31	1.6	19	4.8
14	e2.0	8.9	2.9	3.0	1.1	1.1	0.67	0.41	0.46	1.3	21	4.5
15	e2.0	21	2.5	2.0	1.1	1.2	0.66	0.32	0.52	3.6	21	5.7
16	e2.0	22	2.4	2.0	1.0	1.2	0.67	0.40	0.49	7.6	e32	6.0
17	e1.9	8	2.2	4.4	0.61	1.1	2.3	0.26	0.64	7.0	e37	6.0
18	e2.9	5.7	2.1	4.2	0.49	1.2	6.5	0.34	1.4	e18	e37	23
19	e3.1	5.1	4.8	2.8	0.73	1.1	1.9	5.8	0.91	e27	e40	21
20	e2.3	e22	5.1	2.0	3.7	0.96	1.5	3.4	0.60	e42	e27	e26
21	e1.8	7.8	2.4	8.2	2.6	0.88	1.4	1.5	0.32	12	12	8.3
22	e1.7	18	2.0	3.8	1.2	0.81	1.1	0.94	0.24	4.7	10	17
23	e2.7	8.3	1.8	2.2	1.1	0.91	2.9	0.73	0.17	3.6	9.5	e29
24	e1.6	e25	e17	1.7	0.99	2.9	2.0	0.62	0.16	3.9	9.1	e33
25	e1.6	28	e30	1.6	0.93	1.7	0.92	0.58	0.16	3.7	8.8	20
26	e1.6	19	7.0	1.5	0.83	1.1	1.0	0.48	0.36	3.7	14	28
27	e1.5	36	4.5	1.3	0.79	0.92	0.84	0.40	0.28	3.5	15	e30
28	e1.5	25	3.1	1.2	0.72	2.6	0.59	0.42	17	3.7	e28	e25
29	e1.4	—	2.7	1.1	0.69	3.7	0.59	0.34	2.5	3.2	e28	20
30	e1.4	—	2.4	1.1	0.64	1.8	0.53	0.28	e9.4	3.3	14	27
31	e1.4	—	e6.0	—	0.61	—	0.36	0.39	—	3.0	—	11
TOTAL	e182	323	226	111	52	53	37	24	43	229	514	516
MEAN	e6.0	12	7.3	3.7	1.7	1.8	1.2	0.78	1.4	7.5	17	18
MAX	e50	36	30	13	7.7	6.2	6.5	5.8	17	42	40	58
MIN	e1.4	1.3	1.8	1.1	0.49	0.56	0.53	0.26	0.16	1.3	2.9	4.5
AC-FT	e361	641	448	220	103	105	73	48	85	454	1020	1024

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

WCHP — 14206413 — Willow Creek at Heritage Parkway near Beaverton, Oregon [RM 0.75]



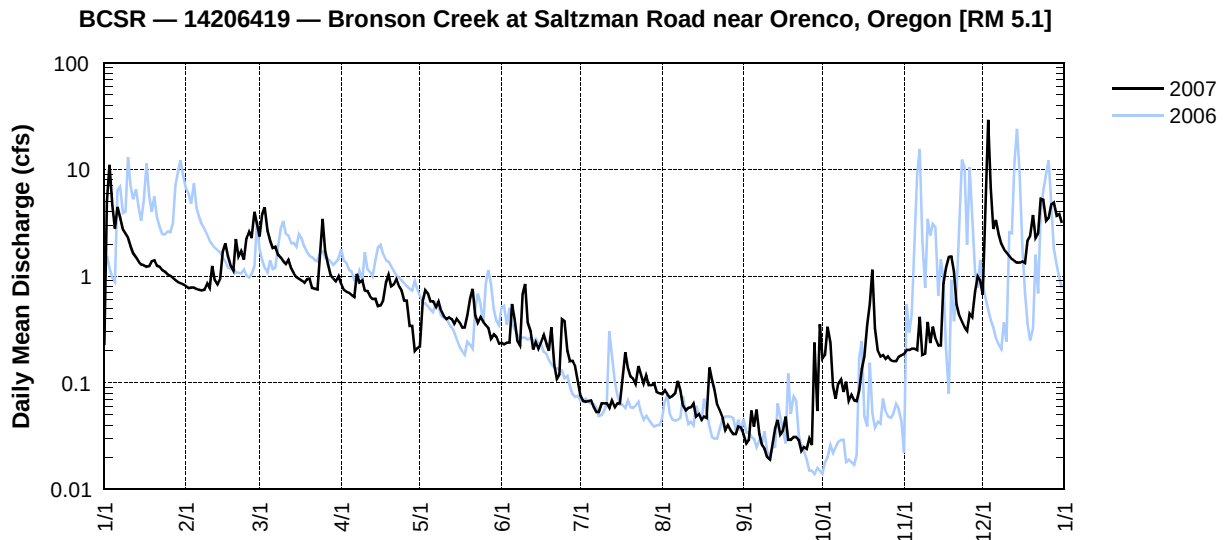
BCSR – 14206419 – BRONSON CREEK AT SALTZMAN ROAD NEAR ORENCO, OREGON [RM 5.1]

Latitude: 45 33 19 Longitude: 122 48 25

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.23	0.80	2.4	0.84	e0.22	0.24	0.08	0.08	0.03	0.17	0.19	0.67
2	5.0	0.77	3.8	0.74	e0.58	0.23	0.07	0.08	0.03	0.18	0.20	4.9
3	11	0.78	4.4	0.71	e0.74	0.24	0.07	0.08	0.03	0.33	0.20	29
4	4.6	0.78	2.7	0.70	e0.69	0.24	0.07	0.07	0.05	0.24	0.21	6.7
5	2.8	0.76	2.1	0.66	e0.58	0.55	0.07	0.07	0.04	0.09	0.21	2.8
6	4.4	0.75	1.8	0.63	e0.58	0.40	0.06	0.08	0.06	0.07	0.20	3.4
7	3.6	0.73	1.9	1.0	e0.51	0.25	0.05	0.10	0.03	0.10	0.42	2.4
8	2.7	0.74	1.6	0.87	e0.58	0.22	0.05	0.08	0.03	0.11	0.18	2.0
9	2.5	0.85	1.5	0.91	0.47	0.67	0.06	0.06	0.02	0.08	0.19	1.8
10	2.3	0.77	1.4	0.73	0.42	0.84	0.06	0.06	0.02	0.10	0.37	1.7
11	1.9	1.3	1.3	0.72	0.40	0.37	0.06	0.06	0.02	0.07	0.24	1.6
12	1.6	0.92	1.4	0.65	0.41	0.30	0.06	0.06	0.03	0.08	0.33	1.4
13	1.5	0.84	1.2	0.61	0.40	0.21	0.07	0.06	0.04	0.07	0.26	1.4
14	1.4	0.96	1.1	0.61	0.36	0.24	0.06	0.05	0.05	0.07	0.22	1.3
15	1.3	1.7	0.98	0.52	0.40	0.21	0.06	0.05	0.03	0.09	0.22	1.3
16	1.3	2.0	0.94	0.53	0.37	0.24	0.06	0.05	0.04	0.13	0.85	1.4
17	1.2	1.5	0.91	e0.59	0.33	0.28	0.11	0.05	0.05	0.18	1.2	1.3
18	1.2	1.2	0.87	e0.87	0.33	0.24	0.19	0.05	0.03	0.35	1.5	2.2
19	1.4	1.1	0.94	e1.0	0.42	0.20	0.14	0.14	0.03	0.55	1.5	2.4
20	1.4	2.2	0.95	e0.80	0.62	0.33	0.11	0.11	0.03	1.2	1.1	3.8
21	1.3	1.5	0.77	e0.84	0.76	0.15	0.11	0.09	0.03	0.33	0.55	2.3
22	1.2	1.7	0.76	e0.94	0.43	0.11	0.10	0.06	0.03	0.2	0.43	2.5
23	1.1	1.4	0.75	e0.80	0.37	0.12	0.14	0.05	0.02	0.18	0.37	5.3
24	1.1	2.3	1.5	e0.73	0.41	0.39	0.12	0.05	0.02	0.18	0.33	5.2
25	1.0	2.6	3.4	e0.59	0.37	0.38	0.10	0.04	0.02	0.17	0.31	3.3
26	1.0	2.3	1.7	e0.59	0.35	0.20	0.12	0.04	0.03	0.18	0.45	3.5
27	0.96	4.0	1.3	e0.34	0.33	0.16	0.10	0.04	0.03	0.16	0.41	4.7
28	0.91	3.1	1.0	e0.34	0.26	0.16	0.10	0.03	0.24	0.16	0.72	4.9
29	0.88	—	0.95	e0.20	0.28	0.14	0.10	0.03	0.05	0.16	0.99	3.7
30	0.86	—	0.89	e0.21	0.27	0.10	0.08	0.04	0.35	0.17	0.90	3.8
31	0.83	—	1.0	—	0.23	—	0.08	0.04	—	0.18	—	3.2
TOTAL	64	40	48	20	13	8.4	2.7	2	1.5	6.3	15	116
MEAN	2.1	1.4	1.6	0.68	0.44	0.28	0.09	0.06	0.05	0.21	0.51	3.8
MAX	11	4	4.4	1.0	0.76	0.84	0.19	0.14	0.35	1.2	1.5	29
MIN	0.23	0.73	0.75	0.2	0.22	0.10	0.05	0.03	0.02	0.07	0.18	0.67
AC-FT	127	79	95	40	26	17	5.4	4	3	13	30	230

e=estimated value



BCBR – 14206423 – BRONSON CREEK AT BRONSON ROAD NEAR ORENCO, OREGON [RM 2.1]

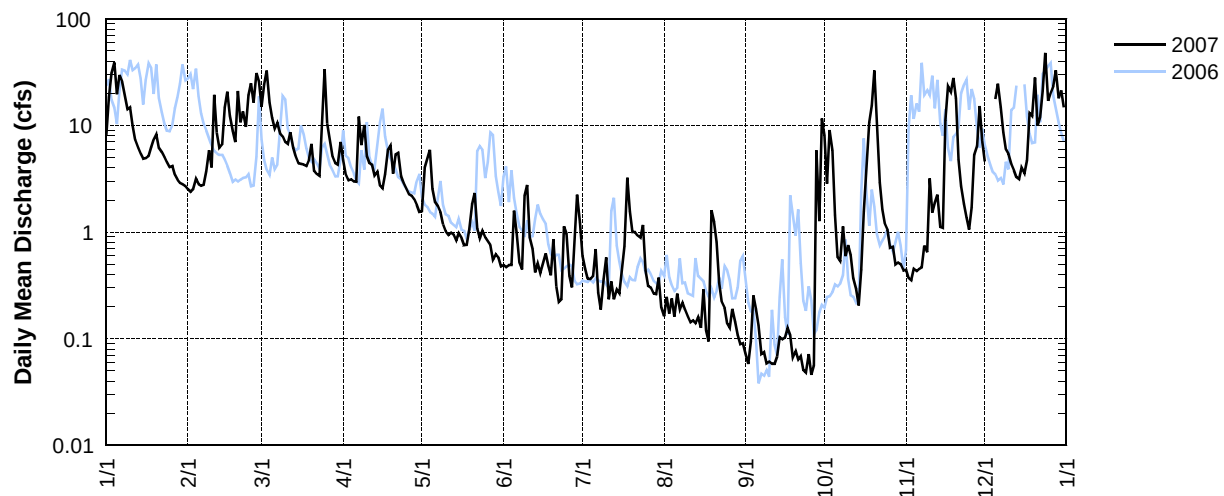
Latitude: 45 32 18 Longitude: 122 51 15

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	e8.2	2.5	15	4.7	1.6	0.49	0.59	0.16	0.07	8.1	0.44	4.6
2	e18	2.4	24	3.5	4.0	0.47	0.46	0.25	0.06	2.8	0.37	r
3	e31	2.5	33	3.1	4.9	0.49	0.36	0.17	0.09	9.0	0.35	r
4	e39	3.1	16	3.1	5.9	0.49	0.36	0.24	0.25	5.8	0.45	r
5	e20	2.8	12	3.0	2.5	1.6	0.39	0.16	0.19	1.4	0.43	18
6	e30	2.7	9.4	3.0	1.9	0.99	0.69	0.27	0.13	0.58	0.45	25
7	e26	2.8	11	12	1.7	0.51	0.27	0.19	0.07	0.53	0.47	15
8	19	3.7	8.4	6.6	1.5	0.44	0.19	0.22	0.08	1.1	0.75	8.7
9	14	5.9	7.9	10	1.2	2.2	0.36	0.19	0.06	0.59	0.64	5.9
10	15	4.0	7.0	5.2	1.0	2.8	0.58	0.16	0.06	0.75	3.2	5.4
11	10	19	6.7	4.5	0.94	0.89	0.24	0.14	0.06	0.61	1.5	4.3
12	7.3	8.6	8.6	4.3	0.98	0.69	0.34	0.15	0.06	0.37	1.9	3.8
13	6.2	6.2	6.1	3.4	0.95	0.42	0.23	0.14	0.07	0.29	2.2	3.3
14	5.4	6.7	5.1	3.7	0.83	0.51	0.29	0.16	0.10	0.21	1.1	3.1
15	4.9	15	4.4	2.7	0.97	0.41	0.27	0.13	0.10	0.44	1.1	4.0
16	4.9	21	4.3	2.6	0.87	0.51	0.43	0.29	0.10	1.6	11	3.5
17	5.2	12	4.3	3.5	0.75	0.63	0.74	0.12	0.13	3.4	23	4.7
18	6.2	8.9	4.2	5.9	0.76	0.48	3.2	0.09	0.11	11	20	13
19	7.4	7.0	4.8	6.5	1.1	0.39	1.6	1.6	0.07	15	28	12
20	8.3	21	6.8	3.5	1.8	0.86	1.0	1.3	0.08	e33	18	28
21	6.1	11	3.8	5.4	2.3	0.31	1.0	0.81	0.06	9.9	4.8	9.9
22	5.6	14	3.5	5.5	1.1	0.22	0.93	0.34	0.07	2.9	2.7	e12
23	5.1	9.7	3.4	3.4	0.87	0.24	0.88	0.22	0.05	1.6	1.8	e21
24	4.5	19	10	2.9	1.0	1.1	1.2	0.19	0.05	1.2	1.4	48
25	4.1	25	34	2.5	0.89	0.97	0.44	0.14	0.07	1.0	1.1	17
26	4.2	16	11	2.3	0.82	0.39	0.31	0.13	0.05	0.71	1.7	20
27	3.4	31	7.1	2.2	0.75	0.3	0.30	0.19	0.06	0.73	5.3	23
28	3.1	26	5.1	2.0	0.55	0.8	0.27	0.14	5.8	0.50	6.4	33
29	2.9	—	4.4	1.8	0.62	2.3	0.26	0.11	1.3	0.52	15	18
30	2.8	—	4.3	1.5	0.58	1.2	0.37	0.09	12	0.50	7.1	21
31	2.7	—	7.0	—	0.48	—	0.20	0.09	—	0.44	—	15
TOTAL	331	310	293	124	46	24	19	8.6	21	117	163	400
MEAN	11	11	9.5	4.1	1.5	0.8	0.62	0.28	0.72	3.9	5.4	14
MAX	39	31	34	12	5.9	2.8	3.2	1.6	12	33	28	48
MIN	2.8	2.4	3.4	1.5	0.55	0.22	0.19	0.09	0.05	0.21	0.35	3.1
AC-FT	657	615	581	246	91	48	38	17	42	232	323	794

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

BCBR — 14206423 — Bronson Creek at Bronson Road near Orenco, Oregon [RM 2.1]



BVTS – 14206435 – BEAVERTON CREEK AT NE GUSTON COURT NEAR ORENCO, OREGON [RM 1.2]

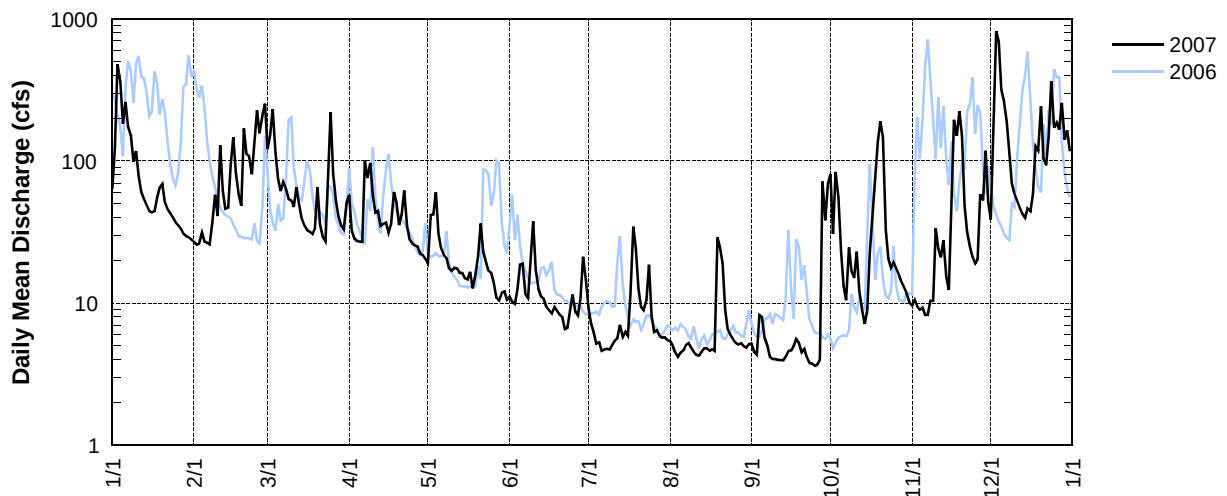
Latitude: 45 31 15 Longitude: 122 53 59

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	64	27	121	58	19	11	9.3	5.4	5.2	81	9.6	39
2	124	26	152	33	42	10	7.2	5.0	4.5	31	11	282
3	479	26	231	29	42	9.9	6.2	4.5	4.4	84	9.5	e818
4	359	31	113	27	60	13	5.2	4.2	8.2	55	9.0	e691
5	183	27	74	27	31	19	5.3	4.5	8.0	24	9.3	317
6	261	27	61	27	24	19	4.6	4.6	5.8	13	8.2	264
7	174	26	71	101	22	12	4.7	5.1	5.0	10	8.3	189
8	150	36	63	76	21	11	4.8	5.2	4.2	25	10	111
9	99	58	54	97	18	19	4.7	4.9	4.0	17	10	69
10	117	41	53	57	17	38	5.1	4.5	4.0	15	34	59
11	79	129	48	43	18	17	5.5	4.3	4.0	23	24	52
12	61	62	65	44	18	13	5.7	4.3	4.0	12	21	46
13	54	46	49	35	16	11	7.0	4.6	4.0	9.0	28	42
14	49	47	39	36	16	11	5.8	4.8	4.2	7.2	15	40
15	45	95	35	37	15	9.4	6.3	4.8	4.6	8.8	12	46
16	44	147	33	31	15	9.0	5.9	4.6	4.7	23	70	44
17	44	83	32	36	17	8.5	11	4.7	5.0	38	195	59
18	55	58	31	61	13	9.4	35	4.6	5.6	71	150	126
19	65	48	34	51	16	8.8	24	29	5.3	136	224	118
20	69	169	66	35	22	8.3	13	25	4.5	190	151	242
21	51	112	36	42	36	8.0	9.4	19	4.8	147	49	103
22	46	108	29	62	23	6.6	8.9	9	4.2	33	32	93
23	43	81	27	35	20	6.7	11	6.5	3.8	21	25	149
24	40	138	72	28	17	8.7	19	5.9	3.8	18	21	362
25	37	228	220	26	16	12	8.2	5.6	3.6	19	19	171
26	35	157	81	25	14	8.7	6.3	5.3	3.7	18	21	187
27	33	209	52	25	11	8.2	6.4	5.1	4.0	16	58	167
28	31	252	40	22	10	11	5.9	5.2	72	14	53	256
29	30	—	35	22	12	21	5.7	5.0	38	13	118	141
30	29	—	33	21	12	14	5.7	4.9	69	12	52	164
31	28	—	51	—	11	—	5.5	5.2	—	10	—	117
TOTAL	2978	2494	2101	1249	644	372	268	215	306	1194	1457	5564
MEAN	98	89	68	42	21	12	8.8	7	10	39	49	182
MAX	479	252	231	101	60	38	35	29	72	190	224	818
MIN	29	26	27	21	10	6.6	4.6	4.2	3.6	7.2	8.2	39
AC-FT	5909	4949	4169	2478	1278	738	532	427	607	2369	2891	11041

e=estimated value

BVTS — 14206435 — Beaverton Creek at NE Guston Court near Orenco, Oregon [RM 1.2]



DCBR – 14206443 – DAWSON CREEK AT BROOKWOOD ROAD NEAR HILLSBORO, OREGON [RM 0.7]

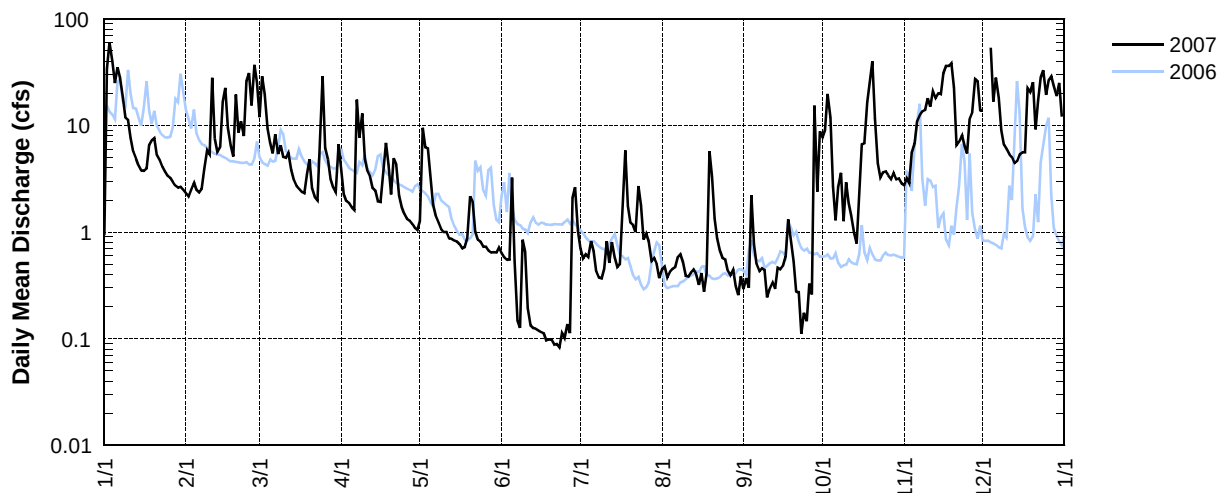
Latitude: 45 31 27 Longitude:122 56 01

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	0.93	2.3	12	3.8	1.3	0.63	0.70	e0.45	e0.29	e7.7	e2.8	e14
2	e34	2.2	e29	2.3	9.5	0.58	0.57	e0.47	e0.37	e9.1	e3.2	r
3	e60	2.5	20	2	6.2	0.55	0.62	e0.38	e0.30	e20	e2.9	r
4	e40	2.9	9.3	1.9	6.1	0.55	0.58	e0.42	e2.2	e12	e5.5	e53
5	e25	2.5	6.9	1.7	3.2	3.2	0.83	e0.45	e0.77	e2.7	e6.8	e17
6	e35	2.4	5.5	1.6	1.8	0.53	0.66	e0.47	e0.50	e1.3	e11	e28
7	e28	2.5	8.3	e17	1.4	0.15	0.43	e0.58	e0.43	e2.6	e13	e18
8	18	3.9	5.4	7.7	1.2	0.13	0.38	e0.62	e0.46	e3.6	e14	e9.0
9	12	5.8	6.5	13	1.1	0.84	0.37	e0.53	e0.44	e1.3	e14	e6.6
10	11	5.3	5.1	4.9	1.0	0.65	0.45	e0.39	e0.24	e2.9	e18	e6.0
11	7.6	e28	4.9	3.7	1.0	0.19	0.82	e0.38	e0.30	e1.9	e15	e5.3
12	5.7	7.5	5.5	3.3	0.87	0.13	0.51	e0.42	e0.34	e1.4	e21	e5.0
13	4.9	5.7	3.8	2.6	0.86	0.13	0.81	e0.45	e0.30	e0.98	e18	e4.5
14	4.2	6.3	3.1	2.4	0.84	0.12	0.58	e0.40	e0.46	e0.78	e20	e4.6
15	3.8	e17	2.7	1.9	0.82	0.12	0.47	e0.32	e0.45	e2.6	e20	e5.3
16	3.7	e22	2.5	1.9	0.77	0.12	e0.50	e0.41	e0.49	e6.6	e31	e5.6
17	4.0	9.5	2.4	3.7	0.7	0.11	e1.7	e0.28	e0.59	e6.8	e36	e5.6
18	6.6	6.4	2.3	6.8	0.72	0.10	e5.8	e0.41	e1.3	e17	e36	e22
19	7.3	5.1	3.5	4.3	0.88	0.10	e1.8	e5.7	e0.84	e25	e39	e20
20	7.6	e20	4.8	2.3	2.2	0.10	e1.2	e3.3	e0.53	e40	e23	e25
21	5.3	8.6	2.6	4.9	1.9	0.09	e1.2	e1.4	e0.28	e12	e6.6	e9.2
22	4.7	11	2.1	4.3	1.0	0.09	e1.0	e0.87	e0.27	e4.4	e7.1	e17
23	4.1	8	2.0	2.2	0.85	0.08	e2.7	e0.68	e0.11	e3.3	e8.1	e28
24	3.7	e26	e7.9	1.7	0.81	0.11	e1.8	e0.57	e0.17	e3.6	e6.5	e33
25	3.4	e31	e29	1.5	0.73	0.10	e0.85	e0.55	e0.15	e3.7	e5.5	e19
26	3.2	15	6.2	1.3	0.73	0.14	e0.97	e0.43	e0.33	e3.4	e12	e27
27	2.9	e37	4.8	1.3	0.67	0.11	e0.82	e0.39	e0.26	e3.1	e13	e29
28	2.7	e25	3.1	1.2	0.64	2.1	e0.54	e0.44	e15	e3.6	e27	e23
29	2.6	—	2.6	1.1	0.65	2.6	e0.57	e0.31	e2.4	e3.1	e26	e19
30	2.7	—	2.4	1.0	0.64	1.0	e0.50	e0.26	e8.8	e3.2	e14	e25
31	2.5	—	6.7	—	0.72	—	e0.37	e0.39	—	e2.9	—	e12
TOTAL	357	321	213	109	52	15	31	e23	e39	e213	e476	e496
MEAN	12	11	6.9	3.6	1.7	0.51	1.0	e0.76	e1.3	e7.0	e16	e17
MAX	60	37	29	17	9.5	3.2	5.8	e5.7	e15	e40	e39	e53
MIN	0.93	2.2	2.0	1.0	0.64	0.08	0.37	e0.26	e0.11	e0.78	e2.8	e4.5
AC-FT	708	637	423	216	103	30	62	e46	e77	e423	e945	e984

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

DCBR — 14206443 — Dawson Creek at Brookwood Road near Hillsboro, Oregon [RM 0.7]



RCTV – 14206450 – ROCK CREEK AT HWY 8 NEAR HILLSBORO, OREGON [RM 1.2]

Latitude: 45 30 08 Longitude: 122 56 52

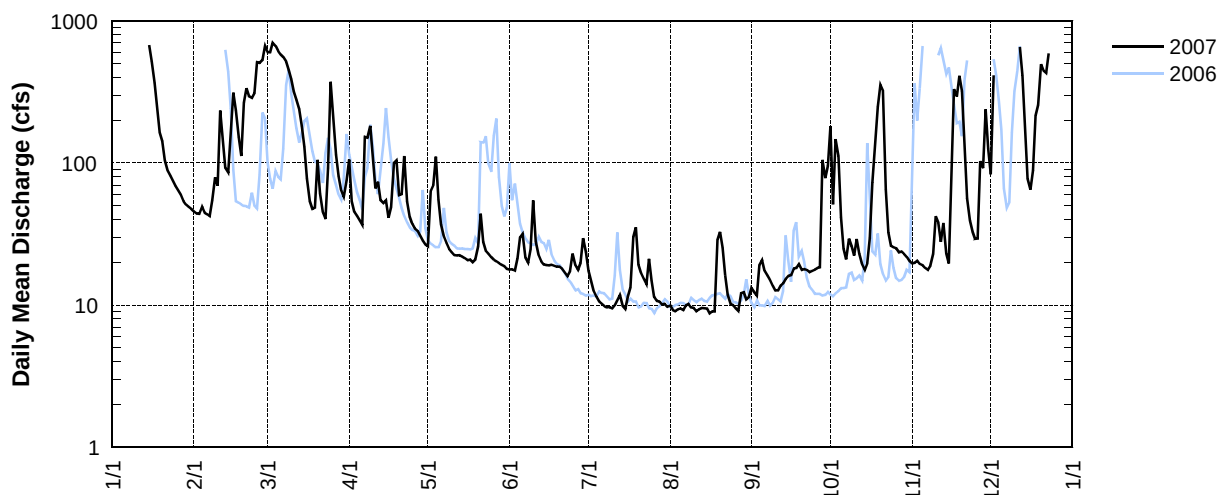
Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN*	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	r	46	599	106	26	18	17	e10	13	181	20	83
2	r	44	600	54	64	18	15	e9.3	12	51	20	e413
3	r	44	e699	45	70	18	13	e9.1	12	147	21	r
4	r	49	e666	42	111	21	11	e9.4	19	112	20	r
5	r	45	611	39	55	30	11	e9.5	21	42	19	r
6	r	44	579	36	37	32	10	e9.3	17	25	18	r
7	r	42	554	153	30	21	9.9	e10	16	21	18	r
8	r	55	517	150	27	20	9.6	e10	15	29	19	r
9	r	79	451	182	25	25	9.7	e9.6	14	26	23	r
10	r	69	389	109	24	54	e9.5	e9.6	13	22	42	r
11	r	234	317	66	23	28	10	e9.1	13	29	38	r
12	r	143	278	74	22	22	e11	e9.4	14	23	28	e655
13	r	92	238	55	22	20	e12	e9.6	14	19	38	414
14	r	85	182	52	22	19	9.9	e9.5	15	18	23	188
15	e674	160	130	54	21	19	9.4	e9.5	16	20	20	77
16	520	313	78	41	21	19	e12	e8.7	16	30	93	65
17	367	235	54	49	21	19	13	e9.0	18	73	331	89
18	241	152	48	100	20	19	30	e9.0	18	143	294	215
19	163	112	49	104	21	19	35	e29	19	249	411	255
20	142	266	105	59	26	19	19	33	18	354	321	494
21	104	336	61	60	44	18	17	25	18	322	117	444
22	88	295	45	112	28	17	15	16	18	65	56	e429
23	81	287	40	54	24	16	14	12	17	32	39	e590
24	75	311	92	42	23	17	21	10	17	26	33	m
25	69	512	373	37	22	23	15	e10	18	26	29	m
26	64	506	205	35	21	19	11	e9.5	18	25	29	m
27	59	531	114	33	20	18	11	e9.1	18	23	103	r
28	54	e667	81	31	20	20	11	12	105	24	92	r
29	51	—	64	28	19	30	10	12	78	23	239	r
30	49	—	58	27	19	24	10	11	95	22	126	r
31	47	—	76	—	18	—	9.7	11	—	20	—	r
TOTAL		5754	8353	2029	946	662	422	369	715	2222	2680	
MEAN		206	276	68	31	22	14	12	24	73	89	
MAX		667	699	182	111	54	35	33	105	354	411	
MIN		42	40	27	19	16	9.4	8.7	12	18	18	
AC-FT		11418	16575	4026	1877	1314	837	732	1419	4409	5318	

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month).

e=estimated value; m=missing value; r=rating curve exceeded.

RCTV — 14206450 — Rock Creek at Hwy 8 near Hillsboro, Oregon [RM 1.2]



FRMO – 14206500 – TUALATIN RIVER AT FARMINGTON, OREGON [RM 33.3]

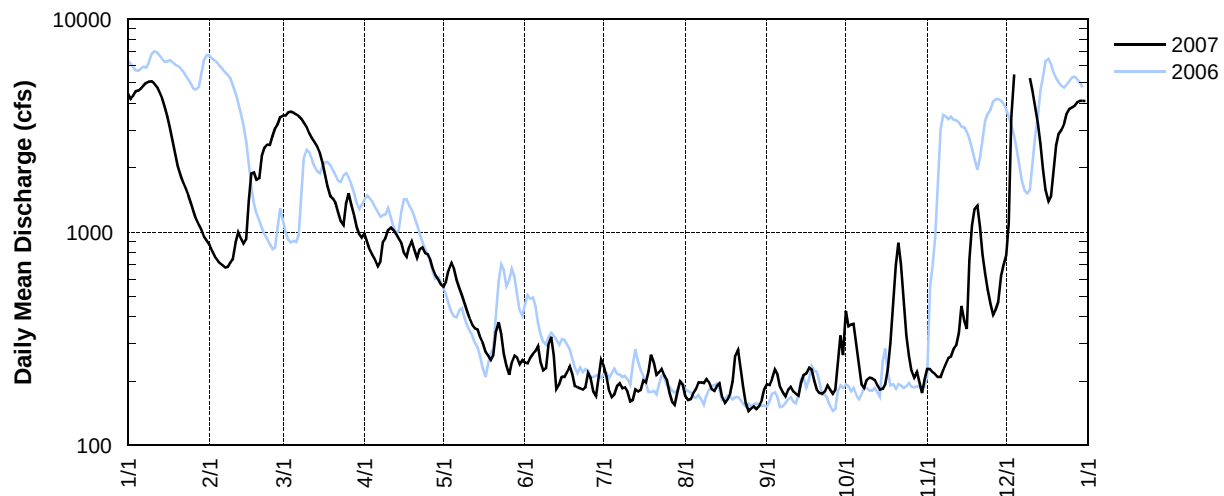
Latitude: 45 26 58 Longitude: 122 57 02

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	4469	872	3520	985	553	244	236	170	194	427	228	776
2	4210	816	3522	895	586	243	210	163	192	362	228	1102
3	4364	771	3636	825	663	257	180	165	205	369	220	3464
4	4572	744	3671	779	717	269	168	176	226	371	216	e5480
5	4612	715	3626	743	674	278	173	184	215	291	209	r
6	4725	698	3565	691	600	292	190	197	188	236	209	r
7	4861	682	3494	728	551	245	195	197	178	193	226	r
8	5000	686	3402	898	506	225	185	196	170	186	242	r
9	5066	721	3249	937	466	230	187	205	182	203	257	r
10	5079	745	3086	1022	427	301	179	198	188	208	261	5270
11	4995	895	2903	1047	393	323	161	184	179	206	284	4595
12	4808	997	2749	1016	369	265	163	180	175	203	295	3917
13	4549	934	2640	981	353	184	183	190	171	191	336	3245
14	4231	884	2511	932	350	194	179	195	197	183	450	2591
15	3875	930	2351	886	321	210	182	169	214	184	384	1971
16	3499	1403	2125	796	303	209	201	158	217	194	351	1567
17	3099	1893	1870	764	274	220	197	164	231	227	743	1397
18	2697	1912	1641	854	263	235	221	175	226	301	1067	1466
19	2329	1763	1471	907	251	216	266	199	201	470	1284	1960
20	2044	1794	1426	821	265	190	244	264	183	699	1329	2552
21	1857	2280	1371	758	339	188	214	281	176	892	1063	2897
22	1716	2495	1243	831	377	185	220	231	175	710	784	3027
23	1603	2567	1127	847	332	183	228	188	179	479	642	3220
24	1487	2560	1083	796	268	187	213	158	191	328	539	3603
25	1368	2817	1356	789	237	218	201	145	183	264	460	3784
26	1254	3060	1522	742	214	207	176	149	175	223	410	3851
27	1154	3200	1352	673	246	178	160	152	183	208	434	3914
28	1080	3457	1199	627	264	170	155	148	250	221	471	4056
29	1018	—	1062	597	258	207	179	152	328	198	622	4117
30	950	—	981	568	240	252	200	163	265	176	702	4123
31	910	—	944	—	251	—	193	184	—	204	—	e4110
TOTAL	97481	43291	69698	24735	11911	6805	6039	5680	6037	9607	14946	87797
MEAN	3219	1546	2292	825	389	227	195	183	201	313	498	3219
MAX	5079	3457	3671	1047	717	323	266	281	328	892	1329	5742
MIN	950	682	981	568	214	170	155	145	170	176	209	776
AC-FT	193434	85904	138304	49082	23635	13503	11983	11271	11979	19063	29658	174218

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

FRMO — 14206500 — Tualatin River at Farmington, Oregon [RM 33.3]



CCSR – 14206750 – CHICKEN CREEK AT SCHOLLS-SHERWOOD ROAD NEAR SHERWOOD, OREGON [RM 2.3]

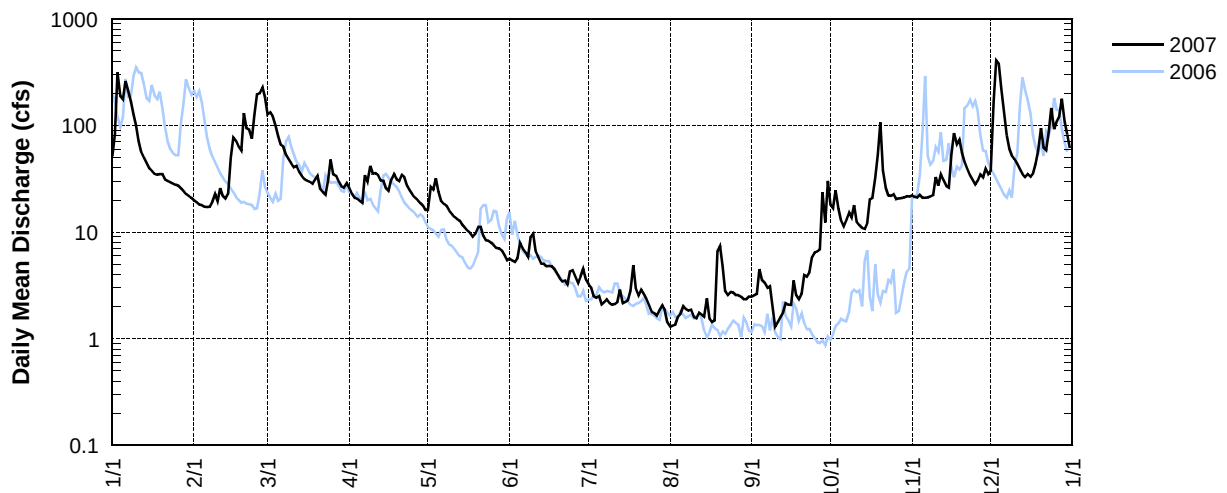
Latitude: 45 22 31 Longitude: 122 51 24

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	51	20	127	26	16	5.6	3.2	1.3	2.5	e18	22	38
2	e83	19	132	23	27	5.5	3.0	1.3	2.6	e17	21	e166
3	e313	18	122	21	25	5.3	2.5	1.4	2.6	e25	21	e407
4	e188	18	99	21	32	5.7	2.4	1.6	4.5	e16	22	e381
5	e176	17	79	20	24	7.9	2.5	1.7	3.5	e13	21	e221
6	e260	17	66	19	20	7.0	2.1	2.0	3.4	e11	21	e141
7	e213	17	63	34	18	6.5	2.2	1.9	3.0	e13	21	81
8	e168	19	53	30	18	5.8	2.3	1.8	3.1	e15	22	61
9	127	23	48	42	16	9.0	2.2	1.9	2.1	e14	22	52
10	100	20	44	36	15	9.6	2.1	1.6	1.3	e18	33	48
11	71	26	41	36	14	6.6	2.1	1.6	1.4	e13	27	43
12	56	22	42	34	13	5.7	2.2	1.7	1.6	12	35	39
13	49	21	36	31	13	5.0	2.9	1.7	1.8	11	31	35
14	44	23	34	30	12	5.0	2.2	1.6	2.1	11	27	33
15	40	50	31	26	11	4.8	2.2	2.4	2.1	12	26	35
16	38	77	30	24	10	4.8	2.3	1.5	e2.1	20	53	33
17	35	72	30	31	9.8	4.8	2.8	1.4	e3.5	21	85	36
18	34	63	28	35	9.1	4.5	4.9	1.5	e2.5	32	67	44
19	35	58	31	31	9.7	4.1	2.9	6.6	e2.3	53	74	58
20	35	e131	34	30	11	3.7	2.5	7.4	e2.7	107	55	94
21	31	95	26	34	11	3.4	2.9	4.8	e3.9	38	45	62
22	30	92	24	33	9.2	3.5	2.6	2.8	e3.8	26	39	59
23	29	75	22	27	8.4	3.2	2.3	2.6	e4.2	22	34	e86
24	29	e127	31	25	8.3	4.3	2.1	2.7	e5.8	22	31	e146
25	28	e197	48	23	8.0	4.4	1.8	2.7	e6.5	23	28	93
26	27	e200	35	21	7.5	3.8	1.7	2.6	e6.6	20	30	109
27	26	e228	34	20	7.1	3.3	1.7	2.6	e6.9	21	35	e122
28	24	e183	30	19	7.0	3.9	1.9	2.5	e24	21	32	e178
29	23	—	27	18	6.7	4.5	2.0	2.4	e12	21	39	108
30	22	—	26	16	6.1	3.6	1.9	2.3	e30	22	35	82
31	21	—	29	—	5.4	—	1.4	2.5	—	21	—	61
TOTAL	2406	1928	1502	816	408	155	74	74	154	709	1054	3152
MEAN	80	69	49	27	13	5.2	2.4	2.4	5.1	23	35	103
MAX	313	228	132	42	32	9.6	4.9	7.4	30	107	85	407
MIN	22	17	22	16	6.1	3.2	1.7	1.3	1.3	11	21	33
AC-FT	4774	3826	2980	1619	810	308	147	147	306	1407	2091	6255

e=estimated value

CCSR — 14206750 — Chicken Creek at Scholls-Sherwood Road near Sherwood, Oregon [RM 2.3]

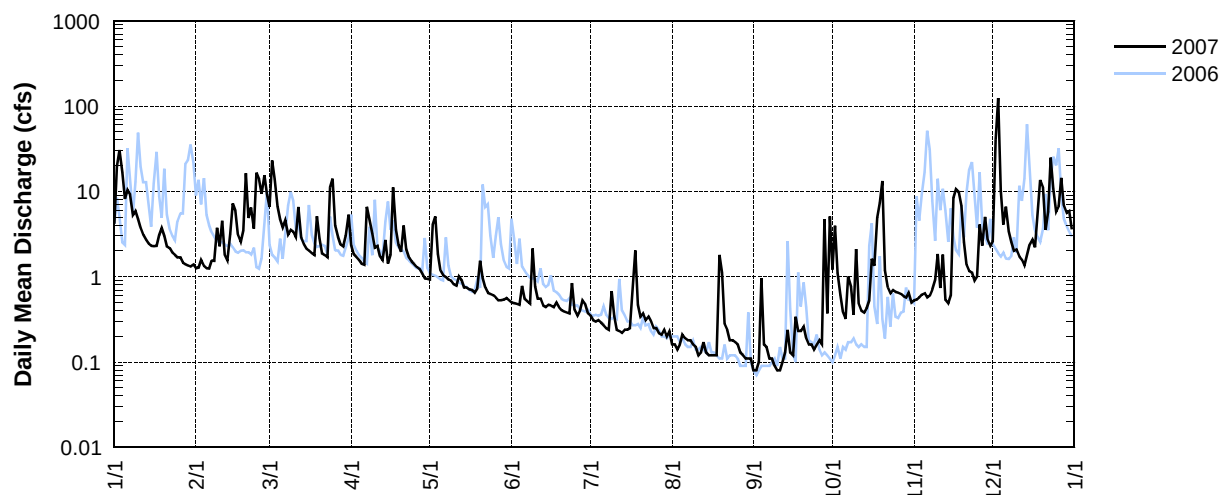


STATION NUMBER 14206900 FANNO CREEK AT 56TH AVENUE

LATITUDE: 452917 LONGITUDE: 1224401 DRAINAGE AREA: 2.37

Discharge, Cubic Feet per Second, Calendar Year January to December 2007 Daily Mean Values

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	4.2	1.3	6.6	2.3	0.93	0.50	0.35	0.16	0.08	1.2	0.53	2.6
2	20	1.3	23	1.8	4.1	0.49	0.31	0.16	0.08	3.9	0.54	40
3	30	1.6	14	1.7	5.1	0.48	0.30	0.14	0.10	1.1	0.57	124
4	17	1.3	6.6	1.6	1.9	0.47	0.31	0.16	0.96	0.61	0.62	10
5	8.2	1.3	4.7	1.4	1.2	0.78	0.29	0.21	0.16	0.38	0.64	4.1
6	10	1.2	3.8	1.4	1.1	0.55	0.27	0.19	0.15	0.32	0.57	6.6
7	9.1	1.5	4.6	6.6	0.99	0.51	0.25	0.18	0.11	1.00	0.60	3.4
8	5.3	1.5	3.1	4.7	0.93	0.48	0.24	0.18	0.11	0.77	0.71	2.5
9	5.9	3.8	3.5	3.2	0.90	2.1	0.68	0.16	0.09	0.36	0.92	2.0
10	4.7	2.3	3.4	2.2	0.82	0.77	0.35	0.15	0.08	2.1	1.9	2.1
11	3.7	4.6	2.9	2.3	0.79	0.55	0.24	0.12	0.08	0.48	0.74	1.7
12	3.1	1.8	6.6	1.7	1.0	0.55	0.23	0.13	0.10	0.40	1.8	1.6
13	2.7	1.6	2.9	1.6	0.92	0.46	0.22	0.17	0.13	0.38	0.54	1.4
14	2.5	3.2	2.4	2.7	0.75	0.44	0.24	0.13	0.24	0.43	0.49	1.8
15	2.3	7.2	2.1	1.4	0.75	0.47	0.24	0.12	0.13	0.53	0.61	2.4
16	2.3	6.0	2.0	1.8	0.71	0.46	0.25	0.12	0.12	1.6	8.4	2.7
17	2.3	3.1	1.9	11	0.70	0.44	0.76	0.12	0.34	1.3	11	2.2
18	3.1	2.5	1.8	3.6	0.65	0.50	2.0	0.12	0.23	4.9	9.8	5.9
19	3.7	3.5	5.1	2.4	0.73	0.44	0.47	1.8	0.23	7.3	6.8	14
20	3.0	16	2.8	2.0	1.5	0.41	0.34	1.1	0.26	13	2.5	11
21	2.3	4.8	1.9	4.0	0.96	0.39	0.37	0.28	0.19	1.2	1.4	3.5
22	2.2	6.5	1.8	2.1	0.75	0.38	0.31	0.24	0.16	0.75	1.2	5.8
23	1.9	3.7	1.7	1.7	0.65	0.37	0.34	0.18	0.16	0.64	1.1	25
24	1.8	17	11	1.5	0.63	0.84	0.30	0.18	0.14	0.70	0.90	11
25	1.7	14	14	1.4	0.61	0.41	0.25	0.17	0.16	0.66	1.0	5.9
26	1.7	9.4	4.0	1.3	0.57	0.35	0.25	0.16	0.18	0.65	4.1	6.8
27	1.5	16	2.9	1.2	0.53	0.40	0.22	0.13	0.16	0.63	2.3	14
28	1.4	9.2	2.4	1.1	0.53	0.53	0.21	0.12	4.7	0.59	5.0	6.8
29	1.4	—	2.2	0.95	0.54	0.48	0.24	0.11	0.37	0.57	2.7	5.6
30	1.3	—	3.0	0.94	0.56	0.37	0.20	0.11	5.1	0.65	2.3	5.9
31	1.4	—	5.4	—	0.53	—	0.23	0.11	—	0.50	—	3.6
TOTAL	161.7	147.2	154.1	73.59	33.33	16.37	11.26	7.41	15.10	49.60	72.28	335.9
MEAN	5.22	5.26	4.97	2.45	1.08	0.55	0.36	0.24	0.50	1.60	2.41	10.8
MAX	30	17	23	11	5.1	2.1	2.0	1.8	5.1	13	11	124
MIN	1.3	1.2	1.7	0.94	0.53	0.35	0.20	0.11	0.08	0.32	0.49	1.4
AC-FT	321	292	306	146	66	32	22	15	30	98	143	666

[†] Provisional data—subject to revision**6900 — 14206900 — Fanno Creek at 56th Avenue [RM 11.9]**

SCRL – 14206905 – SYLVAN CREEK AT RALEIGHWOOD LANE NEAR WEST SLOPE, OREGON [RM 1.0]

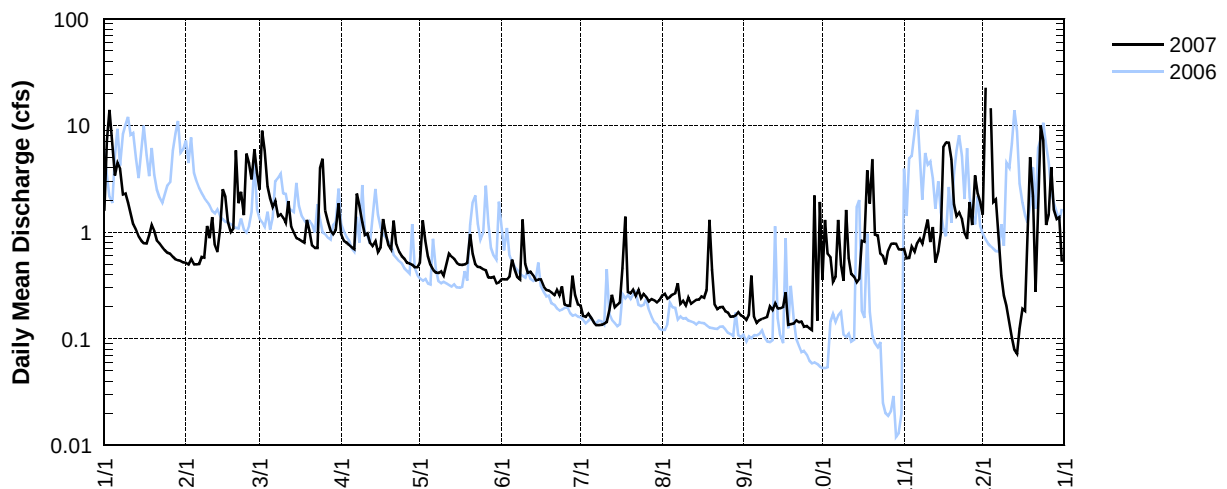
Latitude: 45 29 35 Longitude: 122 44 48

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	1.6	0.51	2.5	0.95	0.52	0.36	0.21	0.25	0.16	0.35	0.69	1.5
2	e7.3	0.50	9.0	0.83	1.3	0.36	0.16	0.26	0.15	e1.3	0.57	e22
3	e14	0.56	5.8	0.80	0.83	0.36	0.16	0.24	0.17	0.63	0.57	r
4	6.7	0.50	2.7	0.76	0.59	0.38	0.17	0.25	0.39	0.58	0.73	e15
5	3.4	0.50	2.1	0.72	0.49	0.55	0.16	0.26	0.16	0.34	0.65	1.9
6	4.5	0.50	1.7	0.69	0.44	0.45	0.14	0.27	0.14	0.38	0.79	2.0
7	3.9	0.58	2.0	2.3	0.42	0.37	0.13	0.33	0.15	1.3	0.86	0.78
8	2.3	0.58	1.4	1.8	0.41	0.36	0.13	0.21	0.15	0.49	0.78	0.39
9	2.3	1.1	1.5	1.2	0.43	1.3	0.13	0.23	0.16	0.35	1.0	0.25
10	1.9	0.88	1.4	0.94	0.39	0.51	0.14	0.20	0.16	1.6	1.3	0.20
11	1.5	1.4	1.2	0.97	0.50	0.42	0.14	0.24	0.20	0.57	0.8	0.14
12	1.2	0.75	1.9	0.80	0.63	0.42	0.18	0.21	0.19	0.40	1.1	0.10
13	1.0	0.65	1.1	0.74	0.59	0.39	0.26	0.22	0.22	0.38	0.52	0.08
14	0.91	1.1	0.98	0.82	0.56	0.35	0.20	0.23	0.19	0.34	0.65	0.07
15	0.83	2.5	0.87	0.65	0.51	0.36	0.21	0.23	0.19	0.37	0.98	0.13
16	0.78	2.2	0.86	0.72	0.49	0.36	0.22	0.25	0.20	0.83	6.3	0.19
17	0.78	1.2	0.83	1.3	0.49	0.31	0.46	0.24	0.27	0.81	6.9	0.18
18	0.93	1.0	0.8	0.95	0.50	0.29	1.4	0.29	0.14	3.8	6.8	1.0
19	1.2	1.1	1.3	0.75	0.51	0.28	0.27	1.3	0.14	1.9	4.8	5.0
20	1.0	e5.8	1.0	0.68	0.96	0.27	0.27	0.45	0.14	e4.8	1.8	2.2
21	0.84	1.9	0.75	1.3	0.62	0.26	0.29	0.21	0.15	0.95	1.4	0.28
22	0.78	2.4	0.71	0.77	0.50	0.29	0.25	0.19	0.14	0.93	1.5	1.0
23	0.72	1.4	0.71	0.65	0.47	0.25	0.29	0.20	0.14	0.63	1.3	10
24	0.68	e5.4	e4.0	0.60	0.47	0.31	0.24	0.20	0.13	0.59	0.97	7.3
25	0.64	4.4	4.9	0.56	0.45	0.21	0.26	0.18	0.13	0.50	0.86	1.2
26	0.62	3.1	1.6	0.51	0.44	0.20	0.25	0.18	0.13	0.68	1.9	1.4
27	0.59	6.0	1.2	0.51	0.37	0.20	0.22	0.16	0.12	0.77	1.2	4.1
28	0.56	3.6	1.0	0.49	0.37	0.39	0.24	0.16	2.2	0.78	3.4	1.6
29	0.55	—	0.96	0.47	0.38	0.26	0.23	0.17	0.15	0.77	2.3	1.3
30	0.54	—	1.0	0.47	0.33	0.21	0.22	0.18	1.9	0.69	1.9	1.4
31	0.52	—	1.9	—	0.34	—	0.23	0.17	—	0.68	—	0.52
TOTAL	65	52	60	26	16	11	7.9	8.2	8.9	29	55	83
MEAN	2.2	1.9	1.9	0.86	0.53	0.37	0.25	0.27	0.3	0.96	1.8	2.9
MAX	14	6.0	9.0	2.3	1.3	1.3	1.4	1.3	2.2	4.8	6.9	22
MIN	0.54	0.5	0.71	0.47	0.33	0.2	0.13	0.16	0.12	0.34	0.52	0.07
AC-FT	129	103	119	52	32	22	16	16	18	58	109	165

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

SCRL — 14206905 — Sylvan Creek at Raleighwood Lane near West Slope, Oregon [RM 1.0]



ASMP – 14206933 – ASH CREEK AT METZGER PARK AT METZGER, OREGON [RM 1.25]

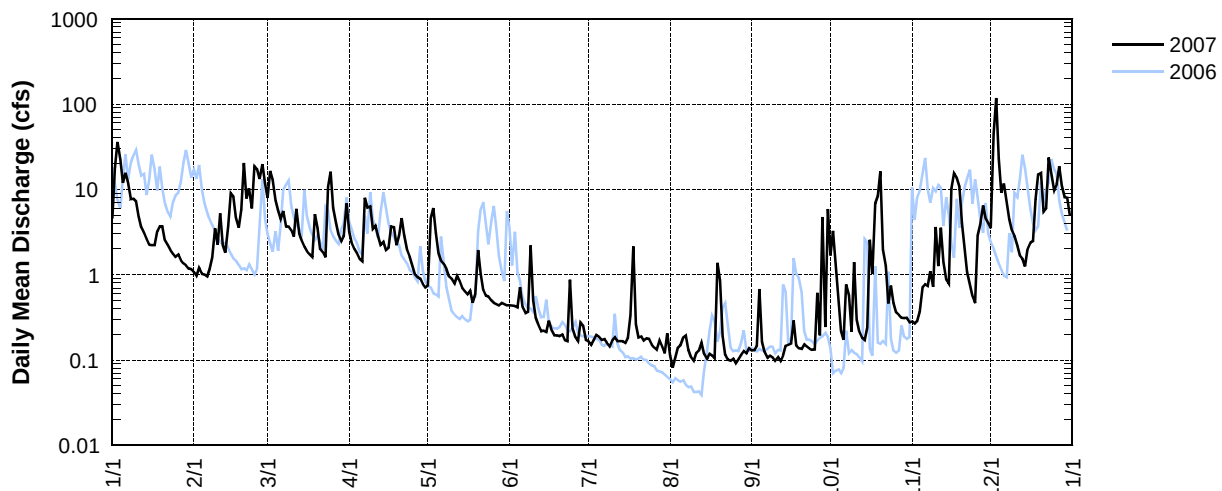
Latitude: 45 27 00 Longitude: 122 45 45

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4.5	1.1	8.0	3.2	0.75	0.44	0.17	0.11	0.13	1.7	0.29	3.5
2	e18	0.97	16	2.3	4.6	0.43	0.15	0.08	0.13	3.3	0.27	e45
3	36	1.2	13	2.0	6.0	0.43	0.17	0.10	0.15	1.2	0.29	e118
4	22	1.0	7.4	1.8	3.1	0.42	0.20	0.14	0.68	0.49	0.37	23
5	12	1.0	5.6	1.5	1.8	0.72	0.19	0.15	0.16	0.22	0.71	9.1
6	16	0.95	4.5	1.4	1.5	0.42	0.17	0.18	0.12	0.17	0.77	12
7	12	1.2	5.6	8.0	1.3	0.35	0.18	0.19	0.11	0.77	0.74	7.1
8	7.7	1.6	3.7	6.2	1.2	0.37	0.16	0.13	0.11	0.57	1.1	4.4
9	7.8	3.5	3.7	6.3	0.95	2.2	0.14	0.11	0.11	0.21	0.72	3.3
10	7.3	2.2	3.3	3.5	0.90	0.50	0.17	0.10	0.10	1.4	3.6	2.9
11	4.8	5.2	2.8	e3.8	0.79	0.32	0.18	0.12	0.11	0.3	1.3	2.2
12	3.6	2.2	5.9	e2.8	0.96	0.25	0.17	0.13	0.10	0.22	3.6	1.7
13	3.1	1.8	3.1	e2.2	0.85	0.22	0.17	0.16	0.11	0.18	1.4	1.5
14	2.6	3.7	2.5	e2.4	0.71	0.22	0.17	0.12	0.15	0.17	0.87	1.3
15	2.2	9.1	2.1	e1.9	0.64	0.21	0.16	0.10	0.15	0.24	0.78	2.0
16	2.2	8.3	1.9	e2.1	0.59	0.29	0.18	0.12	0.16	2.6	10	2.4
17	2.2	4.7	1.7	e3.7	0.65	0.22	0.34	0.11	0.29	1.0	15	2.5
18	3.2	3.6	1.6	e3.6	0.47	0.19	2.1	0.11	0.15	6.9	13	7.7
19	3.7	5.8	5.1	e2.2	0.59	0.19	0.26	1.4	0.14	8.4	11	15
20	3.7	20	3.6	e2.9	1.9	0.19	0.18	0.86	0.13	16	4.0	16
21	2.5	7.8	2.0	4.6	1.0	0.20	0.19	0.19	0.15	2.0	2.2	5.5
22	2.2	10	1.8	2.9	0.66	0.17	0.17	0.11	0.14	1.3	1.1	6
23	2.0	6.0	1.6	2.0	0.57	0.17	0.18	0.10	0.14	0.46	0.76	24
24	1.8	19	11	1.6	0.56	0.87	0.18	0.10	0.13	0.75	0.56	16
25	1.6	17	16	1.3	0.50	0.23	0.15	0.10	0.13	0.46	0.46	9.8
26	1.7	13	6.0	1.0	0.47	0.18	0.14	0.09	0.62	0.36	2.9	12
27	1.5	20	4.0	0.93	0.45	0.17	0.13	0.10	0.19	0.34	3.9	19
28	1.4	12	2.9	0.9	0.44	0.28	0.17	0.12	4.7	0.31	6.5	11
29	1.3	—	2.5	0.78	0.47	0.25	0.14	0.13	0.24	0.31	4.5	8.1
30	1.2	—	2.8	0.71	0.45	0.17	0.12	0.12	5.9	0.31	4.0	7.9
31	1.2	—	6.8	—	0.44	—	0.21	0.14	—	0.28	—	5.0
TOTAL	193	184	159	81	36	11	7.4	5.8	16	53	97	405
MEAN	6.4	6.6	5.1	2.7	1.2	0.38	0.24	0.19	0.52	1.8	3.2	13
MAX	36	20	16	8.0	6.0	2.2	2.1	1.4	5.9	16	15	118
MIN	1.2	0.95	1.6	0.71	0.44	0.17	0.12	0.08	0.1	0.17	0.27	1.3
AC-FT	383	365	316	161	71	22	15	12	32	105	192	804

e=estimated value

ASMP — 14206933 — Ash Creek at Metzger Park at Metzger, Oregon [RM 1.25]



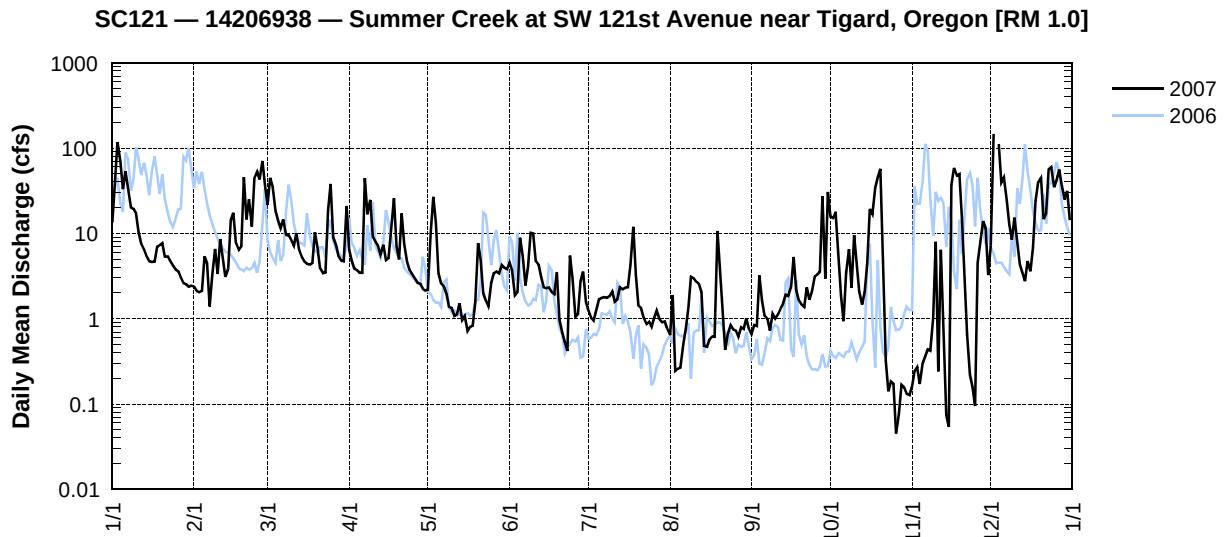
SC121 – 14206938 – SUMMER CREEK AT SW 121ST AVENUE NEAR TIGARD, OREGON [RM 1.0]

Latitude: 45 26 06 Longitude: 122 47 55

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	13	2.4	22	6.4	2.2	4.6	1.2	0.65	0.66	16	0.16	7.2
2	e42	2.1	45	4.8	11	3.7	1.0	1.9	0.84	15	0.24	e146
3	e118	2.1	35	3.9	27	1.9	0.96	0.25	0.82	18	0.27	r
4	e70	2.1	18	3.7	13	2.0	1.2	0.26	3.2	5.4	0.17	e112
5	33	5.4	14	3.4	3.4	8.9	1.7	0.27	1.7	1.9	0.3	40
6	e54	4.4	11	3.5	2.6	5.6	1.8	0.5	1.1	0.93	0.36	46
7	35	1.4	15	44	2.4	2.5	1.8	0.77	1.0	3.4	0.44	24
8	20	3.2	9.5	17	2.0	4.1	1.8	1.3	0.73	6.5	0.42	13
9	19	6.6	9.5	25	1.4	10	1.9	3.1	1.1	2.3	1	8.4
10	17	3.4	8.3	9.1	1.3	10	2.1	3.0	1.0	9.6	8	15
11	10	8.6	7.1	8.0	1.1	4.8	1.6	2.7	1.1	4.8	0.24	7.6
12	7.6	5.2	10	7.1	1.1	4.3	1.7	2.6	1.3	2.1	6.4	4.3
13	6.4	3.1	6.3	5.6	1.5	3.1	2.3	2.1	1.5	1.5	0.51	3.4
14	5.3	3.8	5.3	7.4	0.97	2.3	2.2	0.48	1.9	2	0.07	2.7
15	4.7	14	4.7	4.9	1.1	2.3	2.3	0.47	1.8	4.5	0.05	4.8
16	4.6	17	4.4	5.1	0.72	2.3	2.3	0.57	2.4	19	37	3.6
17	4.7	7.8	4.3	12	0.81	2.0	4.3	0.62	5.3	17	e59	6.9
18	7.0	6.4	4.5	26	0.83	1.9	12	0.61	2.2	34	e48	24
19	7.3	7	10	7.0	1.6	3.5	3.2	11	1.6	e46	50	e40
20	7.7	e46	6.9	5.0	7.7	0.98	1.4	4.0	1.4	e57	15	e45
21	5.3	15	3.9	17	4.9	0.69	1.3	1.1	1.4	4.3	2.5	15
22	5.3	25	3.4	7.6	2.0	0.53	1.0	0.43	2.3	0.32	0.65	17
23	4.7	12	3.5	4.6	1.6	0.42	0.86	0.66	1.7	0.14	0.22	e56
24	4.2	e45	19	3.7	1.4	5.5	0.92	0.84	2.1	0.18	0.16	e60
25	3.8	e53	e38	3.3	2.6	3.0	0.8	0.74	3.1	0.17	0.1	35
26	3.6	43	9.0	2.9	3.4	1.1	1.0	0.73	3.3	0.05	4.5	42
27	3.0	e71	7.3	2.6	3.6	1.1	1.2	0.61	3.5	0.08	7.9	e56
28	2.6	37	5.4	2.6	3.4	2.8	0.98	0.79	27	0.17	14	37
29	2.5	—	4.8	2.2	4.2	3.6	0.91	0.76	3.0	0.16	11	25
30	2.4	—	4.7	2.1	3.9	1.6	0.94	1.0	31	0.13	3.2	31
31	2.4	—	21	—	3.8	—	0.76	0.76	—	0.13	—	14
TOTAL	526	453	371	258	119	101	59	46	111	273	272	942
MEAN	17	16	12	8.6	3.8	3.4	2	1.5	3.7	9.1	9.1	32
MAX	118	71	45	44	27	10	12	11	31	57	59	146
MIN	2.4	1.4	3.4	2.1	0.72	0.42	0.8	0.25	0.66	0.05	0.05	2.7
AC-FT	1044	899	736	512	236	200	117	91	220	542	540	1869

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.



FANO – 14206950 – FANNO CREEK AT DURHAM ROAD NEAR TIGARD, OREGON [RM 1.2]

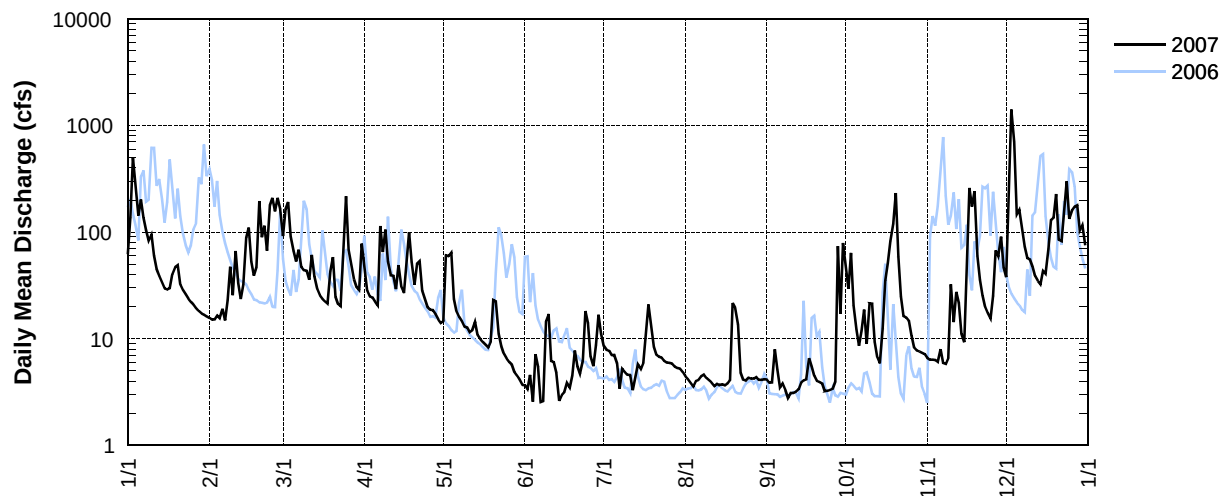
Latitude: 45 24 12 Longitude: 122 45 18

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	62	16	92	50	15	3.6	e8.6	e4.5	e4.1	47	6.6	38
2	137	15	164	28	60	3.4	e7.8	e4.2	e3.8	29	6.3	328
3	501	15	191	25	60	e4.6	e7.7	e3.8	e3.9	64	6.3	e1410
4	288	17	91	24	64	e2.6	e7.0	e3.6	e8.0	21	6.3	e703
5	143	16	67	22	24	e7.2	e7.0	e4.0	e5.1	12	6.1	147
6	202	19	53	20	18	e5.4	e5.9	e4.1	e3.5	8.6	e8.0	162
7	136	15	68	114	16	e2.6	e3.4	e4.5	e3.8	12	5.9	111
8	104	23	47	65	15	e2.6	e5.2	e4.6	e3.3	19	5.8	73
9	83	47	44	106	13	e15	e4.9	e4.3	e2.8	9.0	6.6	57
10	95	26	43	53	13	e17	e4.6	e4.1	e3.1	21	32	55
11	60	66	36	39	11	e6.2	e4.6	e3.9	e3.1	21	14	48
12	45	33	61	39	12	e6.0	e3.3	e3.6	e3.2	9.3	27	39
13	39	24	39	29	14	e4.8	e4.3	e3.8	e3.4	6.7	22	35
14	34	32	29	49	11	e2.6	e5.7	e3.7	e3.9	5.9	11	32
15	30	88	26	30	9.9	e3.0	e5.2	e3.7	e4.1	e13	9.3	43
16	29	110	24	27	9.3	e3.2	e6.0	e3.7	e4.2	e35	e53	41
17	30	53	22	55	8.8	e3.8	e11	e3.8	e6.6	e51	e260	e70
18	40	39	21	100	8.3	e3.5	e21	e4.1	e5.5	82	e174	e130
19	47	47	43	53	9.4	e4.5	e13	e22	4.5	120	e242	136
20	49	195	58	32	23	e7.7	e8.4	e20	4.0	233	e60	228
21	32	90	25	51	23	e5.5	e7.0	e14	4.0	59	36	85
22	29	115	21	53	11	e4.7	e6.8	e4.8	3.8	e25	25	82
23	26	67	20	28	8.6	e6.2	e6.7	e4.1	3.2	16	20	166
24	24	178	81	23	7.2	e18	e6.2	e4.0	3.3	16	17	300
25	22	209	216	20	6.6	e14	e6.0	e4.3	3.3	15	15	134
26	21	157	68	19	6.1	e6.9	e5.9	e4.2	3.4	11	25	161
27	20	209	51	19	5.7	e5.5	e5.8	e4.2	4.0	8.3	68	174
28	18	166	36	17	4.9	e8.7	e5.5	e4.4	74	7.8	59	178
29	17	—	30	15	4.5	e17	e5.3	e4.1	17	7.6	91	104
30	17	—	29	14	4.1	e11	e5.2	e4.1	79	7.4	46	117
31	16	—	78	—	3.7	—	e4.9	e4.2	—	7.2	—	75
TOTAL	2396	2087	1874	1219	500	e207	e210	e170	279	1000	1364	5462
MEAN	79	75	60	41	17	e6.9	e6.8	e5.5	9.3	33	45	180
MAX	501	209	216	114	64	e18	e21	e22	79	233	260	1410
MIN	17	15	20	14	4.1	e2.6	e3.3	e3.6	2.8	5.9	5.8	32
AC-FT	4754	4141	3719	2419	992	e411	e417	e337	554	1984	2707	10838

e=estimated value

FANO — 14206950 — Fanno Creek at Durham Road near Tigard, Oregon [RM 1.2]



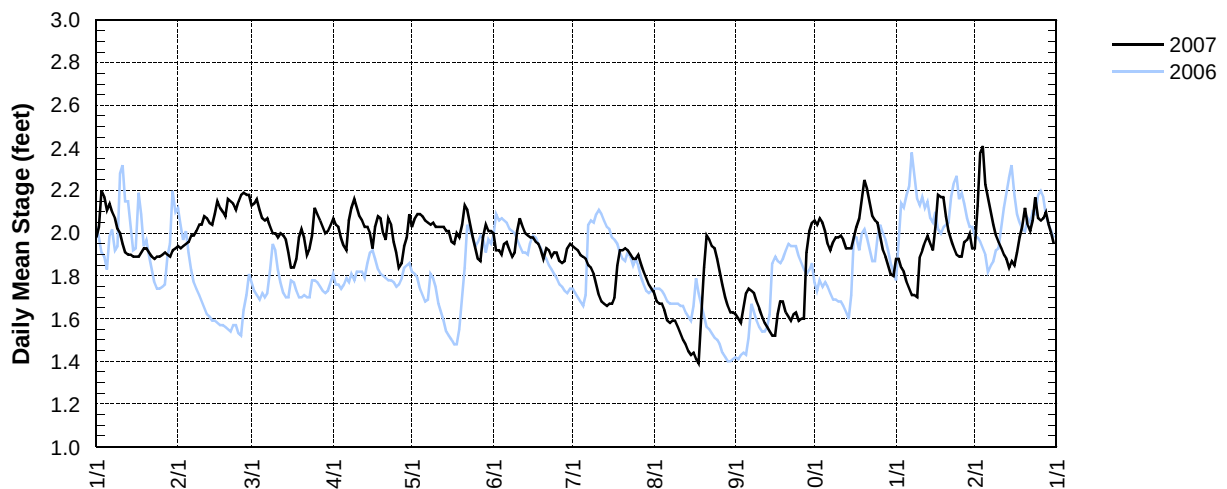
HCWL – 14206957 – HEDGES CREEK WETLAND NEAR TUALATIN [RM 1.2]

Latitude: 45 22 53 Longitude: 122 46 35

Source Agency: District 18 Watermaster

Day	Daily Mean Stage in Feet above Gage Datum for 2007											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2.0	1.9	2.1	2.1	2.0	2.0	1.9	1.7	1.6	2.1	1.9	1.9
2	2.0	1.9	2.1	2.0	2.1	1.9	1.9	1.7	1.6	2.0	1.9	2.1
3	2.2	1.9	2.2	2.0	2.1	1.9	1.9	1.7	1.6	2.1	1.8	2.4
4	2.2	2.0	2.1	2.0	2.1	1.9	1.9	1.7	1.7	2.1	1.8	2.4
5	2.1	2.0	2.1	1.9	2.1	2.0	1.9	1.6	1.7	2	1.8	2.2
6	2.1	2.0	2.1	1.9	2.1	2.0	1.9	1.6	1.7	1.9	1.7	2.2
7	2.1	2.0	2.1	2.1	2.0	1.9	1.9	1.6	1.7	1.9	1.7	2.1
8	2.1	2.0	2.0	2.1	2.0	1.9	1.8	1.6	1.7	2.0	1.7	2.0
9	2.0	2.0	2.0	2.2	2.1	1.9	1.8	1.6	1.7	2.0	1.7	2.0
10	2.0	2.0	2.0	2.1	2.0	2.0	1.8	1.6	1.7	2.0	1.9	2.0
11	2.0	2.1	2.0	2.1	2.0	2.1	1.7	1.5	1.6	2.0	1.9	1.9
12	1.9	2.1	2.0	2.1	2.0	2.0	1.7	1.5	1.6	2.0	2.0	1.9
13	1.9	2.0	2.0	2.0	2.0	2.0	1.7	1.5	1.6	1.9	2.0	1.9
14	1.9	2.0	2.0	2.0	2.0	2.0	1.7	1.4	1.5	1.9	2.0	1.8
15	1.9	2.1	1.9	2.0	2.0	2.0	1.7	1.4	1.5	1.9	1.9	1.9
16	1.9	2.2	1.8	1.9	2.0	2.0	1.7	1.4	1.5	2.0	2.0	1.8
17	1.9	2.1	1.8	2.0	2.0	2.0	1.7	1.4	1.6	2.0	2.2	1.9
18	1.9	2.1	1.9	2.1	2.0	2.0	1.9	1.4	1.7	2.1	2.2	2.0
19	1.9	2.1	2.0	2.1	2.0	1.9	1.9	1.6	1.7	2.2	2.2	2.0
20	1.9	2.2	2.0	2.0	2.0	1.9	1.9	1.8	1.6	2.2	2.1	2.1
21	1.9	2.2	2.0	2.0	2.1	1.9	1.9	2.0	1.6	2.2	2.0	2.0
22	1.9	2.1	1.9	2.1	2.1	1.9	1.9	2.0	1.6	2.1	2.0	2.0
23	1.9	2.1	1.9	2.0	2.1	1.9	1.9	1.9	1.6	2.1	1.9	2.1
24	1.9	2.1	2.0	2.0	2	1.9	1.9	1.9	1.6	2.1	1.9	2.2
25	1.9	2.2	2.1	1.9	1.9	1.9	1.9	1.9	1.6	2	1.9	2.1
26	1.9	2.2	2.1	1.8	1.9	1.9	1.9	1.8	1.6	2	1.9	2.1
27	1.9	2.2	2.1	1.9	1.9	1.9	1.9	1.8	1.6	1.9	2.0	2.1
28	1.9	2.2	2.0	1.9	2.0	1.9	1.8	1.7	1.9	1.9	2.0	2.1
29	1.9	—	2.0	2.0	2.0	1.9	1.8	1.7	2.0	1.9	2.0	2.0
30	1.9	—	2.0	2.1	2.0	2.0	1.8	1.6	2.1	1.8	1.9	2.0
31	1.9	—	2.0	—	2.0	—	1.7	1.6	—	1.8	—	2.0
MEAN	2.0	2.1	2.0	2.0	2.0	1.9	1.8	1.7	1.7	2.0	1.9	2.0
MAX	2.2	2.2	2.2	2.2	2.1	2.1	1.9	2.0	2.1	2.2	2.2	2.4
MIN	1.9	1.9	1.8	1.8	1.9	1.9	1.7	1.4	1.5	1.8	1.7	1.8

HCWL — 14206957 — Hedges Creek Wetland near Tualatin, Oregon [RM 1.2]



HCTP – 14206958 – HEDGES CREEK AT TUALATIN PARK AT TUALATIN, OREGON [RM 0.3]

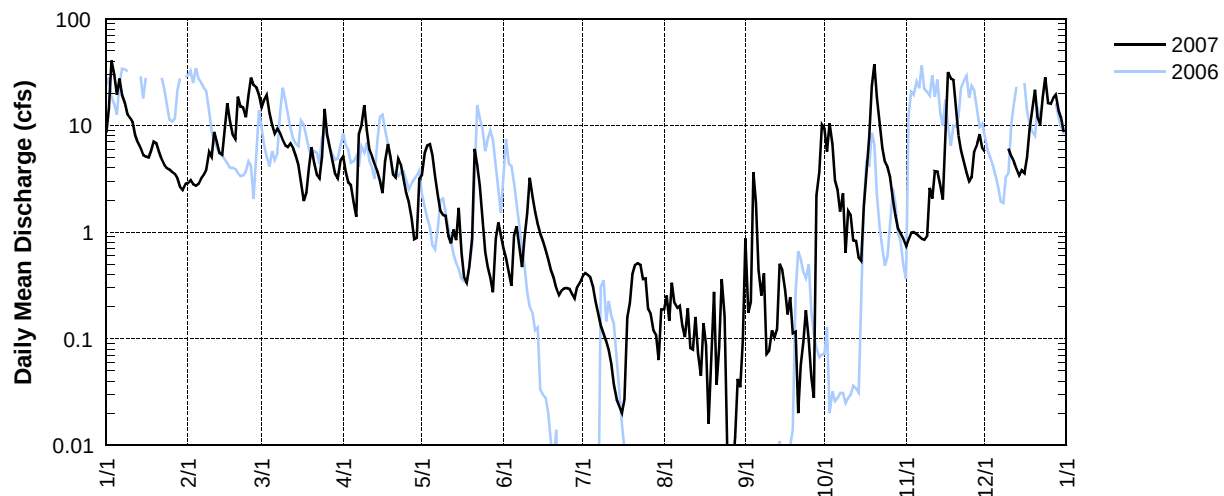
Latitude: 45 23 08 Longitude:122 45 37

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC*
1	8.5	2.9	15	5.1	3.4	0.7	0.39	0.19	0.87	9.3	0.74	5.7
2	e15	3.1	e17	3.7	5.5	0.57	0.41	0.26	0.18	5.7	0.86	r
3	e41	2.8	e19	2.9	6.5	0.42	0.40	0.15	0.22	11	0.99	r
4	e30	2.7	13	2.8	6.7	0.31	0.38	0.34	3.6	6.7	1.0	r
5	e19	2.8	10	1.9	5.2	0.93	0.30	0.22	1.9	3	0.96	r
6	e28	3.2	8.4	1.4	3.4	1.1	0.22	0.19	0.44	2.5	0.91	r
7	e19	3.5	9.3	8.3	2.2	0.71	0.17	0.20	0.25	1.6	0.87	r
8	16	3.8	8.4	10	1.6	0.47	0.13	0.13	0.41	2.3	0.85	r
9	13	5.6	7.3	16	1.4	0.9	0.11	0.10	0.07	0.64	0.92	r
10	12	5.0	6.5	9	1.4	1.5	0.10	0.19	0.08	1.6	2.6	6.1
11	11	8.7	6.3	5.9	0.92	3.2	0.08	0.08	0.12	1.4	2.1	5.1
12	8.1	7.0	6.8	5.2	0.78	2.1	0.06	0.08	0.10	0.83	3.7	4.6
13	6.8	5.5	6.1	4.3	1.1	1.5	0.04	0.16	0.12	0.83	3.7	3.9
14	6.1	5.3	5.2	3.7	0.84	1.2	0.03	0.07	0.50	0.58	2.7	3.4
15	5.3	9.2	4.3	3.0	1.7	0.96	0.02	0.04	0.44	0.54	2	3.8
16	5.1	16	2.9	2.3	0.64	0.83	0.02	0.14	0.29	1.7	10	3.6
17	5.0	11	2.0	4.6	0.37	0.68	0.03	0.09	0.17	3.4	e32	5.0
18	5.8	8.1	2.3	6.7	0.33	0.55	0.16	0.02	0.25	7.8	e28	9.2
19	7.1	7.4	4.0	5.0	0.47	0.44	0.22	0.08	0.11	e23	e27	e13
20	6.8	e19	6.2	3.5	0.88	0.38	0.40	0.28	0.12	e38	14	e22
21	5.7	15	4.5	3.3	6.0	0.3	0.49	0.04	0.02	e18	8.0	12
22	4.8	15	3.4	4.9	4.2	0.26	0.51	0.08	0.06	10	5.8	10
23	4.3	12	3.2	4.2	2.7	0.28	0.49	0.36	0.09	6.1	4.5	e18
24	4.0	e19	5.1	3.1	1.3	0.3	0.36	0.16	0.18	4.5	3.6	e28
25	3.9	e28	14	2.3	0.65	0.3	0.37	0.01	0.10	4.1	3.0	16
26	3.6	e24	8.2	1.9	0.47	0.29	0.19	<0.01	0.04	3.3	3.3	16
27	3.5	e23	6.0	1.4	0.37	0.26	0.17	<0.01	0.03	2.0	5.8	e18
28	3.2	e19	4.6	0.86	0.27	0.24	0.12	0.01	2.2	1.4	6.7	e20
29	2.7	—	3.5	0.88	0.87	0.31	0.11	0.04	3.7	1.1	8.3	14
30	2.5	—	3.2	3.2	1.2	0.34	0.06	0.03	10	0.96	6.1	12
31	2.8	—	4.7	—	0.93	—	0.19	0.1	—	0.85	—	8.7
TOTAL	310	288	220	131	64	22	6.7	3.8	27	175	191	
MEAN	10	10	7.2	4.4	2.1	0.74	0.22	0.13	0.89	5.8	6.4	
MAX	41	28	19	16	6.7	3.2	0.51	0.36	10	38	32	
MIN	2.5	2.7	2.0	0.86	0.27	0.24	0.02	0.01	0.02	0.54	0.74	
AC-FT	615	571	437	260	127	44	13	7.5	54	347	379	

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); e=estimated value; r=rating curve exceeded.

HCTP — 14206958 — Hedges Creek at Tualatin Park at Tualatin, Oregon [RM 0.3]



TRT – 14206956 (formerly 14206960) – TUALATIN RIVER AT TUALATIN, OREGON [RM 8.9]

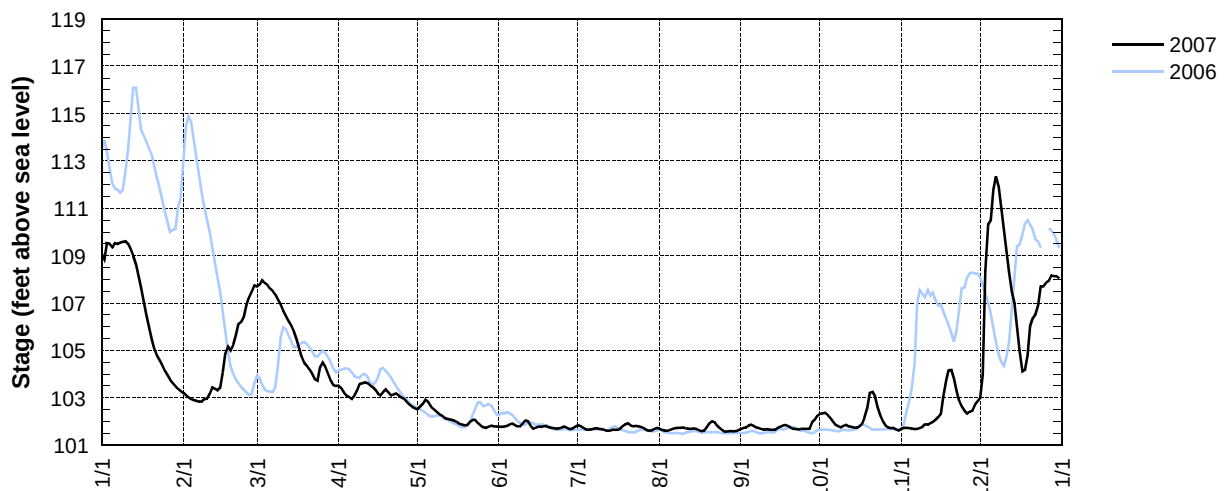
Latitude: 45 23 14 Longitude: 122 45 46

Source Agency: District 18 Watermaster

Day	Daily Elevation in Feet above Mean Sea Level for 2007											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	109.1	103.2	107.7	103.5	102.5	101.8	101.9	101.7	101.7	102.3	101.7	103.0
2	108.8	103.1	107.8	103.4	102.6	101.8	101.8	101.7	101.7	102.3	101.7	104.0
3	109.5	103.0	e108.0	103.2	102.7	101.8	101.8	101.6	101.8	102.4	101.7	108.4
4	109.5	103.0	e107.9	103.1	102.9	101.8	101.7	101.6	101.8	102.3	101.7	110.3
5	109.4	102.9	107.8	103.0	102.8	101.9	101.7	101.7	101.9	102.2	101.7	110.5
6	109.5	102.9	107.6	103.0	102.7	101.9	101.7	101.7	101.8	102.0	101.7	111.8
7	109.5	102.8	107.5	103.1	102.5	101.9	101.7	101.7	101.8	101.9	101.7	112.4
8	109.6	102.8	107.4	103.3	102.4	101.8	101.7	101.7	101.7	101.8	101.7	111.9
9	109.6	103.0	107.2	103.6	102.4	101.8	101.7	101.7	101.7	101.8	101.8	111.0
10	109.6	103.0	106.9	103.6	102.3	101.9	101.7	101.8	101.7	101.8	101.9	110.2
11	109.5	103.2	106.7	103.7	102.2	102.1	101.7	101.7	101.7	101.9	101.9	109.3
12	109.3	103.5	106.5	103.6	102.1	102.0	101.6	101.7	101.7	101.8	101.9	108.3
13	109.0	103.4	106.2	103.5	102.1	101.8	101.6	101.7	101.7	101.8	102.0	e107.5
14	108.6	103.3	106.0	103.5	102.1	101.7	101.7	101.7	101.7	101.8	102.1	e107.0
15	108.2	103.4	105.8	103.3	102.1	101.8	101.7	101.7	101.7	101.7	102.2	e106.0
16	107.6	104.1	105.5	103.2	102.0	101.8	101.7	101.6	101.8	101.8	102.3	e105.0
17	107.1	104.9	105.1	103.1	101.9	101.8	101.7	101.6	101.8	101.9	103.1	e104.1
18	106.5	105.2	104.8	103.3	101.9	101.8	101.8	101.6	101.9	102.2	103.7	104.2
19	106.0	105.0	104.5	103.4	101.9	101.8	101.9	101.8	101.8	102.6	104.2	104.8
20	105.5	105.3	104.4	103.2	101.9	101.8	101.9	101.9	101.8	103.2	104.2	106.0
21	105.1	105.7	104.2	103.1	102.0	101.7	101.9	102.0	101.7	103.3	103.8	106.4
22	104.8	106.1	104.0	103.2	102.1	101.7	101.8	102.0	101.7	103.1	103.3	106.5
23	104.6	106.2	103.8	103.2	102.1	101.7	101.8	101.8	101.7	102.6	102.9	106.9
24	104.4	106.4	103.7	103.1	101.9	101.7	101.8	101.7	101.7	102.3	102.6	107.7
25	e104.1	106.9	104.3	103.0	101.8	101.8	101.8	101.6	101.7	102.0	102.5	107.7
26	104.0	107.3	104.5	103.0	101.8	101.8	101.7	101.6	101.7	101.8	102.3	107.9
27	103.8	107.5	104.3	102.8	101.7	101.7	101.7	101.6	101.7	101.8	102.4	108.0
28	103.6	107.7	104.0	102.7	101.8	101.7	101.6	101.6	102.0	101.7	102.5	108.2
29	103.5	—	103.7	102.6	101.8	101.7	101.6	101.6	102.1	101.7	102.7	108.1
30	103.4	—	103.5	102.6	101.8	101.8	101.7	101.6	102.2	101.7	102.9	108.1
31	103.3	—	103.5	—	101.8	—	101.7	101.6	—	101.6	—	108.0
MEAN	107.0	104.5	105.6	103.2	102.1	101.8	101.7	101.7	101.8	102.1	102.4	107.7
MAX	103.3	102.8	103.5	102.6	101.7	101.7	101.6	101.6	101.7	101.6	101.7	103.0
MIN	109.6	107.7	108.0	103.7	102.9	102.1	101.9	102.0	102.2	103.3	104.2	112.4

e=estimated value

TRT — 14206956 (formerly 14206960) — Tualatin River at Tualatin, Oregon [RM 8.9]

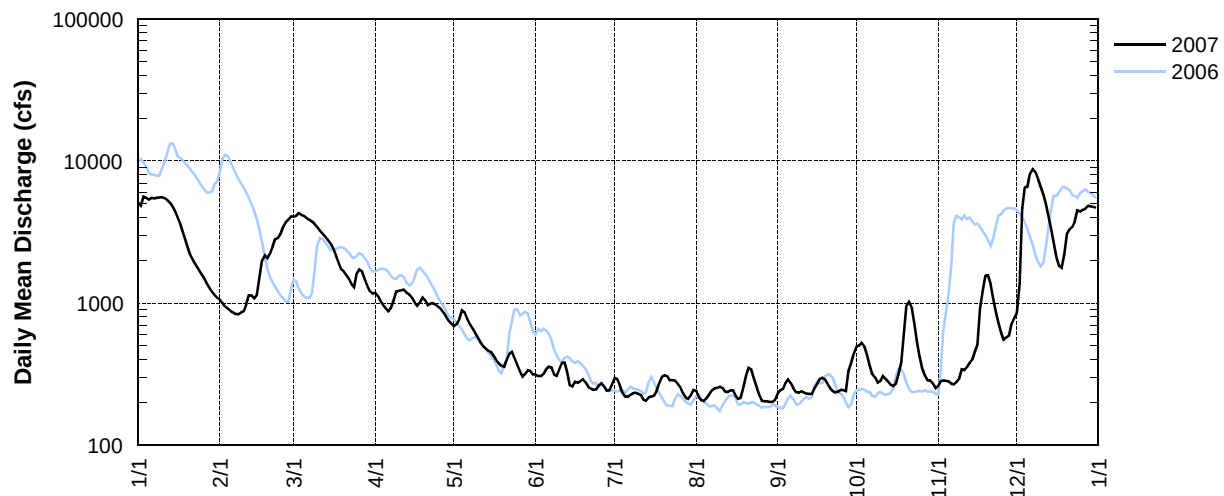


STATION NUMBER: 14207500 TUALATIN RIVER AT WEST LINN, OREG.

LATITUDE: 452103 LONGITUDE: 1224030 DRAINAGE AREA: 706.00 DATUM: 85.61

Discharge, Cubic Feet per Second, Calendar Year January to December 2007 Daily Mean Values

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	5080	1060	4060	1190	688	316	299	241	231	496	262	846
2	4870	1000	4110	1130	714	308	293	219	244	501	283	1370
3	5580	944	4300	1040	773	308	266	208	249	525	286	4630
4	5520	910	4190	973	890	318	236	205	275	494	285	6540
5	5350	880	4090	922	862	342	220	215	292	433	281	6570
6	5510	860	3960	880	779	357	219	230	275	366	271	8100
7	5460	837	3870	924	707	351	226	243	251	319	268	8780
8	5510	834	3760	1040	663	316	232	251	237	301	278	8370
9	5520	863	3590	1210	618	309	235	253	235	277	295	7500
10	5570	881	3430	1220	576	345	231	258	239	283	342	6670
11	5470	979	3250	1230	530	379	226	253	236	308	339	5830
12	5300	1140	3090	1240	497	383	209	238	232	294	354	4990
13	5070	1130	2940	1190	480	326	206	237	229	282	380	4120
14	4770	1080	2790	1150	462	266	218	243	230	267	402	3360
15	4390	1140	2640	1090	454	261	220	243	251	261	454	2680
16	3980	1490	2440	1010	425	280	224	224	271	271	509	2100
17	3540	1980	2180	959	399	276	239	212	294	313	911	1830
18	3110	2170	1930	1020	377	283	277	216	299	382	1240	1770
19	2730	2080	1730	1100	362	292	304	257	291	609	1560	2160
20	2390	2240	1680	1050	358	278	312	309	269	962	1570	3100
21	2130	2490	1580	971	402	257	307	352	251	1020	1370	3320
22	1960	2820	1480	989	441	250	288	342	241	928	1080	3440
23	1820	2880	1360	1000	455	246	287	298	236	718	862	3760
24	1710	3060	1300	975	410	247	286	258	238	538	723	4460
25	1590	3440	1610	938	365	262	272	226	246	423	621	4410
26	1480	3700	1730	913	332	273	258	206	244	352	556	4530
27	1370	3870	1660	857	303	261	233	204	241	308	574	4610
28	1280	4070	1480	798	316	242	217	204	333	285	594	4840
29	1210	—	1320	751	337	243	212	202	384	287	721	4790
30	1140	—	1210	720	334	270	225	201	445	273	790	4760
31	1090	—	1170	—	315	—	244	208	—	252	—	4690
TOTAL	111500	50828	79930	30480	15624	8845	7721	7456	7989	13328	18461	138926
MEAN	3597	1815	2578	1016	504	295	249	241	266	430	615	4481
MAX	5580	4070	4300	1240	890	383	312	352	445	1020	1570	8780
MIN	1090	834	1170	720	303	242	206	201	229	252	262	846
AC-FT	221200	100800	158500	60460	30990	17540	15310	14790	15850	26440	36620	275600

[†] Provisional data—subject to revision**WSLO — 14207500 —Tualatin River at West Linn, Oregon [RM 1.75]**

SPBR – 14211116 – SPRINGBROOK CR AT IRON MOUNTAIN RD NEAR LAKE OSWEGO, OREGON [RM 0.18]

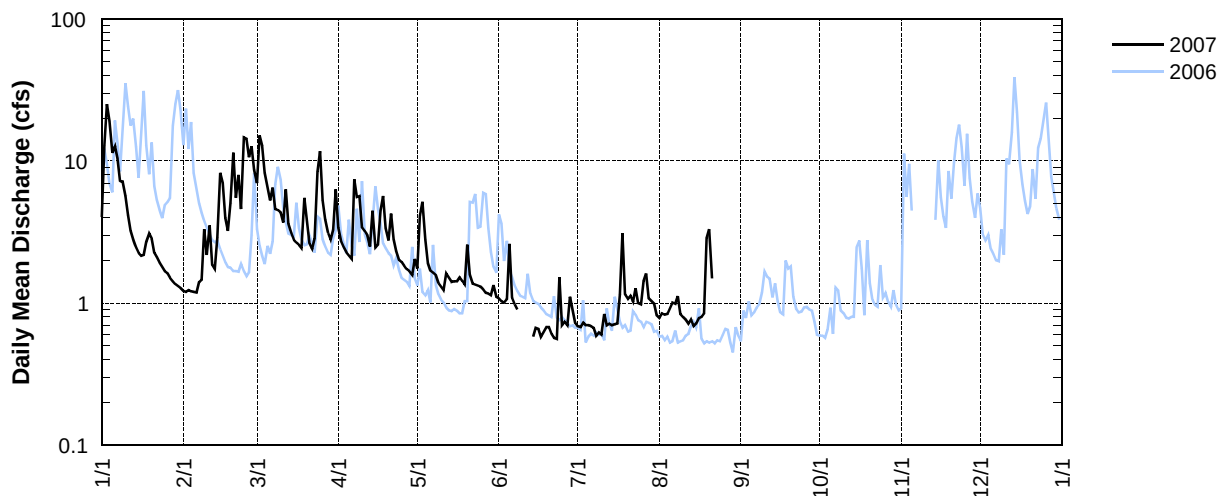
Latitude: 45 24 46 Longitude: 122 42 13

Source Agency: District 18 Watermaster

Day	2007 Daily Mean Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN*	JUL	AUG*‡	SEP‡	OCT‡	NOV‡	DEC‡
1	4	1.2	7.0	3.4	1.7	1.1	0.69	0.79				
2	13	1.2	15	2.7	4.1	1.0	0.68	0.85				
3	25	1.2	13	2.5	5.2	1.0	0.73	0.83				
4	19	1.2	8.2	2.3	2.8	1.1	0.70	0.84				
5	11	1.2	6.6	2.2	1.9	2.6	0.70	0.92				
6	13	1.2	5.3	2.0	1.7	1.1	0.69	1.0				
7	10	1.4	6.5	7.4	1.6	0.98	0.67	0.99				
8	7.2	1.5	4.6	5.6	1.6	0.90	0.59	1.1				
9	7.2	3.3	4.5	5.7	1.4	m	0.62	0.84				
10	5.7	2.2	4.3	3.4	1.3	1.1	0.60	0.80				
11	4.2	3.5	3.7	3.2	1.2	m	0.84	0.77				
12	3.2	1.9	6.3	3.0	1.6	0.92	0.70	0.72				
13	2.8	1.7	3.6	2.5	1.5	m	0.72	0.77				
14	2.5	2.9	3.1	4.5	1.4	0.58	0.70	0.69				
15	2.3	8.2	2.8	2.5	1.4	0.67	0.71	0.72				
16	2.2	7.0	2.7	2.6	1.4	0.66	0.72	0.79				
17	2.2	4.0	2.6	4.5	1.5	0.58	1.2	0.80				
18	2.7	3.2	2.4	5.7	1.4	0.63	3.1	0.85				
19	3.1	5.1	5.5	3.4	1.3	0.68	1.1	2.9				
20	2.8	11	3.7	2.8	2.6	0.68	1.1	3.3				
21	2.3	5.5	2.6	4.3	1.6	0.61	1.1	1.5				
22	2.1	8.0	2.4	2.8	1.4	0.57	1.0					
23	1.9	4.6	2.9	2.3	1.3	0.56	1.3					
24	1.8	15	8.4	2.0	1.3	1.5	1.0					
25	1.7	14	12	1.9	1.3	0.70	0.98					
26	1.6	11	5.3	1.8	1.3	0.74	1.4					
27	1.5	13	3.9	1.7	1.2	0.70	1.6					
28	1.4	8.7	3.1	1.7	1.2	1.1	1.1					
29	1.4	—	2.8	1.6	1.1	0.90	1.0					
30	1.3	—	3.3	2.1	1.3	0.73	0.99					
31	1.3	—	6.3	—	1.1	—	0.82					
TOTAL	161	144	164	94	53	24	30					
MEAN	5.3	5.1	5.3	3.1	1.7	0.9	0.97					
MAX	25	15	15	7.4	5.2	2.6	3.1					
MIN	1.3	1.2	2.4	1.6	1.1	0.56	0.59					
AC-FT	319	286	325	187	105	48	60					

*Incomplete record (monthly totals were computed when at least 80% of the record was complete for the month); ‡Site discontinued 8/21/2007; m=missing value.

SPBR — 14211116 — Springbrook Creek at Iron Mountain Rd near Lake Oswego, Oregon [RM 0.18]



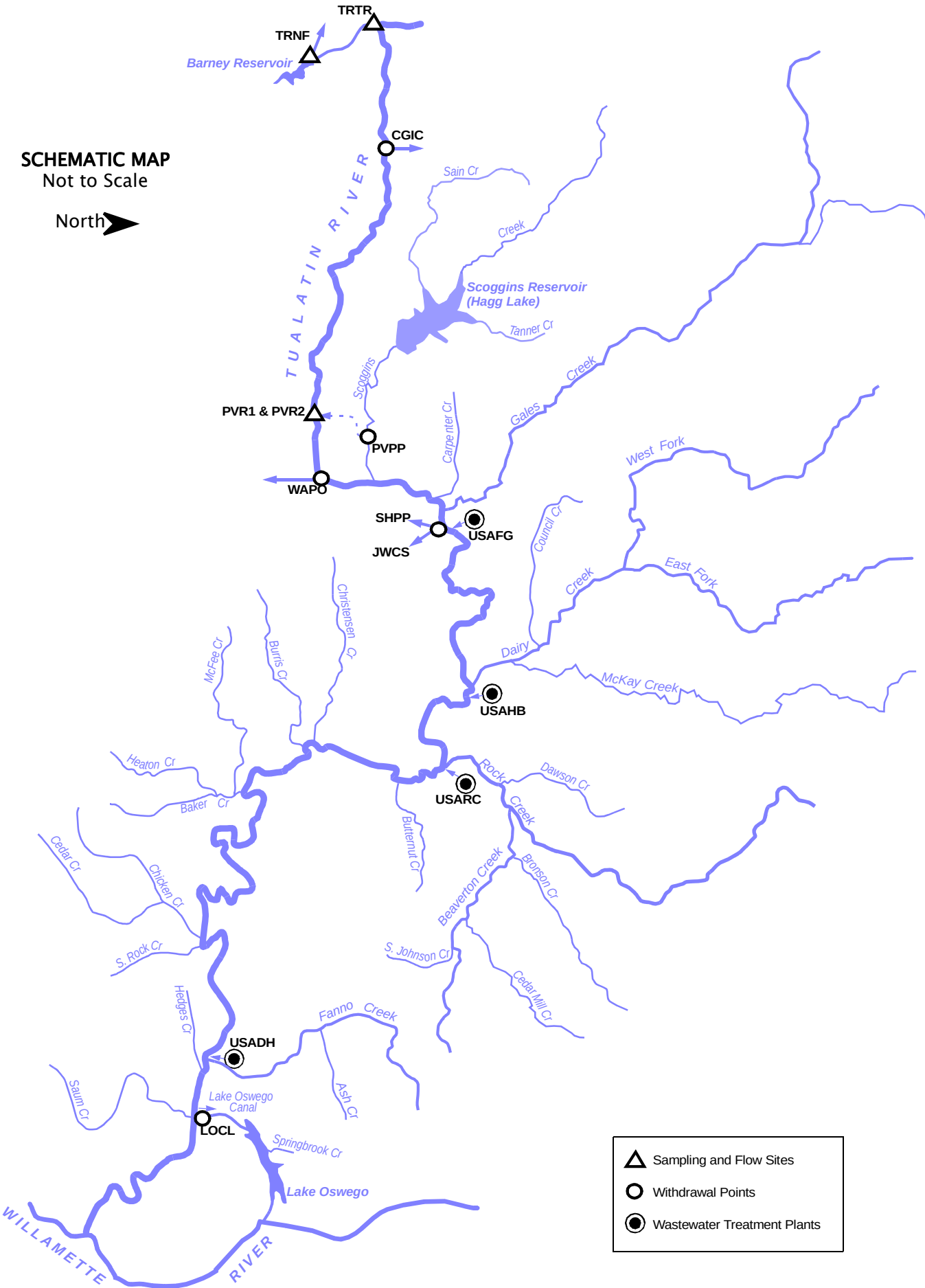
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Appendix B

Selected Releases and Withdrawals

The following information is for selected water releases to and withdrawals from the Tualatin River and its tributaries. It is not a comprehensive listing of releases and withdrawals. Some of the data represent daily mean flows and some represent instantaneous measurements. All streamflow measurements are in Appendix A.

SELECTED RELEASES AND WITHDRAWALS — LOCATIONS



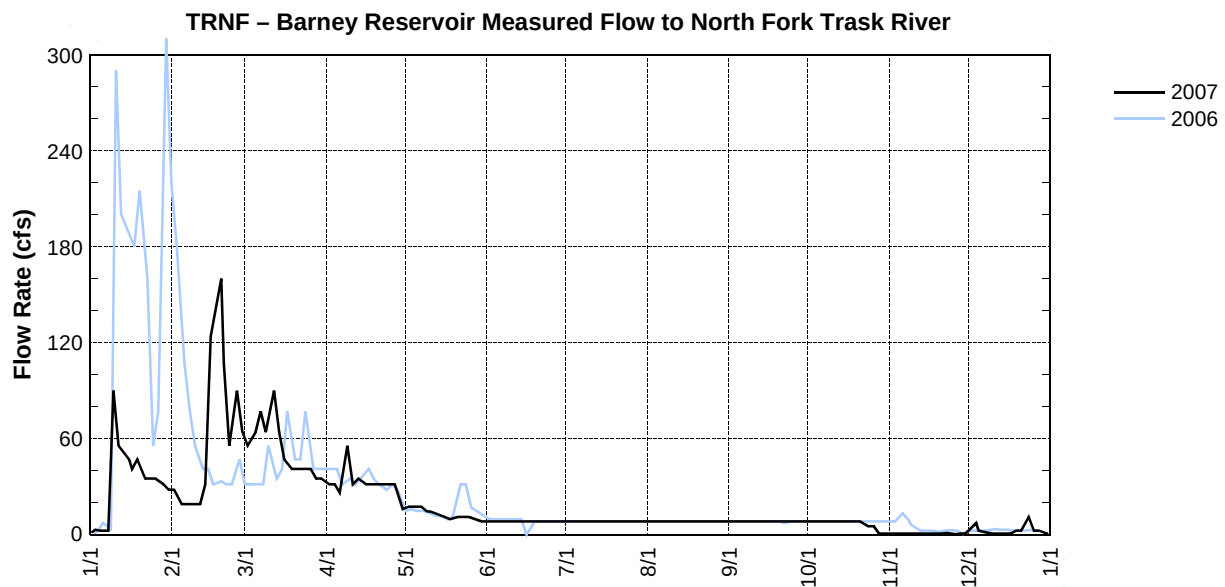
SELECTED RELEASE AND WITHDRAWAL SITES — ALPHABETICAL LISTING BY SITE CODE

SITE CODE	SITE NAME	RIVER MILE	PAGE
CGIC	City of Hillsboro Withdrawal at Cherry Grove	73.3	B-6
JWCS	Joint Water Commission Withdrawal at Springhill Pump Plant	56.1	B-10
LOCL	Lake Oswego Corp. Canal Diversion	6.7	B-15
PVPP	TVID Withdrawal at Patton Valley Pump Plant	1.71	B-7
PVR1	TVID—Patton Valley River Turnout #1 Release	63.13	B-7
PVR2	TVID—Patton Valley River Turnout #2 Release	64.26	B-7
SHPP	TVID—Withdrawal at Springhill Pump Plant	56.1	B-9
TRNF	Barney Reservoir Measured Flow to North Fork Trask River	—	B-4
TRTR	Barney Reservoir Release to Tualatin River	78.0	B-5
USADH	CWS Durham WWTP Release	9.33	B-14
USAFG	CWS Forest Grove WWTP Release	55.2	B-11
USAHB	CWS Hillsboro WWTP Release	43.8	B-12
USARC	CWS Rock Creek WWTP Release	38.08	B-13
WAPO	Wapato Canal Diversion	62.0	B-8

TRNF – BARNEY RESERVOIR MEASURED FLOW TO NORTH FORK TRASK RIVER

Source Agency: Joint Water Commission

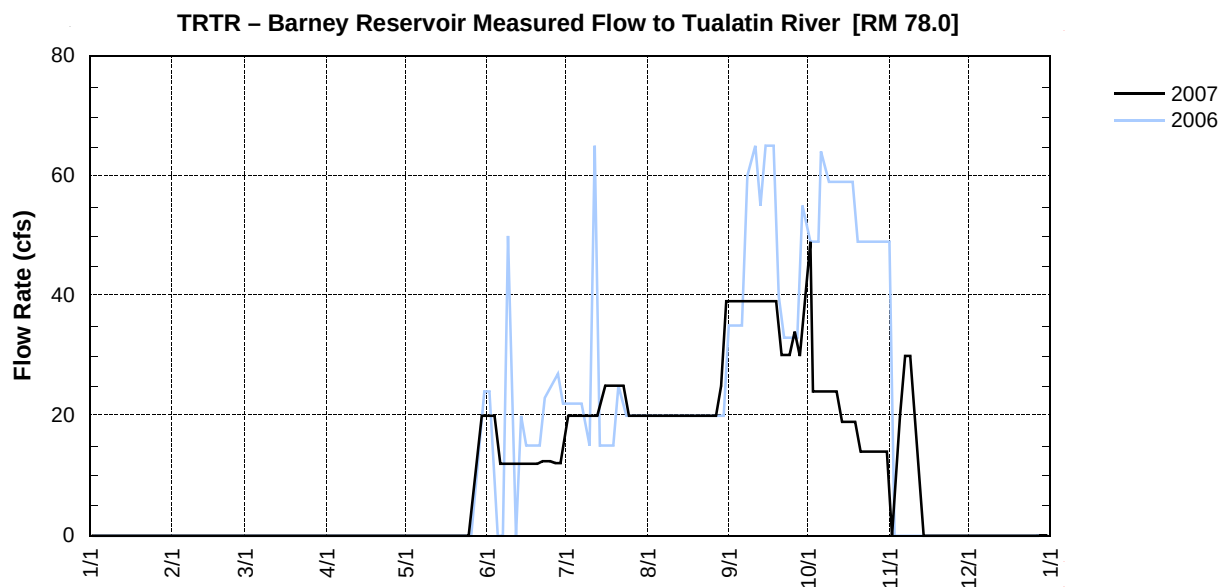
Day	2007 — Instantaneous Measured Flow Rate in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						8.2		8.2				
2	1.7	28.0	55.5	31.5	17.5		8.2			8.2	0.5	
3	3.0							8.2		8.2		
4				31.5	17.5	8.2						7.3
5	2.4	19.0	64.0						8.2	8.2	0.5	2.4
6				26.0		8.2	8.2	8.2				
7		19.0	77.0		17.5				8.2	8.2	0.5	1.7
8	2.4					8.2		8.2				
9		19.0	64.0	55.5	14.8		8.2				0.5	
10	90.0							8.2	8.2	8.2		0.5
11				31.5	14.2	8.2	8.2					
12	55.5	19.0	90.0						8.2	8.2		0.5
13				35.0		8.2	8.2	8.2				
14		31.5	64.0		12.3				8.2	8.2	0.5	0.5
15						8.2		8.2				
16	47.0	124.0	47.0	31.5	11.0		8.2				0.5	
17	41.0							8.2	8.2	8.2		0.5
18				31.5	9.6	8.2	8.2					
19	47.0		41.0						8.2	8.2	0.5	2.3
20		160.0		31.5		8.2	8.2	8.2				
21		107.0	41.0		11.0				8.2	8.2	0.5	2.3
22	35.0					8.2		8.2				
23		55.5	41.0	31.5	11.0		8.2				1.1	
24	35.0							8.2	8.2	5.2		11.0
25				31.5	11.0	8.2	8.2					
26	35.0	90.0	41.0						8.2	5.2	0.3	2.4
27				31.5		8.2	8.2	8.2				
28		64.0	35.0						8.2	0.5	0.5	2.3
29	31.5	—				8.2		8.2				
30		—	35.0	16.0	8.2		8.2				0.5	
31	28.0	—		—		—		8.2	—	0.5	—	0.5



TRTR — BARNEY RESERVOIR RELEASE TO TUALATIN RIVER [RM 78.0]

Source Agency: Joint Water Commission

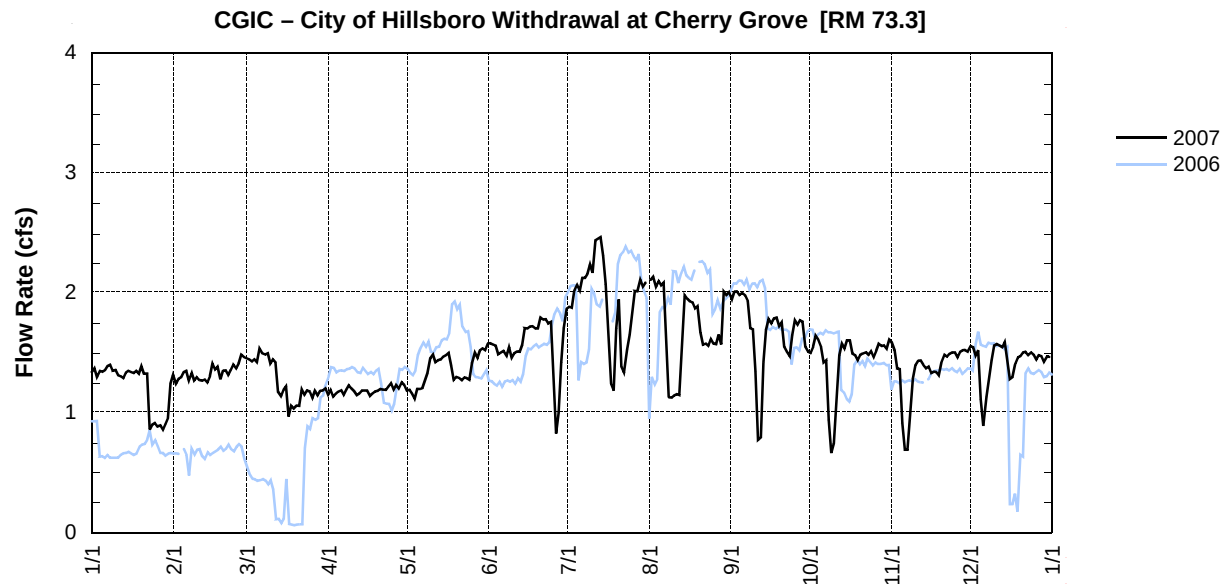
Day	2007 — Instantaneous Measured Flow Rate in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						20.0		20.0				
2	0.0	0.0	0.0	0.0	0.0		20.0			49.0	0.0	
3	0.0							20.0		24.0		
4				0.0	0.0	20.0						0.0
5	0.0	0.0	0.0						39.1	24.0	20.0	0.0
6				0.0		12.0	20.0	20.0				
7		0.0	0.0		0.0				39.1	24.0	30.0	0.0
8	0.0					12.0		20.0				
9		0.0	0.0	0.0	0.0		20.0				30.0	
10	0.0							20.0	39.1	24.0		0.0
11				0.0	0.0	12.0	20.0					
12	0.0	0.0	0.0						39.1	24.0		0.0
13				0.0		12.0	20.0	20.0				
14		0.0	0.0		0.0				39.1	19.0	0.0	0.0
15						12.0		20.0				
16	0.0	0.0	0.0	0.0	0.0		25.0				0.0	
17	0.0							20.0	39.1	19.0		0.0
18				0.0	0.0	12.0	25.0					
19	0.0		0.0						39.1	19.0	0.0	0.0
20		0.0		0.0		12.0	25.0	20.0				
21		0.0	0.0		0.0				30.1	14.0	0.0	0.0
22	0.0					12.4		20.0				
23		0.0	0.0	0.0	0.0		25.0				0.0	
24	0.0							20.0	30.1	14.0		0.0
25				0.0	0.0	12.4	20.0					
26	0.0	0.0	0.0						34.0	14.0	0.0	0.0
27				0.0		12.1	20.0	20.0				
28		0.0	0.0						30.0	14.0	0.0	0.0
29	0.0	—				12.1		25.0				
30		—	0.0	0.0	20.0		20.0				0.0	
31	0.0	—		—		—		39.1	—	14.0	—	0



CGIC — CITY OF HILLSBORO WITHDRAWAL AT CHERRY GROVE [RM 73.3]

Source Agency: Joint Water Commission

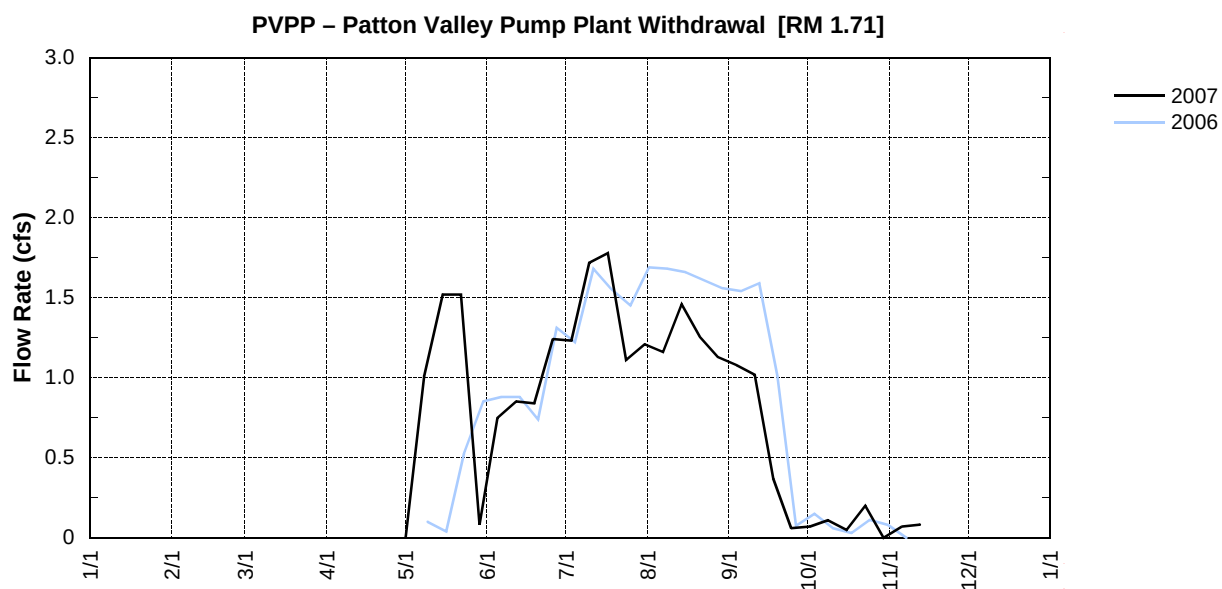
Day	2007 — Calculated Average Flow Rate in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	1.34	1.31	1.45	1.19	1.19	1.58	1.88	2.11	1.94	1.50	1.59	1.55
2	1.37	1.24	1.43	1.13	1.16	1.57	1.87	2.13	2.01	1.55	1.52	1.55
3	1.30	1.28	1.45	1.16	1.12	1.56	2.02	2.05	2.01	1.64	1.37	1.48
4	1.35	1.30	1.42	1.18	1.20	1.49	2.07	2.10	1.98	1.61	1.36	1.52
5	1.34	1.34	1.53	1.19	1.20	1.50	2.02	2.06	2.00	1.55	0.92	1.11
6	1.36	1.35	1.50	1.15	1.21	1.52	2.12	2.08	1.98	1.42	0.69	0.89
7	1.39	1.27	1.49	1.19	1.27	1.47	2.12	1.58	1.93	1.44	0.69	1.13
8	1.40	1.33	1.50	1.23	1.33	1.54	2.16	1.13	1.70	0.94	1.00	1.28
9	1.35	1.27	1.41	1.20	1.45	1.46	2.24	1.12	1.70	0.67	1.29	1.44
10	1.36	1.30	1.45	1.18	1.49	1.50	2.16	1.14	1.34	0.74	1.40	1.56
11	1.31	1.27	1.42	1.15	1.42	1.51	2.44	1.16	0.77	1.11	1.43	1.57
12	1.31	1.27	1.17	1.16	1.44	1.51	2.45	1.15	0.79	1.48	1.44	1.56
13	1.29	1.28	1.14	1.18	1.44	1.57	2.46	1.56	1.42	1.57	1.40	1.55
14	1.34	1.25	1.19	1.19	1.47	1.70	2.31	1.98	1.69	1.53	1.37	1.59
15	1.35	1.31	1.22	1.18	1.48	1.70	2.07	1.95	1.78	1.60	1.38	1.44
16	1.34	1.41	0.97	1.14	1.50	1.72	1.62	1.93	1.74	1.60	1.33	1.28
17	1.33	1.36	1.06	1.16	1.40	1.72	1.24	1.92	1.79	1.49	1.34	1.30
18	1.35	1.38	1.04	1.18	1.27	1.70	1.19	1.87	1.79	1.48	1.34	1.41
19	1.33	1.28	1.06	1.18	1.30	1.70	1.70	1.89	1.72	1.44	1.31	1.46
20	1.39	1.35	1.06	1.20	1.29	1.79	1.94	1.67	1.75	1.48	1.43	1.47
21	1.33	1.35	1.19	1.19	1.27	1.78	1.38	1.57	1.55	1.49	1.49	1.50
22	1.33	1.32	1.15	1.19	1.29	1.78	1.34	1.58	1.51	1.50	1.47	1.51
23	0.86	1.36	1.19	1.22	1.29	1.75	1.53	1.56	1.47	1.48	1.49	1.48
24	0.90	1.40	1.18	1.24	1.27	1.76	1.65	1.61	1.65	1.51	1.50	1.50
25	0.91	1.37	1.12	1.19	1.41	1.26	1.82	1.58	1.77	1.47	1.50	1.49
26	0.89	1.41	1.18	1.23	1.50	0.83	2.01	1.57	1.73	1.52	1.46	1.44
27	0.89	1.49	1.14	1.20	1.46	1.00	2.01	1.65	1.77	1.57	1.51	1.48
28	0.86	1.46	1.18	1.25	1.52	1.42	2.11	1.57	1.76	1.55	1.52	1.47
29	0.91	—	1.18	1.23	1.54	1.71	2.05	2.01	1.55	1.56	1.52	1.42
30	0.96	—	1.20	1.19	1.52	1.87	2.08	1.98	1.51	1.53	1.51	1.46
31	1.24	—	1.15	—	1.58	—	0.00	2.01	—	1.61	—	1.46



PATTON VALLEY PUMP PLANTS AND TURNOUTS

Source Agency: District 18 Watermaster

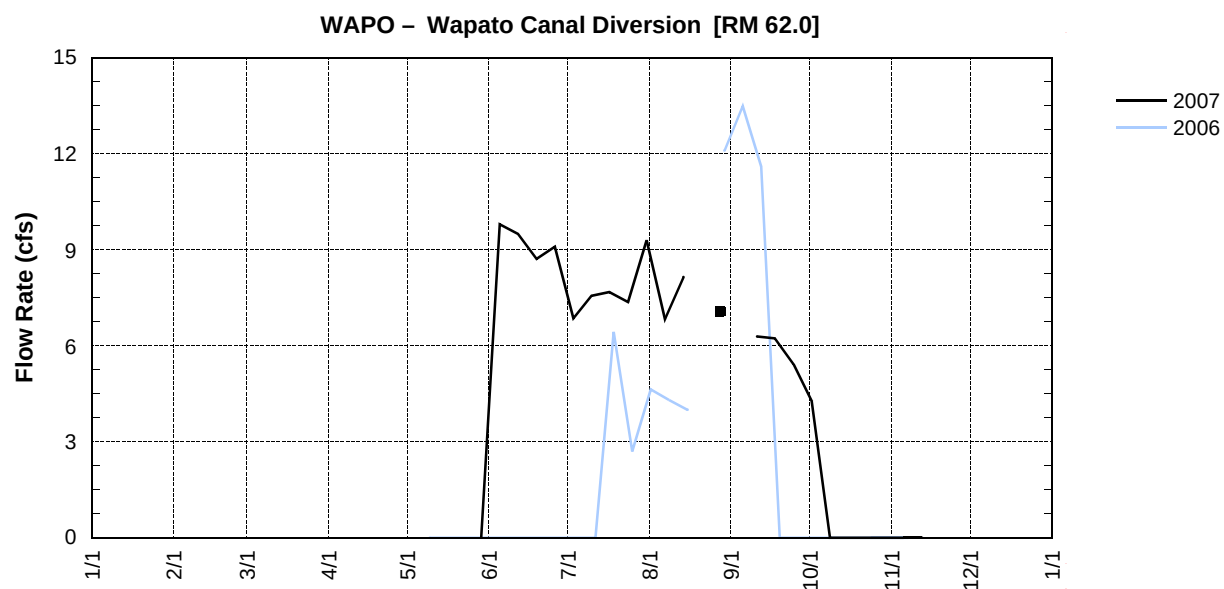
2007 — Calculated Average Flow Rate in Cubic Feet per Second			
Date	PVPP — [RM 1.71] Patton Valley Pump Plant	PVR1 — [RM 63.13] Patton Valley River Turnout #1	PVR2 — [RM 64.26] Patton Valley River Turnout #2
5/1/2007	0.00	0.00	0.00
5/8/2007	1.01	0.00	0.00
5/15/2007	1.52	0.00	0.00
5/22/2007	1.52	0.00	0.00
5/29/2007	0.08	0.00	0.00
6/5/2007	0.75	0.00	0.00
6/12/2007	0.85	0.00	0.00
6/19/2007	0.84	0.00	0.00
6/26/2007	1.24	0.00	0.00
7/3/2007	1.23	0.00	0.00
7/10/2007	1.72	0.00	0.00
7/17/2007	1.78	0.00	0.00
7/24/2007	1.11	0.00	0.00
7/31/2007	1.21	0.00	0.00
8/7/2007	1.16	0.00	0.00
8/14/2007	1.46	0.00	0.00
8/21/2007	1.26	0.00	0.00
8/28/2007	1.13	0.00	0.00
9/4/2007	1.08	0.00	0.00
9/11/2007	1.02	0.00	0.00
9/18/2007	0.37	0.00	0.00
9/25/2007	0.06	0.00	0.00
10/2/2007	0.07	0.00	0.00
10/9/2007	0.11	0.00	0.00
10/16/2007	0.05	0.00	0.00
10/23/2007	0.20	0.00	0.00
10/30/2007	0.00	0.00	0.00
11/6/2007	0.07	0.00	0.00
11/13/2007	0.08	0.00	0.00



WAPO – WAPATO CANAL DIVERSION [RM 62.0]

Source Agency: District 18 Watermaster

Date	Instantaneous Measured Flow Rate in Cubic Feet per Second
5/1/2007	0.00
5/8/2007	0.00
5/15/2007	0.00
5/22/2007	0.00
5/29/2007	0.00
6/5/2007	9.80
6/12/2007	9.50
6/19/2007	8.72
6/26/2007	9.10
7/3/2007	6.86
7/10/2007	7.56
7/17/2007	7.68
7/24/2007	7.37
7/31/2007	9.30
8/7/2007	6.84
8/14/2007	8.15
8/21/2007	
8/28/2007	7.07
9/4/2007	
9/11/2007	6.29
9/18/2007	6.23
9/25/2007	5.44
10/2/2007	4.26
10/9/2007	0.00
10/16/2007	0.00
10/23/2007	0.00
10/30/2007	0.00
11/6/2007	0.00
11/13/2007	0.00

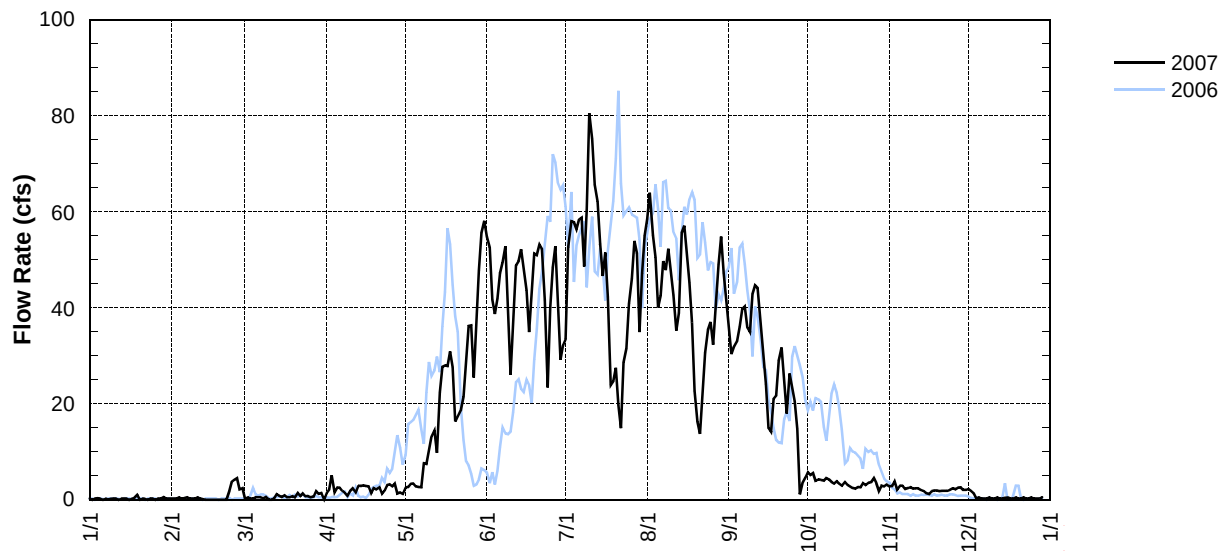


SHPP – TVID WITHDRAWAL AT SPRINGHILL PUMP PLANT [RM 56.1]

Source Agency: US Geological Survey, Oregon Water Science Center

Day	2007 — Mean Daily Water Withdrawal in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	0.25	0.26	0.3	1.4	2.6	54.7	33.5	58.5	35.9	5.8	2.8	2.22
2	0.00	0.26	0.5	2.1	2.7	52.5	52.6	64.0	30.4	5.2	2.9	1.90
3	0.25	0.26	0.3	5.1	3.4	41.8	58.0	55.1	31.9	5.6	3.8	1.32
4	0.28	0.51	0.3	1.6	3.4	38.7	57.9	50.5	33.1	4.0	2.1	0.27
5	0.24	0.26	0.5	2.6	2.8	41.9	56.4	40.0	36.0	4.2	2.9	0.53
6	0.00	0.29	0.5	2.5	2.6	47.2	58.4	42.5	39.7	4.1	2.9	0.27
7	0.24	0.52	0.5	1.8	2.6	49.4	58.7	49.7	40.2	4.0	2.3	0.27
8	0.09	0.26	0.3	1.5	7.6	52.8	48.6	47.8	35.9	4.6	2.4	0.27
9	0.16	0.26	0.6	0.9	7.5	40.1	60.3	52.3	34.9	4.2	2.6	0.54
10	0.24	0.26	0.0	1.8	10.5	26.0	80.5	47.3	42.8	3.7	2.3	0.27
11	0.25	0.52	0.0	2.3	13.3	37.5	75.2	42.7	44.6	3.4	2.3	0.27
12	0.00	0.26	0.3	1.6	14.6	48.8	65.6	35.2	44.1	3.8	2.3	0.54
13	0.25	0.11	1.2	2.9	9.8	49.7	62.2	38.9	38.6	3.4	2.1	0.27
14	0.25	0.00	0.9	2.9	22.4	52.2	53.3	55.7	30.9	2.9	1.8	0.27
15	0.25	0.00	0.6	3.0	27.8	48.4	46.6	57.1	24.1	3.7	1.4	0.39
16	0.00	0.00	0.9	2.9	28.0	43.7	51.5	51.7	14.9	3.1	1.2	0.43
17	0.25	0.00	0.5	2.8	27.9	34.9	42.3	45.2	14.1	2.8	1.8	0.27
18	0.42	0.00	0.5	1.4	30.9	44.2	23.9	36.9	21.1	2.4	1.9	0.27
19	0.95	0.00	0.8	2.4	27.7	51.3	24.7	22.7	21.7	2.3	1.9	0.54
20	0.00	0.00	0.5	2.2	16.3	51.0	27.5	16.2	28.9	2.6	1.8	0.26
21	0.25	0.00	1.4	2.6	17.4	53.1	19.7	13.7	31.7	2.6	1.9	0.26
22	0.19	0.00	0.8	1.3	18.8	52.2	14.9	22.3	25.2	3.4	1.9	0.53
23	0.00	1.74	1.3	2.0	21.5	41.5	28.6	30.7	18.0	3.0	1.9	0.27
24	0.25	3.77	0.8	3.0	29.7	23.4	31.5	35.4	26.3	3.5	2.1	0.26
25	0.22	4.19	0.8	3.2	36.1	40.0	40.8	37.1	23.4	3.6	2.4	0.53
26	0.00	4.55	0.5	2.8	36.3	48.5	46.1	32.3	20.6	4.5	2.2	0.27
27	0.25	2.16	0.7	3.4	25.4	52.9	53.9	40.2	14.8	3.4	2.5	0.27
28	0.25	2.42	1.8	1.3	35.7	39.4	51.3	49.1	1.1	1.9	2.6	0.27
29	0.63	—	1.3	1.5	47.8	29.2	34.9	54.9	3.7	2.9	2.1	0.53
30	0.25	—	1.5	1.3	55.6	32.2	47.1	47.3	4.7	2.8	2.1	0.27
31	0.25	—	0.1	—	58.1	—	55.1	41.3	—	3.2	—	0.27

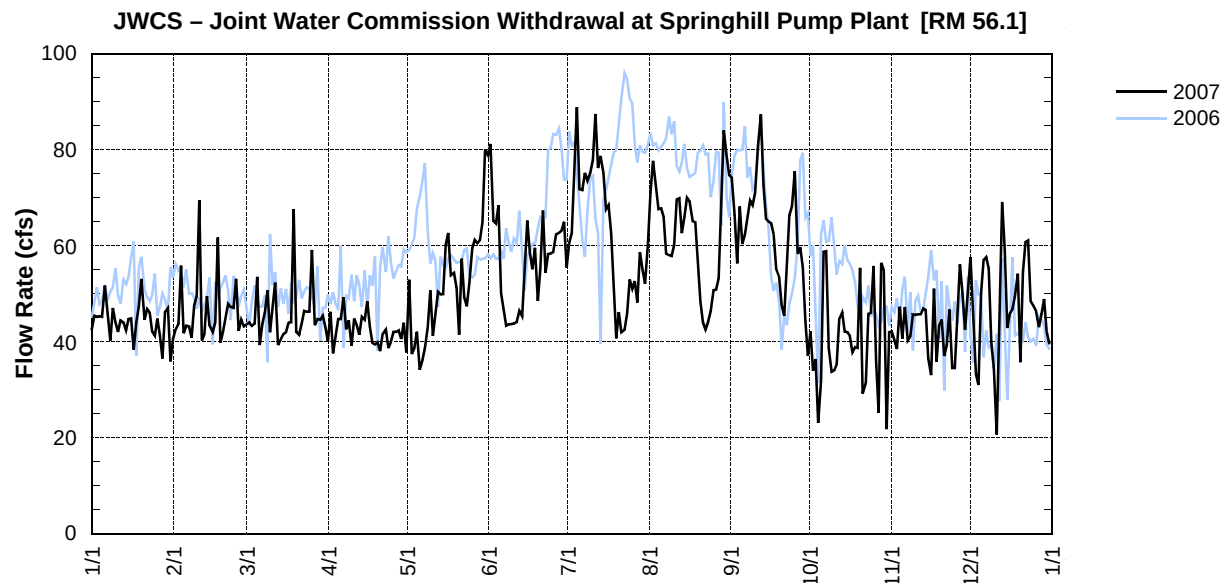
SHPP – Tualatin Valley Irrigation District Withdrawal at Springhill Pump Plant [RM 56.1]



JWCS – JOINT WATER COMMISSION WITHDRAWAL AT SPRINGHILL PUMP PLANT [RM 56.1]

Source Agency: Joint Water Commission

Day	2007 — Calculated Average Flow Rate in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	43	41	44	46	53	81	61	71	74	42	42	58
2	45	43	43	38	37	65	63	78	66	34	40	45
3	45	44	44	41	39	65	76	73	56	36	38	33
4	45	56	54	45	42	68	89	68	68	23	47	31
5	45	42	39	45	34	50	72	68	60	32	41	50
6	52	43	44	49	36	47	72	66	62	59	47	57
7	46	43	46	43	39	43	75	58	66	59	40	58
8	40	41	51	44	43	44	74	58	69	39	41	55
9	47	48	42	39	51	44	75	58	68	34	46	40
10	44	50	47	45	41	44	78	60	71	34	46	35
11	42	69	52	43	46	44	87	70	81	35	46	21
12	44	40	39	41	50	46	76	70	87	45	46	46
13	44	42	41	45	50	45	79	63	73	46	47	69
14	42	50	42	45	50	55	75	66	66	42	47	59
15	45	43	42	48	60	65	68	70	65	42	37	43
16	45	42	44	43	63	59	69	69	65	41	33	46
17	38	44	44	40	54	55	63	65	62	38	51	47
18	44	62	68	39	54	60	53	65	55	39	36	50
19	47	40	42	40	51	48	41	56	53	39	44	54
20	53	42	41	38	41	55	46	48	48	55	45	36
21	45	45	44	42	57	67	42	44	45	29	37	55
22	47	48	46	43	49	54	43	43	56	31	39	61
23	46	47	46	39	47	58	46	44	66	46	47	61
24	42	47	46	40	52	58	53	46	68	46	35	48
25	41	53	59	42	59	59	51	51	76	56	35	48
26	45	42	43	42	61	62	53	51	58	36	44	46
27	41	45	45	42	61	63	48	53	60	25	56	43
28	37	43	45	41	61	63	59	68	55	56	50	46
29	46	—	45	44	65	65	55	84	44	55	42	49
30	47	—	43	38	80	55	52	79	37	22	51	42
31	36	—	40	—	79	—	60	75	—	42	—	40

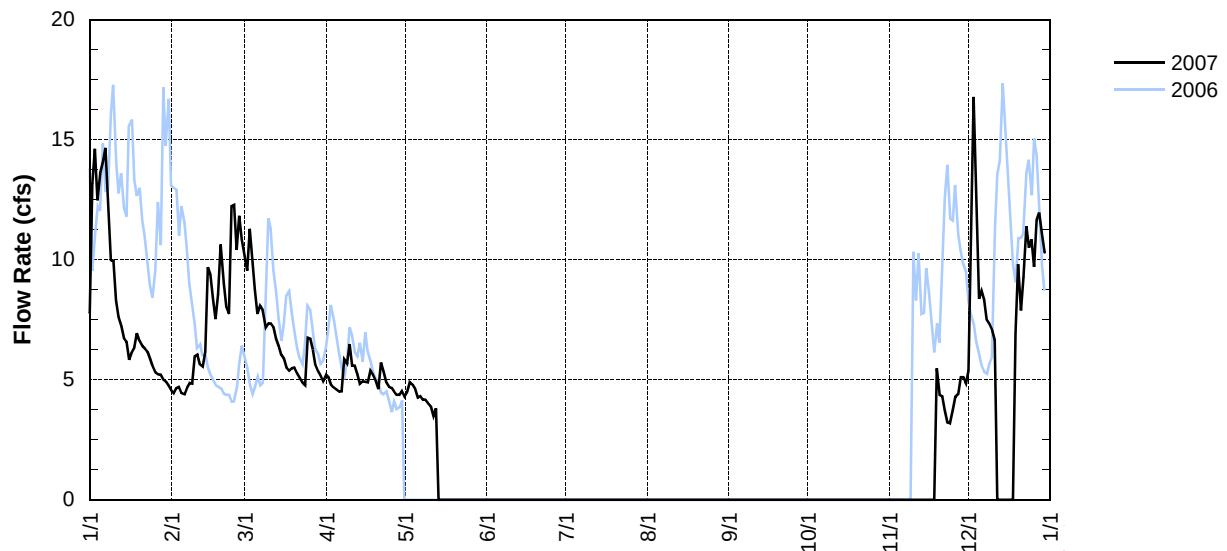


USAFG – CLEAN WATER SERVICES FOREST GROVE WASTEWATER TREATMENT PLANT DISCHARGE [RM 55.2]

Source Agency: Clean Water Services

Day	2007 — Mean Daily Water Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	7.8	4.6	9.5	5.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	5.4
2	13.2	4.5	11.3	4.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	11.4
3	14.6	4.6	10.0	4.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0	16.8
4	12.5	4.7	8.7	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	12.8
5	13.6	4.4	7.7	4.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	8.4
6	14.1	4.4	8.1	4.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	8.7
7	14.7	4.7	7.9	5.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	8.3
8	12.0	4.9	7.2	5.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	7.5
9	10.0	4.8	7.4	6.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3
10	10.0	6.0	7.3	5.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	7.1
11	8.3	6.1	7.2	5.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	6.6
12	7.6	5.6	6.7	5.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	7.2	5.5	6.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	6.7	6.2	6.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	6.6	9.7	5.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	5.8	9.4	5.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	6.1	8.4	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	6.3	7.5	5.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	6.9	8.6	5.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	5.5	6.9
20	6.6	10.6	5.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	4.4	9.8
21	6.4	9.0	5.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	4.3	7.9
22	6.3	8.0	4.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.3
23	6.1	7.7	4.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	3.2	11.4
24	5.9	12.2	6.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	3.2	10.5
25	5.5	12.3	6.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	3.7	10.8
26	5.3	10.4	6.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.3	9.7
27	5.2	11.8	5.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	4.4	11.7
28	5.2	10.9	5.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	5.1	12.0
29	5.0	—	5.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	5.1	11.0
30	4.9	—	4.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	4.8	10.3
31	4.8	—	5.2	—	0.0	—	0.0	0.0	—	0.0	—	9.1

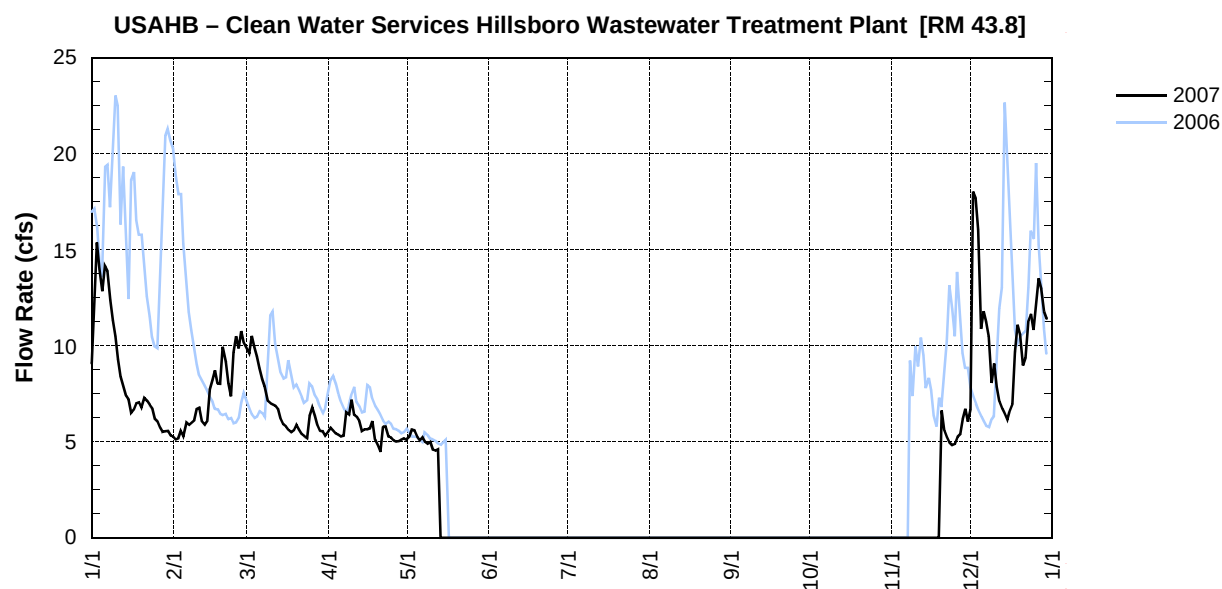
USAFG –Clean Water Services Forest Grove Wastewater Treatment Plant Discharge [RM 55.2]



USAHB – CLEAN WATER SERVICES HILLSBORO WASTEWATER TREATMENT PLANT DISCHARGE [RM 43.8]

Source Agency: Clean Water Services

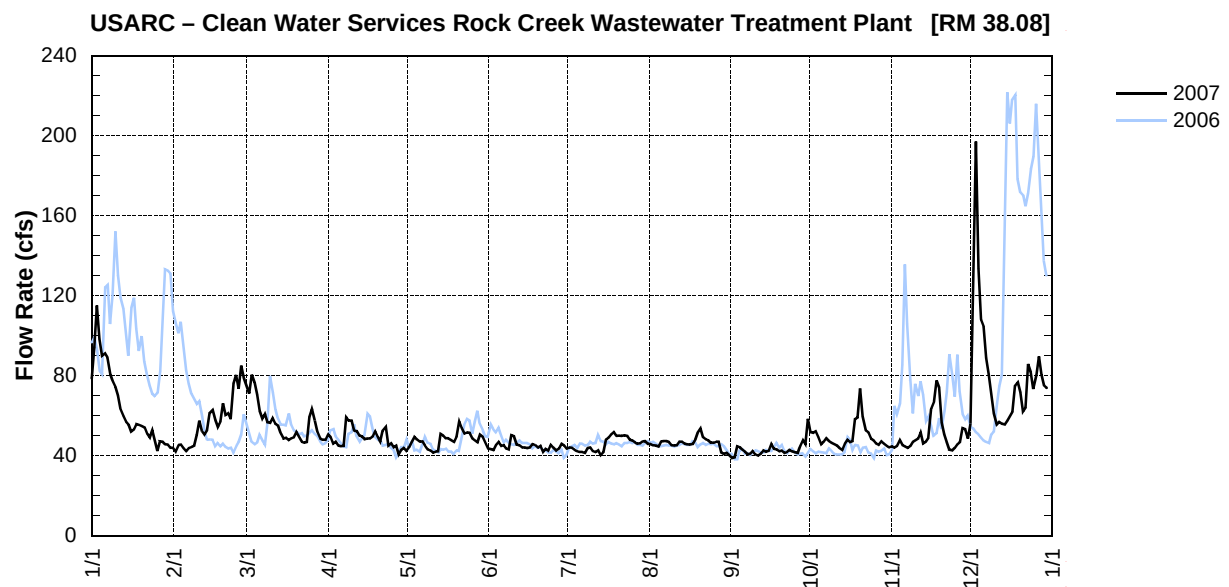
Day	2007 — Mean Daily Water Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	9.1	5.3	9.6	5.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	6.7
2	12.8	5.1	10.5	5.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0	18.0
3	15.4	5.2	9.9	5.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	17.7
4	14.0	5.6	9.4	5.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0	16.0
5	12.8	5.3	8.8	5.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	10.9
6	14.1	6.0	8.3	5.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0	11.8
7	13.9	5.9	7.9	6.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
8	12.4	6.0	7.1	6.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	10.5
9	11.3	6.1	7.0	7.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1
10	10.5	6.7	7.0	6.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	9.1
11	9.3	6.8	6.9	6.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0	7.9
12	8.4	6.1	6.7	6.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	7.1
13	7.9	5.9	6.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7
14	7.4	6.1	5.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5
15	7.2	7.7	5.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1
16	6.5	8.2	5.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6
17	6.7	8.7	5.5	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0
18	7.0	8.0	5.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
19	7.1	8.0	5.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1
20	6.8	9.9	5.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	6.6	10.6
21	7.3	9.1	5.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5.6	9.0
22	7.1	8.1	5.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	5.2	9.4
23	6.9	7.4	5.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	5.0	11.3
24	6.7	9.7	6.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	4.8	11.7
25	6.2	10.5	6.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	4.9	10.8
26	6.1	9.9	6.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	12.1
27	5.7	10.8	5.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	13.5
28	5.5	10.1	5.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0	6.2	13.0
29	5.5	—	5.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0	6.7	11.8
30	5.6	—	5.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.4
31	5.3	—	5.5	—	0.0	—	0.0	0.0	—	0.0	—	10.3



USARC – CLEAN WATER SERVICES ROCK CREEK WASTEWATER TREATMENT PLANT DISCHARGE [RM 38.08]

Source Agency: Clean Water Services

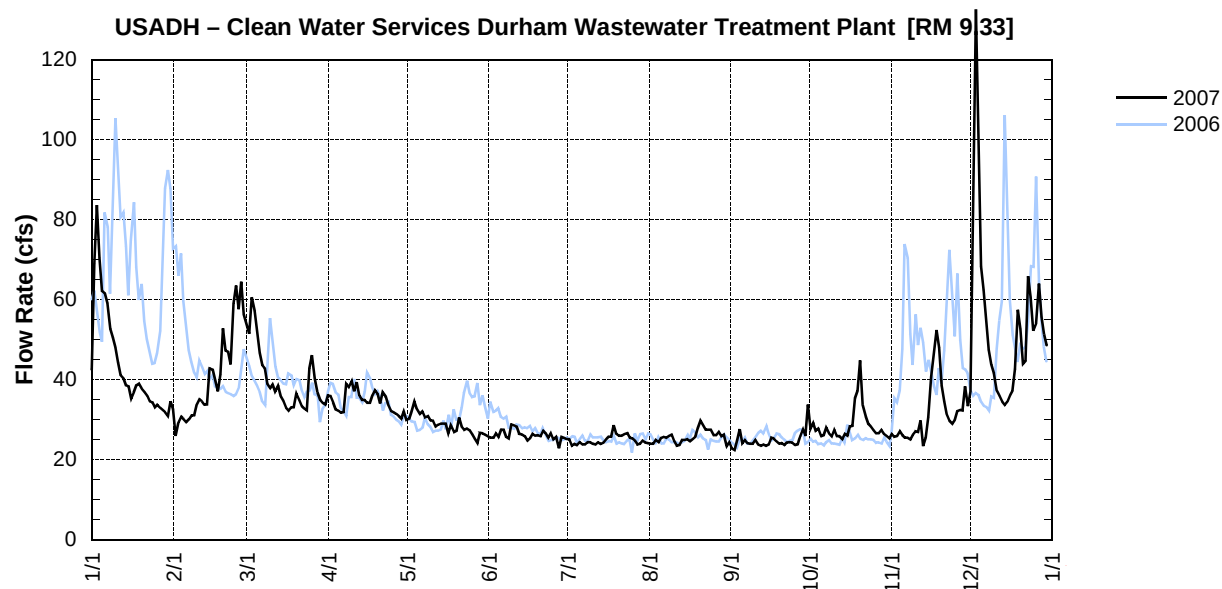
Day	2007 — Mean Daily Water Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	78.8	43.9	71.1	49.4	44.5	43.3	44.1	45.9	38.9	51.7	44.7	56.1
2	94.4	42.1	76.6	47.0	49.4	45.5	43.0	45.1	44.7	52.3	44.9	145.6
3	115.2	45.3	70.5	45.0	48.1	46.8	42.4	44.6	44.3	49.3	47.8	197.2
4	98.4	45.7	62.3	44.7	46.9	44.9	41.9	47.2	43.1	45.7	45.5	133.5
5	90.0	43.8	58.7	44.8	47.2	45.5	41.9	47.3	42.0	47.1	44.8	107.9
6	91.1	42.4	60.8	59.3	45.1	43.6	41.4	47.4	40.7	48.8	44.0	104.7
7	89.1	43.8	56.8	57.5	43.2	43.1	43.8	46.8	41.0	47.5	44.9	88.9
8	80.8	44.4	56.6	57.6	42.6	50.4	44.2	45.2	42.5	46.5	47.1	80.7
9	77.2	45.1	58.9	52.5	41.6	49.8	42.3	45.1	40.7	45.9	47.8	70.3
10	74.4	50.5	56.1	52.3	42.0	45.6	41.8	45.2	40.2	45.2	48.6	61.1
11	70.0	57.5	55.2	50.0	42.2	45.2	42.7	47.0	41.2	44.1	51.7	55.6
12	63.2	52.4	51.0	49.6	51.0	44.2	40.2	46.9	42.7	43.1	46.1	56.9
13	59.9	50.7	48.7	48.3	50.3	44.1	41.9	46.0	42.1	46.1	47.1	55.9
14	57.0	52.8	49.0	48.5	48.8	43.7	48.0	45.7	42.5	48.0	48.9	55.7
15	55.6	61.1	47.8	48.6	48.8	44.2	49.1	45.5	46.0	46.8	63.7	57.6
16	52.1	62.8	48.8	49.5	48.0	45.8	50.8	45.9	43.4	47.4	67.1	59.8
17	53.0	57.9	49.3	52.3	46.9	45.5	51.8	48.0	43.1	58.5	77.7	62.0
18	55.8	54.5	51.8	49.6	49.7	44.1	49.8	51.8	42.2	59.1	74.3	75.0
19	55.5	57.2	49.3	47.0	57.1	44.9	49.9	53.7	42.5	73.7	56.6	76.7
20	55.0	66.3	47.0	52.6	53.8	41.9	49.8	49.2	41.3	59.5	50.7	71.6
21	54.2	60.4	46.4	54.5	51.1	43.5	50.3	48.2	41.8	52.6	46.7	62.3
22	50.9	61.3	46.8	45.0	51.6	42.7	49.9	47.8	43.0	51.5	43.1	64.1
23	49.0	58.5	59.3	46.2	51.5	45.6	48.0	46.5	42.2	48.6	42.7	85.8
24	52.8	76.1	63.3	44.3	48.7	44.1	47.6	46.4	41.7	47.7	43.8	82.1
25	47.7	80.5	57.5	45.0	47.7	42.8	46.6	47.1	41.4	46.2	45.8	73.4
26	42.4	73.5	52.0	40.7	46.7	43.6	46.1	47.0	45.1	45.6	46.8	80.2
27	47.3	85.2	48.6	43.0	50.5	46.0	46.2	41.7	47.8	47.3	53.9	89.7
28	47.0	79.0	47.9	43.9	49.5	45.1	47.3	41.0	45.8	46.1	53.5	80.5
29	45.8	—	47.9	42.6	46.8	43.6	47.3	41.5	58.6	44.9	48.6	75.0
30	45.5	—	50.8	44.5	43.5	44.1	45.9	40.2	51.7	44.3	56.1	73.8
31	43.9	—	49.4	—	43.3	—	45.9	38.9	—	44.7	—	67.5



USADH – CLEAN WATER SERVICES DURHAM WASTEWATER TREATMENT PLANT DISCHARGE [RM 38.08]

Source Agency: Clean Water Services

Day	2007 — Mean Daily Water Discharge in Cubic Feet per Second											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	42.5	32.6	51.5	35.9	30.3	25.5	25.1	24.0	22.9	27.8	26.5	37.1
2	69.0	26.0	60.6	34.3	32.2	25.5	23.5	24.0	22.4	29.2	25.7	91.9
3	83.7	29.4	57.2	32.6	34.5	26.6	24.0	24.9	24.9	27.2	25.8	132.6
4	70.5	30.8	51.7	32.3	32.6	25.7	23.7	24.4	27.7	27.8	27.1	89.9
5	62.2	30.2	46.7	31.7	31.4	27.5	24.4	25.5	24.1	25.8	26.1	68.4
6	61.6	29.4	43.6	31.9	32.0	27.5	23.8	25.7	24.9	26.1	25.5	62.5
7	59.1	30.2	42.9	39.0	30.6	25.7	23.8	25.5	24.1	28.0	25.5	54.9
8	52.8	31.1	38.8	38.2	30.9	25.4	24.4	26.0	24.0	26.8	25.1	47.5
9	50.6	31.1	37.9	39.8	29.9	28.8	24.4	26.3	24.0	25.8	26.3	43.8
10	48.1	33.9	38.8	37.1	29.7	28.6	24.0	24.6	24.9	27.5	27.1	41.6
11	44.4	35.1	37.1	39.4	28.3	28.3	23.8	23.5	23.8	25.8	26.9	37.3
12	41.2	34.7	38.5	36.0	28.8	26.5	24.4	23.7	23.5	25.8	29.9	36.0
13	40.4	33.7	35.7	35.0	29.1	26.3	24.0	24.9	23.8	25.2	23.4	34.5
14	38.7	33.9	34.7	35.0	29.1	25.8	24.3	24.9	23.5	26.5	25.5	33.7
15	38.4	42.9	33.0	34.2	29.1	24.8	25.1	25.2	23.8	26.0	30.6	34.5
16	35.3	42.5	32.3	34.2	26.6	25.4	25.7	24.6	25.5	28.3	40.7	36.0
17	36.8	39.8	33.1	36.2	28.6	26.5	25.7	25.2	25.4	28.5	46.7	37.3
18	38.7	37.1	33.1	37.4	26.9	26.0	28.6	25.7	24.6	35.4	52.4	42.7
19	39.0	41.3	36.5	36.5	27.2	26.1	26.5	28.0	24.0	37.3	48.1	57.5
20	37.9	52.9	35.0	34.0	30.5	25.8	26.0	29.7	24.1	44.9	38.5	52.8
21	37.0	47.3	33.4	36.8	28.3	27.2	26.0	28.6	23.7	33.7	34.7	43.9
22	36.0	47.0	32.8	35.7	27.5	26.6	26.5	27.5	24.3	30.8	31.2	44.7
23	34.7	43.8	32.3	33.6	27.8	25.5	26.8	27.5	24.4	28.9	29.7	65.9
24	34.3	59.1	42.9	32.2	27.4	26.6	25.5	27.5	24.3	28.3	29.1	60.6
25	33.1	63.6	46.1	31.9	26.3	25.1	25.4	26.1	23.7	27.4	30.0	52.3
26	33.7	57.7	40.2	31.6	25.2	25.7	24.8	26.1	23.8	26.6	32.2	54.1
27	33.0	64.5	37.0	30.9	24.1	22.9	23.8	26.9	26.0	26.6	32.5	64.0
28	32.5	56.3	35.0	30.3	26.8	25.7	24.0	25.8	27.7	27.4	32.3	55.7
29	31.9	—	34.2	32.0	26.6	25.5	24.8	26.3	26.0	26.5	38.4	51.4
30	30.9	—	33.9	30.0	26.3	25.2	24.3	23.4	33.9	25.8	33.4	48.6
31	34.7	—	36.0	—	25.8	—	24.1	24.4	—	25.4	—	44.4

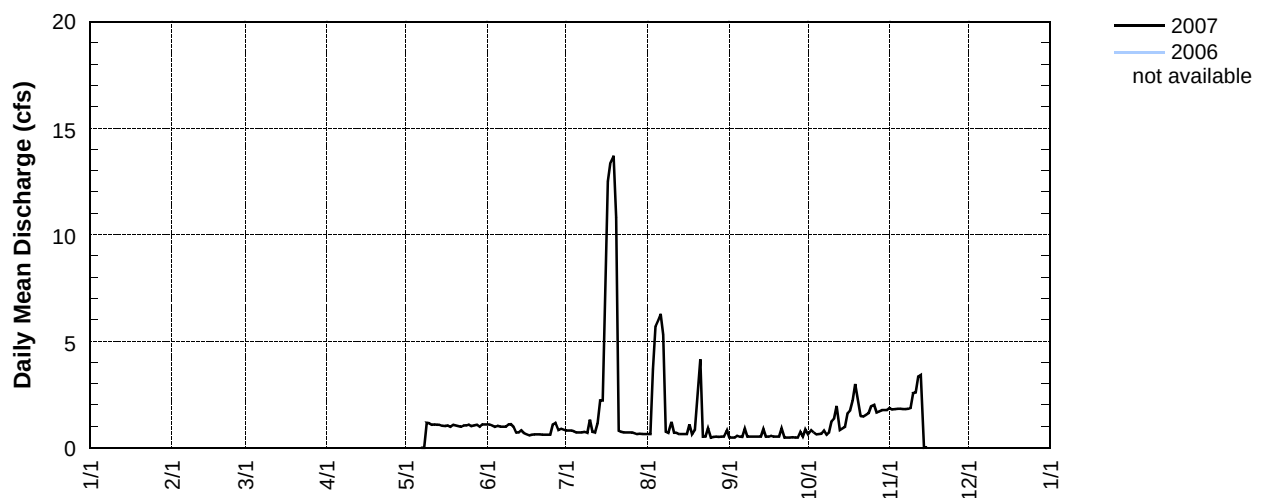


LOCL – LAKE OSWEGO CANAL [RM 6.7]

Source Agency: District 18 Watermaster

Day	2007 — Daily Water Discharge in Cubic Feet per Second											
	JAN	FEB*	MAR*	APR*	MAY	JUN	JUL	AUG	SEP	OCT	NOV*	DEC*
1						1.1	0.80	0.64	0.47	0.63	1.9	
2						1.1	0.80	0.64	0.47	0.82	1.8	
3						1.0	0.80	3.7	0.47	0.73	1.8	
4						1.0	0.78	5.7	0.57	0.62	1.8	
5						1.0	0.72	6.0	0.52	0.64	1.8	
6						1.0	0.72	6.3	0.51	0.66	1.8	
7						1.0	0.73	5.3	0.89	0.8	1.8	
8					1.3	1.0	0.74	0.76	0.52	0.61	1.8	
9					1.2	1.1	0.70	0.71	0.52	0.71	1.9	
10					1.2	1.1	1.3	1.2	0.52	1.2	2.6	
11					1.1	0.99	0.73	0.71	0.52	1.4	2.6	
12					1.1	0.72	0.72	0.71	0.52	2.0	3.3	
13					1.1	0.72	1.1	0.64	0.52	0.83	3.4	
14					1.1	0.81	2.2	0.63	0.88	0.91		
15					1.0	0.71	2.2	0.63	0.52	1.0		
16					1.0	0.64	8.8	0.63	0.52	1.6		
17					1.1	0.58	13	1.1	0.56	1.7		
18					1.0	0.6	13	0.63	0.52	2.2		
19					1.1	0.62	14	0.86	0.52	3.0		
20					1.0	0.63	11	2.6	0.52	2.2		
21					1.0	0.62	0.79	4.2	0.9	1.5		
22					0.99	0.59	0.73	0.52	0.47	1.5		
23					1.0	0.6	0.71	0.52	0.47	1.5		
24					1.1	0.6	0.71	0.92	0.47	1.6		
25					1.1	0.6	0.71	0.46	0.48	2.0		
26					1.0	1.1	0.71	0.50	0.47	2.0		
27					1.0	1.2	0.68	0.52	0.46	1.6		
28					1.1	0.83	0.64	0.51	0.74	1.7		
29		—			0.99	0.88	0.66	0.53	0.53	1.8		
30		—			1.1	0.85	0.64	0.52	0.86	1.8		
31		—		—	1.1	—	0.64	0.84	—	1.8	—	

LOCL — 14207000 — Oswego Canal near Lake Oswego, Oregon [RM 6.7]



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Appendix C

Scoggins Reservoir Operations Monthly Records

The information presented here regarding water allocations is provisional. Final allocations for municipal use can be found in the Appendix E of this report.

SCOGGINS DAM -- RESERVOIR OPERATIONS
January 2007

Source: Tualatin Valley Irrigation District

[See Appendix E for breakdown of municipal use by water provider.]

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER			WATER DELIVERIES													
	SCHO	SCLO	TANO	TOT	W.S.	STOR	CHNG	REL	COMP	GASO	DLLO	GOLF	ROOD	FROM	WSLO	PRECIP	TEMP	TEMP	TVID	CWS	LO	MUNI	OTHER										
	(cfs)	(cfs)	(cfs)	(cfs)	(ft)	(ac-ft)	(cfs)	(cfs)	(cfs)															(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(inches)	(°F)	(°F)	(cfs)	(cfs)
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]									
1	50	96	6	152	287.27	36534	-757	-382	572	190	412	1105	1860	4022	4510	5115	0.00	43	29	0	0	0	0	0									
2	47	96	6	149	286.43	35725	-809	-408	532	124	376	990	1727	3776	4230	4807	0.18	47	33	0	0	0	0	0									
3	117	268	20	405	286.52	35810	85	43	330	373	895	1111	1833	3859	4313	5643	1.32	53	46	0	0	0	0	0									
4	101	226	18	345	287.08	36343	533	269	196	465	837	1291	2099	4113	4547	5419	0.31	50	35	0	0	0	0	0									
5	80	172	14	266	286.66	35943	-400	-202	560	358	672	1575	2167	4163	4611	5366	0.08	41	33	0	0	0	0	0									
6	180	328	25	533	286.80	36026	83	42	501	543	1000	1479	na	4249	4704	5557	0.94	48	35	0	0	0	0	0									
7	122	365	20	507	287.87	37099	1073	541	26	567	901	1270	na	4425	4838	5392	0.14	47	37	0	0	0	0	0									
8	157	304	37	498	289.16	38346	1247	629	29	658	1000	1531	2224	4595	4986	5514	0.52	51	40	0	0	0	0	0									
9	113	231	26	370	290.20	39364	1018	513	26	539	871	1270	2305	4654	5061	5500	0.03	48	42	0	0	0	0	0									
10	92	185	20	297	290.09	39256	-108	-54	460	406	745	1518	2215	4671	5089	5571	0.18	51	32	0	0	0	0	0									
11	80	149	15	244	289.59	38766	-490	-247	537	290	643	1403	2157	4566	5020	5500	0.03	39	28	0	0	0	0	0									
12	66	125	12	203	289.02	38210	-556	-280	511	231	564	1236	2052	4374	4844	5326	0.00	36	19	0	0	0	0	0									
13	59	107	10	176	288.91	38103	-107	-54	280	226	489	857	1884	4118	4600	5102	0.00	35	21	0	0	0	0	0									
14	52	94	9	155	288.81	38006	-97	-49	244	195	419	792	1651	3819	4280	4819	0.00	29	21	0	0	0	0	0									
15	47	84	8	139	288.66	37861	-145	-73	240	167	362	654	1420	3488	3930	4447	0.00	36	18	0	0	0	0	0									
16	44	79	7	130	288.66	37861	0	0	166	166	329	566	1190	3136	3560	4063	0.25	36	24	0	0	0	0	0									
17	39	69	6	114	288.52	37726	-135	-68	208	140	296	553	1043	2761	3164	3619	0.03	32	28	0	0	0	0	0									
18	36	63	5	104	288.36	37571	-155	-78	204	126	272	529	921	2386	2756	3234	0.16	33	32	0	0	0	0	0									
19	34	60	5	99	288.20	37416	-155	-78	200	122	253	517	845	2010	2383	2877	0.03	37	32	0	0	0	0	0									
20	35	60	5	100	288.08	37301	-115	-58	197	139	287	523	815	1719	6069	2513	0.17	38	32	0	0	0	0	0									
21	31	55	4	90	287.89	37118	-183	-92	194	102	244	509	788	1548	1877	2294	0.00	44	31	0	0	0	0	0									
22	31	52	4	87	287.69	36926	-192	-97	189	92	231	494	759	1421	1729	2093	0.00	42	33	0	0	0	0	0									
23	30	52	4	86	287.59	36830	-96	-48	148	100	226	449	703	1323	1622	1944	0.00	49	34	0	0	0	0	0									
24	28	50	4	82	287.60	36840	10	5	101	106	219	387	635	1218	1512	1814	0.00	50	31	0	0	0	0	0									
25	27	47	3	77	287.64	36878	38	19	79	98	209	349	576	1113	1395	1691	0.00	47	29	0	0	0	0	0									
26	27	45	3	75	287.75	36984	106	53	35	88	200	289	505	1008	1288	1564	0.00	37	29	0	0	0	0	0									
27	24	43	3	70	287.87	37099	115	58	35	93	191	273	na	na	1184	1434	0.00	50	32	0	0	0	0	0									
28	23	40	3	66	287.99	37214	115	58	35	93	182	260	na	na	1112	1341	0.00	51	28	0	0	0	0	0									
29	22	39	3	64	288.08	37301	87	44	35	79	173	235	na	na	1054	1255	0.00	51	25	0	0	0	0	0									
30	21	38	3	62	288.20	37416	115	58	25	83	169	230	na	na	982	1188	0.00	45	25	0	0	0	0	0									
31	20	36	3	59	288.32	37532	116	58	25	83	160	224	na	na	939	1122	0.00	46	32	0	0	0	0	0									
TOTALS																	4.37 inches																
cfs	1835	3658	311	5804																	13827	24469	34374	82535	102189	113124	MAX	53	46	0	0	0	0
ac-ft	3640	7256	617	11512																	27426	48534	68181	163708	202692	224381	MIN	29	18	0	0	0	0

SNOTEL Summary for Water Year 2007			
Water storage elevation ± to fill curve:	1.41	Updated: January 31, 2007	
Water storage in ac-ft ± to fill curve:	1348	SECO W/Y pc: 45.9" sno depth/water content	0/0.04"
Percentage of full reservoir:	70.4%	SDMO W/Y pc: 63.7" sno depth/water content	0

RESERVOIR DELIVERY STATUS			
These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.			
USED	REMAINING	TVID	
0	0	CWS	12618
0	0	LO	500
0	0	MUNI	13500
0	0	Other	

Minimum Required Discharges	
Dec-Sept: 10 cfs	Oct-Nov: 20 cfs

SCOGGINS DAM -- RESERVOIR OPERATIONS
February 2007

[See Appendix E for breakdown of municipal use by water provider.]

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER			WATER DELIVERIES																																					
	SCHD		TANO		TOT	W.S.		STOR		CHNG		REL	COMP	GASO		DLLO		GOLF		ROOD		FROM		WSLO	PRECIP (inches) [17]	TEMP MAX (°F) [18]	TEMP MIN (°F) [19]	TVID (cfs) [20]	CWS (cfs) [21]	LO (cfs) [22]	MUNI (cfs) [23]	OTHR (cfs) [24]																									
	(cfs) [1]	(cfs) [2]	(cfs) [3]	(cfs) [4]	(ft) [5]	(ac-ft) [6]	(ac-ft) [7]	(cfs) [8]	(cfs) [9]	(cfs) [10]	(cfs) [11]	(cfs) [12]	(cfs) [13]	(cfs) [14]	(cfs) [15]	(cfs) [16]																																									
1	18	35	3	56	288.41	37619	87	44	25	69	154	201	346	686	909	1086								0.00	48	23	0	0	0	0	0																										
2	18	34	3	55	288.52	37726	107	54	26	80	145	189	315	636	854	1038								0.00	50	26	0	0	0	0	0																										
3	17	34	3	54	288.62	37822	96	48	26	74	138	180	293	596	809	969								0.00	49	26	0	0	0	0	0																										
4	17	32	3	52	288.70	37900	78	39	26	65	137	177	283	575	783	922								0.01	41	27	0	0	0	0	0																										
5	16	32	3	51	288.82	38016	116	58	26	84	133	173	289	546	750	889								0.00	61	38	0	0	0	0	0																										
6	15	31	2	48	288.89	38084	68	34	26	60	130	170	270	538	741	869								0.00	54	37	0	0	0	0	0																										
7	16	30	2	48	288.99	38181	97	49	26	75	126	168	262	524	721	844								0.01	52	38	0	0	0	0	0																										
8	16	30	2	48	289.06	38249	68	34	26	60	129	171		524	720	844								0.14	48	42	0	0	0	0	0																										
9	17	34	2	53	289.15	38337	88	44	25	69	128	169	293	552	749	863								0.18	52	43	0	0	0	0	0																										
10	17	30	2	49	289.27	38454	117	59	26	85	124	166	256	578	789	889								0.00	52	38	0	0	0	0	0																										
11	15	32	2	49	289.36	38541	87	44	26	70	138	185	291	663	861	969								0.40	51	41	0	0	0	0	0																										
12	17	38	2	57	289.46	38639	98	49	26	75	147	187	311	774	1041	1158								0.08	50	42	0	0	0	0	0																										
13	16	36	2	54	289.58	38756	117	59	26	85	146	189	329	717	968	1180								0.07	52	42	0	0	0	0	0																										
14	15	34	2	51	289.68	38854	98	49	26	75	132	196	278	681	924	1108								0.00	52	39	0	0	0	0	0																										
15	26	46	5	77	289.83	39001	147	74	26	100	176	231	343	690	917	1108								0.51	50	42	0	0	0	0	0																										
16	70	110	7	187	290.36	39521	520	262	16	278	696	530	792	1075	1283	1458								0.78	53	46	0	0	0	0	0																										
17	50	246	6	302	290.74	39896	375	189	16	205	464	548	896	1589	1875	2017								0.06	55	47	0	0	0	0	0																										
18	43	192	6	241	291.05	40203	307	155	16	171	356	493	823	1589	1929	2304								0.02	59	39	0	0	0	0	0																										
19	38	181	6	225	291.35	40480	277	140	16	156	324	449	764	1445	1780	2227								0.03	47	36	0	0	0	0	0																										
20	106	234	18	358	291.77	40919	439	221	16	237	713	525	788	1375	1692	2227								0.91	50	41	0	0	0	0	0																										
21	83	172	13	268	292.48	41630	711	358	16	374	734	700	1300	1971	2242	2554								0.17	48	36	0	0	0	0	0																										
22	64	135	10	209	293.03	42184	554	279	16	295	576	671	1336	2145	2468	2935								0.03	48	37	0	0	0	0	0																										
23	54	110	8	172	293.48	42640	456	230	16	246	495	597	1267	2234	2569	3024								0.12	47	34	0	0	0	0	0																										
24	56	114	10	180	293.88	43047	407	205	16	221	475	548	1105	2768	2514	3054								0.40	45	38	0	0	0	0	0																										
25	103	190	18	311	294.66	43835	788	397	16	413	743	696	1365	2385	2751	3423								1.06	45	41	0	0	0	0	0																										
26	108	201	20	329	295.45	44659	824	415	16	431	734	795	1532	2635	3045	3911								0.42	43	35	0	0	0	0	0																										
27	89	170	21	280	296.16	45397	738	372	17	389	636	774	1660	2740	3140	3878								0.25	43	35	0	0	0	0	0																										
28	84	146	24	254	296.91	46182	785	396	16	412	643	795	1746	3031	3429	4185								0.77	41	32	0	0	0	0	0																										
TOTALS																															6.42 inches																										
cfs		1204	2709	205	4118			4361		597	4958	9672		10873	19533	36262	43253	51933					51933		61		47	0		0	0	0																									
c-c-ft		2388	5373	407	8168			8650		8650	1184	9834	19184		21567	38744	71926	85792	103009					MAX		41	23	0		0	0	0																									

SNOTEL Summary for Water Year 2007										RESERVOIR DELIVERY STATUS										USED					REMAINING				
Updated: February 28, 2007										These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.										TVID					12618				
SECO W/Y pc: 55.1" sno depth/water content										na/1.8"										CWS					0				
SDMO W/Y pc: 73.6" sno depth/water content										na/12.4"										LO					0				
Minimum Required Discharges																				MUNI					0				
Dec-Sept: 10 cfs Oct-Nov: 20 cfs																				Other					13500				

SCOGGINS DAM -- RESERVOIR OPERATIONS
March 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Tualatin Valley Irrigation District

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER			WATER DELIVERIES											
	SCHO	SCLO	TANO	TOT	W.S.	STOR	CHNG	REL	COMP	GASO	DLLO	GOLF	ROOD	FROM	WSLO	PRECIP	TEMP	TEMP	TVID	CWS	LO	MUNI	OTHER								
	(cfs)	(cfs)	(cfs)	(cfs)	(ft)	(ac-ft)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(inches)	(°F)	(°F)						(cfs)	(cfs)	(cfs)	(cfs)				
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]								
1	70	123	18	211	297.36	46655	473	238	102	340	586	816	1739	3119	3525	4185	0.28	42	33	1	0	0	0	0							
2	67	119	17	203	297.54	46845	190	96	201	297	544	825	1676	3111	3501	4189	0.27	43	34	1	0	0	0	0							
3	81	153	17	251	297.68	46993	148	75	251	326	633	928	1691	3244	3620	4429	0.41	48	38	1	0	0	0	0							
4	89	158	17	264	297.84	47163	170	86	250	336	635	941	1739	3240	3675	4312	0.00	55	41	1	0	0	0	0							
5	89	160	17	266	297.94	47269	106	53	248	301	623	910	1748	3254	3631	4231	0.00	60	42	1	0	0	0	0							
6	84	160	13	257	298.10	47438	169	85	248	333	620	860	1705	3213	3574	4104	0.00	63	37	1	0	0	0	0							
7	80	158	11	249	298.20	47545	107	54	246	300	609	835	1635	3149	3501	3990	0.16	64	36	1	0	0	0	0							
8	70	151	8	229	298.31	47662	117	59	196	255	612	790	1560	3077	3426	3911	0.08	52	40	1	0	0	0	0							
9	60	135	7	202	298.45	47811	149	75	151	226	566	723	1477	2941	3274	3734	0.07	51	40	1	0	0	0	0							
10	59	149	7	215	298.56	47928	117	59	243	302	594	756	1401		3114	3593	0.28	50	52	1	0	0	0	0							
11	69	209	8	286	298.63	48003	75	38	242	280	759	780	1580		2929	3402	0.23	58	50	0	0	0	0	0							
12	67	203	7	277	298.89	48281	278	140	152	292	739	810	1445		2769	3236	0.08	66	53	0	0	0	0	0							
13	57	160	7	224	299.21	48624	343	173	102	275	626	na	1458	2354	2662	3105	0.00	58	37	1	0	0	0	0							
14	48	131	6	185	299.46	48892	268	135	101	236	532	655	1365	2230	2535	2955	0.00	50	36	1	0	0	0	0							
15	45	110	6	161	299.63	49043	151	76	102	178	452	585	1195	2078	2385	2799	0.00	51	29	1	0	0	0	0							
16	42	96	5	143	299.77	49226	183	92	102	194	396	537	1022	1852	2169	2628	0.00	57	31	1	0	0	0	0							
17	38	85	5	128	299.93	49464	238	120	81	201	348	483	858	1595	1915	2373	0.00	70	37	1	0	0	0	0							
18	36	77	5	118	300.05	49529	65	33	80	113	311	441	750	1384	1678	2083	0.00	64	40	1	0	0	0	0							
19	33	69	5	107	300.14	49626	97	49	80	129	284	410	713	1217	1488	1841	0.00	64	44	1	0	0	0	0							
20	36	66	4	106	300.23	49724	98	49	99	148	295	416	678	1175	1422	1796	0.15	58	40	1	0	0	0	0							
21	30	60	4	94	300.25	49745	21	11	99	110	278	405	666	1138	1391	1682	0.00	47	30	1	0	0	0	0							
22	27	56	3	86	300.34	49843	98	49	60	109	253	342	572	1011	1269	1572	0.00	53	38	1	0	0	0	0							
23	26	52	3	81	300.45	49962	119	60	60	120	233	322	524	902	1146	1434	0.00	57	41	1	0	0	0	0							
24	25	51	3	79	300.52	50039	77	39	60	99	221	309	495	840	1069	1333	0.00	57	44	1	0	0	0	0							
25	30	65	3	98	300.64	50169	130	66	60	126	327	361	559	1064	1267	1682	0.62	61	44	1	0	0	0	0							
26	26	55	3	84	300.74	50278	109	55	60	115	285	354	602	1303	1560	1805	0.00	58	35	1	0	0	0	0							
27	26	52	3	81	300.88	50430	152	77	29	106	264	300	533	1105	1382	1787	0.08	49	38	1	0	0	0	0							
28	23	49	3	75	301.01	50572	142	72	19	91	230	274	477	964	1229	1580	0.08	50	31	1	0	0	0	0							
29	22	46	3	71	301.14	50714	142	72	19	91	211	258	429	840	1080	1402	0.00	57	31	1	0	0	0	0							
30	21	44	3	68	301.28	50867	153	77	19	96	197	248	415	770	990	1271	0.00	64	34	1	0	0	0	0							
31	20	43	3	66	301.40	50999	132	67	19	86	168	236	385	729	939	1202	0.00	63	40	1	0	0	0	0							
TOTALS																	2.79 inches														
cfs	1496	3245	224	4965																	MAX			70	53	29	0	0	0	0	
ac-ft	2967	6436	444	9848																	MIN			42	29	58	0	0	0	0	0

SNOTEL Summary for Water Year 2007			
Water storage elevation ± to fill curve:	-0.23	Updated: March 31, 2007	
Water storage in ac-ft ± to fill curve:	-249	SECO W/Y pc: 59.9" sno depth/water content	0
Percentage of full reservoir:	95.6%	SDMO W/Y pc: 78.8" sno depth/water content	0

RESERVOIR DELIVERY STATUS			
These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.			
USED	REMAINING		
TVID 58	12618		
CWS 0	500		
LO 0	13500		
MUNI 0			
Other 0			

Minimum Required Discharges	
Dec-Sept: 10 cfs	Oct-Nov: 20 cfs

SCOGGINS DAM -- RESERVOIR OPERATIONS
April 2007

Source: Tualatin Valley Irrigation District

[See Appendix E for breakdown of municipal use by water provider.]

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER			WATER DELIVERIES					
	SCHO	SCLO	TANO	TOT	W.S.	STOR	CHNG	REL	COMP	GASO	DLLO	GOLF	ROOD	FROM	WSLO	PRECIP	TEMP	TEMP	TVID	CWS	LO	MUNI	OTHR		
	(cfs)	(cfs)	(cfs)	(cfs)	(ft)	(ac-ft)	(ac-ft)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(inches)	(°F)	(°F)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)		
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]	
1	19	38	3	60	301.51	51119	120	61	19	80	175	225	383	788	995	1240	0.03	55	28	1	0	0	0	0	
2	18	38	3	59	301.60	51218	99	50	19	69	166	219	358	694	911	1188	0.00	52	30	2	0	0	0	0	
3	18	36	3	57	301.69	51317	99	50	19	69	159	205	312	636	837	1072	0.01	48	28	4	0	0	0	0	
4	17	35	2	54	301.80	51438	121	61	21	82	152	203	303	594	783	1004	0.01	51	30	4	0	0	0	0	
5	16	34	2	52	301.89	51539	101	51	13	64	143	177	277	565	752	956	0.00	63	42	5	0	0	0	0	
6	16	32	2	50	302.01	51669	130	66	13	79	137	164	239	520	702	902	0.00	74	45	9	0	0	0	0	
7	16	38	2	56	302.13	51802	133	67	13	80	133	158	251	492	661	863	0.19	76	31	9	0	0	0	0	
8	17	38	3	58	302.27	51956	154	78	13	91	156	180	338	702	899	1038	0.24	64	39	5	0	0	0	0	
9	23	45	3	71	302.41	52111	155	78	13	91	167	182	297	702	909	1248	0.29	54	42	5	0	0	0	0	
10	30	62	3	95	302.50	52210	99	50	99	149	243	346	521	788	999	1273	0.31	51	39	4	0	0	0	0	
11	25	54	3	82	302.51	52221	11	6	99	105	230	324	519	826	1054	1271	0.03	58	39	3	0	0	0	1	
12	24	52	3	79	302.52	52233	12	6	99	105	217	313	498	791	1017	1301	0.19	50	41	3	0	0	0	1	
13	21	49	3	73	302.51	52221	-12	-6	99	93	192	296	459	766	988	1248	0.00	52	36	3	0	0	0	1	
14	20	46	3	69	302.49	52199	-22	-11	99	88	181	285	440	718	934	1210	0.02	61	42	3	0	0	0	0	
15	18	43	2	63	302.52	52233	34	17	62	79	166	224	357	689	901	1144	0.00	56	33	3	0	0	0	0	
16	17	40	2	59	302.57	52288	55	28	54	82	155	212	330	599	803	1058	0.00	56	37	3	0	0	0	0	
17	18	43	2	63	302.63	52354	66	33	54	87	156	210	337	569	756	990	0.11	53	36	3	0	0	0	0	
18	16	39	2	57	302.66	52388	34	17	54	71	158	213	358	643	819	1045	0.16	50	35	3	0	0	0	0	
19	16	37	2	55	302.77	52510	122	62	21	83	152	174	287	706	916	1151	0.00	51	33	2	0	0	0	0	
20	15	35	2	52	302.86	52610	100	50	21	71	145	165	271	623	833	1101	0.00	55	32	3	0	0	0	0	
21	14	34	2	50	302.95	52710	100	50	22	72	138	159	356	558	755	917	0.03	59	36	2	0	0	0	0	
22	19	44	3	66	303.10	52876	166	84	22	106	185	202	349	617	803	1024	0.47	50	41	3	0	0	0	0	
23	16	38	2	56	303.20	52988	112	56	22	78	162	180	313	658	861	1031	0.05	57	37	2	0	0	0	0	
24	15	37	2	54	303.43	53244	256	129	94	223	151	252	378	394	787	1010	0.00	64	44	3	0	0	0	0	
25	15	35	2	52	303.37	53177	-67	-34	103	69	145	249	363	599	790	969	0.01	58	41	3	0	0	0	0	
26	14	34	2	50	303.38	53189	12	6	61	67	137	195	298	262	755	942	0.00	58	39	4	0	0	0	0	
27	14	32	2	48	303.41	53222	33	17	44	61	131	169	261	499	684	889	0.00	63	45	4	0	0	0	0	
28	13	28	2	43	303.46	53278	56	28	39	67	125	160	249	455	628	819	0.00	66	49	4	0	0	0	0	
29	13	29	2	44	303.49	53311	33	17	39	56	118	152	233	426	597	770	0.00	67	42	2	0	0	0	0	
30	12	28	2	42	303.54	53367	56	28	39	67	115	148	212	404	571	734	0.00	66	37	2	0	0	0	0	
TOTALS																	2.15 inches								
cfs		525	1173	71	1769	1194				1389	2583	6341	10147	18283	24700	31408	MAX		76	49	106	0	0	0	3
ac-ft		1041	2327	141	3509	2368				2368	2755	5123	9501	12577	20127	36264	48992	MIN		48	28	210.2	0	0	6

SNOTEL Summary for Water Year 2007			
Water storage elevation ± to fill curve:	0.08	Updated: April 30, 2007	
Water storage in ac-ft ± to fill curve:	88	SECO W/Y pc: 61.7"	sno depth/water content 0
Percentage of full reservoir:	100.1%	SDMO W/Y pc: 82.5"	sno depth/water content 0

RESERVOIR DELIVERY STATUS			
These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.			
TVID	267	USED	REMAINING
CWS	0		12618
LO	0		500
MUNI	0		13500
Other	6		

Minimum Required Discharges	
Dec-Sept: 10 cfs	Oct-Nov: 20 cfs

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER			WATER DELIVERIES						
	SCHO	SCLO	TANO	TOT	W.S.	STOR	CHNG	REL	COMP	GASO	DLLO	GOLF	ROOD	FROM	WSLO	PRECIP	TEMP MAX	TEMP MIN	TVID	CWS	LO	MUNI	OTHER			
	(cfs)	(cfs)	(cfs)	(cfs)	(ft)	(ac-ft)	(cfs)	(cfs)	(cfs)															(cfs)	(cfs)	(cfs)
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]		
1	12	27	2	41	303.49	53311	-56	-28	74	46	111	177	233	390	549	700	0.00	61	43	0	0	0	0	0		
2	12	28	2	42	303.52	53345	34	17	52	69	120	166	223	410	559	711	0.19	57	47	0	0	0	0	0		
3	12	30	2	44	303.53	53356	11	6	58	64	123	170	259	486	654	770	0.18	53	39	0	0	0	0	0		
4	12	26	2	40	303.54	53367	11	6	58	64	117	170	252	537	711	929	0.05	55	40	0	0	0	0	1		
5	11	25	2	38	303.54	53367	0	0	52	52	110	159	229	495	690	902	0.15	56	33	0	0	0	0	1		
6	10	25	2	37	303.54	53367	0	0	52	52	105	154	230	424	604	819	0.00	58	41	0	0	0	0	1		
7	10	24	2	36	303.54	53367	0	0	52	52	101	150	212	385	553	722	0.00	65	41	0	0	0	0	1		
8	10	23	2	35	303.54	53367	0	0	52	52	96	146	193	362	510	683	0.00	80	47	0	0	0	0	2		
9	9	21	2	32	303.49	53311	-56	-28	52	24	92	140	184	322	465	636	0.00	77	34	0	0	0	0	2		
10	9	20	2	31	303.49	53311	0	0	32	32	89	117	144	292	433	589	0.00	66	39	0	0	0	0	2		
11	9	20	2	31	303.50	53323	12	6	32	38	86	109	151	264	389	532	0.00	69	37	0	0	0	0	2		
12	8	20	2	30	303.53	53356	33	17	32	49	84	108	134	240	367	502	0.00	70	41	0	0	0	0	2		
13	8	19	1	28	303.53	53356	0	0	32	32	83	104	128	224	345	482	0.00	58	41	0	0	0	0	2		
14	8	19	1	28	303.55	53378	22	11	32	43	81	101	126	227	352	459	0.00	57	39	0	0	0	0	2		
15	8	18	1	27	303.53	53356	-22	-11	52	41	78	118	119	200	320	454	0.00	78	47	0	0	0	0	2		
16	7	17	1	25	303.51	53334	-22	-11	41	30	75	103	93	194	310	427	0.00	80	39	0	0	0	0	2		
17	7	17	1	25	303.50	53323	-11	-6	39	33	75	101	89	169	280	401	0.00	68	39	0	0	0	0	2		
18	7	17	1	25	303.51	53334	11	6	33	39	73	90	92	161	258	376	0.00	68	40	0	0	0	0	2		
19	7	17	1	25	303.52	53345	11	6	33	39	74	91	71	161	249	360	0.04	67	50	0	0	0	0	2		
20	7	17	1	25	303.52	53345	0	0	33	33	73	91	103	164	246	348	0.07	60	45	0	0	0	0	2		
21	8	19	1	28	303.49	53311	-34	-17	65	48	88	179	103	236	323	384	0.22	56	39	0	0	0	0	2		
22	7	17	1	25	303.43	53244	-67	-34	58	24	77	121	129	279	372	432	0.00	58	39	0	0	0	0	2		
23	6	15	1	22	303.45	53267	23	12	15	27	71	74	84	227	341	454	0.00	65	42	0	0	0	0	2		
24	6	15	1	22	303.51	53334	67	34	13	47	70	71	65	172	270	410	0.00	70	48	0	0	0	0	2		
25	6	15	1	22	303.54	53367	33	17	20	37	67	72	44	151	238	360	0.00	76	48	0	0	0	0	3		
26	6	14	1	21	303.44	53256	-111	-56	94	38	65	130	108	126	210	329	0.00	76	51	20	0	0	50	3		
27	6	14	1	21	303.33	53133	-123	-62	93	31	64	128	114	157	237	299	0.00	72	51	20	0	0	50	3		
28	6	14	1	21	303.20	52988	-145	-73	93	20	63	135	119	171	257	299	0.00	58	45	20	0	0	50	3		
29	6	13	1	20	303.09	52866	-122	-62	93	31	62	130	97	169	260	325	0.00	66	42	20	0	0	50	3		
30	6	13	1	20	302.84	52587	-279	-141	172	31	59	200	132	146	232	329	0.00	85	53	74	0	0	75	3		
31	6	12	1	19	302.58	52299	-288	-145	166	21	81	207	132	167	250	306	0.00	88	48	75	0	0	69	3		
TOTALS																	0.90 inches									
cfs	252	591	43	886							2613	4012	4392	8108	11834	15729	MAX	88	53	229	0	0	344	59		
ac-ft	500	1172	85	1757							5183	7958	8712	16082	23473	31198	MIN	53	33	454	0	0	682	117		

SNOTEL Summary for Water Year 2007				RESERVOIR DELIVERY STATUS			
Updated: May 31, 2007				These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.			
Water storage elevation ± to fill curve:	-0.92	SECO W/Y pc:	63.0"	TVID	721	USED	REMAINING
Water storage in ac-ft ± to fill curve:	-1024	SDMO W/Y pc:	81.1"	CWS	0		12618
Percentage of full reservoir:	98.1%			LO	0		500
Minimum Required Discharges				MUNI	682		12818
Dec-Sept: 10 cfs				Other	123		
Oct-Nov: 20 cfs							

SCOGGINS DAM -- RESERVOIR OPERATIONS
June 2007

[See Appendix E for breakdown of municipal use by water provider.]

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER			WATER DELIVERIES							
	SCHO	SCLO	TANO	TOT	W.S.	STOR	CHNG	REL	COMP	GASO	DILLO	GOLF	ROOD	FROM	WSLO	PRECIP	TEMP	TEMP	TVID	CWS	LO	MUNI	OTHR				
	(cfs)	(cfs)	(cfs)	(cfs)	(ft)	(ac-ft)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(inches)	(°F)	(°F)									
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]			
1	6	11	1	18	302.34	52033	-266	-134	162	28	80	200	126	158	240	310	0.00	84	48	78	0	0	55	3			
2	6	11	1	18	302.08	51746	-287	-145	161	16	79	201	134	154	235	303	0.00	85	49	85	0	0	55	3			
3	6	11	1	18	301.83	51471	-275	-139	161	22	77	195	146	166	247	303	0.00	85	53	85	0	0	55	3			
4	6	11	1	18	301.56	51174	-297	-150	161	11	75	195	150	174	258	306	0.01	83	53	85	0	0	55	3			
5	5	11	1	17	301.35	50944	-230	-116	137	21	77	171	126	178	270	321	0.06	68	50	69	0	0	48	3			
6	5	11	1	17	301.17	50736	-208	-105	112	7	77	150	120	200	294	348	0.01	62	40	64	0	0	31	3			
7	5	11	1	17	301.00	50561	-175	-88	112	24	67	145	112	154	250	348	0.00	63	50	72	0	0	20	3			
8	8	12	1	21	300.82	50365	-196	-99	125	26	67	150	111	138	223	306	0.00	63	41	81	0	0	20	3			
9	8	11	1	20	300.64	50169	-196	-99	125	26	64	149	117	137	223	289	0.00	69	52	80	0	0	20	3			
10	8	12	1	21	300.50	50017	-152	-77	125	48	78	163	148	200	281	336	0.23	59	51	81	0	0	20	3			
11	7	11	1	19	300.32	49821	-196	-99	125	26	68	154	148	223	324	360	0.01	61	45	83	0	0	20	3			
12	7	10	1	18	300.27	49767	-54	-27	48	21	65	83	49	178	282	384	0.00	62	39	2	0	0	25	3			
13	7	10	1	18	300.14	49626	-141	-71	96	25	58	159	65	101	193	325	0.00	73	51	55	0	0	20	3			
14	7	10	1	18	299.94	49410	-216	-109	135	26	55	158	114	119	181	362	0.00	63	48	84	0	0	30	3			
15	7	10	1	18	299.70	49151	-259	-131	147	16	52	167	112	127	210	249	0.00	68	53	84	0	0	42	3			
16	7	10	1	18	299.49	48925	-226	-114	147	33	54	167	120	122	207	272	0.00	68	48	81	0	0	45	3			
17	7	9	1	17	299.25	48667	-258	-130	147	17	53	166	110	135	217	265	0.00	63	47	82	0	0	45	3			
18	7	9	1	17	299.03	48431	-236	-119	147	28	53	166	131		230	272	0.00	62	52	82	0	0	45	3			
19	6	9	1	16	298.83	48216	-215	-108	129	21	51	147	97		225	282	0.00	66	43	80	0	0	30	3			
20	6	9	1	16	298.62	47992	-224	-113	139	26	49	153	102		192	268	0.00	83	48	90	0	0	30	3			
21	6	8	1	15	298.35	47704	-288	-145	162	17	47	173	104	106	189	249	0.00	82	49	99	0	0	45	3			
22	6	9	1	16	298.10	47438	-266	-134	152	18	48	159	103	105	186	239	0.00	72	48	98	0	0	35	3			
23	6	8	1	15	297.86	47184	-254	-128	146	18	48	157	92	104	186	236	0.00	66	43	93	0	0	35	3			
24	6	9	1	16	297.63	46940	-244	-123	146	23	48	159	109	108	184	233	0.01	67	47	92	0	0	35	3			
25	6	9	1	16	297.39	46687	-253	-128	146	18	51	161	121	140	213	249	0.10	61	47	92	0	0	35	3			
26	6	8	1	15	297.16	46444	-243	-123	141	18	49	152	85	125	214	258	0.00	69	44	83	0	0	40	3			
27	6	7	1	14	296.93	46203	-241	-122	147	25	46	157	80	97	182	249	0.00	85	46	90	0	0	40	3			
28	6	7	1	14	296.69	45951	-252	-127	147	20	47	157	85	89	168	230	0.01	73	53	90	0	0	40	3			
29	7	11	1	19	296.46	45710	-241	-122	156	34	56	177	117	124	195	227	0.30	63	53	86	0	0	48	3			
30	7	9	1	17	296.25	45491	-219	-110	142	32	50	157	118	168	250	242	0.02	66	43	84	0	0	38	3			
TOTALS																	0.76 inches										
cfs	193	294	30	517					694	1789	4848	3352	3830	6749	8621			85	53	2410	0	0	1102	90			
ac-ft	383	583	60	1025					1376	3548	9616	6649	7597	13387	17100			59	39	4780	0	0	2186	179			

Water storage elevation ± to fill curve: -7.25		SNOTEL Summary for Water Year 2007				RESERVOIR DELIVERY STATUS				USED		REMAINING	
Water storage in ac-ft ± to fill curve: -7832		Updated: June 30, 2007				These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.				TVID		5501	
Percentage of full reservoir: 85.3%		SECO W/Y pc: 63.0" sno depth/water content 0								CWS		0	
		SDMO W/Y pc: 81.1" sno depth/water content 0								LO		0	
										MUNI		2868	
										Other		301	

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER		WATER DELIVERIES											
	SCHO	SCLO	TANO	TOT	W.S.	STOR	CHNG	REL	COMP	GASO	DLLO	GOLF	ROOD	FROM	WSLO	PRECIP	TEMP	TEMP	TVID	CWS	LO	MUNI	OTHR							
	(cfs)	(cfs)	(cfs)	(cfs)	(ft)	(ac-ft)	(ac-ft)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(inches)	(°F)	(°F)						(cfs)	(cfs)	(cfs)	(cfs)	(cfs)		
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]						
1	6	8	1	15	296.02	45251	-240	-121	142	21	46	152	100	149	240	278	0.00	75	49	86	0	0	38	3						
2	5	5	1	11	295.78	45002	-249	-126	142	16	46	152	91	127	214	285	0.00	73	48	88	0	0	38	3						
3	5	7	1	13	295.52	44732	-270	-136	161	25	56	178	85	99	185	255	0.00	78	52	87	10	0	48	3						
4	5	7	1	13	295.19	44391	-341	-172	194	22	53	208	125	89	167	227	0.00	84	54	98	20	0	60	3						
5	4	6	1	11	294.85	44040	-351	-177	193	16	54	210	92	94	173	213	0.00	89	55	99	20	0	60	3						
6	4	5	1	10	294.46	43640	-400	-202	216	14	54	231	141	109	189	210	0.00	88	47	117	40	0	45	4						
7	4	5	1	10	294.09	43261	-379	-191	198	7	54	213	127	113	196	215	0.00	83	47	99	40	0	45	4						
8	4	5	1	10	293.73	42894	-367	-185	198	13	53	210	116	102	188	221	0.00	81	47	99	40	0	45	4						
9	4	5	1	10	293.37	42528	-366	-185	198	13	53	211	125	109	186	221	0.00	81	53	99	40	0	45	4						
10	4	5	1	10	293.01	42164	-364	-184	201	17	52	212	106	102	187	218	0.00	85	57	102	40	0	45	4						
11	3	4	1	8	292.59	41740	-424	-214	220	6	50	231	101	84	168	213	0.00	98	62	108	40	0	60	4						
12	3	5	1	9	292.13	41289	-451	-227	239	12	51	246	123	83	160	199	0.00	94	62	136	40	0	50	4						
13	3	4	1	8	291.70	40849	-440	-222	223	1	51	234	120	107	183	193	0.00	87	55	121	40	0	50	4						
14	3	4	1	11	291.32	40471	-378	-191	202	11	49	215	104	90	180	199	0.00	88	58	107	30	0	50	4						
15	3	4	1	8	290.94	40094	-377	-190	202	12	50	216	129	96	176	210	0.00	88	58	110	30	0	50	4						
16	4	4	1	9	290.56	39718	-376	-190	201	11	51	217	122	120	199	207	0.00	77	57	108	30	0	50	4						
17	4	4	1	9	290.21	39374	-344	-173	186	13	59	208	118	115	193	218	0.04	77	60	108	30	0	35	4						
18	5	6	1	12	289.97	39138	-236	-119	143	24	60	168	120	130	211	236	0.19	68	59	92	10	0	25	4						
19	5	7	1	13	289.76	38932	-206	-104	129	25	64	259	138	176	267	289	0.09	71	55	82	10	0	20	4						
20	4	6	1	11	289.60	38776	-156	-79	107	28	59	135	108	153	246	299	0.09	73	57	77	1	0	15	3						
21	6	10	1	17	289.44	38619	-157	-79	107	28	68	141	111	na	214	299	0.16	61	58	73	1	3	10	3						
22	5	8	1	14	289.29	38463	-156	-79	107	28	65	140	122	131	215	272	0.04	71	63	76	1	3	10	3						
23	3	7	1	11	289.12	38308	-155	-78	107	29	62	137	119	142	227	272	0.00	76	64	79	1	3	10	3						
24	3	6	1	10	288.91	38103	-205	-103	119	16	60	148	109	122	210	272	0.03	76	48	84	1	3	18	3						
25	3	5	1	9	288.69	37890	-213	-107	127	20	57	148	91	116	204	255	0.00	74	49	86	1	3	25	3						
26	3	4	1	8	288.45	37658	-232	-117	131	14	49	143	80	92	180	242	0.00	80	53	91	1	3	25	3						
27	3	4	1	8	288.21	37426	-232	-117	131	14	49	147	74	78	162	218	0.00	80	53	92	10	3	15	3						
28	3	4	1	8	287.89	37118	-308	-155	183	28	48	196	100	71	154	204	0.05	83	55	115	25	3	28	4						
29	3	4	1	8	287.54	36782	-336	-169	182	13	48	195	117	95	174	196	0.00	79	59	114	25	3	28	4						
30	4	4	1	9	287.20	36457	-325	-164	183	19	51	199	147	115	193	201	0.00	67	46	114	25	3	28	4						
31	3	4	1	8	286.84	36114	-343	-173	183	10	48	195	103	111	199	221	0.00	77	50	115	25	3	28	4						
TOTALS																					0.69 inches									
cfs	121	166	31	318							1670	5895	3464	3320	6040	7258	MAX	98	64	3062	627	33	1099	111						
ac-ft	240	329	61	631							3312	11693	6871	6585	11980	14396	MIN	61	46	6073	1244	65	2180	220						

Water storage elevation ± to fill curve: -16.66		SNOTEL Summary for Water Year 2007		RESERVOIR DELIVERY STATUS		USED		REMAINING	
Water storage in ac-ft ± to fill curve: -17209		Updated: July 31, 2007		These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.		TVID		11574	
Percentage of full reservoir: 67.7%		SECO W/Y pc: 65.4" sno depth/water content 0				CWS		1244	
		SDMO W/Y pc: 85.0" sno depth/water content 0				LO		65	
						MUNI		5048	
						Other		522	
								8452	

SCOGGINS DAM -- RESERVOIR OPERATIONS
August 2007

[See Appendix E for breakdown of municipal use by water provider.]

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER			WATER DELIVERIES							
	SCHO	SCLO	TANO	TOT	W.S.	STOR	CHNG	REL	COMP	GASO	DLLO	GOLF	ROOD	FROM	WSLO	PRECIP	TEMP	TEMP	TVID	CWS	LO	MUNI	OTHR				
	(cfs)	(cfs)	(cfs)	(cfs)	(ft)	(ac-ft)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(inches)	(°F)	(°F)						(cfs)	(cfs)	(cfs)	(cfs)
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]			
1	3	3	1	7	286.45	35744	-370	-187	202	15	47	209	101	86	170	224	0.00	83	55	124	25	3	40	3			
2	3	3	1	7	286.03	35346	-398	-201	225	24	46	231	112	82	164	201	0.00	92	52	129	35	3	48	3			
3	2	3	1	6	285.59	34982	-364	-184	233	49	46	238	115	85	166	193	0.00	90	52	128	45	3	48	3			
4	2	3	1	6	285.15	34520	-462	-233	218	-15	47	226	130	95	172	190	0.00	73	48	111	55	3	38	4			
5	3	3	1	7	284.74	34137	-383	-193	217	24	46	224	131	99	181	193	0.00	78	49	110	55	3	38	4			
6	3	3	1	7	284.31	33737	-400	-202	217	15	47	226	145	116	194	207	0.00	72	52	110	55	3	38	4			
7	3	4	1	8	283.91	33367	-370	-187	207	20	50	217	136	113	195	221	0.00	70	60	104	60	3	28	4			
8	3	3	1	7	283.50	32989	-378	-191	215	24	54	234	151	113	191	230	0.00	71	58	113	60	3	28	4			
9	3	3	1	7	283.08	32603	-386	-195	211	16	50	225	146	124	204	233	0.00	75	54	109	60	3	28	4			
10	2	3	1	6	282.69	32247	-356	-179	200	21	46	209	125	117	199	236	0.00	73	49	109	50	3	28	4			
11	2	3	1	6	282.28	31873	-374	-189	206	17	46	211	118	100	183	233	0.00	72	46	113	40	3	40	4			
12	2	3	1	6	281.87	31502	-371	-187	205	18	45	211	118	97	179	218	0.00	79	48	112	40	3	40	4			
13	3	4	1	8	281.48	31150	-352	-177	206	29	49	215	139	109	186	213	0.07	62	48	111	40	3	40	4			
14	3	3	1	7	281.12	30826	-324	-163	187	24	46	194	107	116	196	221	0.00	81	52	98	40	3	35	4			
15	2	2	1	5	280.76	30504	-322	-162	192	30	45	195	93	85	172	227	0.00	89	55	100	40	3	40	4			
16	2	2	1	5	280.35	30138	-366	-185	201	16	44	204	101	79	158	204	0.00	87	59	109	40	3	40	4			
17	2	3	1	6	279.95	29783	-355	-179	201	22	45	205	113	82	161	193	0.00	73	48	104	50	3	35	3			
18	2	2	1	5	279.56	29438	-345	-174	195	21	44	196	109	94	174	193	0.00	74	51	89	60	3	35	3			
19	3	5	1	9	279.21	29130	-308	-155	195	40	47	203	128	104	184	218	0.38	69	55	85	60	3	35	3			
20	3	4	1	8	278.84	28806	-324	-163	195	32	47	204	166	167	253	258	0.07	71	55	86	60	3	35	3			
21	3	5	1	9	278.62	28614	-192	-97	131	34	48	145	128	190	286	333	0.06	67	61	76	20	3	20	3			
22	3	4	1	8	278.40	28422	-192	-97	115	18	46	128	91	142	242	329	0.00	75	55	66	20	3	15	3			
23	2	3	1	6	278.23	28274	-148	-75	101	26	44	115	72	104	193	282	0.00	75	50	54	20	3	15	3			
24	2	3	1	6	278.03	28101	-173	-87	115	28	41	119	58	74	161	239	0.00	82	52	58	30	3	15	3			
25	2	2	1	5	277.78	27885	-216	-109	135	26	44	139	67	61	145	207	0.00	85	54	64	40	3	20	3			
26	2	3	1	6	277.52	27660	-225	-113	135	22	44	140	64	66	147	185	0.00	77	50	63	40	3	20	3			
27	2	2	1	5	277.26	27437	-223	-112	135	23	45	140	76	69	150	182	0.00	65	45	64	40	3	20	3			
28	2	2	1	5	276.90	27128	-309	-156	180	24	44	180	90	66	149	182	0.00	75	48	74	60	3	35	3			
29	2	2	1	5	276.45	26744	-384	-194	222	28	42	222	101	71	150	182	0.00	85	51	83	75	3	53	3			
30	2	2	1	5	275.95	26320	-424	-214	243	29	47	242	120	81	161	180	0.00	94	55	91	90	3	50	4			
31	2	2	1	5	275.45	25899	-421	-212	238	26	47	245	150	100	178	180	0.00	90	52	96	90	3	40	4			
TOTALS																	0.58 inches										
cfs	75	92	31	198																	94	61	2943	1495	93	1040	108
ac-ft	149	182	61	393																	62	45	5837	2965	184	2063	214

SNOTEL Summary for Water Year 2007			
Water storage elevation ± to fill curve:	-28.05	Updated: August 31, 2007	
Water storage in ac-ft ± to fill curve:	-27424	SECO W/Y pc: 66.0" sno depth/water content	0
Percentage of full reservoir:	48.6%	SDMO W/Y pc: 86.7" sno depth/water content	0

RESERVOIR DELIVERY STATUS			
These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.			
TVID	USED	REMAINING	
CWS	4209	8409	
LO	250	250	
MUNI	7111	6389	
Other	736		

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER		WATER DELIVERIES						
	SCHO (cfs) [1]	SCLO (cfs) [2]	TANO (cfs) [3]	TOT INFL (cfs) [4]	W.S. ELEV (ft) [5]	STOR CONT (ac-ft) [6]	CHNG STOR (ac-ft) [7]	CHNG STOR (cfs) [8]	REL INFL (cfs) [9]	COMP INFL (cfs) [10]	GASO (cfs) [11]	DLLO (cfs) [12]	GOLF (cfs) [13]	ROOD (cfs) [14]	FROM (cfs) [15]	WSLO (cfs) [16]	PRECIP (inches) [17]	TEMP MAX (°F) [18]	TEMP MIN (°F) [19]	TVID (cfs) [20]	CWS (cfs) [21]	LO (cfs) [22]	MUNI (cfs) [23]	OTHR (cfs) [24]	
1	2	2	1	5	275.00	25522	-377	-190	209	19	62	228	128	111	193	199	0.00	74	47	87	70	3	40	4	
2	2	2	1	5	274.55	25147	-375	-189	209	20	62	228	147	105	189	218	0.00	82	46	87	70	3	40	4	
3	2	2	1	5	274.12	24790	-357	-180	208	28	63	229	176	115	197	221	0.00	80	51	86	70	3	40	4	
4	2	2	1	5	273.68	24428	-362	-183	209	26	64	230	157	139	224	242	0.06	82	52	87	70	3	40	4	
5	2	2	1	5	273.31	24124	-304	-153	167	14	67	191	135	129	221	268	0.00	73	50	65	40	3	45	4	
6	2	2	1	5	272.96	23839	-285	-144	167	23	66	196	118	127	192	252	0.00	79	51	80	40	3	35	4	
7	1	2	1	4	272.60	23546	-293	-148	174	26	64	190	109	94	178	224	0.00	79	42	75	50	3	35	4	
8	1	2	1	4	272.18	23206	-340	-171	195	24	65	217	134	83	168	213	0.00	76	45	84	60	3	40	4	
9	1	1	0	2	271.75	22861	-345	-174	194	20	64	217	131	97	178	204	0.00	81	51	85	60	3	40	4	
10	1	1	0	2	271.32	22517	-344	-173	194	21	64	217	129	104	186	213	0.00	85	59	85	60	3	40	4	
11	1	1	0	2	270.87	22158	-359	-181	208	27	65	234	125	97	182	210	0.00	91	48	89	60	3	50	4	
12	1	1	0	2	270.40	21785	-373	-188	202	14	65	226	109	95	175	230	0.00	90	48	73	60	3	60	4	
13	1	1	0	2	269.91	21397	-388	-196	220	24	66	249	146	83	158	227	0.00	76	51	89	70	3	50	4	
14	2	2	1	5	269.45	21034	-363	-183	208	25	67	236	166	110	177	227	0.00	62	54	83	70	3	43	4	
15	2	2	1	5	269.02	20697	-337	-170	193	23	67	219	151	126	200	239	0.00	66	51	86	60	3	35	4	
16	2	2	1	5	268.60	20369	-328	-165	193	28	67	219	161	125	199	266	0.00	68	51	86	60	3	35	4	
17	2	3	1	6	268.20	20058	-311	-157	193	36	70	222	173	142	214	288	0.10	62	52	85	60	3	35	4	
18	2	2	1	5	267.85	19788	-270	-136	152	16	68	179	131	140	228	298	0.00	67	42	60	50	3	30	4	
19	2	2	1	5	267.53	19541	-247	-125	146	21	67	170	115	116	202	291	0.00	63	42	59	50	3	25	4	
20	2	2	1	5	267.23	19310	-231	-116	140	24	68	165	116	98	181	269	0.00	69	45	60	50	3	18	4	
21	2	2	1	5	266.93	19081	-229	-115	143	28	68	166	117	91	172	252	0.00	69	46	60	60	3	12	3	
22	2	2	1	5	266.58	18814	-267	-135	161	26	59	177	115	87	171	239	0.00	76	48	60	60	3	30	3	
23	2	2	1	5	266.18	18511	-303	-153	175	22	59	191	129	89	172	236	0.00	68	42	61	60	3	43	3	
24	2	2	1	5	265.79	18216	-295	-149	177	28	60	191	128	107	188	233	0.00	65	38	61	60	3	45	3	
25	2	3	1	6	265.36	17893	-323	-163	185	22	60	198	118	100	182	242	0.00	69	40	55	60	3	58	3	
26	2	3	1	6	264.95	17587	-306	-154	174	20	60	186	125	91	173	246	0.00	67	42	54	65	3	43	3	
27	2	3	1	6	264.58	17311	-276	-139	169	30	64	182	135	99	176	269	0.00	76	45	48	65	3	44	3	
28	2	4	1	7	264.29	17097	-214	-108	153	45	70	177	126	135	202	308	0.47	75	46	46	65	3	30	2	
29	2	4	1	7	264.03	16905	-192	-97	101	4	64	139	104	228	348	371	0.00	59	39	34	25	3	30	2	
30	3	5	1	9	263.80	16736	-169	-85	102	17	68	143	110	130	231	393	0.36	56	44	33	25	3	30	2	
TOTALS																	0.99 inches								
cfs	54	66	25	145				-4620	5321	701	1943	6012	3964	3393	5857	7588	MAX	91	59	2103	1725	90	1141	107	
ac-ft	107	131	50	288			-9163	-9163	10554	1391	3854	11925	7863	6730	11617	15051	MIN	56	38	4171	3422	179	2263	212	

SNOTEL Summary for Water Year 2007				RESERVOIR DELIVERY STATUS				REMAINING	
Updated: September 30, 2007				These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.				USED	
SECO W/Y pc: 68.0" sno depth/water content 0				TVID				21582	
SDMO W/Y pc: 89.2" sno depth/water content 0				CWS				7631	
				LO				428	
				MUNI				9374	
				Other				948	

Minimum Required Discharges	
Dec-Sept: 10 cfs	Oct-Nov: 20 cfs

Water storage elevation ± to fill curve:	-39.7
Water storage in ac-ft ± to fill curve:	-36587
Percentage of full reservoir:	31.4%

Source: Tualatin Valley Irrigation District

Source: Tualatin Valley Irrigation District

Water storage elevation $\pm$ to fill curve:	-41.31	SNOTEL Summary for Water Year 2007		RESERVOIR DELIVERY STATUS		USED	REMAINING
Water storage in ac-ft $\pm$ to fill curve:	-37755	Updated: October 31, 2007				TVID	22018
Percentage of full reservoir:	29.2%	SECO W/Y pc: 4.8"	sno depth/water content	0		CWS	8525
		SDMO W/Y pc: 7.8"	sno depth/water content	0		LO	500
					<i>These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.</i>		
					Minimum Required Discharges Dec-Sept: 10 cfs Oct-Nov: 20 cfs		

*An additional 2 cfs of natural flow was released for municipal use. (total municipal use: 20 cfs)

SCOGGINS DAM -- RESERVOIR OPERATIONS
November 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Tualatin Valley Irrigation District

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER		WATER DELIVERIES											
	SCHO (cfs) [1]	SCLO (cfs) [2]	TANO (cfs) [3]	TOT INFLW (cfs) [4]	W.S. ELEV (ft) [5]	STOR CONT (ac-ft) [6]	CHNG STOR (ac-ft) [7]	CHNG STOR (cfs) [8]	REL INFLW (cfs) [9]	COMP INFLW (cfs) [10]	GASO (cfs) [11]	DILLO (cfs) [12]	GOLF (cfs) [13]	ROOD (cfs) [14]	FROM (cfs) [15]	WSLO (cfs) [16]	PRECIP (inches) [17]	TEMP MAX (°F) [18]	TEMP MIN (°F) [19]	TVID (cfs) [20]	CWS (cfs) [21]	LO (cfs) [22]	MUNI (cfs) [23]	OTHR (cfs) [24]						
1	3	8	1	12	261.99	15425	-143	-72	87	15	57	129	131	127	225	249	0.00	56	33	4	70	0	0	0						
2	3	8	1	12	261.78	15275	-150	-76	87	11	49	122	118	126	224	282	0.00	55	32	4	70	0	0	0						
3	3	7	1	11	261.60	15147	-128	-65	87	22	47	116	117	116	217	285	0.00	57	31	4	70	0	0	0						
4	3	7	1	11	261.39	14998	-149	-75	87	12	49	116	97	112	209	282	0.00	61	40	4	70	0	0	0						
5	3	7	1	11	261.21	14870	-128	-65	87	22	51	115	107	104	202	279	0.00	62	38	4	70	0	0	0						
6	3	7	1	11	260.96	14694	-176	-89	108	19	94	155	150	106	200	273	0.00	66	37	4	70	0	20	0						
7	3	7	1	11	260.74	14559	-135	-68	96	28	91	150	156	124	219	267	0.00	57	38	4	70	0	10	0						
8	3	7	1	11	260.53	14392	-167	-84	91	7	103	149	150	133	232	273	0.00	52	39	4	70	0	5	0						
9	3	7	1	11	260.37	14280	-112	-56	71	15	109	135	130	146	251	288	0.00	48	41	4	50	0	5	0						
10	6	14	1	21	260.25	14197	-83	-42	71	29	116	135	128	138	247	338	0.36	54	42	3	50	0	5	0						
11	5	11	1	17	260.14	14120	-77	-39	69	30	124	144	178	159	280	335	0.09	57	39	3	50	0	5	0						
12	7	11	1	19	260.02	14037	-83	-42	69	27	119	138	156	165	277	335	0.12	53	42	3	50	0	5	0						
13	10	39	1	50	260.07	14072	35	18	70	88	233	246	367	189	312	382	0.58	56	36	3	50	0	5	0						
14	7	24	1	32	260.11	14099	27	14	20	34	170	142	242	625	448	378	0.00	53	42	3	0	0	0	0						
15	6	21	1	28	260.15	14127	28	14	20	34	104	90	167	241	392	454	0.00	52	44	3	0	0	0	0						
16	39	118	3	160	260.33	14252	125	63	21	84	137	92	133	191	316	433	0.71	56	48	3	0	0	0	0						
17	24	78	3	105	260.68	14497	245	124	21	145	263	254	532	528	605	793	0.43	54	49	2	0	0	0	0						
18	26	80	3	109	261.02	14736	239	120	21	141	276	261	536	867	1079	1123	0.38	61	42	2	0	0	0	0						
19	32	85	4	121	261.39	14998	262	132	21	153	261	263	551	1050	1256	1547	0.74	43	39	2	0	0	0	0						
20	18	78	4	100	261.73	15239	241	122	21	143	261	262	514	1120	1351	1593	0.16	46	39	2	0	0	0	0						
21	15	59	3	77	261.95	15396	157	79	21	100	192	194	404	855	1114	1427	0.00	46	34	2	0	0	0	0						
22	13	47	2	62	262.13	15525	129	65	21	86	154	154	308	590	803	1123	0.00	49	33	2	0	0	0	0						
23	11	39	1	51	262.25	15611	86	43	21	64	130	129	236	477	654	887	0.00	48	28	2	0	0	0	0						
24	11	33	1	45	262.35	15683	72	36	21	57	115	113	197	384	596	737	0.00	47	28	2	0	0	0	0						
25	11	28	1	40	262.43	15740	57	29	21	50	104	104	184	319	461	630	0.00	41	28	2	0	0	0	0						
26	8	24	1	33	262.50	15791	51	26	21	47	96	92	163	278	406	556	0.00	42	28	2	0	0	0	0						
27	11	32	2	45	262.59	15856	65	33	21	54	125	110	147	299	416	571	0.36	36	31	2	0	0	0	0						
28	9	27	1	37	262.69	15928	72	36	21	57	107	103	166	325	462	580	0.00	47	34	2	0	0	0	0						
29	18	41	2	61	262.84	16036	108	54	20	74	132	127	208	471	601	710	0.74	38	33	2	0	0	0	0						
30	21	54	3	78	263.04	16181	145	73	21	94	193	188	379	515	669	782	0.01	42	36	2	0	0	0	0						
TOTALS																					4.68 inches									
cfs	335	1008	49	1392											4062	4528	7052	10880	14724	18192	MAX		66	49	85	810	0	60	0	
ac-ft	664	1999	97	2761											8057	8981	13988	21580	29205	36084	MIN		36	28	169	1607	0	119	0	

SNOTEL Summary for Water Year 2007			
Water storage elevation ± to fill curve:	-20.46	Updated: November 13, 2007	
Water storage in ac-ft ± to fill curve:	-16808	SECO W/Y pc: 10.6" sno depth/water content	0
Percentage of full reservoir:	30.3%	SDMO W/Y pc: 15.4" sno depth/water content	6.0"/0.8"

RESERVOIR DELIVERY STATUS			
These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.			
TVID	22187	USED	REMAINING
CWS	10132		2486
LO	500		0
MUNI	10368		3132
Other	1000		0

Minimum Required Discharges	
Dec-Sept: 10 cfs	Oct-Nov: 20 cfs

SCOGGINS DAM -- RESERVOIR OPERATIONS
December 2007

[See Appendix E for breakdown of municipal use by water provider.]

DAY	INFLOW				HENRY HAGG LAKE						TUALATIN RIVER						WEATHER			WATER DELIVERIES									
	SCHO	SCLO	TANO	TOT	W.S.	STOR	CHNG	REL	COMP	GASO	DLLO	GOLF	ROOD	FROM	WSLO	PRECIP	TEMP	TEMP	TVID	CWS	LO	MUNI	OTHR						
	(cfs)	(cfs)	(cfs)	(cfs)	(ft)	(ac-ft)	(ac-ft)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(inches)	(°F)	(°F)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)						
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]	[24]					
1	14	46	5	65	263.20	16298	117	59	21	80	165	162	313	617	780	816	0.00	42	30	0	0	0	0	0					
2	96	116	10	222	263.50	16516	218	110	22	132	223	206	381	687	843	1098	1.16	38	32	0	0	0	0	0					
3	na	na	na	0	267.74	19703	3187	1607	28	1635	na	1150	1591	2690	2934	3660	4.18	54	42	0	0	0	0	0					
4	130	723	na	853	274.46	25072	5369	2707	23	2730	na	3404	na	4710	5190	6630	1.37	57	54	0	0	0	0	0					
5	110	404	na	514	276.41	26410	1338	675	23	698	na	1229	2090	6320	na	6292	0.00	59	37	0	0	0	0	0					
6	75	322	na	397	277.57	27704	1294	652	23	675	726	768	2659	6150	10000	7833	0.49	47	37	0	0	0	0	0					
7	64	249	na	313	278.38	28405	701	353	23	376	544	668	2360	5800	9374	8754	0.03	48	41	0	0	0	0	0					
8	43	204	na	247	278.96	28911	506	255	23	278	442	586	2011	5380	7551	8510	0.01	46	32	0	0	0	0	0					
9	34	186	na	220	279.41	29306	395	199	23	222	375	536	1691	4930	6226	7602	0.00	46	26	0	0	0	0	0					
10	31	160	na	191	279.80	29650	344	173	23	196	325	483	1408	4480	5374	6740	0.01	35	33	0	0	0	0	0					
11	26	141	na	167	280.13	29943	293	148	23	171	284	430	1217	3960	4698	5831	0.00	42	29	0	0	0	0	0					
12	20	129	na	149	280.38	30165	222	112	23	135	252	385	1058	3440	4016	4985	0.00	38	29	0	0	0	0	0					
13	19	116	na	135	280.62	30379	214	108	23	131	228	354	844	2900	3347	4122	0.00	44	30	0	0	0	0	0					
14	17	108	4	129	280.83	30566	187	94	23	117	211	328	729	2310	2690	3331	0.00	36	31	0	0	0	0	0					
15	18	114	4	136	281.04	30754	188	95	23	118	214	315	676	1710	2050	2637	0.16	46	35	0	0	0	0	0					
16	16	108	4	128	281.25	30943	189	95	23	118	215	316	714	1340	1596	2082	0.04	46	35	0	0	0	0	0					
17	18	116	4	138	281.45	31123	180	91	23	114	218	306	667	1190	1411	1744	0.18	43	35	0	0	0	0	0					
18	55	201	5	261	281.88	31511	388	196	24	220	388	389	759	1200	1371	1648	1.13	43	37	0	0	0	0	0					
19	63	256	5	324	282.54	32110	599	302	24	326	542	519	1215	1730	1880	1827	0.41	49	39	0	0	0	0	0					
20	137	400	6	543	283.46	32970	860	434	210	644	<1000	763	1658	2250	2330	2883	0.87	46	36	0	0	0	0	0					
21	110	467	15	592	283.95	33404	434	219	306	525	667	978	2019	2610	2880	3120	0.04	41	32	0	0	0	0	0					
22	96	181	13	290	284.01	33459	55	28	304	332	516	822	2065	2720	3000	3214	0.01	38	32	0	0	0	0	0					
23	90	169	13	272	284.08	33524	65	33	303	336	488	792	1942	2920	3170	3385	0.27	43	38	0	0	0	0	0					
24	130	245	13	388	284.86	34230	706	356	64	420	849	768	1970	3250	3570	4314	0.66	52	36	0	0	0	0	0					
25	98	209	11	318	285.55	34894	664	335	64	399	600	755	2011	3450	3780	4242	0.00	44	33	0	0	0	0	0					
26	90	186	9	285	286.20	35507	613	309	64	373	550	731	2037	3470	3830	4386	0.60	36	33	0	0	0	0	0					
27	80	169	9	258	286.25	35554	47	24	310	334	470	847	1751	3530	3900	4350	0.24	39	33	0	0	0	0	0					
28	87	162	13	262	286.03	35346	-208	-105	470	365	550	1098	1805	3650	4037	4706	0.97	37	33	0	0	0	0	0					
29	89	169	13	271	286.36	35658	312	157	267	424	582	877	1914	3700	4118	4631	0.23	42	36	0	0	0	0	0					
30	86	166	13	265	286.84	36114	456	230	110	340	534	784	1867	3710	4115	4606	0.22	46	35	0	0	0	0	0					
31	75	143	13	231	287.25	36505	391	197	110	307	459	733	1773	3720	4118	4544	0.14	43	31	0	0	0	0	0					
TOTALS																	13.42 inches												
cfs	2017	6365	182	8564																	MAX	59	54	0	0	0	0	0	
ac-ft	4001	12625	361	16987																	MIN	35	26	0	0	0	0	0	0

SNOTEL Summary for Water Year 2007				RESERVOIR DELIVERY STATUS				RESERVOIR DELIVERY STATUS											
Updated: December 31, 2007				These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.				These allocations, amounts used and remaining are provisional and subject to daily changes as the WS elevation rises and falls. These numbers are for planning purposes only.											
Water storage elevation ± to fill curve:		3.75		SECO W/Y pc:		32.0" sno depth/water content		9.9"/2.3"		TVID		22187		2486					
Water storage in ac-ft ± to fill curve:		3516		SDMO W/Y pc:		38.6" sno depth/water content		3.8"/11.3"		LO		500		0					
Percentage of full reservoir:		68.5%								MUNI		10368		3132					
Minimum Required Discharges												Other				1000			
Dec-Sept: 10 cfs				Oct-Nov: 20 cfs															

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Appendix D

Barney Reservoir Operations Monthly Records

Breakdown of allocations for municipal use by water provider can be found in
Appendix E of this report.

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF JANUARY 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN	TRASK—ODFW		CWS		MUNICIPAL	
							cfs	ac-ft	cfs	ac-ft	cfs	ac-ft
1							0	0	0	0	0	0
2	1636.0	18000	487	0.29	1.7	0.0	0	0	0	0	0	0
3	1636.8	18400	400	2.80	3.0	0.0	0	0	0	0	0	0
4							0	0	0	0	0	0
5	1638.0	19000	600	1.23	2.4	0.0	0	0	0	0	0	0
6							0	0	0	0	0	0
7							0	0	0	0	0	0
8	1640.5	20000	1000	3.45	2.4	0.0	0	0	0	0	0	0
9							0	0	0	0	0	0
10	1640.7	20000	0	0.68	90.0	0.0	0	0	0	0	0	0
11							0	0	0	0	0	0
12	1640.7	20000	0	0.20	55.5	0.0	0	0	0	0	0	0
13							0	0	0	0	0	0
14							0	0	0	0	0	0
15							0	0	0	0	0	0
16	1640.7	20000	0	0.40	47.0	0.0	0	0	0	0	0	0
17	1640.7	20000	0	0.00	41.0	0.0	0	0	0	0	0	0
18							0	0	0	0	0	0
19	1640.7	20000	0	0.14	47.0	0.0	0	0	0	0	0	0
20							0	0	0	0	0	0
21							0	0	0	0	0	0
22	1640.6	20000	0	0.34	35.0	0.0	0	0	0	0	0	0
23							0	0	0	0	0	0
24	1640.7	20000	0	0.00	35.0	0.0	0	0	0	0	0	0
25							0	0	0	0	0	0
26	1640.7	20000	0	0.00	35.0	0.0	0	0	0	0	0	0
27							0	0	0	0	0	0
28							0	0	0	0	0	0
29	1640.6	20000	0	0.00	31.5	0.0	0	0	0	0	0	0
30							0	0	0	0	0	0
31	1640.6	20000	0	0.00	28.0	0.0	0	0	0	0	0	0
Monthly Totals			2487	9.53				0		0		0
Year to Date Totals			2487	9.53				0		0		0

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF FEBRUARY 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO TRASK—ODFW		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN			CWS		MUNICIPAL	
					cfs	cfs	cfs	ac-ft	cfs	ac-ft	cfs	ac-ft
1							0	0	0	0	0	0
2	1640.6	20000	0	0.00	28.0	0.0	0	0	0	0	0	0
3							0	0	0	0	0	0
4							0	0	0	0	0	0
5	1640.6	20000	0	0.34	19.0	0.0	0	0	0	0	0	0
6							0	0	0	0	0	0
7	1640.6	20000	0	0.04	19.0	0.0	0	0	0	0	0	0
8							0	0	0	0	0	0
9	1640.6	20000	0	0.48	19.0	0.0	0	0	0	0	0	0
10							0	0	0	0	0	0
11							0	0	0	0	0	0
12	1640.6	20000	0	0.00	19.0	0.0	0	0	0	0	0	0
13							0	0	0	0	0	0
14	1640.6	20000	0	0.88	31.5	0.0	0	0	0	0	0	0
15							0	0	0	0	0	0
16	1640.9	20000	0	3.56	124.0	0.0	0	0	0	0	0	0
17							0	0	0	0	0	0
18							0	0	0	0	0	0
19							0	0	0	0	0	0
20	1640.9	20000	0	3.43	160.0	0.0	0	0	0	0	0	0
21	1640.8	20000	0	0.30	107.0	0.0	0	0	0	0	0	0
22							0	0	0	0	0	0
23	1640.7	20000	0	0.59	55.5	0.0	0	0	0	0	0	0
24							0	0	0	0	0	0
25							0	0	0	0	0	0
26	1640.8	20000	0	4.00	90.0	0.0	0	0	0	0	0	0
27							0	0	0	0	0	0
28	1640.7	20000	0	1.11	64.0	0.0	0	0	0	0	0	0
Monthly Totals			0	14.73				0		0		0
Year to Date Totals			2487	24.26				0		0		0

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF MARCH 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN	TRASK—ODFW		CWS		MUNICIPAL	
							cfs	ac-ft	cfs	ac-ft	cfs	ac-ft
1							0	0	0	0	0	0
2	1640.7	20000	0	0.67	55.5	0.0	0	0	0	0	0	0
3							0	0	0	0	0	0
4							0	0	0	0	0	0
5	1640.7	20000	0	0.20	64.0	0.0	0	0	0	0	0	0
6							0	0	0	0	0	0
7	1640.8	20000	0	0.20	77.0	0.0	0	0	0	0	0	0
8							0	0	0	0	0	0
9	1640.6	20000	0	0.80	64.0	0.0	0	0	0	0	0	0
10							0	0	0	0	0	0
11							0	0	0	0	0	0
12	1640.8	20000	0	1.20	90.0	0.0	0	0	0	0	0	0
13							0	0	0	0	0	0
14	1640.7	20000	0	0.11	64.0	0.0	0	0	0	0	0	0
15							0	0	0	0	0	0
16	1640.7	20000	0	0.00	47.0	0.0	0	0	0	0	0	0
17							0	0	0	0	0	0
18							0	0	0	0	0	0
19	1640.6	20000	0	0.08	41.0	0.0	0	0	0	0	0	0
20							0	0	0	0	0	0
21	1640.6	20000	0	0.84	41.0	0.0	0	0	0	0	0	0
22							0	0	0	0	0	0
23	1640.6	20000	0	0.16	41.0	0.0	0	0	0	0	0	0
24							0	0	0	0	0	0
25							0	0	0	0	0	0
26	1640.6	20000	0	1.36	41.0	0.0	0	0	0	0	0	0
27							0	0	0	0	0	0
28	1640.6	20000	0	0.40	35.0	0.0	0	0	0	0	0	0
29							0	0	0	0	0	0
30	1640.7	20000	0	0.00	35.0	0.0	0	0	0	0	0	0
31							0	0	0	0	0	0
Monthly Totals			0	6.02				0		0		0
Year to Date Totals			2487	30.28				0		0		0

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF APRIL 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO TRASK—ODFW		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN			CWS		MUNICIPAL	
					cfs	cfs	cfs	ac-ft	cfs	ac-ft	cfs	ac-ft
1							0	0	0	0	0	0
2	1640.6	20000	0	0.10	31.5	0.0	0	0	0	0	0	0
3							0	0	0	0	0	0
4	1640.6	20000	0	0.00	31.5	0.0	0	0	0	0	0	0
5							0	0	0	0	0	0
6	1640.6	20000	0	0.00	26.0	0.0	0	0	0	0	0	0
7							0	0	0	0	0	0
8							0	0	0	0	0	0
9	1640.6	20000	0	2.20	55.5	0.0	0	0	0	0	0	0
10							0	0	0	0	0	0
11	1640.6	20000	0	0.34	31.5	0.0	0	0	0	0	0	0
12							0	0	0	0	0	0
13	1640.7	20000	0	0.52	35.0	0.0	0	0	0	0	0	0
14							0	0	0	0	0	0
15							0	0	0	0	0	0
16	1640.6	20000	0	0.20	31.5	0.0	0	0	0	0	0	0
17							0	0	0	0	0	0
18	1640.6	20000	0	0.66	31.5	0.0	0	0	0	0	0	0
19							0	0	0	0	0	0
20	1640.6	20000	0	0.00	31.5	0.0	0	0	0	0	0	0
21							0	0	0	0	0	0
22							0	0	0	0	0	0
23	1640.6	20000	0	1.18	31.5	0.0	0	0	0	0	0	0
24							0	0	0	0	0	0
25	1640.6	20000	0	0.06	31.5	0.0	0	0	0	0	0	0
26							0	0	0	0	0	0
27	1640.5	20000	0	0.01	31.5	0.0	0	0	0	0	0	0
28							0	0	0	0	0	0
29							0	0	0	0	0	0
30	1640.6	20000	0	0.00	16.0	0.0	0	0	0	0	0	0
Monthly Totals			0	5.27				0		0		0
Year to Date Totals			2487	35.55				0		0		0

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF MAY 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN	TRASK—ODFW		CWS		MUNICIPAL	
							cfs	ac-ft	cfs	ac-ft	cfs	ac-ft
1							0	0	0	0	0	0
2	1640.6	20000	0	0.31	17.5	0.0	0	0	0	0	0	0
3							0	0	0	0	0	0
4	1640.6	20000	0	0.50	17.5	0.0	0	0	0	0	0	0
5							0	0	0	0	0	0
6							0	0	0	0	0	0
7	1640.6	20000	0	0.04	17.5	0.0	0	0	0	0	0	0
8							0	0	0	0	0	0
9	1640.6	20000	0	0.00	14.8	0.0	0	0	0	0	0	0
10							0	0	0	0	0	0
11	1640.6	20000	0	0.00	14.2	0.0	0	0	0	0	0	0
12							0	0	0	0	0	0
13							0	0	0	0	0	0
14	1640.5	20000	0	0.00	12.3	0.0	0	0	0	0	0	0
15							0	0	0	0	0	0
16	1640.5	20000	0	0.00	11.0	0.0	0	0	0	0	0	0
17							0	0	0	0	0	0
18	1640.6	20000	0	0.00	9.6	0.0	0	0	0	0	0	0
19							0	0	0	0	0	0
20							0	0	0	0	0	0
21	1640.6	20000	0	0.69	11.0	0.0	0	0	0	0	0	0
22							0	0	0	0	0	0
23	1640.6	20000	0	0.00	11.0	0.0	0	0	0	0	0	0
24							0	0	0	0	0	0
25	1640.6	20000	0	0.06	11.0	0.0	0	0	0	0	0	0
26							0	0	0	0	0	0
27							0	0	0	0	0	0
28							0	0	0	0	0	0
29							0	0	0	0	0	0
30	1640.6	20000	0	0.00	8.2	20.0	0	0	0	0	0	0
31							8	16	0	0	20	400
Monthly Totals			0	1.60				16		0		40
Year to Date Totals			2487	37.15				16		0		40

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF JUNE 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO TRASK—ODFW		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN			CWS		MUNICIPAL	
					cfs	cfs	cfs	ac-ft	cfs	ac-ft	cfs	ac-ft
1	1640.4	19960	-40	0.00	8.2	20.0	8	16	0	0	20	40
2							8	16	0	0	20	40
3							8	16	0	0	20	40
4	1640.1	19840	-120	0.02	8.2	20.0	8	16	0	0	20	40
5							8	16	0	0	20	40
6	1640.0	19800	-40	0.20	8.2	12.0	8	16	0	0	20	40
7							8	16	0	0	12	24
8	1640.0	19800	0	0.01	8.2	12.0	8	16	0	0	12	24
9							8	16	0	0	12	24
10							8	16	0	0	12	24
11	1639.6	19640	-160	0.58	8.2	12.0	8	16	0	0	12	24
12							8	16	0	0	12	24
13	1639.5	19600	-40	0.02	8.2	12.0	8	16	0	0	12	24
14							8	16	0	0	12	24
15	1639.3	19520	-80	0.01	8.2	12.0	8	16	0	0	12	24
16							8	16	0	0	12	24
17							8	16	0	0	12	24
18	1639.0	19400	-120	0.01	8.2	12.0	8	16	0	0	12	24
19							8	16	0	0	12	24
20	1638.9	19360	-40	0.00	8.2	12.0	8	16	0	0	12	24
21							8	16	0	0	12	24
22	1638.7	19280	-80	0.02	8.2	12.4	8	16	0	0	12	24
23							8	16	0	0	12	24
24							8	16	0	0	12	24
25	1638.5	19200	-80	0.31	8.2	12.4	8	16	0	0	12	24
26							8	16	0	0	12	24
27	1638.4	19160	-40	0.00	8.2	12.1	8	16	0	0	12	24
28							8	16	0	0	12	24
29	1638.3	19120	-40	0.00	8.2	12.1	8	16	0	0	12	24
30							8	16	0	0	12	24
Monthly Totals			-880	1.18				476		0		809
Year to Date Totals			1607	38.33				476		0		849

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF JULY 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO TRASK—ODFW		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN			CWS		MUNICIPAL	
							feet	ac-ft	ac-ft	in.	cfs	cfs
1							8	16	0	0	12	24
2	1638.0	19000	-120	0.00	8.2	20.0	8	16	0	0	12	24
3							8	16	0	0	20	40
4							8	16	0	0	20	40
5							8	16	0	0	20	40
6	1637.6	18880	-120	0.00	8.2	20.0	8	16	0	0	20	40
7							8	16	0	0	20	40
8							8	16	0	0	20	40
9	1637.1	18550	-330	0.00	8.2	20.0	8	16	0	0	20	40
10							8	16	0	0	20	40
11	1636.8	18400	-150	0.00	8.2	20.0	8	16	0	0	20	40
12							8	16	0	0	20	40
13	1636.6	18300	-100	0.00	8.2	20.0	8	16	0	0	20	40
14							8	16	0	0	20	40
15							8	16	0	0	20	40
16	1636.1	18050	-250	0.00	8.2	25.0	8	16	0	0	20	40
17							8	16	0	0	25	50
18	1635.8	17925	-125	0.50	8.2	25.0	8	16	0	0	25	50
19							8	16	0	0	25	50
20	1635.6	17850	-75	0.20	8.2	25.0	8	16	0	0	25	50
21							8	16	0	0	25	50
22							8	16	0	0	25	50
23	1635.1	17663	-187	0.50	8.2	25.0	8	16	0	0	25	50
24							8	16	0	0	25	50
25	1634.8	17550	-113	0.00	8.2	20.0	8	16	0	0	25	50
26							8	16	0	0	20	40
27	1634.5	17438	-112	0.00	8.2	20.0	8	16	0	0	20	40
28							8	16	0	0	20	40
29							8	16	0	0	20	40
30	1634.1	17288	-150	0.01	8.2	20.0	8	16	0	0	20	40
31							8	16	0	0	20	40
Monthly Totals			-1832	1.21				492		0		1287
Year to Date Totals			-225	39.54				968		0		2136

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF AUGUST 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO TRASK—ODFW		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN			CWS		MUNICIPAL	
							feet	ac-ft	ac-ft	in.	cfs	cfs
1	1633.8	17175	-113	0.00	8.2	20.0	8	16	0	0	20	40
2							8	16	0	0	20	40
3	1633.5	17063	-112	0.00	8.2	20.0	8	16	0	0	20	40
4							8	16	0	0	20	40
5							8	16	0	0	20	40
6	1633.0	16875	-188	0.00	8.2	20.0	8	16	0	0	20	40
7							8	16	0	0	20	40
8	1632.8	16800	-75	0.02	8.2	20.0	8	16	0	0	20	40
9							8	16	0	0	20	40
10	1632.5	16688	-112	0.00	8.2	20.0	8	16	0	0	20	40
11							8	16	0	0	20	40
12							8	16	0	0	20	40
13	1632.0	16500	-188	0.20	8.2	20.0	8	16	0	0	20	40
14							8	16	0	0	20	40
15	1631.8	16425	-75	0.00	8.2	20.0	8	16	0	0	20	40
16							8	16	0	0	20	40
17	1631.5	16313	-112	0.01	8.2	20.0	8	16	0	0	20	40
18							8	16	0	0	20	40
19							8	16	0	0	20	40
20	1631.1	16163	-150	0.60	8.2	20.0	8	16	0	0	20	40
21							8	16	0	0	20	40
22	1630.9	16088	-75	0.06	8.2	20.0	8	16	0	0	20	40
23							8	16	0	0	20	40
24	1630.5	15938	-150	0.00	8.2	20.0	8	16	0	0	20	40
25							8	16	0	0	20	40
26							8	16	0	0	20	40
27	1630.0	15750	-188	0.01	8.2	20.0	8	16	0	0	20	40
28							8	16	0	0	20	40
29	1929.7	15638	-112	0.00	8.2	25.0	8	16	0	0	20	40
30							8	16	0	0	25	50
31	1629.4	15525	-113	0.00	8.2	39.1	8	16	0	0	25	50
Monthly Totals			-1763	0.90				492		0		1250
Year to Date Totals			-1988	40.44				1460		0		3386

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF SEPTEMBER 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO TRASK—ODFW		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN			CWS		MUNICIPAL	
					feet	ac-ft	ac-ft	in.	cfs	cfs	cfs	ac-ft
1							8	16	14	28	25	50
2							8	16	14	28	25	50
3							8	16	14	28	25	50
4							8	16	14	28	25	50
5	1628.3	15113	-412	0.05	8.2	39.1	8	16	14	28	25	50
6							8	16	14	28	25	50
7	1627.6	14850	-263	0.00	8.2	39.1	8	16	14	28	25	50
8							8	16	14	28	25	50
9							8	16	14	28	25	50
10	1626.7	14513	-337	0.00	8.2	39.1	8	16	14	28	25	50
11							8	16	14	28	25	50
12	1626.1	14288	-225	0.00	8.2	39.1	8	16	14	28	25	50
13							8	16	14	28	25	50
14	1625.8	14165	-123	0.00	8.2	39.1	8	16	14	28	25	50
15							8	16	14	28	25	50
16							8	16	14	28	25	50
17	1624.9	13898	-267	0.18	8.2	39.1	8	16	14	28	25	50
18							8	16	14	28	25	50
19	1624.4	13650	-248	0.00	8.2	39.1	8	16	14	28	25	50
20							8	16	14	28	25	50
21	1623.8	13425	-225	0.00	8.2	30.1	8	16	14	28	25	50
22							8	16	14	28	16	32
23							8	16	14	28	16	32
24	1623.2	13200	-225	0.00	8.2	30.1	8	16	14	28	16	32
25							8	16	14	28	16	32
26	1622.7	13013	-187	0.00	8.2	34.0	8	16	14	28	16	32
27							8	16	14	28	20	40
28	1622.3	12863	-150	0.19	8.2	30.0	8	16	14	28	20	40
29							8	16	14	28	16	32
30							8	16	14	28	16	32
Monthly Totals			-2662	0.42				476		833		1343
Year to Date Totals			-4650	40.86				1936		833		4729

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF OCTOBER 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO TRASK—ODFW		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN	TRASK—ODFW	CWS		MUNICIPAL		
								cfs	cfs	cfs	ac-ft	cfs
	feet	ac-ft	ac-ft	in.	cfs	cfs	cfs	ac-ft	cfs	ac-ft	cfs	ac-ft
1							8	16	14	28	16	32
2	1617.7	11233	-1630	0.00	8.2	49.0	8	16	14	28	10	20
3	1621.7	12638	1405	1.20	8.2	24.0	8	16	14	28	10	20
4							8	16	14	28	10	20
5	1621.5	12563	-75	1.11	8.2	24.0	8	16	14	28	10	20
6							8	16	14	28	10	20
7	1621.2	12450	-113	0.63	8.2	24.0	8	16	14	28	10	20
8							8	16	14	28	10	20
9							8	16	14	28	10	20
10	1620.9	12338	-112	0.10	8.2	24.0	8	16	14	28	10	20
11							8	16	14	28	10	20
12	1620.5	12188	-150	0.18	8.2	24.0	8	16	14	28	10	20
13							8	16	14	28	5	10
14	1620.3	12113	-75	0.19	8.2	19.0	8	16	14	28	5	10
15							8	16	14	28	5	10
16							8	16	14	28	5	10
17	1619.7	11900	-213	0.01	8.2	19.0	8	16	14	28	5	10
18							8	16	14	28	5	10
19	1619.5	11833	-67	0.91	8.2	19.0	8	16	14	28	5	10
20							8	16	14	28	0	0
21	1619.5	11833	0	2.37	8.2	14.0	8	16	14	28	0	0
22							5	10	14	28	0	0
23							5	10	14	28	0	0
24	1619.9	11966	133	1.95	5.2	14.0	2	4	14	28	0	0
25							2	4	14	28	0	0
26	1619.7	11900	-66	0.01	5.2	14.0	0	0	14	28	0	0
27							0	0	14	28	0	0
28	1619.6	11866	-34	0.03	0.5	14.0	0	0	14	28	0	0
29							0	0	14	28	0	0
30							0	0	14	28	0	0
31	1619.4	11800	-66	0.00	0.5	14.0	0	0	0	0	0	0
Monthly Totals			-1063	8.69				361		833		319
Year to Date Totals			-5713	49.55	0.5	0.0		2297		1666		5048

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF NOVEMBER 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN	TRASK—ODFW		CWS		MUNICIPAL	
							cfs	ac-ft	cfs	ac-ft	cfs	ac-ft
1							0	0	0	0	0	0
2	1619.4	11800	0	0.00	0.5	0.0	0	0	0	0	0	0
3							0	0	0	0	0	0
4							0	0	0	0	0	0
5	1619.5	11833	33	0.00	0.5	20.0	0	0	0	0	0	0
6							0	0	0	0	20	40
7	1619.2	11733	-100	0.00	0.5	30.0	0	0	0	0	20	40
8							0	0	0	0	30	60
9	1618.8	11600	-133	0.04	0.5	30.0	0	0	0	0	30	60
10							0	0	0	0	30	60
11							0	0	0	0	30	60
12							0	0	0	0	30	60
13							0	0	0	0	30	60
14	1618.5	11500	-100	2.45	0.5	0.0	0	0	0	0	30	60
15							0	0	0	0	0	0
16	1619.0	11666	166	2.10	0.5	0.0	0	0	0	0	0	0
17							0	0	0	0	0	0
18							0	0	0	0	0	0
19	1620.0	12000	334	2.24	0.5	0.0	0	0	0	0	0	0
20							0	0	0	0	0	0
21	1620.3	12113	113	0.07	0.5	0.0	0	0	0	0	0	0
22							0	0	0	0	0	0
23	1620.5	12188	75	0.00	1.1	0.0	0	0	0	0	0	0
24							0	0	0	0	0	0
25							0	0	0	0	0	0
26	1620.8	12300	112	0.02	0.3	0.0	0	0	0	0	0	0
27							0	0	0	0	0	0
28	1621.1	12413	113	0.86	0.5	0.0	0	0	0	0	0	0
29							0	0	0	0	0	0
30	1621.5	12563	150	1.21	0.5	0.0	0	0	0	0	0	0
Monthly Totals			763	8.99				0		0		496
Year to Date Totals			-4950	58.54				2297		1666		5544

BARNEY RESERVOIR OPERATIONS FOR THE MONTH OF DECEMBER 2007

[See Appendix E for breakdown of municipal use by water provider.]

Source: Joint Water Commission

DAY	SURFACE ELEVATION	STORAGE	CHANGE IN STORAGE	RAIN @ BARNEY	MEASURED FLOW TO		STORAGE RELEASED TO		STORAGE RELEASED TO TUALATIN			
					TRASK	TUALATIN	TRASK—ODFW		CWS		MUNICIPAL	
					cfs	cfs	cfs	ac-ft	cfs	ac-ft	cfs	ac-ft
1							0	0	0	0	0	0
2							0	0	0	0	0	0
3							0	0	0	0	0	0
4	1628.0	15000	2437	12.00	7.3	0.0	0	0	0	0	0	0
5	1628.9	15338	338	0.04	2.4	0.0	0	0	0	0	0	0
6							0	0	0	0	0	0
7	1629.9	15713	375	5.30	1.7	0.0	0	0	0	0	0	0
8							0	0	0	0	0	0
9							0	0	0	0	0	0
10	1630.6	15975	262	0.70	0.5	0.0	0	0	0	0	0	0
11							0	0	0	0	0	0
12	1630.9	16088	113	0.01	0.5	0.0	0	0	0	0	0	0
13							0	0	0	0	0	0
14	1631.1	16200	112	0.02	0.5	0.0	0	0	0	0	0	0
15							0	0	0	0	0	0
16							0	0	0	0	0	0
17	1631.8	16425	225	1.38	0.5	0.0	0	0	0	0	0	0
18							0	0	0	0	0	0
19	1632.6	16725	300	2.78	2.3	0.0	0	0	0	0	0	0
20							0	0	0	0	0	0
21	1635.7	17888	1163	10.00	2.3	0.0	0	0	0	0	0	0
22							0	0	0	0	0	0
23							0	0	0	0	0	0
24	1636.5	18250	362	2.29	11.0	0.0	0	0	0	0	0	0
25							0	0	0	0	0	0
26	1636.5	18250	0	0.85	2.4	0.0	0	0	0	0	0	0
27							0	0	0	0	0	0
28	1637.1	18553	303	0.10	2.3	0.0	0	0	0	0	0	0
29							0	0	0	0	0	0
30							0	0	0	0	0	0
31	1638.3	19120	567	1.50	0.5	0.0	0	0	0	0	0	0
Monthly Totals			6557	36.97				0		0		0
Year to Date Totals			1607	95.51				2297		1666		5544

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Appendix E

Municipal Water Use Allocations Monthly Records

MONTHLY SUMMARIES OF MUNICIPAL ALLOCATIONS

MONTH	PAGE
January	no stored water released for municipal water use
February	no stored water released for municipal water use
March	no stored water released for municipal water use
April	no stored water released for municipal water use
May	E-3
June	E-4
July	E-5
August	E-6
September	E-7
October	E-8
November	E-9
December	no stored water released for municipal water use

MUNICIPAL ALLOCATIONS FOR THE MONTH OF MAY 2007

Source: Joint Water Commission

DAY	TOTAL MUNICIPAL USE	MUNICIPAL USE BY RESERVOIR		BREAKDOWN OF MUNICIPAL USE BY WATER PROVIDER						
				HILLSBORO		FOREST GROVE		BEAVERTON		TVWD
		Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney
		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	50.0	0.0	50.0	0.0	12.1	0.0	16.9	0.0	21.1	0.0
27	50.0	0.0	50.0	0.0	13.9	0.0	16.7	0.0	19.4	0.0
28	50.0	0.0	50.0	0.0	17.6	0.0	15.6	0.0	16.8	0.0
29	50.0	0.0	50.0	0.0	16.0	0.0	13.9	0.0	20.1	0.0
30	75.0	0.0	75.0	0.0	29.9	0.0	20.5	0.0	24.5	0.0
31	89.0	20.0	69.0	0.0	25.0	0.0	15.9	0.0	28.1	20.0
Monthly Totals										
cfs	364.0	20.0	344.0	0.0	114.5	0.0	99.5	0.0	130.0	20.0
ac-ft	722.0	39.7	682.3	0.0	227.1	0.0	197.3	0.0	257.9	39.7
Year-to-Date Totals										
cfs	364.0	20.0	344.0	0.0	114.5	0.0	99.5	0.0	130.0	20.0
ac-ft	722.0	39.7	682.3	0.0	227.1	0.0	197.3	0.0	257.9	39.7

MUNICIPAL ALLOCATIONS FOR THE MONTH OF JUNE 2007

Source: Joint Water Commission

DAY	TOTAL MUNICIPAL USE	MUNICIPAL USE BY RESERVOIR		BREAKDOWN OF MUNICIPAL USE BY WATER PROVIDER						
				HILLSBORO		FOREST GROVE		BEAVERTON		TVWD
		Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney
		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
1	75.0	20.0	55.0	1.0	27.8	0.4	10.7	0.6	16.4	18.0
2	75.0	20.0	55.0	0.0	22.0	0.0	13.2	0.0	19.8	20.0
3	75.0	20.0	55.0	0.8	25.1	0.4	11.0	0.6	18.8	18.2
4	75.0	20.0	55.0	1.3	25.3	0.5	9.9	1.0	19.8	17.1
5	68.0	20.0	48.0	1.0	22.1	0.4	9.4	0.7	16.5	17.9
6	51.0	20.0	31.0	5.7	15.3	1.7	4.6	4.2	11.1	8.4
7	32.0	12.0	20.0	2.9	9.0	1.2	3.7	2.4	7.3	5.5
8	32.0	12.0	20.0	3.7	9.2	1.1	2.7	3.2	8.0	4.1
9	32.0	12.0	20.0	3.0	8.2	1.0	2.8	3.3	9.0	4.7
10	32.0	12.0	20.0	2.9	9.1	1.0	3.0	2.5	7.8	5.7
11	32.0	12.0	20.0	3.5	10.0	0.9	2.7	2.5	7.2	5.1
12	37.0	12.0	25.0	3.0	12.1	1.0	3.8	2.3	9.1	5.8
13	32.0	12.0	20.0	3.2	9.6	1.1	3.3	2.4	7.1	5.3
14	42.0	12.0	30.0	1.9	14.1	0.7	5.1	1.5	10.8	7.9
15	54.0	12.0	42.0	0.1	19.3	0.1	7.9	0.1	14.7	11.7
16	57.0	12.0	45.0	0.0	17.3	0.0	10.9	0.0	16.7	12.0
17	57.0	12.0	45.0	0.0	20.2	0.0	10.2	0.0	14.7	12.0
18	57.0	12.0	45.0	0.2	20.7	0.1	7.9	0.1	16.4	11.6
19	42.0	12.0	30.0	2.2	13.4	0.8	4.9	1.9	11.7	7.1
20	42.0	12.0	30.0	1.5	11.1	1.0	7.1	1.6	11.7	7.9
21	57.0	12.0	45.0	0.0	16.5	0.0	10.5	0.0	18.0	12.0
22	47.0	12.0	35.0	0.6	12.9	0.4	7.5	0.7	14.6	10.2
23	47.0	12.0	35.0	0.2	12.5	0.1	7.8	0.3	14.7	11.4
24	47.0	12.0	35.0	0.3	14.1	0.1	7.3	0.3	13.6	11.3
25	47.0	12.0	35.0	0.9	16.2	0.4	6.8	0.7	12.0	10.0
26	52.0	12.0	40.0	0.6	18.6	0.3	8.3	0.4	13.1	10.6
27	52.0	12.0	40.0	0.3	16.3	0.1	8.8	0.3	14.9	11.3
28	52.0	12.0	40.0	0.0	15.3	0.0	9.2	0.0	15.5	12.0
29	60.0	12.0	48.0	0.0	18.0	0.0	13.5	0.0	16.5	12.0
30	50.0	12.0	38.0	0.0	16.8	0.0	8.9	0.0	12.3	12.0
Monthly Totals										
cfs	1510.0	408.0	1102.0	40.9	478.4	14.7	223.6	33.4	400.0	318.9
ac-ft	2995.1	809.3	2185.8	81.2	948.8	29.2	443.6	66.3	793.4	632.5
Year-to-Date Totals										
cfs	1874.0	428.0	1446.0	40.9	592.8	14.7	323.1	33.4	530.0	338.9
ac-ft	3717.1	848.9	2868.1	81.2	1175.9	29.2	640.9	66.3	1051.3	672.2

MUNICIPAL ALLOCATIONS FOR THE MONTH OF JULY 2007

Source: Joint Water Commission

DAY	TOTAL MUNICIPAL USE	MUNICIPAL USE BY RESERVOIR		BREAKDOWN OF MUNICIPAL USE BY WATER PROVIDER						
				HILLSBORO		FOREST GROVE		BEAVERTON		TVWD
		Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney
		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
1	50.0	12.0	38.0	0.0	16.9	0.0	8.6	0.0	12.5	12.0
2	50.0	12.0	38.0	0.0	17.6	0.0	8.1	0.0	12.2	11.9
3	68.0	20.0	48.0	2.0	20.0	1.1	10.5	1.7	17.5	15.2
4	80.0	20.0	60.0	1.0	25.8	0.5	12.8	0.9	21.4	17.6
5	80.0	20.0	60.0	0.6	26.3	0.3	12.8	0.5	20.9	18.5
6	65.0	20.0	45.0	2.3	18.7	1.3	11.0	1.8	15.3	14.6
7	65.0	20.0	45.0	2.4	19.4	1.3	10.4	1.8	15.2	14.5
8	65.0	20.0	45.0	2.2	19.6	1.1	9.9	1.7	15.5	15.0
9	65.0	20.0	45.0	3.0	20.3	1.6	10.8	2.1	13.9	13.3
10	65.0	20.0	45.0	2.6	19.9	1.3	9.8	2.0	15.3	14.1
11	80.0	20.0	60.0	1.6	25.3	0.9	14.8	1.2	19.9	16.3
12	70.0	20.0	50.0	2.1	20.0	1.3	12.8	1.8	17.2	14.8
13	70.0	20.0	50.0	2.5	21.4	1.3	11.6	1.9	17.0	14.3
14	70.0	20.0	50.0	2.5	21.3	1.4	11.5	2.0	17.2	14.1
15	70.0	20.0	50.0	2.6	20.3	1.5	12.2	2.2	17.6	13.6
16	70.0	20.0	50.0	2.9	20.0	1.8	12.1	2.6	17.9	12.6
17	60.0	25.0	35.0	4.8	11.4	4.3	10.3	5.6	13.3	10.4
18	50.0	25.0	25.0	7.9	10.2	5.4	6.9	6.1	7.9	5.6
19	45.0	25.0	20.0	7.9	7.4	4.4	4.1	9.2	8.6	3.6
20	40.0	25.0	15.0	10.3	7.1	4.0	2.8	7.3	5.1	3.4
21	35.0	25.0	10.0	9.6	4.4	4.2	1.9	8.0	3.7	3.3
22	35.0	25.0	10.0	10.6	4.6	4.0	1.8	8.2	3.6	2.2
23	35.0	25.0	10.0	11.9	5.2	3.6	1.6	7.3	3.2	2.2
24	43.0	25.0	18.0	8.5	7.7	4.0	3.6	7.4	6.7	5.2
25	50.0	25.0	25.0	9.4	11.8	4.0	5.0	6.5	8.2	5.1
26	45.0	20.0	25.0	7.5	11.7	3.1	4.8	5.5	8.6	3.9
27	35.0	20.0	15.0	8.8	7.5	2.9	2.5	5.9	5.1	2.4
28	48.0	20.0	28.0	6.4	11.3	3.0	5.2	6.5	11.4	4.1
29	48.0	20.0	28.0	7.1	12.8	2.8	5.0	5.7	10.2	4.3
30	48.0	20.0	28.0	6.3	13.0	2.5	5.2	4.8	9.8	6.4
31	48.0	20.0	28.0	4.7	11.2	2.8	6.6	4.3	10.2	8.1
Monthly Totals										
cfs	1748.0	649.0	1099.0	152.0	470.2	71.5	246.9	122.8	381.9	302.7
ac-ft	3467.2	1287.3	2179.9	301.5	932.7	141.8	489.8	243.6	757.4	600.4
Year-to-Date Totals										
cfs	3622.0	1077.0	2545.0	192.9	1063.1	86.2	570.0	156.2	911.9	641.6
ac-ft	7184.2	2136.2	5048.0	382.7	2108.6	171.0	1130.7	309.9	1808.8	1272.6

MUNICIPAL ALLOCATIONS FOR THE MONTH OF AUGUST 2007

Source: Joint Water Commission

DAY	TOTAL MUNICIPAL USE	MUNICIPAL USE BY RESERVOIR		BREAKDOWN OF MUNICIPAL USE BY WATER PROVIDER						
				HILLSBORO		FOREST GROVE		BEAVERTON		TVWD
		Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney
		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
1	60.0	20.0	40.0	4.1	17.7	2.2	9.3	3.1	13.0	10.6
2	68.0	20.0	48.0	2.9	19.7	1.8	12.1	2.4	16.2	12.9
3	68.0	20.0	48.0	0.0	21.4	0.0	9.8	0.0	16.8	20.0
4	58.0	20.0	38.0	3.1	14.8	2.1	10.1	2.8	13.1	12.0
5	58.0	20.0	38.0	3.3	15.9	1.9	9.0	2.7	13.2	12.1
6	58.0	20.0	38.0	4.3	17.0	2.1	8.5	3.2	12.5	10.3
7	48.0	20.0	28.0	5.7	12.2	2.9	6.3	4.4	9.5	6.9
8	48.0	20.0	28.0	4.3	11.1	2.7	6.8	3.9	10.1	9.1
9	48.0	20.0	28.0	5.4	13.3	2.4	5.9	3.6	8.8	8.6
10	48.0	20.0	28.0	4.6	11.8	2.6	6.8	3.7	9.5	9.1
11	60.0	20.0	40.0	3.9	17.7	2.0	9.0	2.9	13.3	11.2
12	60.0	20.0	40.0	3.3	16.2	2.0	9.6	2.9	14.2	11.8
13	60.0	20.0	40.0	3.3	18.1	1.6	8.7	2.4	13.2	12.7
14	55.0	20.0	35.0	3.7	14.3	2.3	9.0	3.0	11.7	11.0
15	60.0	20.0	40.0	3.8	17.5	2.2	10.3	2.7	12.2	11.3
16	60.0	20.0	40.0	2.7	15.1	1.9	10.5	2.6	14.4	12.7
17	55.0	20.0	35.0	3.5	14.5	2.1	8.8	2.8	11.7	11.6
18	55.0	20.0	35.0	3.4	14.4	2.0	8.7	2.8	11.9	11.8
19	55.0	20.0	35.0	3.1	13.2	2.0	8.5	3.2	13.3	11.6
20	55.0	20.0	35.0	5.8	14.9	3.0	7.6	4.8	12.5	6.4
21	40.0	20.0	20.0	6.8	8.7	3.4	4.3	5.5	7.0	4.3
22	35.0	20.0	15.0	5.8	5.5	3.8	3.6	6.3	5.9	4.1
23	35.0	20.0	15.0	8.0	7.1	2.9	2.6	6.0	5.3	3.1
24	35.0	20.0	15.0	5.5	5.2	4.0	3.8	6.4	6.1	4.2
25	40.0	20.0	20.0	6.3	8.5	3.2	4.4	5.2	7.1	5.3
26	40.0	20.0	20.0	6.6	9.4	3.1	4.5	4.3	6.1	6.0
27	40.0	20.0	20.0	3.6	6.1	3.3	5.6	4.9	8.3	8.2
28	55.0	20.0	35.0	3.4	14.7	2.0	8.6	2.8	11.8	11.8
29	73.0	20.0	53.0	0.5	22.2	0.4	14.8	0.4	16.0	18.7
30	75.0	25.0	50.0	2.2	19.2	1.5	13.6	1.9	17.2	19.4
31	65.0	25.0	40.0	3.4	16.7	2.2	11.0	2.5	12.2	16.9
Monthly Totals										
cfs	1670.0	630.0	1040.0	126.4	433.9	71.7	251.8	106.1	354.2	325.8
ac-ft	3312.4	1249.6	2062.8	250.7	860.7	142.3	499.5	210.4	702.6	646.2
Year-to-Date Totals										
cfs	5292.0	1707.0	3585.0	319.3	1497.0	157.9	821.9	262.3	1266.1	967.4
ac-ft	10496.7	3385.8	7110.8	633.4	2969.3	313.3	1630.2	520.3	2511.4	1918.8

MUNICIPAL ALLOCATIONS FOR THE MONTH OF SEPTEMBER 2007

Source: Joint Water Commission

DAY	TOTAL MUNICIPAL USE	MUNICIPAL USE BY RESERVOIR		BREAKDOWN OF MUNICIPAL USE BY WATER PROVIDER						
				HILLSBORO		FOREST GROVE		BEAVERTON		TVWD
		Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney
		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
1	65.0	25.0	40.0	2.5	15.7	1.8	11.0	2.1	13.2	18.6
2	65.0	25.0	40.0	3.5	17.0	2.2	10.5	2.5	12.5	16.8
3	65.0	25.0	40.0	6.7	18.9	3.2	9.0	4.3	12.1	10.8
4	65.0	25.0	40.0	3.5	13.2	2.6	10.0	4.4	16.8	14.5
5	70.0	25.0	45.0	4.8	22.4	2.3	10.8	2.6	11.9	15.3
6	60.0	25.0	35.0	5.1	14.5	2.9	8.1	4.4	12.3	12.6
7	60.0	25.0	35.0	5.7	15.9	2.9	8.0	4.0	11.0	12.4
8	65.0	25.0	40.0	6.2	20.4	2.6	8.6	3.3	11.0	12.9
9	65.0	25.0	40.0	4.8	17.8	2.6	9.7	3.4	12.5	14.3
10	65.0	25.0	40.0	4.3	17.4	2.4	9.7	3.2	12.9	15.1
11	75.0	25.0	50.0	2.4	21.3	1.5	13.1	1.8	15.7	19.4
12	85.0	25.0	60.0	1.6	27.3	0.9	14.7	1.1	18.0	21.4
13	75.0	25.0	50.0	2.4	19.5	1.5	12.3	2.3	18.2	18.7
14	68.0	25.0	43.0	4.9	21.6	2.2	9.5	2.7	11.9	15.2
15	60.0	25.0	35.0	4.5	13.8	2.8	8.6	4.1	12.6	13.7
16	60.0	25.0	35.0	5.1	15.8	2.4	7.3	3.8	11.9	13.7
17	60.0	25.0	35.0	4.0	14.0	2.4	8.5	3.6	12.5	15.0
18	55.0	25.0	30.0	5.4	13.3	2.7	6.8	4.0	9.9	12.9
19	50.0	25.0	25.0	6.4	10.9	3.2	5.4	5.1	8.7	10.4
20	43.0	25.0	18.0	7.8	8.4	3.4	3.6	5.6	6.0	8.3
21	37.0	25.0	12.0	7.6	4.1	2.2	4.2	6.9	3.7	8.3
22	46.0	16.0	30.0	3.1	12.7	0.0	7.5	2.4	9.8	10.5
23	59.0	16.0	43.0	0.9	17.4	0.0	10.3	0.8	15.3	14.3
24	61.0	16.0	45.0	0.1	17.5	0.0	10.9	0.1	16.5	15.9
25	74.0	16.0	58.0	0.0	25.7	0.0	13.7	0.0	18.7	16.0
26	59.0	16.0	43.0	0.0	15.6	0.0	12.9	0.0	14.5	16.0
27	64.0	20.0	44.0	1.6	18.2	0.0	11.9	1.2	13.9	17.1
28	50.0	20.0	30.0	4.4	11.6	0.0	8.9	3.6	9.5	12.0
29	46.0	16.0	30.0	2.8	11.5	0.0	7.9	2.5	10.6	10.7
30	46.0	16.0	30.0	3.5	11.5	0.0	9.1	2.9	9.4	9.6
Monthly Totals										
cfs	1818.0	677.0	1141.0	115.6	485.1	50.5	282.6	88.5	373.3	422.4
ac-ft	3606.0	1342.8	2263.2	229.2	962.1	100.2	560.6	175.5	740.4	837.9
Year-to-Date Totals										
cfs	7110.0	2384.0	4726.0	434.9	1982.0	208.5	1104.5	350.8	1639.4	1389.8
ac-ft	14102.7	4728.7	9374.0	862.6	3931.4	413.5	2190.8	695.8	3251.8	2756.7

MUNICIPAL ALLOCATIONS FOR THE MONTH OF OCTOBER 2007

Source: Joint Water Commission

DAY	TOTAL MUNICIPAL USE	MUNICIPAL USE BY RESERVOIR		BREAKDOWN OF MUNICIPAL USE BY WATER PROVIDER						
				HILLSBORO		FOREST GROVE		BEAVERTON		TVWD
		Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney
		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
1	46.0	16.0	30.0	4.3	12.5	0.0	6.5	3.8	11.0	7.9
2	29.0	10.0	19.0	1.6	7.0	0.0	5.1	1.6	6.9	6.8
3	30.0	10.0	20.0	1.9	8.2	0.0	5.2	1.5	6.6	6.5
4	25.0	10.0	15.0	1.2	3.9	0.0	5.5	1.8	5.6	7.0
5	25.0	10.0	15.0	0.9	3.4	0.0	5.2	1.7	6.4	7.5
6	48.0	10.0	38.0	0.0	7.6	0.0	14.5	0.0	15.9	10.0
7	48.0	10.0	38.0	0.0	12.4	0.0	11.3	0.0	14.4	10.0
8	48.0	10.0	38.0	0.0	9.4	0.0	14.0	0.0	14.7	10.0
9	22.0	10.0	12.0	1.3	2.7	0.0	4.4	2.3	4.9	6.5
10	22.0	10.0	12.0	1.2	3.0	0.0	5.0	1.6	4.1	7.2
11	22.0	10.0	12.0	1.1	2.4	0.0	4.8	2.2	4.8	6.8
12	30.0	10.0	20.0	0.6	4.4	0.0	6.1	1.4	9.5	8.0
13	34.0	5.0	29.0	0.0	7.2	0.0	9.0	0.0	12.9	5.0
14	30.0	5.0	25.0	0.0	7.6	0.0	8.3	0.0	9.1	5.0
15	30.0	5.0	25.0	0.0	6.0	0.0	8.3	0.0	10.7	5.0
16	30.0	5.0	25.0	0.0	7.1	0.0	9.6	0.0	8.2	5.0
17	25.0	5.0	20.0	0.0	4.5	0.0	6.5	0.0	9.0	5.0
18	30.0	5.0	25.0	0.0	5.1	0.0	9.2	0.0	10.6	5.0
19	30.0	5.0	25.0	0.0	7.9	0.0	7.5	0.0	9.6	5.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Monthly Totals										
cfs	604.0	161.0	443.0	14.2	122.4	0.0	146.0	17.8	174.7	129.0
ac-ft	1198.0	319.3	878.7	28.1	242.7	0.0	289.5	35.3	346.4	255.9
Year-to-Date Totals										
cfs	7714.0	2545.0	5169.0	449.1	2104.4	208.5	1250.5	368.6	1814.1	1518.8
ac-ft	15300.7	5048.0	10252.7	890.8	4174.1	413.5	2480.3	731.1	3598.2	3012.6

MUNICIPAL ALLOCATIONS FOR THE MONTH OF NOVEMBER 2007

Source: Joint Water Commission

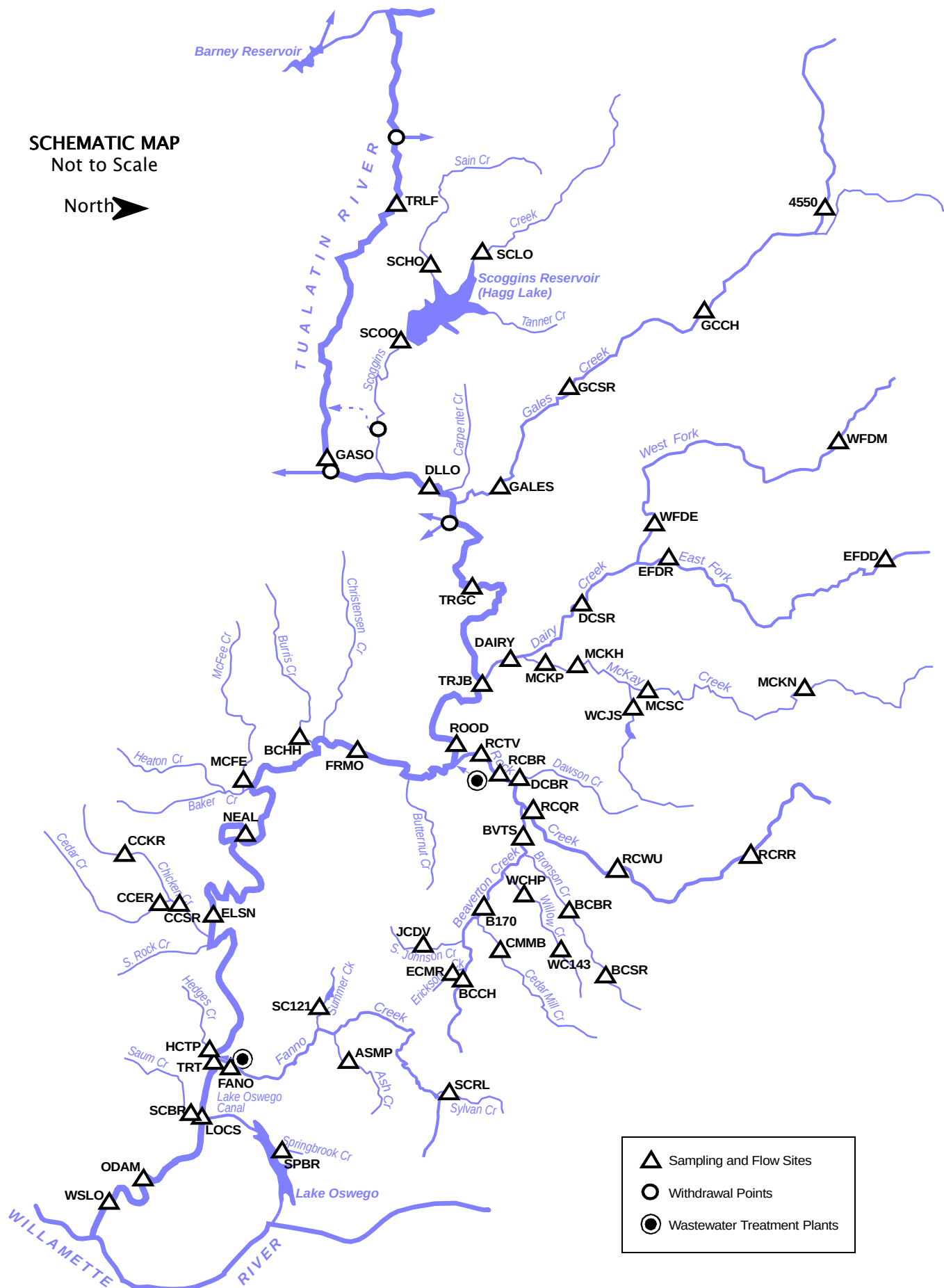
DAY	TOTAL MUNICIPAL USE	MUNICIPAL USE BY RESERVOIR		BREAKDOWN OF MUNICIPAL USE BY WATER PROVIDER						
				HILLSBORO		FOREST GROVE		BEAVERTON		TVWD
		Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney	Scoggins	Barney
		(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	40.0	20.0	20.0	2.1	3.3	0.0	7.4	6.0	9.2	11.9
7	30.0	20.0	10.0	6.4	2.8	0.0	4.4	6.5	2.8	7.0
8	35.0	30.0	5.0	2.3	0.6	5.6	1.5	11.2	2.9	11.0
9	35.0	30.0	5.0	5.8	1.4	5.1	1.2	9.6	2.3	9.5
10	35.0	30.0	5.0	4.7	1.2	5.1	1.3	10.5	2.6	9.7
11	35.0	30.0	5.0	6.1	1.5	4.7	1.1	9.7	2.4	9.5
12	35.0	30.0	5.0	5.3	1.3	4.9	1.2	10.3	2.5	9.5
13	35.0	30.0	5.0	4.1	1.0	5.5	1.4	10.4	2.6	9.9
14	30.0	30.0	0.0	7.1	0.0	5.5	0.0	9.9	0.0	7.5
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Monthly Totals										
cfs	310.0	250.0	60.0	44.1	13.1	36.4	19.5	83.9	27.4	85.6
ac-ft	614.9	495.9	119.0	87.6	26.1	72.1	38.7	166.4	54.3	169.7
Year-to-Date Totals										
cfs	8024.0	2795.0	5229.0	493.2	2117.6	244.8	1270.0	452.5	1841.4	1604.4
ac-ft	15915.6	5543.9	10371.7	978.3	4200.2	485.6	2519.0	897.5	3652.5	3182.4

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Appendix F

Stream Temperature Records

STREAM TEMPERATURE SITES — LOCATIONS



STREAM TEMPERATURE SITES — ALPHABETICAL LISTING BY SITE CODE

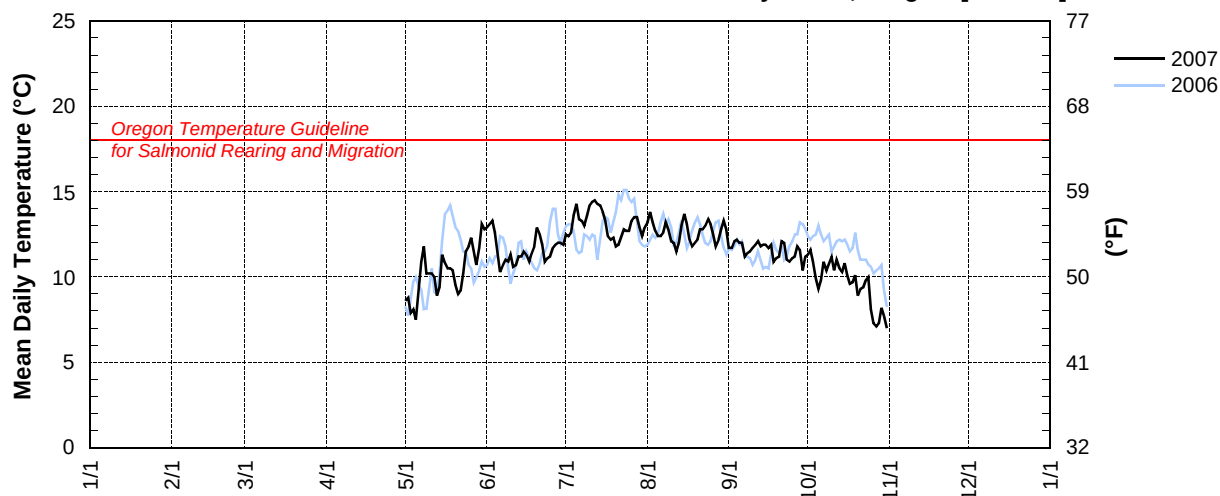
SITE CODE	SITE NAME	RIVER MILE	STATION ID	PAGE
4550	Gales Creek above Glenwood, Oregon	19.9	14204550	F-10
ASMP	Ash Creek at Metzger Park at Metzger, Oregon	1.25	14206933	F-53
B170	Beaverton Creek at 170th Ave, Beaverton, Oregon	4.9	—	F-35
BCBR	Bronson Creek at Bronson Road near Orenco, Oregon	2.1	14206423	F-39
BCCH	Beaverton Creek at Cedar Hills Blvd at Beaverton, Oregon	7.45	14206360	F-31
BCHH	Burris Creek at Hwy 219	0.38	—	F-45
BCSR	Bronson Creek at Saltzman Road near Orenco, Oregon	5.1	14206419	F-38
BVTS	Beaverton Creek at NE Guston Court near Orenco, Oregon	1.2	14206435	F-40
CCER	Cedar Creek at Edy Road near Sherwood, Oregon	0.62	14206748	F-50
CCKR	Chicken Creek at Kruger Road	4.5	—	F-49
CCSR	Chicken Creek at Scholls-Sherwood Road	2.3	14206750	F-51
CMMB	Cedar Mill Creek at Murray Boulevard near Beaverton, Oregon	1.64	14206395	F-34
DAIRY	Dairy Creek at Hwy 8 near Hillsboro, Oregon	2.06	14206200	F-25
DCBR	Dawson Creek at Brookwood Road near Hillsboro, Oregon	0.7	14206443	F-41
DCSR	Dairy Creek at Susbauer Road	6.02	—	F-19
DLLO	Tualatin River at Dilley, Oregon	58.8	14203500	F-9
ECMR	Erickson Creek at Menlo Drive at Beaverton, Oregon	0.76	14206365	F-32
EFDD	East Fork Dairy Creek near Dairy Creek Road near Mountindale, Oregon	12.33	14205480	F-17
EFDR	East Fork Dairy Creek at Roy Road	1.24	—	F-18
ELSN	Tualatin River at Elsner Road near Sherwood, Oregon	16.2	14206600	F-48
FANO	Fanno Creek at Durham Road near Tigard, Oregon	1.2	14206950	F-55
FRMO	Tualatin River at Farmington, Oregon	33.3	14206500	F-44
GALES	Gales Creek at Old Hwy 47 near Forest Grove, Oregon	2.36	14204530	F-13
GASO	Tualatin River at Gaston, Oregon	62.3	14202510	F-5
GCCH	Gales Creek at Clapshaw Hill Road near Gales Creek, Oregon	12.36	14204540	F-11
GCSR	Gales Creek at Stringtown Road	6.98	—	F-12
HCTP	Hedges Creek at Tualatin Community Park at Tualatin, Oregon	0.3	14206958	F-56
JCDV	Johnson Creek at Davis Road near Beaverton, Oregon	1.3	14206372	F-33
LOCS	Tualatin River at Oswego Canal near Lake Oswego, Oregon	6.7	14206990	F-59
MCKH	McKay Creek at Hornecker Road near Hillsboro, Oregon	2.2	14206180	F-23
MCKN	McKay Creek at Northrup Road near North Plains, Oregon	15.5	14205980	F-20
MCKP	McKay Creek at Padgett Road	1.31	14206190	F-24
MCFE	McFee Creek at Hwy 219 near Scholls, Oregon	0.8	14206670	F-46
MCSC	McKay Creek at Scotch Church Road above Waible Ck near North Plains, Oregon	6.3	14206070	F-21
NEAL	Tualatin River at RM 24.5 near Scholls, Oregon	24.5	14206694	F-47
ODAM	Tualatin River at Oswego Dam near West Linn, Oregon	3.4	14207200	F-60
RCQR	Rock Creek at Quatama near Orenco, Oregon	4.9	14206347	F-30
RCBR	Rock Creek at Brookwood Avenue, Hillsboro, Oregon	2.4	—	F-42
RCRR	Rock Creek at Rock Creek Road near Bowers Junction, Oregon	15.8	14206305	F-28
RCTV	Rock Creek at Hwy 8 near Hillsboro, Oregon	1.2	14206450	F-43
RCWU	Rock Creek at West Union Road near Bethany, Oregon	9.0	14206338	F-29
ROOD	Tualatin River at Rood Bridge Road near Hillsboro, Oregon	38.4	14206295	F-27
SC121	Summer Creek at 121st Avenue near Tigard, Oregon	1.0	14206938	F-54
SCBR	Saum Creek at Borland Road	0.6	—	F-58
SCHO	Sain Creek above Henry Hagg Lake near Gaston, Oregon	1.6	14202920	F-7
SCLO	Scoggins Creek above Henry Hagg Lake near Gaston, Oregon	8.0	14202850	F-6
SCOO	Scoggins Creek below Henry Hagg Lake near Gaston, Oregon	4.80	14202980	F-8
SCRL	Sylvan Creek at Raleighwood Lane near West Slope, Oregon	1.0	14206905	F-52
SPBR	Springbrook Creek at Iron Mountain Road near Lake Oswego, Oregon	0.18	14211116	F-62
TRGC	Tualatin River at Golf Course Road near Cornelius, Oregon	51.5	14204800	F-14
TRJB	Tualatin River at Hwy 219 Bridge	44.4	14206241	F-26
TRLF	Tualatin River below Lee Falls near Cherry Grove, Oregon	70.7	14202450	F-4
TRT	Tualatin River at Tualatin, Oregon	8.9	14206956	F-57
WC143	Willow Creek at 143rd Avenue near Beaverton, Oregon	3.5	14206410	F-36
WCHP	Willow Creek at Heritage Parkway near Beaverton, Oregon	0.75	14206413	F-37
WCJS	Waible Creek at Jackson School Road near Hillsboro, Oregon	1.0	14206100	F-22
WFDE	West Fork Dairy Creek at Evers Road	1.96	14205160	F-16
WFDM	West Fork Dairy Creek at Manning, Oregon	12.9	—	F-15
WSLO	Tualatin River at West Linn	1.75	14207500	F-61

TRLF – 14202450 – TUALATIN RIVER BELOW LEE FALLS NEAR CHERRY GROVE, OREGON [RM 70.7]

Latitude: 45 30 21 Longitude: 123 13 06

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					8.6	12.9	12.5	13.2	11.7	11.3		
2					8.8	13.1	12.4	13.8	11.7	11.6		
3					7.9	13.3	12.6	13.2	12.1	10.9		
4					8.1	12.6	13.6	12.7	12.2	9.9		
5					7.5	11.5	14.3	12.4	12.0	9.3		
6					9.0	10.3	13.4	12.4	12.0	9.8		
7					10.9	10.7	13.3	12.6	11.2	10.9		
8					11.8	11.0	13.0	13.2	11.4	10.4		
9					10.2	10.9	13.6	12.8	11.5	10.8		
10					10.2	11.3	14.2	12.1	11.7	11.2		
11					10.2	10.6	14.4	12.0	11.9	10.4		
12					10.0	10.7	14.5	11.5	12.1	11.0		
13					8.9	11.2	14.3	12.0	11.8	10.5		
14					9.4	11.2	14.2	13.0	11.9	10.3		
15					11.3	11.5	13.8	13.7	11.9	10.8		
16					10.8	11.3	13.3	13.1	11.7	10.1		
17					10.5	10.9	12.4	12.2	11.9	9.6		
18					10.5	11.4	12.2	11.8	10.9	9.7		
19					10.4	11.8	12.3	12.0	11.1	10.1		
20					9.5	12.9	11.8	12.2	11.2	8.9		
21					9.0	12.5	11.9	12.8	12.1	9.3		
22					9.2	11.9	12.3	12.8	12.0	9.4		
23					10.2	10.9	12.8	13.0	11.0	9.8		
24					11.5	11.1	12.7	13.4	10.9	10.0		
25					11.8	11.2	12.7	13.1	11.1	8.1		
26					12.3	11.7	13.3	12.5	11.2	7.3		
27					11.5	11.9	13.5	11.8	11.8	7.1		
28					10.7	12.0	13.5	12.2	11.6	7.3		
29		—			11.7	12.0	12.9	12.8	10.4	8.2		
30		—			13.1	11.9	12.4	13.3	11.2	7.7		
31		—		—	12.8	—	12.9	12.8	—	7.0		
MEAN					10.3	11.6	13.1	12.7	11.6	9.6		
MAX					13.1	13.3	14.5	13.8	12.2	11.6		
MIN					7.5	10.3	11.8	11.5	10.4	7.0		

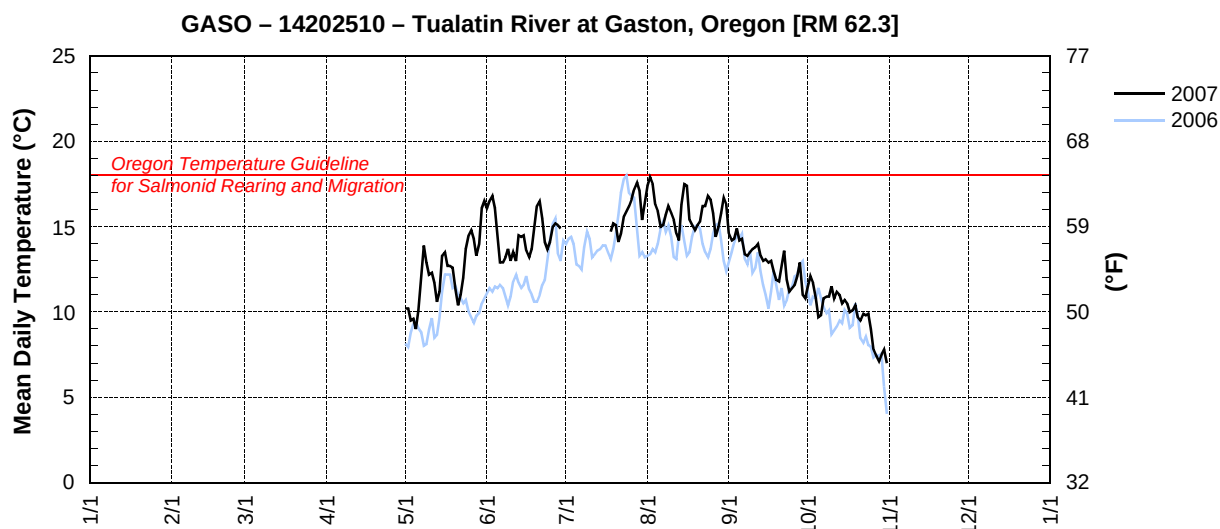
TRLF – 14202450 – Tualatin River below Lee Falls near Cherry Grove, Oregon [RM 70.7]


GASO – 14202510 – TUALATIN RIVER AT GASTON, OREGON [RM 62.3]

Latitude: 45 26 21 Longitude: 123 07 85

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					10.2	16.1	17.4	14.6	11.5			
2					10.2	16.5	17.9	14.2	12.1			
3					9.5	16.8	17.5	14.3	11.7			
4					9.6	16.1	16.3	14.9	10.8			
5					9.0	14.4	15.9	14.2	9.7			
6					10.1	12.9	15.0	14.3	9.8			
7					12.3	12.9	15.1	13.4	10.8			
8					13.9	13.2	15.7	13.3	10.9			
9					12.9	13.7	16.2	13.5	10.9			
10					12.2	13.0	15.8	13.7	11.5			
11					12.3	13.5	15.4	13.8	10.8			
12					11.7	13.0	14.6	14.0	11.2			
13					10.6	14.5	14.2	13.3	11.0			
14					11.2	14.4	16.3	13.0	10.5			
15					13.3	14.5	17.5	13.1	10.7			
16					13.5	13.6	17.4	12.9	10.5			
17					12.7	13.2	15.4	13.0	10.0			
18					12.7	13.7	14.7	15.1	12.4	10.1		
19					12.6	15.0	15.2	14.8	11.9	10.4		
20					11.3	16.2	15.1	15.1	11.8	9.7		
21					10.4	16.5	14.1	15.3	12.7	9.5		
22					11.0	15.5	14.6	16.2	13.6	9.9		
23					12.0	14.1	15.6	16.2	11.9	9.8		
24					13.7	13.7	15.9	16.8	11.2	9.9		
25					14.5	14.1	16.2	16.6	11.4	9.0		
26					14.8	15.0	16.6	15.8	11.6	7.8		
27					14.3	15.2	17.2	14.4	12.1	7.4		
28					13.3	15.1	17.6	15.0	12.9	7.1		
29		—			14.0	14.9	17.1	15.8	11.0	7.5		
30		—			16.1	15.4	16.7	10.8	7.8			
31		—		—	16.5	—	16.3	16.3	—	7.0	—	
MEAN					12.3	14.5	15.8	15.9	13.0	9.9		
MAX					16.5	16.8	17.6	17.9	14.9	12.1		
MIN					9.0	12.9	14.1	14.2	10.8	7.0		

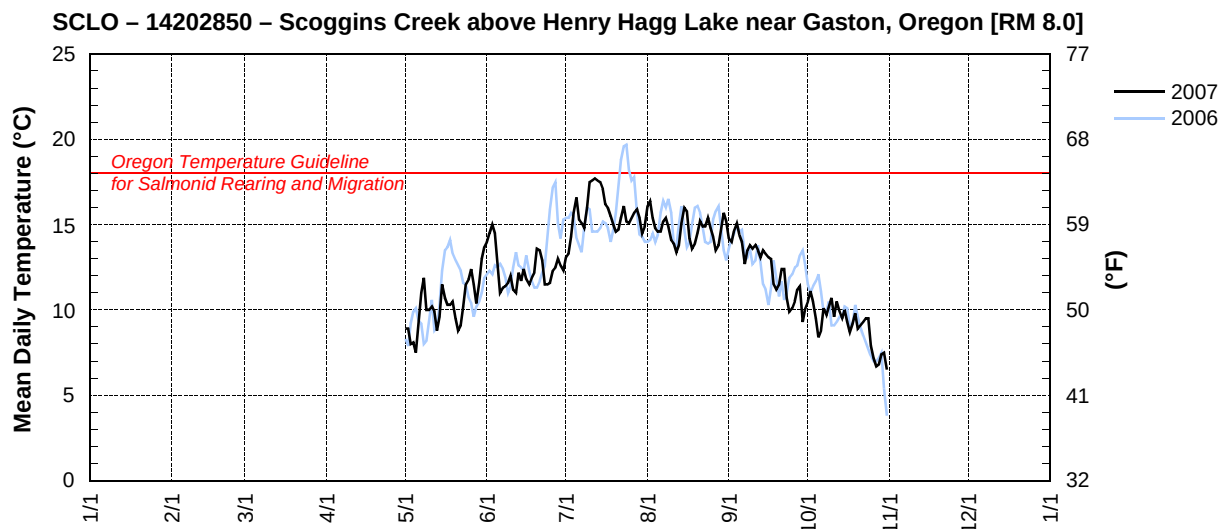


SCLO – 14202850 — SCOGGINS CREEK ABOVE HENRY HAGG LAKE NEAR GASTON, OREGON [RM 8.0]

Latitude: 45 30 06 Longitude: 123 15 06

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					8.9	14.0	13.1	16.1	14.2	10.5		
2					8.9	14.5	13.3	16.4	14.0	11.1		
3					8.0	15.0	14.3	15.4	14.7	10.5		
4					8.1	14.5	15.7	14.8	15.1	9.5		
5					7.5	12.9	16.6	14.6	14.4	8.4		
6					9.1	11.0	15.3	14.6	14.0	8.8		
7					11.0	11.3	15.1	15.2	12.7	10.1		
8					11.9	11.4	14.8	15.4	13.5	9.7		
9					10.0	11.6	16.0	14.9	13.8	10.2		
10					10.0	12.0	17.5	14.1	13.6	10.7		
11					10.2	11.2	17.6	13.9	13.8	9.6		
12					9.9	11.0	17.7	13.4	13.5	10.5		
13					8.8	12.2	17.6	13.8	13.1	9.9		
14					9.6	11.7	17.5	15.1	13.5	9.5		
15					11.5	12.4	17.1	16.0	13.3	10.0		
16					10.7	11.8	16.2	15.8	13.1	9.3		
17					10.3	11.5	16.0	14.2	13.0	8.7		
18					10.3	11.9	15.5	13.6	11.5	9.2		
19					10.5	12.2	15.0	13.9	11.2	9.8		
20					9.5	13.6	14.6	14.5	11.5	8.9		
21					8.8	13.5	14.7	15.2	12.4	9.1		
22					9.1	12.9	15.4	14.9	12.4	9.3		
23					10.2	11.5	16.1	14.9	10.7	9.5		
24					11.5	11.5	15.2	15.4	9.9	9.5		
25					11.8	11.6	15.1	14.8	10.1	7.9		
26					12.4	12.3	15.4	14.3	10.5	7.2		
27					11.5	12.5	15.7	13.5	11.2	6.7		
28					10.4	13.0	15.9	13.8	11.4	6.8		
29		—			11.6	12.6	15.4	14.8	9.3	7.4		
30		—			13.0	12.3	14.5	15.7	10.1	7.5		
31		—		—	13.7	—	14.9	15.2	—	6.5	—	
MEAN					10.3	12.4	15.6	14.8	12.5	9.1		
MAX					13.7	15.0	17.7	16.4	15.1	11.1		
MIN					7.5	11.0	13.1	13.4	9.3	6.5		

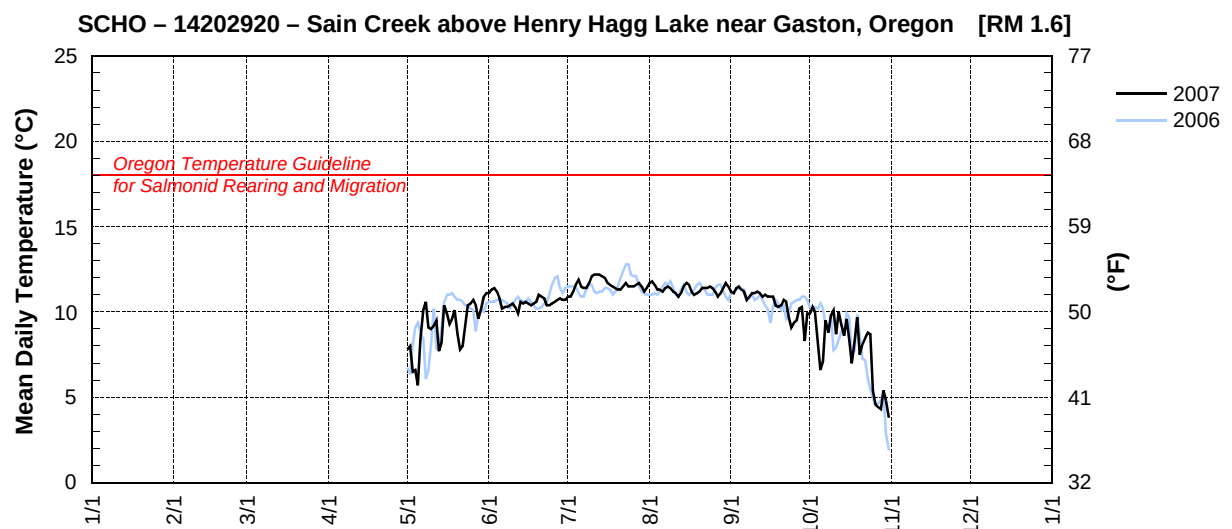


SCHO – 14202920 — SAIN CREEK ABOVE HENRY HAGG LAKE NEAR GASTON, OREGON [RM 1.6]

Latitude: 45 28 50 Longitude: 123 14 40

Source Agency: District 18 Watermaster

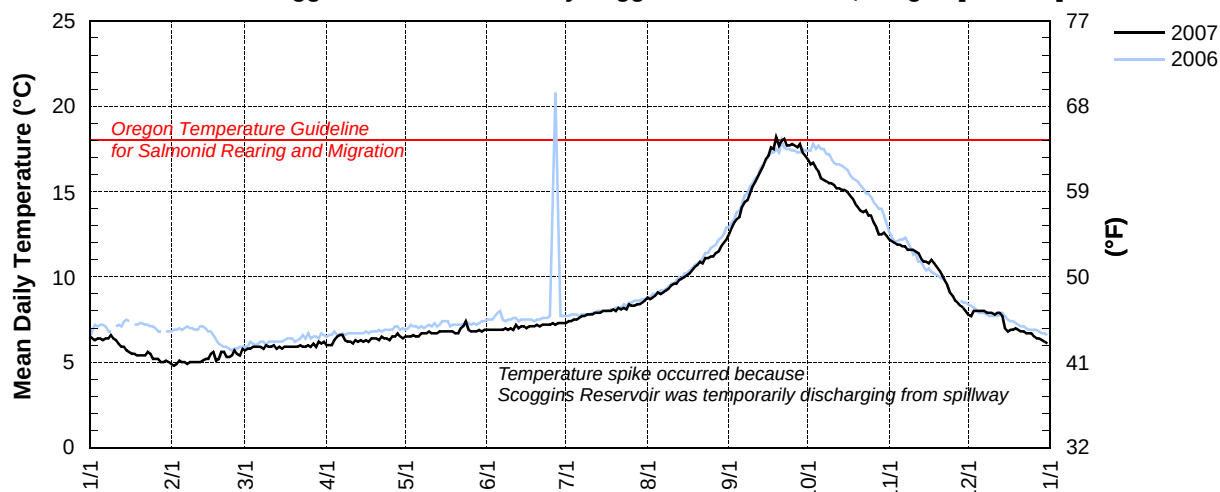
Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					7.8	11.1	10.9	11.7	11.2	9.9		
2					8.0	11.3	10.9	11.8	11.1	10.3		
3					6.5	11.4	11.2	11.6	11.4	10.0		
4					6.6	11.2	11.6	11.3	11.5	8.3		
5					5.7	10.8	11.9	11.3	11.3	6.6		
6					8.4	10.2	11.5	11.2	11.2	7.1		
7					10.1	10.3	11.4	11.4	10.7	9.5		
8					10.6	10.3	11.4	11.5	10.9	8.8		
9					9.1	10.4	11.7	11.4	11.1	9.8		
10					9.0	10.5	12.1	11.2	11.1	10.1		
11					9.2	10.3	12.2	11.1	11.2	8.7		
12					9.5	9.9	12.2	10.9	11.1	10.0		
13					7.7	10.6	12.2	11.1	10.9	9.2		
14					8.2	10.5	12.1	11.5	11.0	8.6		
15					10.4	10.6	12.0	11.7	10.9	9.6		
16					9.9	10.5	11.7	11.6	10.9	8.4		
17					9.3	10.4	11.6	11.2	10.9	7.0		
18					9.6	10.5	11.5	11.0	10.4	8.3		
19					10.1	10.6	11.4	11.1	10.3	9.7		
20					8.7	11.0	11.3	11.2	10.4	7.5		
21					7.8	10.9	11.3	11.4	10.7	8.1		
22					8.0	10.8	11.5	11.4	10.6	8.5		
23					9.2	10.4	11.7	11.4	9.7	8.8		
24					10.4	10.4	11.5	11.5	9.1	8.7		
25					10.5	10.5	11.5	11.4	9.4	5.4		
26					10.7	10.6	11.5	11.2	9.5	4.6		
27					10.4	10.7	11.6	10.9	10.2	4.4		
28					9.6	10.8	11.7	11.1	10.3	4.3		
29		—			10.2	10.7	11.5	11.4	8.3	5.4		
30		—			10.9	10.7	11.2	11.7	9.9	4.8		
31		—		—	11.1	—	11.4	11.5	—	3.8	—	
MEAN					9.1	10.6	11.6	11.3	10.6	7.9		
MAX					11.1	11.4	12.2	11.8	11.5	10.3		
MIN					5.7	9.9	10.9	10.9	8.3	3.8		



STATION NUMBER 14202980 SCOGGINS CK BLW HENRY HAGG LAKE, NR GASTON, OR

LATITUDE: 452810 LONGITUDE: 12311561

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	6.5	4.9	5.8	6.0	6.5	6.9	7.3	8.8	12.5	16.9	12.2	7.8
2	6.4	4.8	5.8	6.0	6.5	6.9	7.4	8.7	12.9	16.7	12.1	7.7
3	6.4	4.9	5.8	6.0	6.5	6.9	7.4	8.8	13.2	16.7	12.0	8.0
4	6.4	5.1	5.9	6.3	6.6	6.9	7.5	8.9	13.4	16.4	11.9	8.0
5	6.4	5.0	5.9	6.5	6.5	6.9	7.5	9.1	13.5	16.2	11.9	8.0
6	6.3	5.0	5.9	6.6	6.5	6.9	7.6	9.0	14.1	15.8	11.8	8.0
7	6.4	5.0	5.9	6.6	6.7	6.9	7.7	9.1	14.4	15.7	11.8	8.0
8	6.4	5.0	5.8	6.3	6.7	7.0	7.7	9.3	14.5	15.6	11.6	7.9
9	6.7	5.0	6.0	6.2	6.7	6.9	7.8	9.3	14.9	15.5	11.6	7.9
10	6.4	5.0	5.9	6.2	6.8	7.0	7.8	9.5	15.3	15.5	11.6	7.9
11	6.3	5.0	5.9	6.1	6.7	6.9	7.8	9.6	15.6	15.4	11.5	7.9
12	6.1	5.0	6.0	6.3	6.7	7.2	7.9	9.7	15.9	15.2	11.4	7.9
13	6.0	5.1	5.8	6.2	6.7	7.0	7.9	9.8	16.2	15.2	11.1	7.9
14	5.9	5.2	5.9	6.3	6.8	7.1	7.9	9.9	16.6	15.1	10.9	7.7
15	5.7	5.2	5.8	6.2	6.8	7.1	8.0	10.0	16.9	15.1	10.9	7.0
16	5.6	5.5	5.9	6.3	6.8	7.0	8.0	10.1	17.1	15.0	10.8	6.8
17	5.5	5.6	5.9	6.2	6.8	7.1	8.0	10.2	17.6	14.8	11.0	6.9
18	5.5	5.1	5.9	6.4	6.8	7.1	8.0	10.4	17.5	14.6	10.8	6.9
19	5.4	5.2	5.9	6.4	6.8	7.1	8.1	10.6	18.2	14.3	10.6	7.1
20	5.4	5.6	5.9	6.4	6.7	7.2	8.0	10.7	17.7	14.1	10.4	6.9
21	5.4	5.6	5.9	6.3	6.7	7.1	8.2	10.9	18.0	13.9	10.1	6.8
22	5.4	5.3	6.0	6.5	7.1	7.2	8.1	10.8	18.1		9.8	6.8
23	5.6	5.3	5.9	6.4	7.1	7.2	8.2	11.1	17.7		9.5	6.7
24	5.5	5.4	5.9	6.4	7.4	7.2	8.1	11.1	17.7	13.6	9.1	6.7
25	5.2	5.7	6.0	6.4	6.9	7.2	8.4	11.2	17.8	13.6	8.9	6.7
26	5.2	5.5	5.9	6.5	6.8	7.3	8.3	11.2	17.7	13.2	8.6	6.5
27	5.2	5.4	6.1	6.5	6.8	7.2	8.3	11.4	17.6	12.9	8.5	6.4
28	5.0	5.8	5.9	6.7	6.8	7.3	8.4	11.5	17.8	12.5	8.3	6.4
29	5.0	—	6.2	6.5	6.9	7.3	8.4	11.8	17.3	12.5	8.2	6.3
30	5.1	—	6.1	6.4	6.8	7.3	8.5	12.0	17.1	12.6	8.0	6.2
31	5.0	—	6.2	—	6.9	—	8.6	12.2	—	12.4	—	6.1
MEAN	5.8	5.2	5.9	6.3	6.8	7.1	8.0	10.2	16.2	14.7	10.6	7.2
MAX	6.7	5.8	6.2	6.7	7.4	7.3	8.6	12.2	18.2	16.9	12.2	8.0
MIN	5.0	4.8	5.8	6.0	6.5	6.9	7.3	8.7	12.5	12.4	8.0	6.1

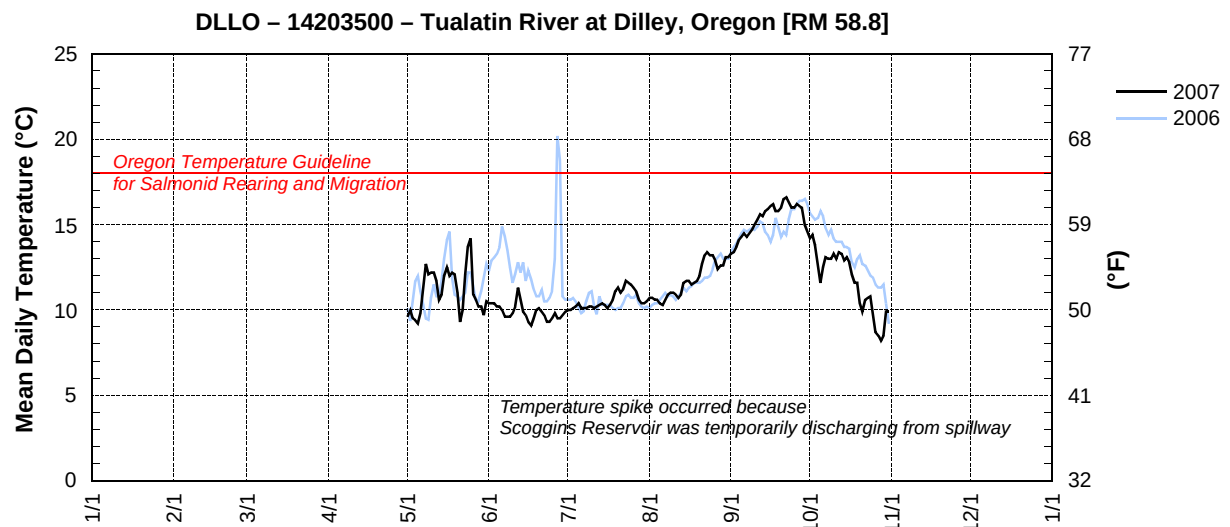
[†] Provisional data—subject to revision**SCOO – 14202980 – Scoggins Creek below Henry Hagg Lake near Gaston, Oregon [RM 4.80]**

DLLO – 14203500 – TUALATIN RIVER AT DILLEY, OREGON [RM 58.8]

Latitude: 45 28 30 Longitude: 123 07 23

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					9.6	10.4	10.0	10.7	13.3	14.2		
2					10.0	10.4	10.0	10.7	13.4	14.4		
3					9.5	10.4	10.1	10.6	13.7	13.8		
4					9.4	10.2	10.2	10.6	14.1	12.7		
5					9.2	10.2	10.4	10.4	14.3	11.6		
6					9.8	10.0	10.1	10.3	14.5	12.5		
7					11.3	9.6	10.1	10.6	14.3	13.1		
8					12.7	9.6	10.1	10.9	14.5	13.0		
9					12.1	9.6	10.2	11.0	14.7	13.0		
10					12.2	9.8	10.2	11.0	15.0	13.3		
11					12.2	10.2	10.1	10.9	15.3	13.0		
12					11.7	11.3	10.2	10.7	15.6	13.4		
13					10.6	10.6	10.3	10.9	15.5	13.3		
14					10.9	9.9	10.4	11.6	15.8	12.9		
15					12.0	9.7	10.3	11.7	15.9	13.1		
16					12.5	9.3	10.1	11.7	16.1	12.8		
17					12.0	9.1	10.3	11.5	16.2	12.1		
18					12.2	9.5	10.6	11.6	15.8	11.6		
19					12.1	10.0	11.1	11.7	15.8	11.6		
20					11.0	10.1	11.3	12.0	16.0	10.4		
21					9.3	9.9	11.0	12.7	16.5	9.9		
22					10.0	9.7	11.2	13.2	16.6	10.6		
23					12.1	9.3	11.7	13.4	16.3	10.7		
24					13.7	9.3	11.6	13.2	16.0	10.8		
25					14.2	9.5	11.5	13.2	16.0	9.7		
26					10.9	9.8	11.3	12.9	16.2	8.7		
27					10.6	9.5	11.1	12.4	16.1	8.5		
28					10.2	9.5	10.6	12.6	16.0	8.2		
29		—			10.2	9.7	10.4	12.6	15.0	8.5		
30		—			9.7	9.9	10.4	13.1	14.6	9.9		
31		—		—	10.5	—	10.5	13.1	—	9.9	—	
MEAN					11.1	9.9	10.6	11.7	15.3	11.7		
MAX					14.2	11.3	11.7	13.4	16.6	14.4		
MIN					9.2	9.1	10.0	10.3	13.3	8.2		



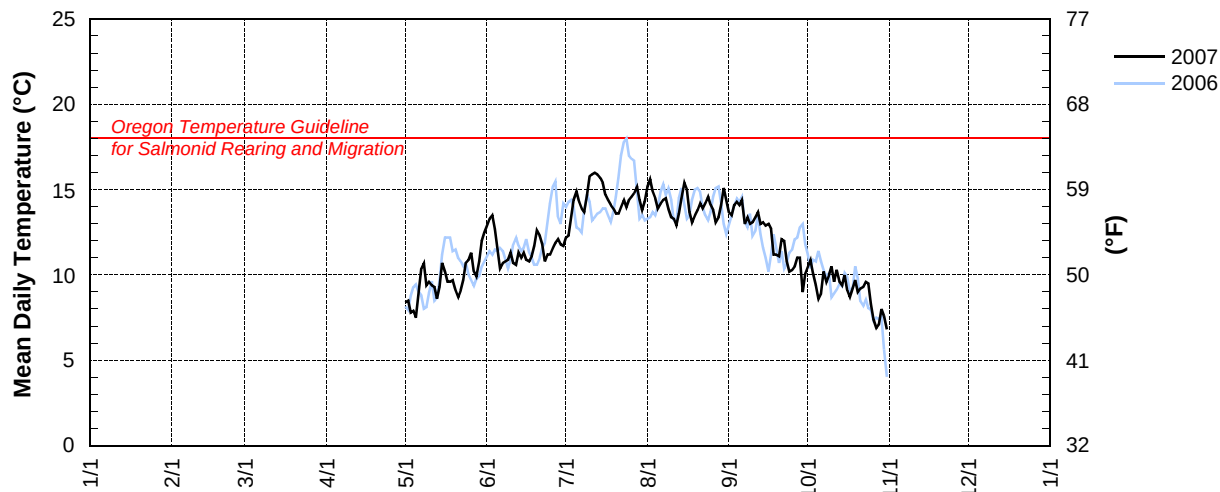
14204550 – GALES CREEK ABOVE GLENWOOD, OREGON [RM 19.9]

Latitude: 45 31 12 Longitude: 123 00 38

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					8.4	12.9	12.2	15.2	13.7	10.5		
2					8.5	13.3	12.3	15.6	13.5	10.9		
3					7.8	13.5	13.3	14.9	14.1	10.1		
4					7.9	12.7	14.4	14.5	14.3	9.4		
5					7.5	11.6	14.9	13.9	14.1	8.6		
6					8.9	10.4	14.3	14.2	14.4	8.9		
7					10.4	10.7	13.9	14.4	13.0	10.2		
8					10.7	10.8	13.7	14.5	13.4	9.6		
9					9.4	10.9	14.7	13.9	13.0	10.0		
10					9.6	11.3	15.8	13.4	13.1	10.5		
11					9.4	10.7	15.9	13.3	13.4	9.6		
12					9.3	10.6	16.0	12.9	13.7	10.3		
13					8.6	11.3	15.9	13.6	13.0	9.6		
14					9.3	11.0	15.7	14.5	13.1	9.4		
15					10.7	11.3	15.4	15.4	12.9	10.0		
16					10.2	10.9	14.7	15.0	13.0	9.1		
17					9.6	10.8	14.4	13.7	12.7	8.7		
18					9.6	11.1	14.1	13.1	11.2	9.2		
19					9.7	11.7	13.9	13.5	11.2	9.7		
20					9.1	12.6	13.6	13.8	11.1	9.0		
21					8.7	12.3	13.6	14.2	12.1	9.2		
22					9.1	11.8	14.0	13.9	12.0	9.3		
23					9.7	10.8	14.4	14.2	10.8	9.6		
24					10.7	11.2	14.0	14.6	10.2	9.5		
25					10.9	11.2	14.4	14.1	10.3	8.3		
26					11.3	11.6	14.6	13.8	10.5	7.4		
27					10.2	11.9	14.8	13.1	11.0	6.9		
28					9.9	12.1	15.2	13.4	11.0	7.1		
29		—			10.8	11.8	14.4	14.1	9.0	8.0		
30		—			12.0	11.7	13.8	15.1	10.1	7.6		
31		—		—	12.5	—	14.3	14.4	—	6.8	—	
MEAN					9.7	11.6	14.4	14.1	12.3	9.1		
MAX					12.5	13.5	16.0	15.6	14.4	10.9		
MIN					7.5	10.4	12.2	12.9	9.0	6.8		

14204550 – Gales Creek above Glenwood, Oregon [RM 19.9]



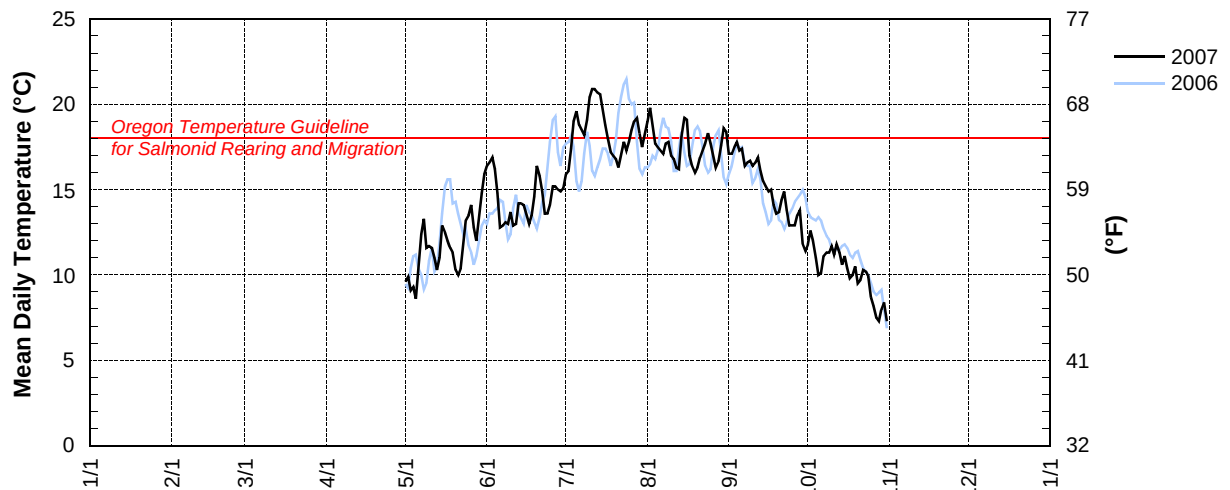
GCCH – 14204540 – GALES CREEK AT CLAPSHAW HILL ROAD NEAR GALES CREEK, OREGON [RM 12.36]

Latitude: 45 35 39 Longitude: 123 12 38

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					9.6	16.4	15.9	19.0	17.1	11.8		
2					9.9	16.6	16.1	19.8	17.1	12.6		
3					9.1	16.9	17.4	18.8	17.5	12.0		
4					9.3	16.2	19.0	17.7	17.8	11.0		
5					8.6	14.8	19.6	17.5	17.3	10.0		
6					10.2	12.8	18.8	17.3	17.4	10.1		
7					12.4	12.9	18.5	17.1	16.4	11.1		
8					13.3	13.1	18.2	17.7	16.6	11.3		
9					11.6	13.0	19.1	17.8	16.7	11.3		
10					11.7	13.7	20.4	17.0	16.4	11.7		
11					11.6	12.9	20.9	16.8	16.6	11.2		
12					11.0	13.0	20.9	16.3	16.9	11.8		
13					10.3	14.2	20.7	16.2	16.1	11.3		
14					11.0	14.2	20.6	18.1	15.5	10.6		
15					12.9	14.1	19.7	19.2	15.2	11.1		
16					12.5	13.6	18.8	19.1	14.9	10.4		
17					12.0	13.0	18.0	17.0	15.0	9.8		
18					11.6	13.5	17.2	16.4	14.1	10.0		
19					11.3	14.6	17.0	16.0	13.6	10.5		
20					10.3	16.4	16.8	16.3	13.7	9.5		
21					10.0	15.8	16.3	16.9	14.4	9.7		
22					10.4	14.9	17.0	17.3	14.9	10.3		
23					11.7	13.6	17.8	17.7	13.8	10.2		
24					13.2	13.6	17.3	18.3	12.9	9.9		
25					13.5	14.1	17.8	17.7	12.9	8.7		
26					14.1	15.2	18.5	17.0	12.9	8.2		
27					12.8	15.2	19.0	16.3	13.5	7.5		
28					12.0	15.0	19.2	16.7	13.8	7.3		
29		—			13.4	14.9	18.3	17.6	11.8	8.0		
30		—			14.8	15.1	17.5	18.6	11.4	8.4		
31		—		—	15.9	—	18.2	18.4	—	7.3	—	
MEAN					11.7	14.4	18.4	17.5	15.1	10.1		
MAX					15.9	16.9	20.9	19.8	17.8	12.6		
MIN					8.6	12.8	15.9	16.0	11.4	7.3		

GCCH – 14204540 – Gales Creek at Clapshaw Hill Road near Gales Creek, Oregon [RM 12.36]

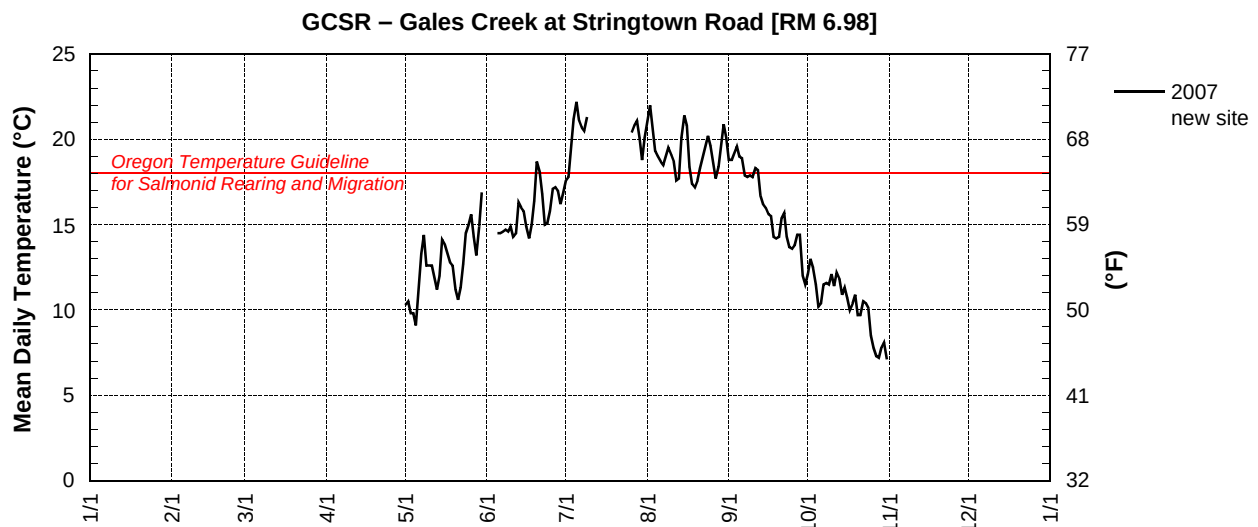


GCSR – GALES CREEK AT STRINGTOWN ROAD [RM 6.98]

Latitude: 45 32 26 Longitude: 123 10 09

Source Agency: District 18 Watermaster

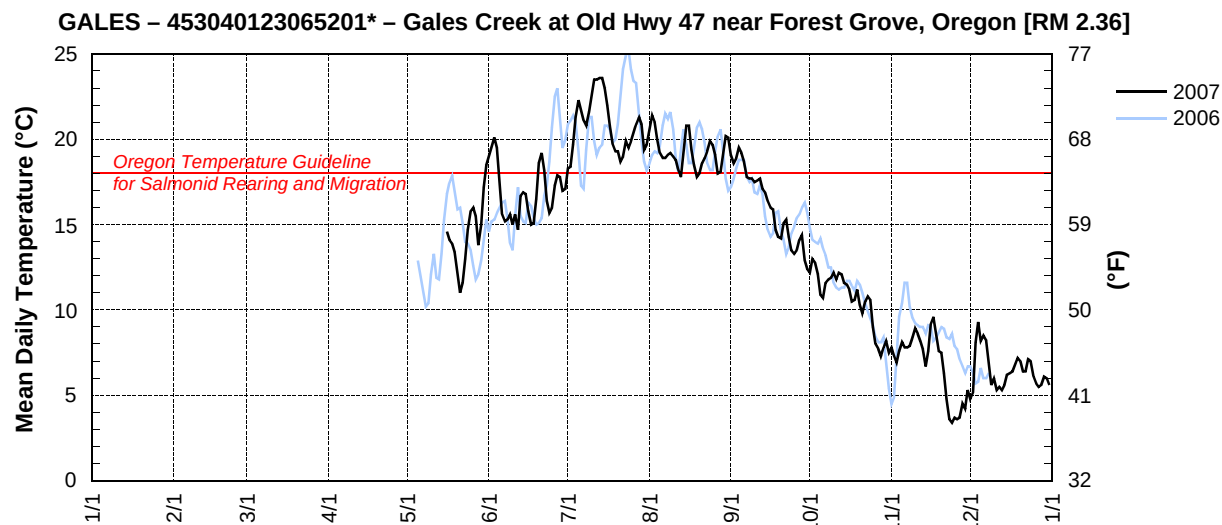
Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					10.3		17.6	21.1	18.8	12.1		
2					10.5		17.8	22.0	18.8	13.0		
3					9.8		19.4	20.7	19.2	12.5		
4					9.8		21.2	19.3	19.6	11.5		
5					9.1	14.5	22.2	19.0	19.0	10.2		
6					10.9	14.5	21.1	18.7	18.9	10.4		
7					13.3	14.6	20.7	18.5	17.9	11.5		
8					14.4	14.7	20.5	19.0	17.8	11.6		
9					12.6	14.6	21.3	19.5	17.9	11.5		
10					12.6	14.9		19.1	17.8	12.1		
11					12.6	14.3		18.7	18.3	11.4		
12					11.9	14.5		17.6	18.2	12.2		
13					11.2	16.3		17.7	16.7	11.8		
14					12.0	16.0		20.1	16.2	10.9		
15					14.1	15.8		21.4	16.0	11.3		
16					13.8	14.9		20.8	15.6	10.7		
17					13.3	14.2		18.4	15.5	10.0		
18					12.8	15.0		17.4	14.3	10.4		
19					12.6	16.4		17.2	14.2	10.9		
20					11.2	18.7		17.6	14.3	9.7		
21					10.6	18.1		18.3	15.4	9.7		
22					11.3	16.8		18.9	15.7	10.5		
23					12.7	15.0		19.5	14.3	10.4		
24					14.5	15.1		20.2	13.7	10.1		
25					15.0	15.8		19.6	13.6	8.5		
26					15.6	17.1	20.4	18.6	13.8	7.8		
27					14.3	17.2	20.8	17.7	14.4	7.3		
28					13.2	17.0	21.1	18.4	14.4	7.2		
29		—			14.9	16.2	20.1	19.6	12.0	7.8		
30		—			16.9	16.9	18.8	20.9	11.5	8.1		
31		—		—		—	20.1	20.1	—	7.1	—	
MEAN					12.6	15.7	20.2	19.2	16.1	10.3		
MAX					16.9	18.7	22.2	22.0	19.6	13.0		
MIN					9.1	14.2	17.6	17.2	11.5	7.1		



STATION NUMBER 453040123065201* GALES CREEK AT OLD HWY 47, FOREST GROVE, OR

LATITUDE: 453039.75 LONGITUDE: 1230652.0

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1						19.0	18.3	20.6	19.1	12.2	7.8	4.9
2						19.5	18.4	21.4	18.6	13.0	7.4	5.1
3						20.1	19.6	21.0	18.9	12.9	7.0	8.0
4						19.6	21.2	20.0	19.5	12.1	7.6	9.3
5						17.4	22.3	19.2	19.2	10.9	8.1	8.2
6						15.7	21.7	18.9	18.8	10.7	7.9	8.5
7						15.2	21.1	18.9	17.8	11.5	7.8	8.2
8						15.3	20.8	19.1	17.7	11.8	7.9	7.0
9						15.6	21.5	19.2	17.7	11.9	8.3	5.6
10						15.0	22.6	19.0	17.5	12.2	8.9	6.0
11						15.7	23.5	18.8	17.6	11.8	8.6	5.3
12						14.7	23.5	18.2	17.7	12.2	8.2	5.5
13						16.7	23.6	17.8	17.2	12.1	7.8	5.3
14						16.9	23.6	19.2	16.9	11.6	6.7	5.6
15						16.8	23.0	20.8	16.5	11.5	7.5	6.2
16						15.8	22.0	20.8	16.1	11.2	9.2	6.3
17					14.1	15.0	20.9	19.4	15.9	10.5	9.6	6.4
18					13.9	15.1	19.7	18.6	14.7	10.5	8.6	6.8
19					13.4	16.5	19.3	17.8	14.2	11.3	7.6	7.2
20					12.2	18.5	19.3	18.0	14.2	10.3	7.5	7.0
21					11.0	19.2	18.7	18.5	15.1	9.8	6.3	6.4
22					11.6	18.3	19.0	18.9	15.3	10.5	4.8	6.4
23					13.0	16.5	19.9	19.3	14.3	10.8	3.6	7.1
24					14.7	15.7	19.5	19.9	13.6	10.6	3.4	7.0
25					15.9	16.0	19.9	19.7	13.3	9.0	3.7	6.1
26					16.0	17.3	20.4	19.1	13.5	8.0	3.6	5.7
27					15.6	17.9	20.8	18.0	14.1	7.7	3.7	5.5
28					13.8	17.8	21.3	18.1	14.4	7.4	4.6	5.6
29		—			15.0	17.1	20.9	19.1	12.9	7.8	4.2	6.1
30		—			17.2	17.1	19.4	20.1	12.4	8.2	5.3	6.0
31		—			18.5	—	19.7	20.1	—	7.5	—	5.6
MEAN					14.4	16.9	20.8	19.3	16.2	10.6	6.8	6.5
MAX					18.5	20.1	23.6	21.4	19.5	13.0	9.6	9.3
MIN					11.0	14.7	18.3	17.8	12.4	7.4	3.4	4.9

[†]Provisional data—subject to revision

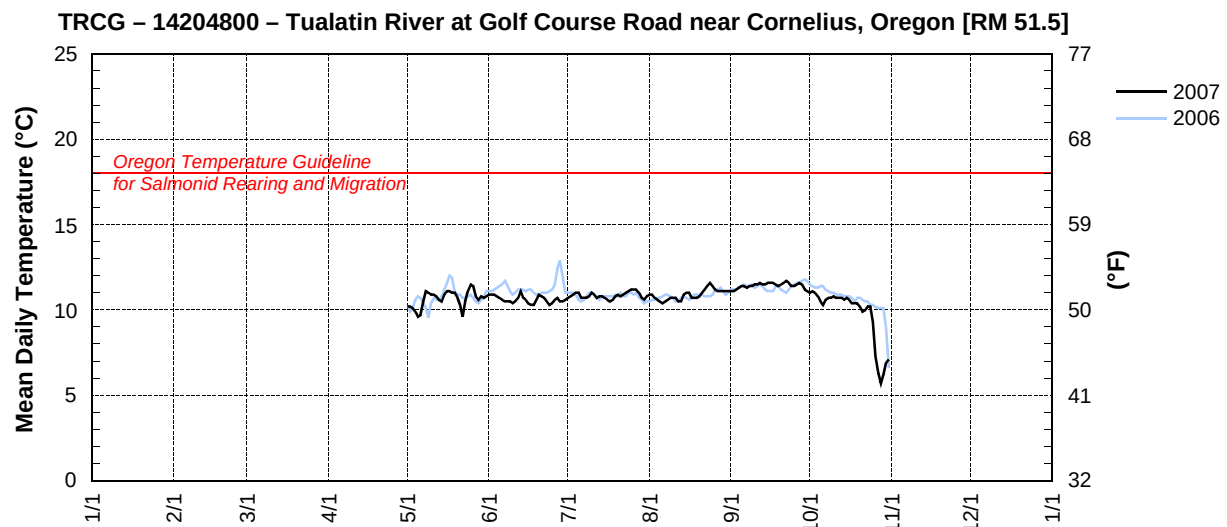
*USGS #453040123065201 is equivalent to OWRD #14204530.

TRGC – 14204800 – TUALATIN RIVER AT GOLF COURSE ROAD NEAR CORNELIUS, OREGON [RM 51.5]

Latitude: 45 30 39 Longitude: 123 06 56

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					10.2	10.9	10.7	10.9	11.1	11.0		
2					10.2	10.9	10.8	10.9	11.1	11.1		
3					10.1	10.9	10.9	10.7	11.2	11.0		
4					9.9	10.8	11.0	10.6	11.3	10.8		
5					9.6	10.7	11.0	10.5	11.4	10.5		
6					9.7	10.6	10.7	10.4	11.4	10.3		
7					10.5	10.5	10.7	10.5	11.3	10.6		
8					11.1	10.5	10.7	10.6	11.4	10.7		
9					11.0	10.5	10.8	10.7	11.4	10.7		
10					10.9	10.4	11.0	10.7	11.5	10.8		
11					10.9	10.5	10.9	10.7	11.5	10.7		
12					10.8	10.7	10.7	10.5	11.6	10.7		
13					10.6	11.1	10.8	10.5	11.5	10.7		
14					10.5	10.7	10.8	10.9	11.5	10.6		
15					10.9	10.6	10.7	11.0	11.6	10.7		
16					11.1	10.4	10.6	11.0	11.6	10.6		
17					11.1	10.3	10.5	10.7	11.6	10.4		
18					11.0	10.3	10.6	10.7	11.5	10.4		
19					11.0	10.6	10.8	10.7	11.4	10.4		
20					10.7	10.9	10.9	10.8	11.5	10.2		
21					10.3	10.8	10.8	11.0	11.6	9.9		
22					9.6	10.7	10.9	11.2	11.7	10.0		
23					10.5	10.5	11.0	11.4	11.6	10.2		
24					11.1	10.3	11.1	11.6	11.4	10.2		
25					11.5	10.4	11.2	11.4	11.4	9.3		
26					11.4	10.6	11.2	11.2	11.5	7.3		
27					10.8	10.7	11.2	11.1	11.6	6.3		
28					10.6	10.5	11.0	11.1	11.5	5.7		
29		—			10.8	10.5	10.7	11.1	11.2	6.2		
30		—			10.7	10.6	10.6	11.1	11.1	6.9		
31		—		—	10.8	—	10.8	11.1	—	7.1	—	
MEAN					10.6	10.6	10.8	10.9	11.4	9.7		
MAX					11.5	11.1	11.2	11.6	11.7	11.1		
MIN					9.6	10.3	10.5	10.4	11.1	5.7		

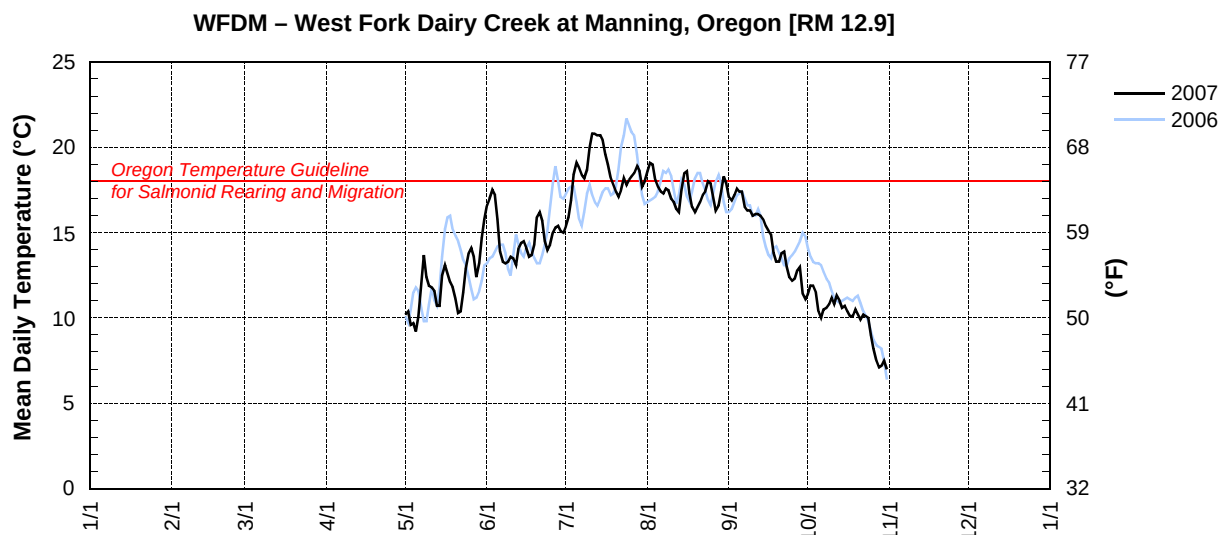


WFD - WEST FORK DAIRY CREEK AT MANNING, OREGON [RM 12.9]

Latitude: 45 39 36 Longitude 123 09 18

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					10.2	16.6	15.4	18.6	17.1	11.4		
2					10.4	17.0	15.9	19.1	16.9	11.9		
3					9.6	17.5	16.9	19.0	17.2	11.9		
4					9.7	17.2	18.4	18.1	17.6	11.5		
5					9.2	15.8	19.1	17.7	17.4	10.4		
6					10.1	13.9	18.8	17.4	17.4	10.0		
7					12.0	13.3	18.4	17.3	16.5	10.5		
8					13.7	13.2	18.2	17.6	16.3	10.6		
9					12.4	13.3	18.7	17.5	16.3	10.8		
10					11.9	13.6	20.0	17.0	16.0	11.2		
11					11.8	13.5	20.8	16.8	16.1	10.8		
12					11.6	13.1	20.8	16.4	16.1	11.3		
13					10.7	14.1	20.7	16.2	16.0	11.0		
14					10.7	14.4	20.7	17.5	15.8	10.6		
15					12.5	14.5	20.4	18.5	15.4	10.7		
16					13.1	14.1	19.6	18.6	15.1	10.4		
17					12.6	13.6	19.0	17.3	14.9	10.1		
18					12.1	13.7	18.2	16.5	13.8	10.1		
19					11.8	14.3	17.8	16.2	13.3	10.5		
20					11.1	15.9	17.4	16.5	13.3	10.2		
21					10.3	16.2	17.1	16.8	13.8	9.9		
22					10.4	15.7	17.5	17.2	13.9	10.2		
23					11.5	14.5	18.2	17.4	13.0	10.1		
24					12.9	14.0	17.8	18.0	12.4	10.0		
25					13.8	14.3	18.1	17.9	12.2	9.0		
26					14.1	15.0	18.3	17.1	12.3	8.2		
27					13.6	15.3	18.5	16.3	12.8	7.5		
28					12.4	15.4	18.9	16.6	13.0	7.1		
29		—			13.2	15.1	18.6	17.4	11.4	7.2		
30		—			14.7	15.0	17.7	18.3	11.1	7.5		
31		—		—	15.8	—	18.0	17.9	—	7.0	—	
MEAN					11.9	14.8	18.5	17.4	14.8	10.0		
MAX					15.8	17.5	20.8	19.1	17.6	11.9		
MIN					9.2	13.1	15.4	16.2	11.1	7.0		

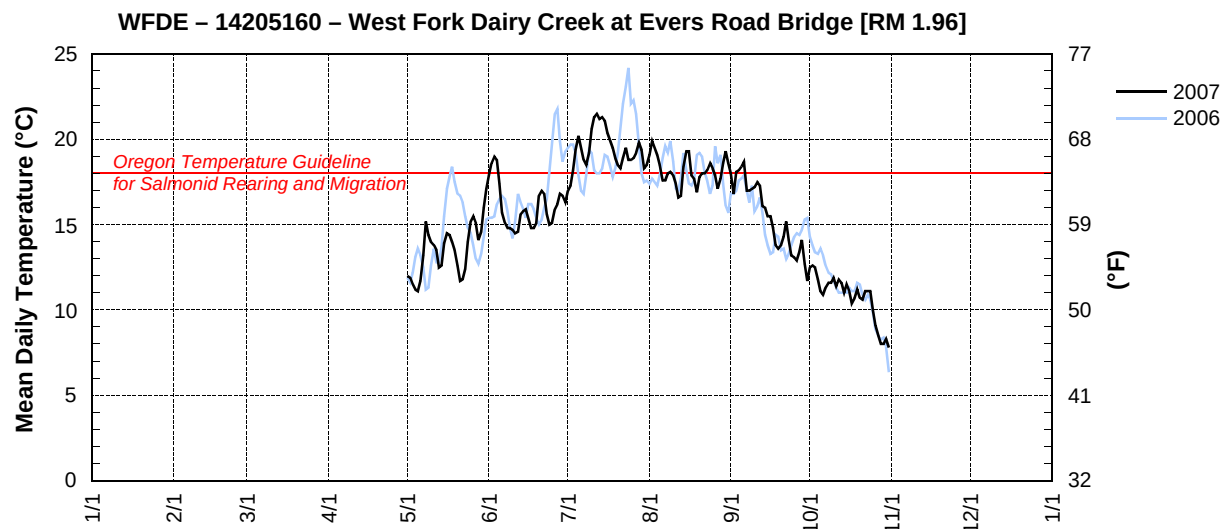


WFDE – 14205160 – WEST FORK DAIRY CREEK AT EVERS ROAD BRIDGE [RM 1.96]

Latitude: 45 34 34 Longitude: 123 05 34

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					12.0	17.9	17.0	19.1	18.0	12.5		
2					11.9	18.6	17.3	19.9	16.8	12.6		
3					11.5	19.0	18.2	19.5	18.1	12.5		
4					11.2	18.8	19.4	19.1	18.2	11.8		
5					11.1	17.4	20.2	18.5	18.4	11.1		
6					11.7	15.7	19.5	17.6	18.7	10.9		
7					13.2	15.1	18.8	17.6	17.0	11.3		
8					15.2	14.8	18.5	18.0	17.0	11.6		
9					14.4	14.8	19.2	18.1	17.1	11.6		
10					14.0	14.7	20.6	17.9	17.2	11.9		
11					13.8	14.5	21.3	17.4	17.5	11.4		
12					13.5	14.6	21.5	16.6	17.3	11.8		
13					12.5	15.6	21.2	16.7	16.1	11.6		
14					12.6	15.8	21.3	18.4	16.0	11.0		
15					13.9	15.9	21.1	19.3	15.5	11.5		
16					14.5	15.4	20.4	19.3	15.5	11.1		
17					14.4	14.8	20.0	17.9	14.8	10.4		
18					14.0	14.8	19.5	17.7	13.8	10.7		
19					13.5	15.1	18.9	16.9	13.6	11.2		
20					12.6	16.7	18.5	17.8	13.8	10.7		
21					11.7	17.0	18.3	18.0	14.3	10.6		
22					11.8	16.8	18.9	18.0	15.2	11.1		
23					12.4	15.6	19.5	18.2	14.1	11.1		
24					14.0	15.0	18.8	18.6	13.2	11.1		
25					15.2	15.1	18.8	18.3	13.1	10.0		
26					15.5	15.9	18.9	17.9	12.9	9.1		
27					15.1	16.2	19.2	17.1	13.4	8.5		
28					14.1	16.8	19.8	17.7	14.1	8.0		
29		—			14.6	16.7	19.4	18.6	12.7	8.0		
30		—			16.0	16.3	18.3	19.3	11.7	8.3		
31		—		—	17.1	—	18.5	18.6	—	7.8	—	
MEAN					13.5	16.0	19.4	18.2	15.5	10.7		
MAX					17.1	19.0	21.5	19.9	18.7	12.6		
MIN					11.1	14.5	17.0	16.6	11.7	7.8		

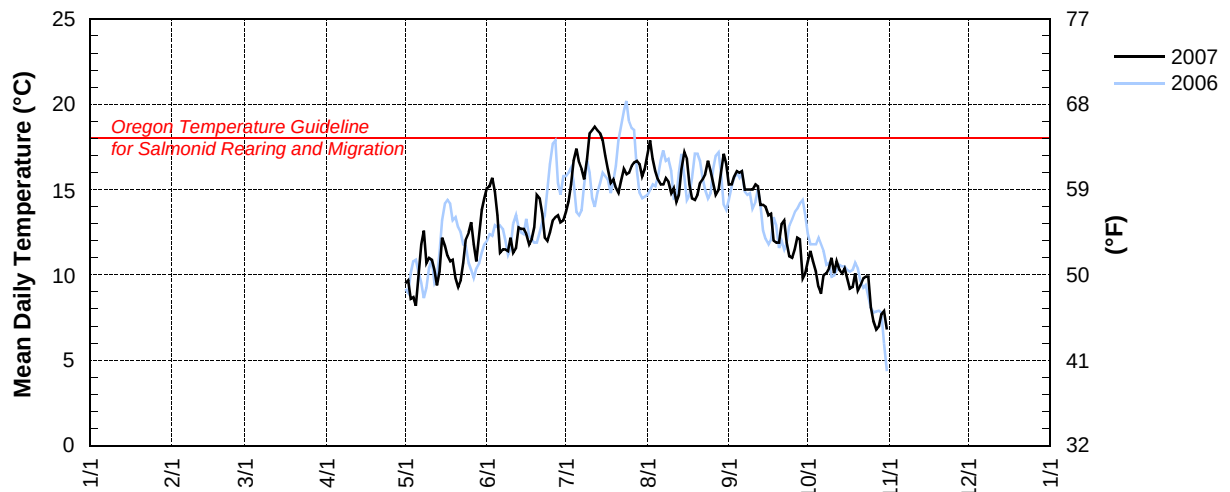


EFDD – 14205480 – EAST FORK DAIRY CREEK AT DAIRY CREEK ROAD NEAR MOUNTAINDALE, OR [RM 12.33]

Latitude: 45 40 32 Longitude: 123 03 54

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					9.5	15.1	13.7	17.1	15.3	10.8		
2					9.7	15.2	14.3	17.9	15.3	11.4		
3					8.6	15.7	15.3	16.8	15.8	10.8		
4					8.7	14.9	16.7	16.1	16.1	10.2		
5					8.2	13.5	17.4	15.6	16.0	9.3		
6					9.9	11.3	16.6	15.3	16.1	8.9		
7					11.8	11.5	16.2	15.3	15.0	10.0		
8					12.6	11.5	15.6	15.7	15.0	10.1		
9					10.7	11.4	16.8	15.5	15.0	10.4		
10					11.0	12.2	18.3	14.8	15.0	11.0		
11					10.9	11.3	18.5	15.1	15.3	10.1		
12					10.3	11.6	18.7	14.3	15.2	10.8		
13					9.4	12.8	18.5	14.7	14.1	10.3		
14					10.2	12.7	18.3	16.2	14.1	10.1		
15					12.2	12.7	17.9	17.2	14.0	10.4		
16					11.7	12.4	17.0	16.8	13.5	9.8		
17					11.1	11.8	16.2	15.3	13.6	9.2		
18					10.8	12.1	15.4	14.5	12.0	9.3		
19					10.9	12.8	15.6	14.4	11.9	10.1		
20					9.8	14.7	15.1	14.7	11.9	9.1		
21					9.3	14.5	14.8	15.4	13.0	9.4		
22					9.7	13.6	15.5	15.6	13.2	9.8		
23					10.7	12.2	16.2	15.9	11.9	9.9		
24					12.1	12.0	15.9	16.7	11.1	9.9		
25					12.5	12.5	16.0	16.1	11.0	8.1		
26					13.1	13.2	16.4	15.4	11.5	7.3		
27					11.8	13.4	16.6	14.7	12.2	6.8		
28					10.8	13.5	16.7	15.0	12.1	7.0		
29		—			12.3	13.1	16.5	16.0	9.8	7.7		
30		—			13.8	13.2	15.8	17.1	10.1	7.9		
31		—		—	14.5	—	16.2	16.5	—	6.8	—	
MEAN					10.9	12.9	16.4	15.7	13.5	9.4		
MAX					14.5	15.7	18.7	17.9	16.1	11.4		
MIN					8.2	11.3	13.7	14.3	9.8	6.8		

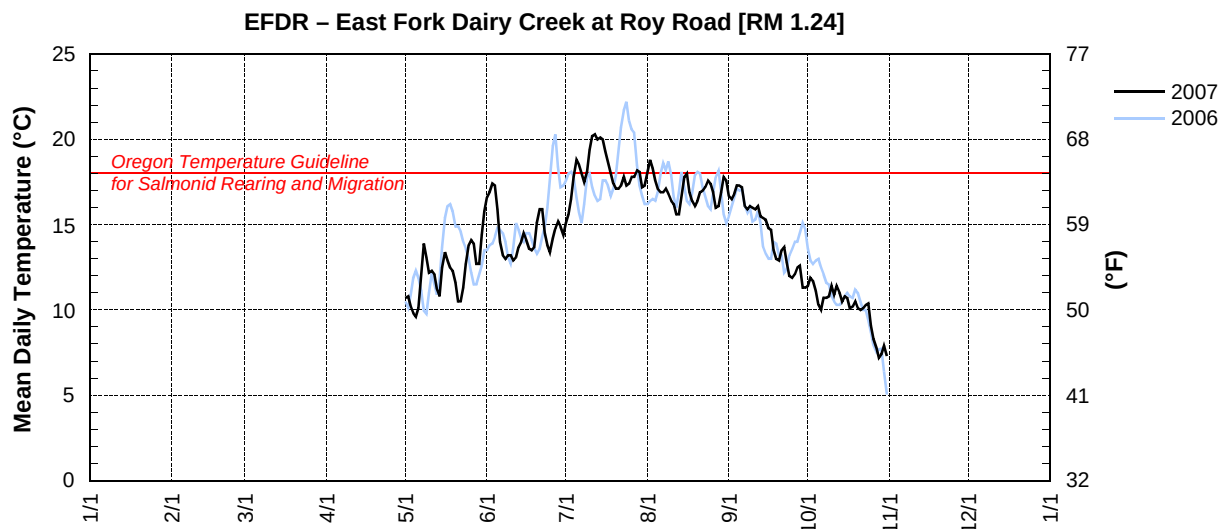
EFDD – 14205480 – East Fork Dairy Creek at Dairy Creek Road near Mountaindale, Oregon [RM 12.33]


EFDR – EAST FORK DAIRY CREEK AT ROY ROAD [RM 1.24]

Latitude: 45 34 43 Longitude: 123 04 14

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					10.7	16.6	15.1	18.1	16.7	11.4		
2					10.8	16.9	15.6	18.8	16.5	11.9		
3					10.2	17.4	16.5	18.3	16.8	11.7		
4					9.8	17.3	17.8	17.6	17.3	11.1		
5					9.6	15.9	18.8	17.1	17.3	10.3		
6					10.1	14.0	18.5	16.9	17.2	10.0		
7					12.0	13.2	18.0	16.9	16.1	10.7		
8					13.9	13.0	17.5	17.1	15.9	10.7		
9					13.1	13.2	18.1	16.8	16.1	10.8		
10					12.2	13.2	19.4	16.4	16.0	11.4		
11					12.3	12.9	20.2	16.2	15.9	10.9		
12					12.1	13.1	20.3	15.6	16.1	11.4		
13					11.2	13.7	20.0	15.6	15.5	11.0		
14					10.8	14.0	20.1	16.7	15.4	10.5		
15					12.5	14.5	20.0	17.8	15.3	10.8		
16					13.4	14.1	19.3	18.0	14.8	10.7		
17					12.9	13.6	18.7	16.9	14.7	10.1		
18					12.5	13.5	18.0	16.4	13.5	10.2		
19					12.3	13.7	17.4	16.1	13.0	10.5		
20					11.6	15.1	17.1	16.4	12.9	10.1		
21					10.5	15.9	17.1	16.9	13.5	10.0		
22					10.5	15.9	17.3	17.0	13.7	10.1		
23					11.3	14.5	17.8	17.2	12.8	10.3		
24					12.7	13.8	17.3	17.6	12.0	10.4		
25					13.8	13.4	17.4	17.4	11.9	9.1		
26					14.1	14.2	17.8	16.9	12.1	8.3		
27					13.9	14.8	17.8	16.0	12.5	7.8		
28					12.7	15.2	18.2	16.1	12.6	7.2		
29		—			12.7	14.9	18.1	16.9	11.3	7.4		
30		—			14.4	14.4	17.2	17.8	11.3	7.9		
31		—		—	15.8	—	17.3	17.6	—	7.3	—	
MEAN					12.1	14.5	18.1	17.0	14.6	10.1		
MAX					15.8	17.4	20.3	18.8	17.3	11.9		
MIN					9.6	12.9	15.1	15.6	11.3	7.2		

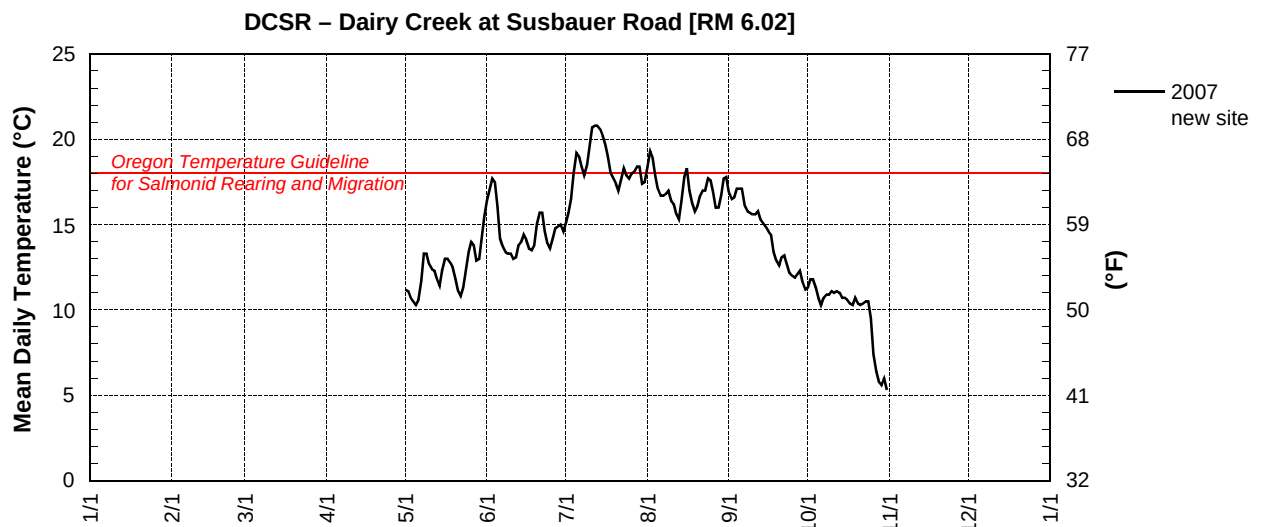


DCSR – DAIRY CREEK AT SUSBAUER ROAD [RM 6.02]

Latitude: 45 32 23 Longitude: 123 02 30

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					11.2	16.4	15.1	18.4	16.9	11.3		
2					11.1	17.0	15.7	19.3	16.5	11.8		
3					10.7	17.7	16.5	18.9	16.6	11.8		
4					10.5	17.5	18.0	17.9	17.1	11.3		
5					10.3	16.1	19.2	17.1	17.1	10.7		
6					10.6	14.2	19.0	16.7	17.1	10.3		
7					11.7	13.7	18.4	16.7	16.1	10.7		
8					13.3	13.4	17.9	16.8	15.8	10.9		
9					13.3	13.3	18.5	17.0	15.7	10.9		
10					12.7	13.3	19.6	16.4	15.6	11.1		
11					12.4	13.0	20.7	16.2	15.6	11.0		
12					12.3	13.1	20.8	15.6	15.8	11.1		
13					11.8	13.8	20.8	15.3	15.3	11.0		
14					11.4	14.0	20.6	16.4	15.1	10.7		
15					12.3	14.4	20.2	17.8	14.9	10.7		
16					13.0	14.1	19.7	18.3	14.6	10.6		
17					13.0	13.6	19.0	17.0	14.4	10.4		
18					12.8	13.5	18.0	16.3	13.4	10.3		
19					12.5	13.8	17.7	15.8	12.9	10.7		
20					11.8	15.0	17.4	16.1	12.6	10.4		
21					11.1	15.7	17.0	16.7	13.1	10.3		
22					10.8	15.7	17.6	17.0	13.2	10.4		
23					11.3	14.6	18.3	17.0	12.7	10.5		
24					12.3	13.9	17.9	17.7	12.2	10.5		
25					13.4	13.6	17.7	17.6	12.0	9.5		
26					14.0	14.2	18.0	16.9	11.9	7.4		
27					13.8	14.8	18.1	16.0	12.1	6.4		
28					12.9	14.9	18.4	16.0	12.3	5.8		
29		—			13.0	15.0	18.4	16.7	11.6	5.6		
30		—			14.2	14.6	17.4	17.7	11.2	6.0		
31		—		—	15.5	—	17.5	17.8	—	5.3	—	
MEAN					12.3	14.6	18.4	17.0	14.4	9.9		
MAX					15.5	17.7	20.8	19.3	17.1	11.8		
MIN					10.3	13.0	15.1	15.3	11.2	5.3		



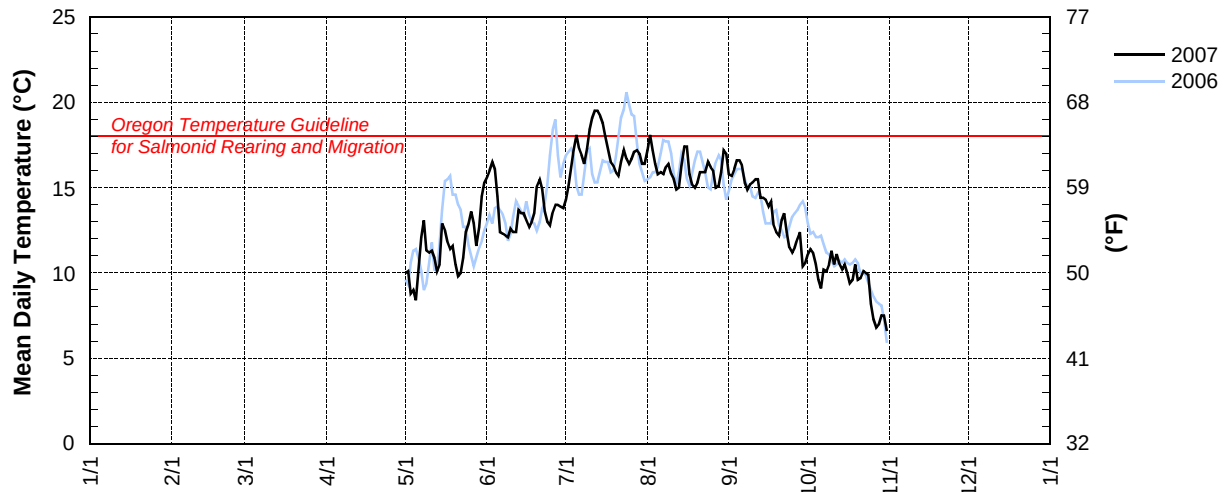
MCKN – 14205980 – MCKAY CREEK AT NORTHRUP ROAD NEAR NORTH PLAINS, OREGON [RM 15.5]

Latitude: 45 38 36 Longitude: 122 59 32

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					10.0	15.6	14.3	17.2	15.8	11.1		
2					10.1	16.0	15.1	18.1	15.7	11.4		
3					8.8	16.5	16.1	17.2	16.1	11.2		
4					9.0	16.1	17.2	16.4	16.6	10.5		
5					8.4	14.5	18.1	15.8	16.6	9.6		
6					10.0	12.4	17.3	15.9	16.3	9.1		
7					12.1	12.3	16.9	15.8	15.3	10.2		
8					13.1	12.2	16.4	16.2	14.9	10.1		
9					11.3	12.1	17.3	16.4	15.2	10.5		
10					11.2	12.6	18.4	15.8	15.3	11.3		
11					11.3	12.4	19.1	15.5	15.5	10.5		
12					10.9	12.4	19.5	14.9	15.5	11.1		
13					10.1	13.7	19.5	15.0	14.4	10.5		
14					10.5	13.5	19.2	16.3	14.4	10.2		
15					12.9	13.5	18.8	17.4	14.3	10.5		
16					12.5	13.1	18.0	17.4	13.9	10.0		
17					11.8	12.7	17.3	15.8	14.2	9.4		
18					11.4	13.0	16.5	15.2	12.8	9.6		
19					11.6	13.5	16.3	15.0	12.4	10.5		
20					10.5	15.1	15.9	15.3	12.2	9.6		
21					9.8	15.5	15.7	15.9	13.1	9.7		
22					10.0	14.9	16.5	15.9	13.5	10.1		
23					10.9	13.6	17.2	15.9	12.4	10.0		
24					12.4	13.0	16.7	16.5	11.5	9.9		
25					12.9	12.8	16.4	16.2	11.2	8.2		
26					13.6	13.6	16.7	16.0	11.5	7.3		
27					12.9	14.0	17.1	15.0	12.0	6.8		
28					11.6	14.0	17.2	15.1	12.4	7.0		
29		—			12.7	13.9	17.0	15.9	10.4	7.5		
30		—			14.5	13.8	16.4	17.2	10.6	7.5		
31		—		—	15.3	—	16.4	17.0	—	6.6	—	
MEAN					11.4	13.7	17.1	16.1	13.9	9.6		
MAX					15.3	16.5	19.5	18.1	16.6	11.4		
MIN					8.4	12.1	14.3	14.9	10.4	6.6		

MCKN – 14205980 – McKay Creek at Northrup Road near North Plains, Oregon [RM 15.5]

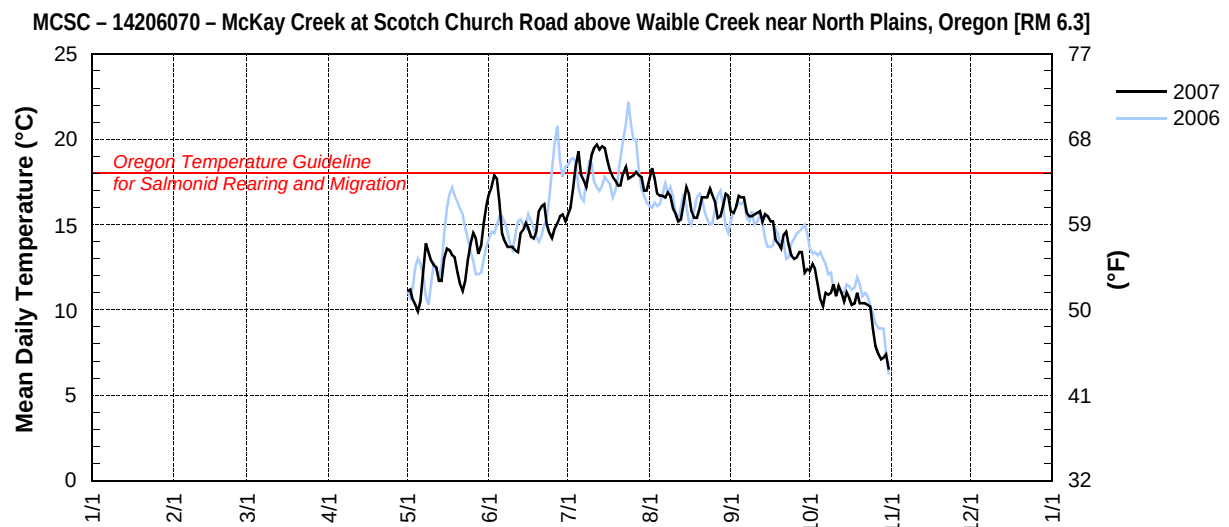


MCSC – 14206070 – MCKAY CREEK AT SCOTCH CHURCH ROAD ABOVE WAIBLE CREEK NEAR NORTH PLAINS, OREGON [RM 6.3]

Latitude: 45 57 21 Longitude: 122 99 18

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					11.1	16.8	15.6	17.7	15.8	12.3		
2					11.2	17.2	16.0	18.3	15.7	12.7		
3					10.6	17.9	17.1	17.7	16.1	12.4		
4					10.3	17.7	18.4	16.8	16.7	11.4		
5					9.9	16.3	19.3	16.7	16.6	10.6		
6					10.5	14.5	17.9	16.7	16.6	10.2		
7					12.2	14.0	17.6	16.6	15.7	11.0		
8					13.9	13.7	17.2	16.9	15.5	10.9		
9					13.4	13.7	18.1	16.7	15.5	11.0		
10					12.9	13.7	19.1	15.9	15.6	11.5		
11					12.6	13.5	19.5	15.6	15.7	10.8		
12					12.5	13.4	19.7	15.2	15.8	11.4		
13					11.7	14.5	19.4	15.3	15.2	11.0		
14					11.7	14.7	19.6	16.2	15.6	10.5		
15					13.0	15.1	19.5	17.2	15.5	11.0		
16					13.6	14.8	18.8	16.8	15.2	10.7		
17					13.5	14.3	18.2	15.8	15.2	10.3		
18					13.2	14.2	17.8	15.4	14.1	10.4		
19					13.1	14.6	17.6	15.4	13.9	11.0		
20					12.2	15.8	17.3	15.9	13.6	10.4		
21					11.5	16.1	17.3	16.6	14.4	10.4		
22					11.1	16.2	18.0	16.6	14.6	10.4		
23					11.7	15.0	18.4	16.6	13.8	10.3		
24					12.9	14.5	17.7	17.1	13.2	10.2		
25					13.9	14.2	17.8	16.7	13.0	8.9		
26					14.5	14.8	17.9	16.3	13.1	7.9		
27					14.2	15.1	18.1	15.4	13.4	7.4		
28					13.3	15.5	17.9	15.5	13.4	7.1		
29		—			13.8	15.6	17.8	16.1	12.2	7.2		
30		—			15.1	15.2	17.0	16.8	12.4	7.4		
31		—		—	16.1	—	17.0	16.7	—	6.5	—	
MEAN					12.6	15.1	18.0	16.4	14.8	10.2		
MAX					16.1	17.9	19.7	18.3	16.7	12.7		
MIN					9.9	13.4	15.6	15.2	12.2	6.5		



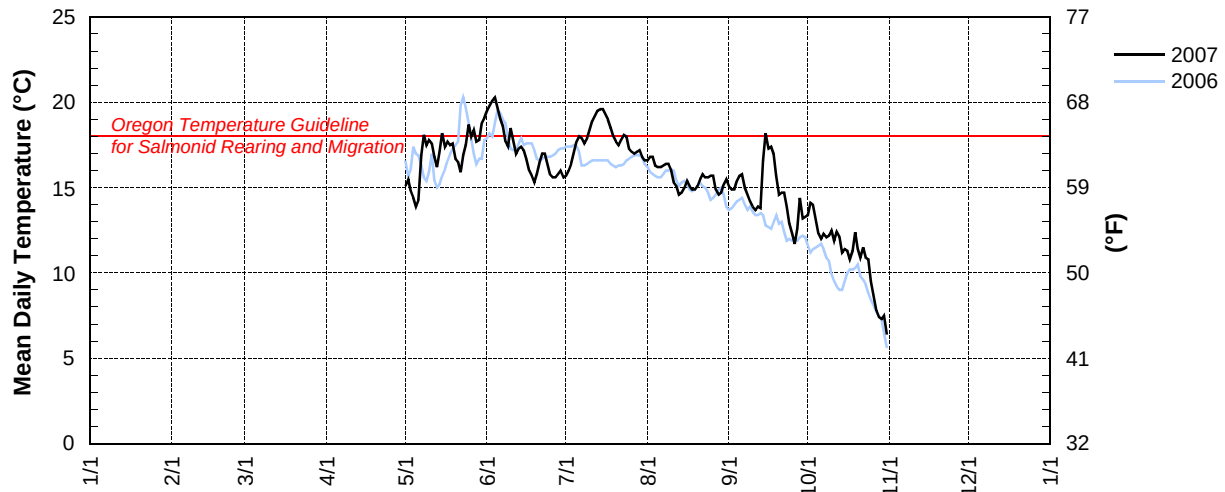
WCJS – 14206100 – WAIBLE CREEK AT JACKSON SCHOOL ROAD NEAR HILLSBORO, OREGON [RM 1.0]

Latitude: 45 33 55 Longitude: 122 58 12

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					15.1	19.5	15.7	16.6	15.1	13.4		
2					15.5	19.8	16.0	16.8	14.9	14.1		
3					14.8	20.1	16.4	16.8	14.9	14.0		
4					14.4	20.3	17.0	16.3	15.4	13.1		
5					13.9	19.7	17.7	16.2	15.7	12.3		
6					14.3	19.1	18.0	16.2	15.8	12.0		
7					16.9	18.6	17.9	16.3	15.0	12.3		
8					18.1	17.7	17.6	16.4	14.6	12.1		
9					17.5	17.4	17.9	16.4	14.2	12.2		
10					17.8	18.5	18.4	16.0	13.9	12.5		
11					17.6	17.8	18.9	15.3	13.7	11.9		
12					16.8	17.0	19.2	15.1	13.9	12.4		
13					16.2	17.3	19.5	14.6	13.8	12.1		
14					17.1	17.4	19.6	14.7	16.6	11.2		
15					18.2	17.2	19.6	15.0	18.2	11.4		
16					17.4	16.7	19.3	15.4	17.3	11.3		
17					17.7	16.0	19.0	15.1	17.4	10.8		
18					17.5	15.7	18.5	14.9	17.0	11.3		
19					17.6	15.3	18.0	14.9	15.7	12.4		
20					16.7	15.8	17.7	15.1	14.6	11.4		
21					16.5	16.5	17.5	15.5	14.7	10.9		
22					15.9	17.0	17.8	15.8	14.7	11.5		
23					16.9	17.0	18.1	15.6	13.9	10.9		
24					17.5	16.4	18.0	15.6	12.9	10.8		
25					18.7	15.8	17.3	15.7	12.3	9.5		
26					18.0	15.6	17.1	15.7	11.7	8.7		
27					18.4	15.6	17.0	14.9	12.6	7.8		
28					17.7	15.8	17.1	14.6	14.4	7.4		
29		—			17.8	16.0	17.2	14.7	13.2	7.3		
30		—			18.8	15.6	16.8	15.2	13.3	7.5		
31		—		—	19.1	—	16.6	15.5	—	6.4	—	
MEAN					17.0	17.3	17.8	15.6	14.7	11.1		
MAX					19.1	20.3	19.6	16.8	18.2	14.1		
MIN					13.9	15.3	15.7	14.6	11.7	6.4		

WCJS – 14206100 – Waible Creek at Jackson School Road near Hillsboro, Oregon [RM 1.0]

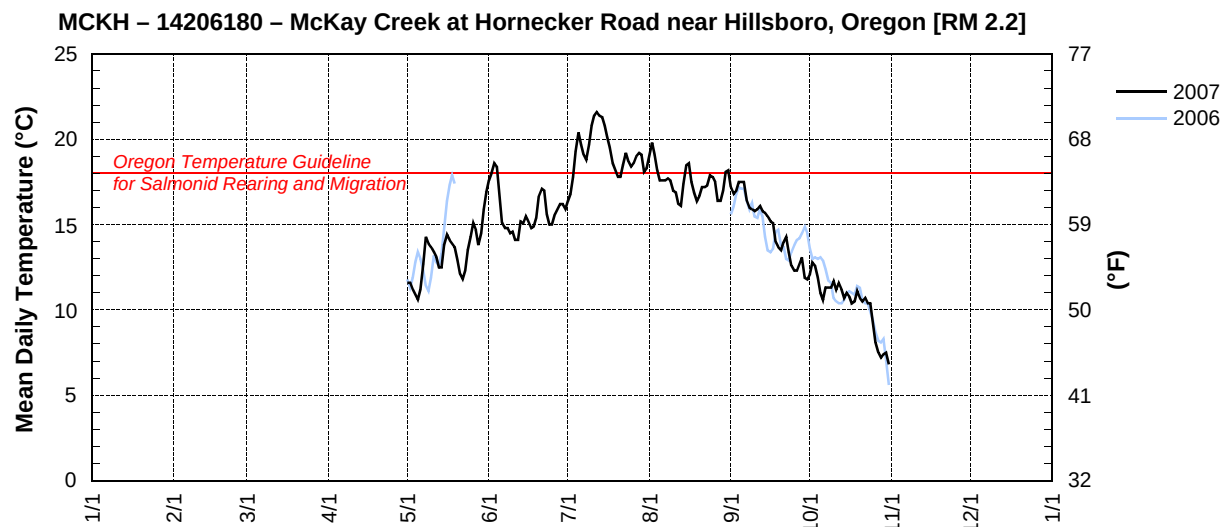


MCKH – 14206180 – MCKAY CREEK AT HORNECKER ROAD NEAR HILLSBORO, OREGON [RM 2.2]

Latitude: 45 32 33 Longitude: 123 00 14

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					11.6	17.6	16.4	19.1	17.2	12.1		
2					11.6	18.0	16.8	19.8	16.8	12.8		
3					11.2	18.6	17.8	19.1	17.0	12.6		
4					10.9	18.4	19.3	18.2	17.5	11.9		
5					10.6	16.9	20.4	17.6	17.5	11.0		
6					11.2	15.1	19.7	17.6	17.5	10.6		
7					12.7	14.8	19.1	17.6	16.4	11.3		
8					14.3	14.8	18.8	17.7	16.0	11.3		
9					13.9	14.5	19.7	17.6	15.9	11.3		
10					13.7	14.6	20.8	17.0	15.8	11.7		
11					13.4	14.1	21.4	16.9	15.9	11.2		
12					13.1	14.1	21.6	16.2	16.1	11.6		
13					12.5	15.2	21.4	16.1	15.8	11.2		
14					12.5	15.1	21.3	17.4	15.7	10.7		
15					13.8	15.5	20.8	18.5	15.5	11.0		
16					14.4	15.2	20.1	18.6	15.2	10.8		
17					14.1	14.8	19.5	17.5	15.1	10.4		
18					13.9	14.9	18.6	16.9	14.0	10.5		
19					13.7	15.4	18.2	16.4	13.7	11.1		
20					12.9	16.7	17.8	16.7	13.5	10.7		
21					12.1	17.1	17.8	17.2	14.0	10.5		
22					11.8	17.0	18.5	17.2	14.3	10.7		
23					12.3	15.6	19.2	17.3	13.4	10.4		
24					13.5	15.0	18.7	17.9	12.6	10.4		
25					14.3	15.0	18.4	17.8	12.3	9.2		
26					15.1	15.6	18.6	17.5	12.3	8.1		
27					14.7	15.9	19.0	16.4	12.7	7.5		
28					13.8	16.2	19.2	16.4	13.1	7.2		
29		—			14.5	16.2	19.1	17.0	11.9	7.4		
30		—			15.9	15.9	18.1	18.1	11.8	7.5		
31		—		—	16.9	—	18.3	18.2	—	6.8	—	
MEAN					13.3	15.8	19.2	17.5	14.9	10.4		
MAX					16.9	18.6	21.6	19.8	17.5	12.8		
MIN					10.6	14.1	16.4	16.1	11.8	6.8		

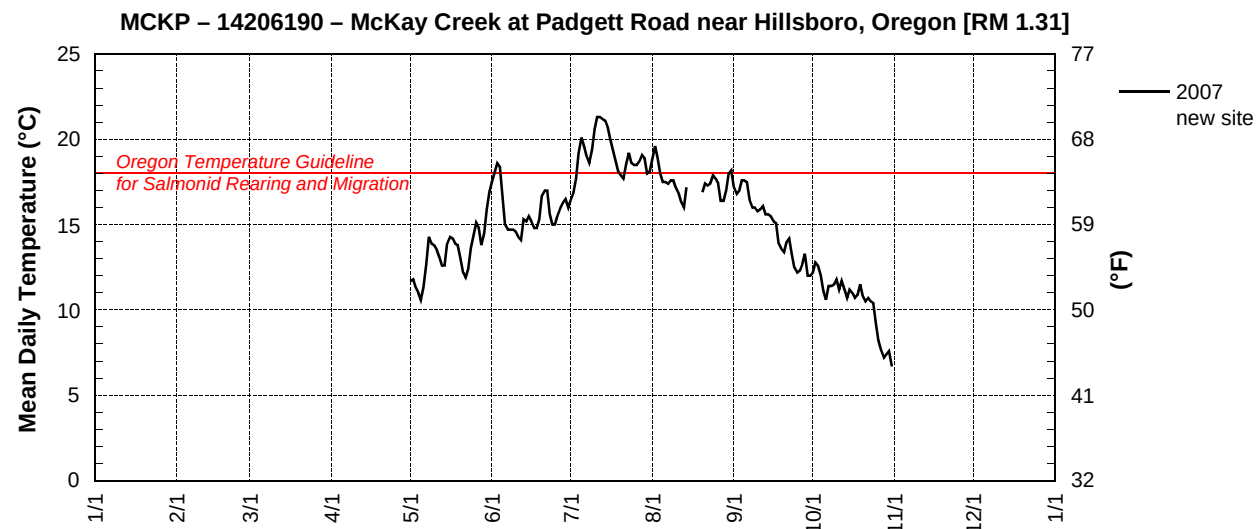


MCKP – 14206190 – MCKAY CREEK AT PADGETT ROAD NEAR HILLSBORO, OREGON [RM 1.31]

Latitude: 45 31 57 Longitude: 123 00 16

Source Agency: District 18 Watermaster

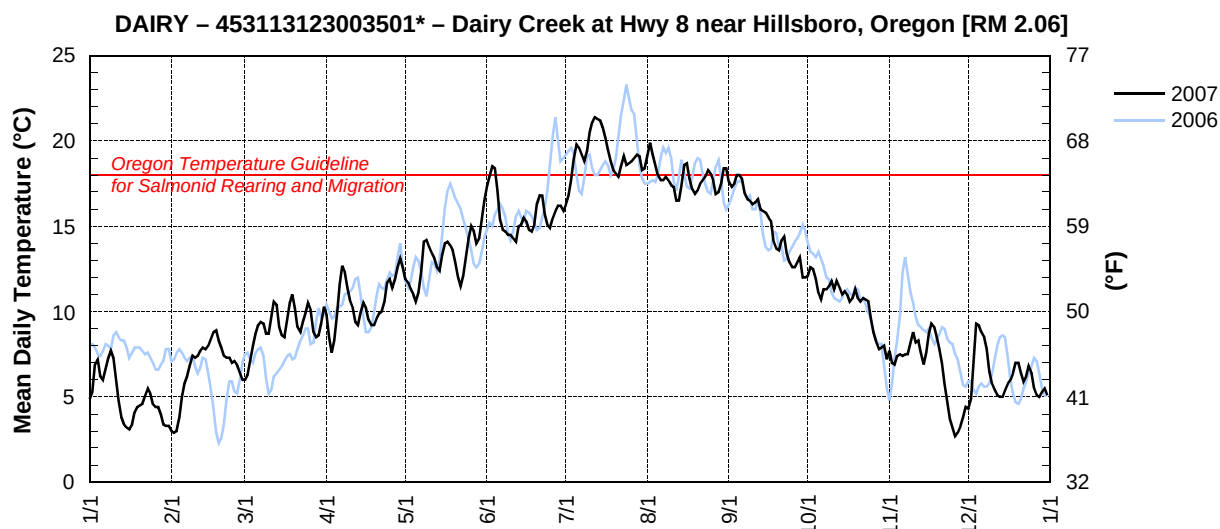
Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					11.7	17.5	16.5	18.9	17.2	12.2		
2					11.8	18.0	16.9	19.6	16.8	12.8		
3					11.3	18.6	17.7	18.9	17.0	12.6		
4					11.0	18.4	19.2	18.0	17.6	12.0		
5					10.6	16.8	20.1	17.5	17.6	11.1		
6					11.3	15.0	19.6	17.5	17.5	10.6		
7					12.7	14.7	19.0	17.4	16.4	11.4		
8					14.3	14.7	18.6	17.6	16.0	11.4		
9					13.9	14.7	19.4	17.6	16.0	11.5		
10					13.8	14.6	20.6	17.1	15.8	11.8		
11					13.5	14.3	21.3	16.8	15.9	11.2		
12					13.1	14.1	21.3	16.3	16.1	11.7		
13					12.6	15.3	21.2	16.0	15.6	11.2		
14					12.6	15.2	21.1	17.2	15.6	10.7		
15					13.9	15.5	20.7		15.5	11.2		
16					14.3	15.2	20.0		15.2	11.0		
17					14.2	14.8	19.4		15.1	10.7		
18					13.9	14.8	18.7		13.9	10.9		
19					13.8	15.3	18.1		13.6	11.5		
20					13.0	16.7	17.9	16.9	13.4	10.8		
21					12.2	17.0	17.7	17.4	14.0	10.5		
22					11.9	17.0	18.5	17.3	14.2	10.7		
23					12.4	15.6	19.2	17.4	13.3	10.5		
24					13.6	15.0	18.6	17.9	12.5	10.4		
25					14.4	15.0	18.5	17.7	12.2	9.2		
26					15.1	15.6	18.5	17.4	12.3	8.2		
27					14.8	16.0	18.7	16.4	12.7	7.6		
28					13.8	16.3	19.1	16.4	13.3	7.2		
29		—			14.5	16.5	18.9	17.0	12.0	7.4		
30		—			15.9	16.0	18.0	18.0	12.0	7.6		
31		—		—	16.9	—	18.1	18.2	—	6.7	—	
MEAN					13.3	15.8	19.1	17.5	14.9	10.5		
MAX					16.9	18.6	21.3	19.6	17.6	12.8		
MIN					10.6	14.1	16.5	16.0	12.0	6.7		



STATION NUMBER 453113123003501* DAIRY CREEK AT HWY 8, HILLSBORO, OR

LATITUDE: 453113.40 LONGITUDE: 1230035.31

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	4.9	3.0	6.0	9.8	11.9	17.3	16.3	19.2	17.6	12.1	7.7	4.3
2	5.3	2.9	6.3	8.6	11.7	17.9	16.8	19.9	17.3	12.6	7.0	4.8
3	6.9	3.0	7.1	7.6	11.3	18.5	17.6	19.2	17.5	12.5	6.9	7.1
4	7.2	3.8	8.0	8.3	11.0	18.4	18.9	18.6	18.0	11.9	7.4	9.3
5	6.2	5.0	8.6	9.9	10.6	17.1	19.8	18.0	18.0	11.1	7.5	9.2
6	6.0	5.8	9.2	11.5	11.1	15.4	19.6	17.7	17.9	10.7	7.4	8.9
7	6.6	6.2	9.4	12.7	12.4	14.8	19.2	17.7	16.9	11.3	7.5	8.5
8	7.3	6.7	9.3	12.3	14.1	14.6	18.8	17.9	16.6	11.4	7.5	7.8
9	7.7	7.3	8.8	11.3	14.2	14.5	19.3	17.7	16.5	11.5	8.2	6.6
10	7.3	7.3	8.7	10.6	13.8	14.5	20.4	17.5	16.3	11.8	8.8	5.8
11	6.1	7.4	9.5	10.3	13.4	14.3	21.1	17.3	16.4	11.3	8.2	5.4
12	4.9	7.7	10.6	9.4	13.2	14.1	21.4	16.6	16.7	11.8	8.3	5.1
13	3.8	7.9	10.5	9.2	12.6	15.0	21.3	16.5	16.0	11.4	7.7	5.0
14	3.4	7.8	9.1	10.0	12.4	15.1	21.2	17.4	15.9	11.0	6.9	5.0
15	3.2	8.0	8.7	10.5	13.3	15.5	20.8	18.6	15.8	11.2	7.6	5.4
16	3.1	8.4	8.5	10.2	14.0	15.3	20.2	18.8	15.5	11.0	8.7	5.8
17	3.4	8.8	9.5	9.5	14.1	14.8	19.6	17.7	15.3	10.6	9.3	6.0
18	4.1	8.9	10.5	9.2	13.9	14.7	18.8	17.2	14.2	10.8	9.1	6.4
19	4.4	8.3	11.0	9.2	13.6	15.1	18.3	16.9	13.7	11.3	8.5	7.0
20	4.5	7.9	10.2	9.6	12.8	16.3	18.2	17.1	13.6	10.9	7.9	7.0
21	4.6	7.5	9.1	9.9	12.0	16.8	17.9	17.5	14.2	10.6	7.0	6.4
22	5.1	7.3	8.8	10.0	11.5	16.8	18.5	17.7	14.4	10.8	5.8	5.9
23	5.5	7.3	9.4	10.6	12.1	15.7	19.1	17.9	13.4	10.7	4.7	6.2
24	5.2	7.0	9.9	11.7	13.2	15.1	18.7	18.3	12.8	10.7	3.7	6.8
25	4.6	7.1	10.5	11.9	14.3	14.9	18.7	18.1	12.6	9.7	3.2	6.4
26	4.4	6.9	10.1	11.4	15.0	15.5	18.8	17.8	12.6	8.8	2.7	5.5
27	4.4	6.4	8.8	11.9	14.8	15.9	19.0	16.9	12.9	8.2	2.9	5.1
28	4.0	6.0	8.5	12.6	14.0	16.2	19.2	17.0	13.2	7.8	3.3	5.0
29	3.4	—	8.6	13.1	14.3	16.2	19.1	17.5	12.0	7.8	3.8	5.3
30	3.3	—	9.3	12.6	15.4	15.9	18.3	18.4	12.0	8.0	4.3	5.5
31	3.3	—	10.3	—	16.5	—	18.4	18.4	—	7.3	—	5.2
MEAN	5.0	6.7	9.1	10.5	13.2	15.7	19.1	17.8	15.2	10.6	6.6	6.2
MAX	7.7	8.9	11.0	13.1	16.5	18.5	21.4	19.9	18.0	12.6	9.3	9.3
MIN	3.1	2.9	6.0	7.6	10.6	14.1	16.3	16.5	12.0	7.3	2.7	4.3

[†]Provisional data—subject to revision

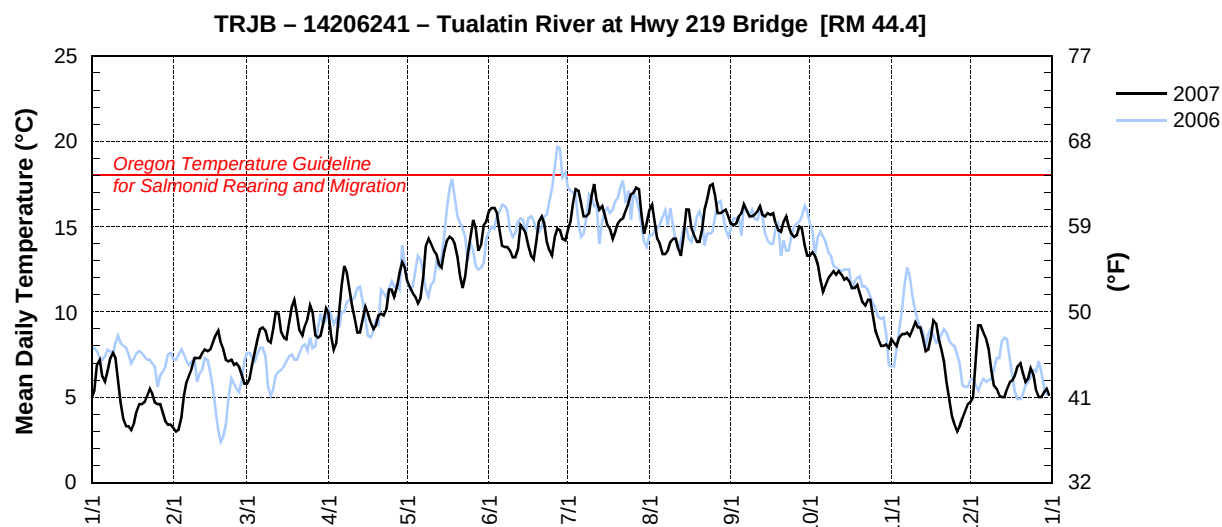
*USGS #453113123003501 is equivalent to OWRD #14206200.

TRJB – 14206241 – TUALATIN RIVER AT HWY 219 BRIDGE [RM 44.4]

Latitude: 45 30 01 Longitude: 122 59 24

Source Agency: Jackson Bottom Wetland Education Center

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	5.0	3.2	5.8	9.9	11.8	15.9	14.8	16.0	15.2	13.3	8.4	4.7
2	5.4	3.0	6.1	8.6	11.4	16.1	15.3	16.3	15.1	13.5	8.2	5.0
3	6.9	3.1	6.9	7.8	11.1	16.1	16.4	15.3	15.2	13.3	8.0	6.9
4	7.2	3.8	7.7	8.2	10.9	15.8	17.2	14.3	15.6	12.8	8.5	9.2
5	6.2	5.1	8.4	10.0	10.5	14.9	17.1	14.0	15.8	11.9	8.7	9.2
6	5.9	5.9	9.0	11.6	10.8	13.9	16.4	13.4	16.3	11.2	8.7	8.8
7	6.5	6.3	9.1	12.7	12.1	13.8	15.6	13.4	15.9	11.6	8.8	8.4
8	7.3	6.7	8.9	12.3	13.9	13.8	15.6	13.6	15.6	12.0	8.6	7.8
9	7.6	7.3	8.3	11.2	14.3	13.6	15.8	14.1	15.6	12.2	9.0	6.6
10	7.3	7.3	8.2	10.3	14.0	13.2	16.8	14.3	15.7	12.4	9.4	5.7
11	6.0	7.3	9.0	9.6	13.6	13.2	17.5	14.3	15.9	12.2	9.1	5.5
12	4.7	7.6	10.0	8.8	13.4	13.7	16.5	13.7	16.2	12.4	9.1	5.1
13	3.7	7.8	9.9	8.8	12.8	15.1	16.0	13.3	15.7	12.2	8.5	5.0
14	3.3	7.7	8.8	9.6	12.6	14.9	16.2	14.4	15.6	11.9	7.7	5.0
15	3.3	7.8	8.5	10.3	13.5	14.6	15.7	16.0	15.8	12.0	7.8	5.5
16	3.1	8.2	8.4	9.9	14.2	13.9	15.1	16.0	15.7	11.8	8.5	5.9
17	3.5	8.6	9.4	9.4	14.4	13.3	14.9	14.9	15.8	11.4	9.5	6.0
18	4.2	8.9	10.3	9.0	14.3	13.1	14.3	14.5	15.2	11.4	9.3	6.3
19	4.6	8.2	10.7	9.2	14.0	14.1	14.7	14.1	14.8	11.6	8.4	6.8
20	4.6	7.8	9.9	9.8	13.2	15.3	15.2	14.1	14.7	11.1	7.8	7.0
21	4.7	7.2	8.9	9.9	12.1	15.6	15.4	14.8	15.3	10.6	7.1	6.4
22	5.1	7.1	8.6	9.8	11.4	15.2	15.5	16.0	15.6	10.4	5.9	5.9
23	5.5	7.2	9.2	10.2	12.1	14.1	16.0	16.6	15.0	10.7	4.8	6.1
24	5.2	6.9	9.6	11.3	13.4	13.6	16.4	17.4	14.6	10.7	3.9	6.7
25	4.7	7.0	10.4	11.3	14.5	13.3	16.9	17.5	14.4	9.8	3.4	6.3
26	4.6	6.8	10.0	10.9	15.4	14.4	17.0	16.8	14.5	8.9	3.0	5.4
27	4.6	6.3	8.6	11.5	14.9	14.9	17.3	15.8	15.0	8.4	3.3	5.0
28	4.1	5.8	8.5	12.3	13.6	14.8	17.2	15.8	14.9	8.0	3.8	5.0
29	3.6	—	8.6	12.9	14.0	14.3	15.7	15.9	13.9	8.0	4.2	5.3
30	3.4	—	9.3	12.6	15.1	14.2	14.6	16.0	13.3	8.1	4.6	5.5
31	3.4	—	10.2	—	15.3	—	15.2	15.6	—	7.9	—	5.1
MEAN	5.0	6.6	8.9	10.3	13.2	14.4	15.9	15.1	15.3	11.1	7.2	6.2
MAX	7.6	8.9	10.7	12.9	15.4	16.1	17.5	17.5	16.3	13.5	9.5	9.2
MIN	3.1	3.0	5.8	7.8	10.5	13.1	14.3	13.3	13.3	7.9	3.0	4.7

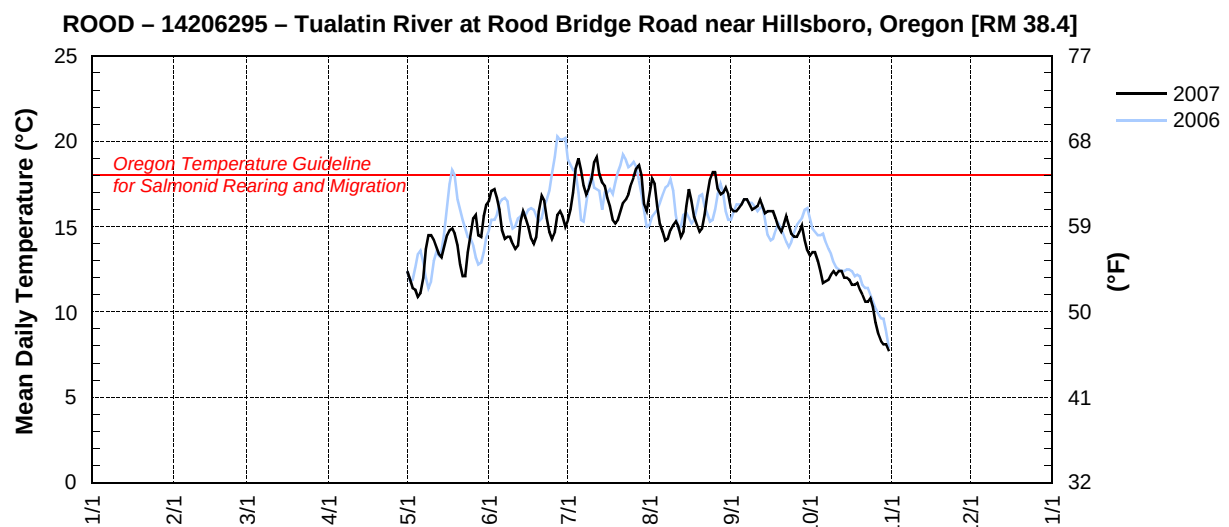


ROOD – 14206295 – TUALATIN RIVER AT ROOD BRIDGE ROAD NEAR HILLSBORO, OREGON [RM 38.4]

Latitude: 45 30 38 Longitude: 123 06 56

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					12.4	16.5	15.4	16.9	16.1	13.3		
2					11.9	17.1	16.0	17.8	15.9	13.5		
3					11.4	17.2	17.0	17.5	15.9	13.5		
4					11.3	16.7	18.4	16.2	16.1	13.0		
5					10.9	16.0	19.0	15.2	16.3	12.4		
6					11.1	14.8	18.3	14.7	16.6	11.7		
7					12.0	14.3	17.4	14.2	16.6	11.8		
8					13.7	14.4	16.9	14.3	16.3	11.9		
9					14.5	14.4	17.3	14.8	16.0	12.2		
10					14.5	14.0	17.8	15.1	16.1	12.4		
11					14.2	13.7	18.8	15.3	16.2	12.2		
12					13.8	13.9	19.1	15.0	16.6	12.4		
13					13.4	15.3	18.1	14.4	16.2	12.4		
14					13.2	15.9	17.6	14.7	15.8	12.0		
15					13.8	15.5	17.4	16.2	15.9	12.0		
16					14.5	15.0	16.7	17.2	15.9	11.9		
17					14.8	14.3	16.2	16.5	15.9	11.6		
18					14.9	14.0	15.4	15.6	15.5	11.6		
19					14.6	14.4	15.2	15.1	15.0	11.7		
20					13.9	15.9	15.4	14.7	14.7	11.3		
21					12.8	16.8	15.9	14.9	15.1	11.0		
22					12.1	16.5	16.4	15.7	15.6	10.6		
23					12.1	15.5	16.6	16.8	15.1	10.6		
24					13.5	14.7	16.9	17.8	14.6	10.8		
25					14.6	14.3	17.5	18.2	14.4	10.3		
26					15.5	14.7	17.9	18.2	14.4	9.4		
27					15.7	15.7	18.4	17.2	14.7	8.7		
28					14.5	15.9	18.6	16.9	15.1	8.3		
29		—			14.4	15.6	18.0	17.0	14.2	8.1		
30		—			15.6	15.0	16.3	17.3	13.6	8.1		
31		—		—	16.3	—	15.9	16.9	—	7.7	—	
MEAN					13.6	15.3	17.2	16.1	15.5	11.2		
MAX					16.3	17.2	19.1	18.2	16.6	13.5		
MIN					10.9	13.7	15.2	14.2	13.6	7.7		



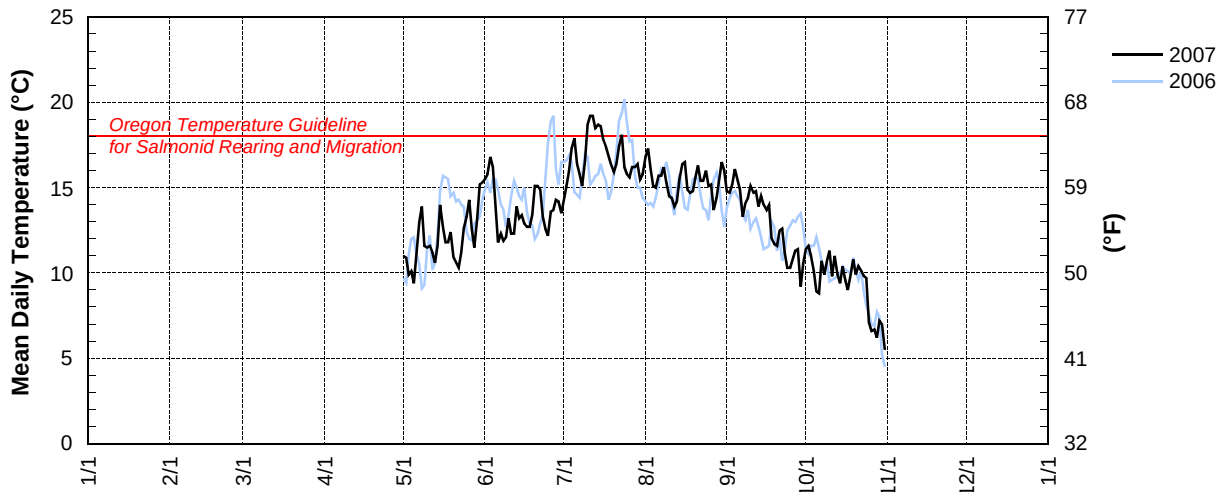
RCRR – 14206305 – ROCK CREEK AT ROCK CREEK ROAD NEAR BOWERS JUNCTION, OREGON [RM 15.8]

Latitude: 45 37 04 Longitude: 122 53 13

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					11.0	15.5	14.3	16.8	14.8	11.4		
2					10.9	15.8	15.1	17.3	14.7	11.6		
3					9.9	16.8	16.0	16.1	15.2	11.0		
4					10.1	16.2	17.3	15.1	16.1	10.1		
5					9.4	14.0	17.9	15.0	15.5	8.9		
6					11.2	11.8	16.4	15.7	14.9	8.8		
7					13.0	12.3	15.8	15.7	13.3	10.7		
8					13.9	11.9	15.1	16.2	14.1	9.9		
9					11.6	12.1	16.6	15.3	14.4	10.7		
10					11.5	13.2	18.7	14.5	15.1	11.3		
11					11.6	12.3	19.2	14.4	14.7	9.8		
12					11.2	12.3	19.2	13.9	14.8	11.0		
13					10.6	13.9	18.5	14.2	13.9	9.9		
14					11.6	13.2	18.7	15.5	14.5	9.4		
15					14.0	13.4	18.6	16.4	14.0	10.4		
16					12.7	12.9	17.8	16.5	13.7	9.6		
17					11.8	12.7	17.4	14.9	14.0	9.0		
18					11.8	12.7	16.8	14.7	12.0	9.9		
19					12.4	13.4	16.3	14.8	11.7	10.8		
20					10.9	15.1	15.9	15.6	11.6	9.9		
21					10.6	15.1	16.4	16.3	12.5	10.4		
22					10.3	14.9	17.4	15.4	12.6	10.1		
23					11.2	13.3	18.1	15.4	11.2	9.8		
24					12.6	12.6	16.2	16.0	10.3	9.7		
25					13.3	12.2	15.8	15.1	10.3	7.1		
26					14.3	13.6	15.6	15.2	10.8	6.6		
27					12.6	13.7	16.2	13.7	11.3	6.7		
28					11.5	14.3	16.2	14.4	11.4	6.2		
29		—			13.2	14.2	16.4	15.5	9.2	7.2		
30		—			15.2	13.5	15.5	16.5	10.6	7.0		
31		—		—	15.3	—	15.8	16.0	—	5.5	—	
MEAN					12.0	13.6	16.8	15.4	13.1	9.4		
MAX					15.3	16.8	19.2	17.3	16.1	11.6		
MIN					9.4	11.8	14.3	13.7	9.2	5.5		

RCRR – 14206305 – Rock Creek at Rock Creek Road near Bowers Junction, Oregon [RM 15.8]

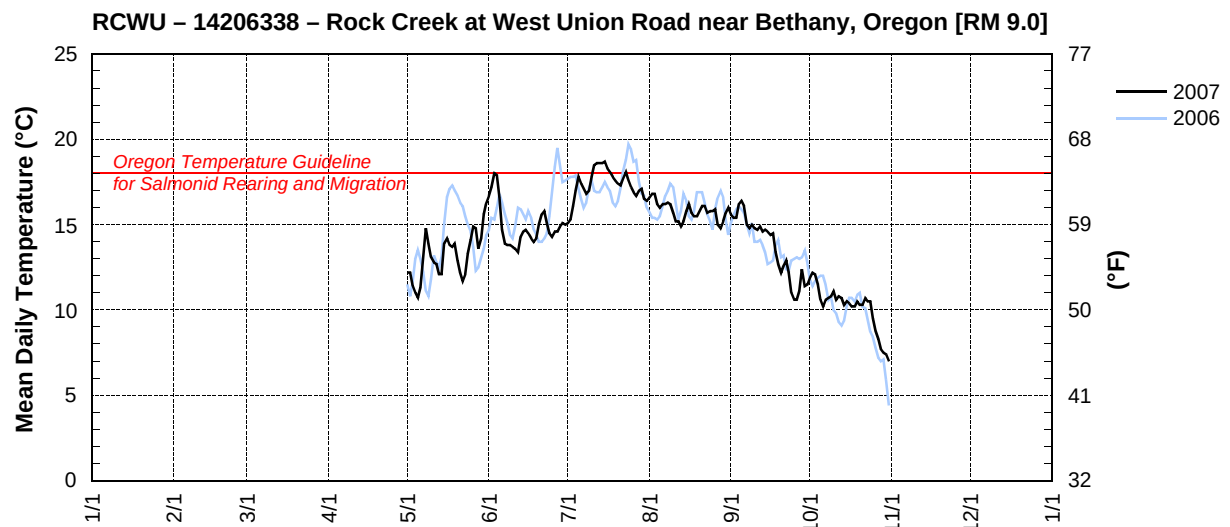


RCWU – 14206338 – ROCK CREEK AT WEST UNION ROAD NEAR BETHANY, OREGON [RM 9.0]

Latitude: 45 33 34 Longitude: 122 52 30

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					12.2	16.7	15.1	16.6	15.6	11.9		
2					12.2	17.2	15.3	16.8	15.4	12.2		
3					11.4	18.0	16.1	16.8	15.4	12.1		
4					11.0	17.9	17.0	16.2	16.2	11.5		
5					10.7	16.6	17.8	16.0	16.4	10.6		
6					11.3	14.7	17.4	16.2	16.1	10.2		
7					13.1	13.9	17.1	16.2	15.0	10.6		
8					14.8	13.8	16.8	16.3	14.8	10.7		
9					13.9	13.8	17.0	16.2	15.0	10.8		
10					13.1	13.7	17.8	15.7	14.8	11.1		
11					12.8	13.6	18.5	15.2	14.7	10.6		
12					12.7	13.4	18.6	15.2	14.9	10.8		
13					12.1	14.3	18.6	14.9	14.6	10.7		
14					12.1	14.6	18.6	15.2	14.7	10.3		
15					13.9	14.7	18.7	15.8	14.6	10.5		
16					14.2	14.5	18.3	16.2	14.4	10.4		
17					13.8	14.2	18.1	15.7	14.5	10.2		
18					13.7	14.0	17.8	15.5	13.4	10.2		
19					13.9	14.2	17.6	15.5	12.7	10.5		
20					12.9	15.0	17.4	15.8	12.2	10.3		
21					12.2	15.6	17.3	16.1	12.6	10.3		
22					11.7	15.8	17.7	16.1	12.9	10.7		
23					12.1	15.1	18.1	15.7	12.2	10.5		
24					13.3	14.5	17.6	15.8	11.0	10.5		
25					14.1	14.3	17.2	15.8	10.6	9.5		
26					14.9	14.6	16.9	15.9	10.6	8.8		
27					14.8	14.6	16.7	15.0	11.1	8.3		
28					13.6	14.9	17.0	14.8	12.4	7.7		
29		—			14.2	15.1	17.1	15.2	11.4	7.5		
30		—			15.6	15.0	16.5	15.7	11.5	7.4		
31		—		—	16.3	—	16.4	16.0	—	7.0	—	
MEAN					13.2	14.9	17.4	15.8	13.7	10.1		
MAX					16.3	18.0	18.7	16.8	16.4	12.2		
MIN					10.7	13.4	15.1	14.8	10.6	7.0		

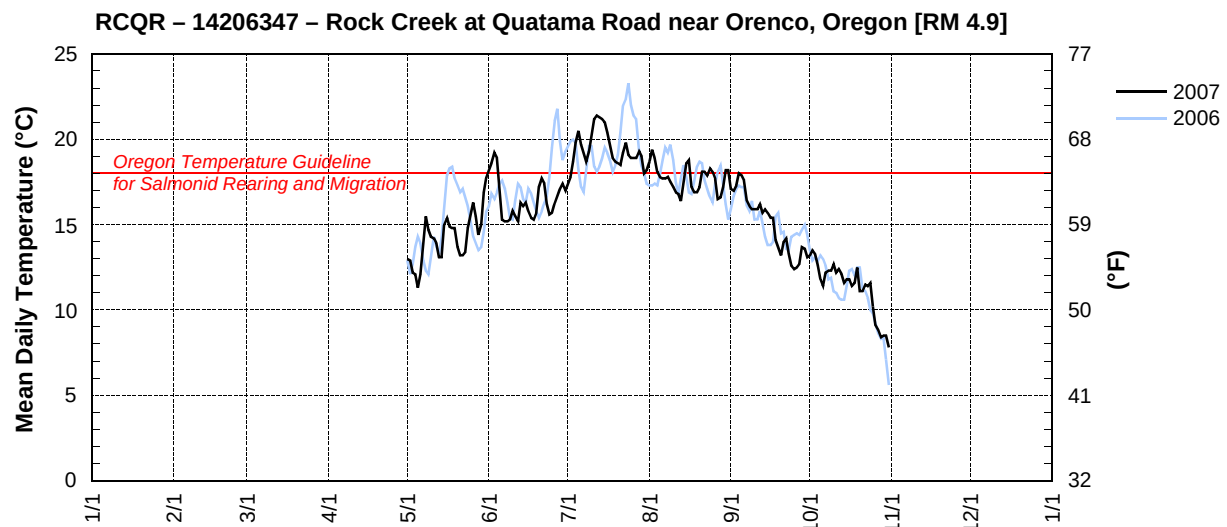


RCQR – 14206347 – ROCK CREEK AT QUATAMA ROAD NEAR ORENCO, OREGON [RM 4.9]

Latitude: 45 31 25 Longitude: 122 54 34

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					13.0	18.2	17.4	18.7	17.1	13.2		
2					12.9	18.6	17.8	19.4	17.0	13.5		
3					12.2	19.2	18.7	18.9	17.3	13.3		
4					12.1	18.9	19.8	18.1	18.0	12.6		
5					11.3	17.1	20.5	17.8	17.9	11.8		
6					12.1	15.3	19.7	17.7	17.6	11.4		
7					13.8	15.2	19.2	17.7	16.4	12.2		
8					15.5	15.2	18.7	17.8	16.1	12.3		
9					14.7	15.3	19.3	17.5	15.9	12.3		
10					14.3	15.8	20.3	17.2	15.9	12.7		
11					14.2	15.5	21.2	16.9	15.9	12.2		
12					13.9	15.2	21.4	16.8	16.2	12.4		
13					13.1	16.3	21.3	16.4	15.7	12.1		
14					13.1	16.1	21.2	17.5	15.9	11.6		
15					15.0	16.3	21.0	18.6	15.7	11.8		
16					15.4	15.8	20.4	18.8	15.4	11.8		
17					14.9	15.4	19.7	17.2	15.4	11.4		
18					14.8	15.3	18.9	16.9	14.1	11.6		
19					14.8	15.7	18.7	16.9	13.7	12.5		
20					13.7	17.2	18.6	17.2	13.2	11.1		
21					13.2	17.7	18.5	18.1	14.0	11.1		
22					13.2	17.4	19.2	18.1	14.2	11.5		
23					13.4	16.2	19.8	17.9	13.3	11.4		
24					14.8	15.6	19.1	18.3	12.6	11.6		
25					15.6	15.7	18.9	18.1	12.4	10.2		
26					16.3	16.3	18.9	17.7	12.5	9.1		
27					15.5	16.7	18.9	16.5	12.7	8.8		
28					14.4	17.1	19.3	16.6	13.7	8.4		
29		—			15.0	17.4	19.0	17.2	13.6	8.5		
30		—			16.9	17.0	18.0	18.2	13.1	8.5		
31		—		—	17.8	—	18.2	18.2	—	7.8	—	
MEAN					14.2	14.2	14.2	14.2	14.2	14.2		
MAX					17.8	17.8	17.8	17.8	17.8	17.8		
MIN					11.3	11.3	11.3	11.3	11.3	11.3		

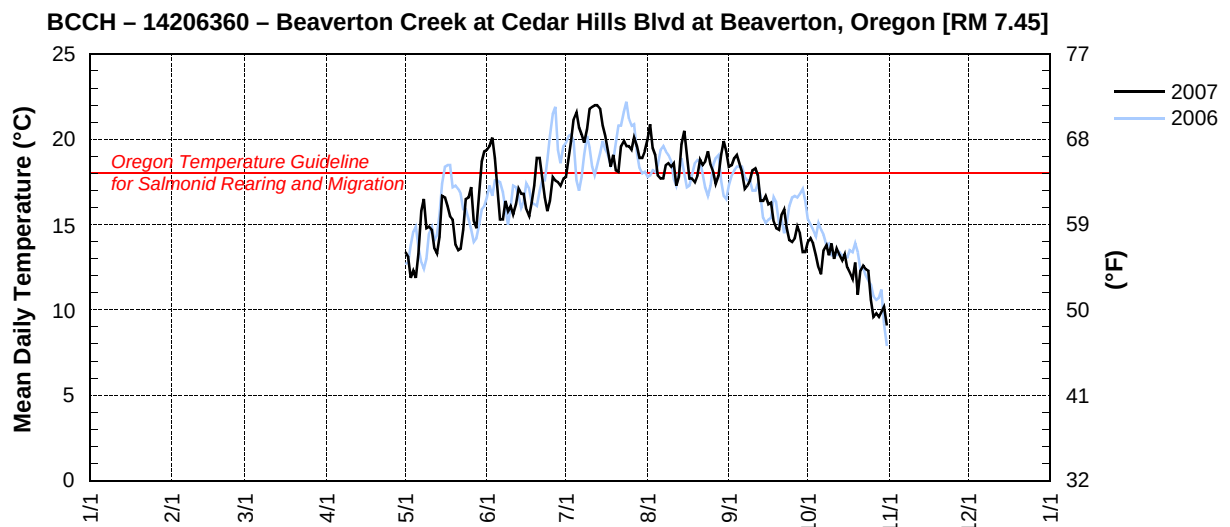


BCCH – 14206360 – BEAVERTON CREEK AT CEDAR HILLS BLVD AT BEAVERTON, OREGON [RM 7.45]

Latitude: 45 49 31 Longitude: 122 81 05

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					13.4	19.4	17.8	20.0	18.4	14.0		
2					13.1	19.6	18.8	20.9	18.5	14.2		
3					11.9	20.1	19.9	19.5	18.9	13.9		
4					12.3	18.9	21.2	19.1	19.1	13.2		
5					11.9	17.0	21.6	17.9	18.6	12.5		
6					13.3	15.3	20.7	17.7	18.1	12.1		
7					15.8	15.3	20.3	17.7	17.1	13.5		
8					16.5	16.4	19.8	18.5	17.3	13.8		
9					14.8	15.8	20.6	18.6	17.6	13.2		
10					14.9	16.1	21.8	18.4	18.2	13.9		
11					14.7	15.6	21.9	18.6	18.3	13.0		
12					13.6	16.2	22.0	17.3	17.9	13.6		
13					13.3	17.1	22.0	17.8	16.4	13.2		
14					14.3	16.8	21.8	19.7	16.4	12.9		
15					16.7	16.8	20.8	20.5	16.7	13.3		
16					16.6	15.9	20.2	19.0	16.2	12.5		
17					16.1	15.5	19.4	17.7	16.3	12.2		
18					15.5	16.3	18.4	17.7	15.2	11.8		
19					15.3	17.3	19.1	17.5	14.8	12.8		
20					13.8	18.9	18.2	17.9	14.7	10.9		
21					13.5	18.9	18.1	18.8	15.6	12.3		
22					13.6	17.7	19.6	18.5	15.9	12.6		
23					14.7	16.6	19.9	18.7	14.8	12.4		
24					16.5	15.8	19.6	19.3	14.1	12.3		
25					16.6	16.4	19.6	18.5	14.0	10.6		
26					17.2	17.8	19.4	18.1	14.2	9.6		
27					15.2	17.6	20.1	17.4	14.9	9.8		
28					14.8	17.5	19.6	17.9	14.5	9.6		
29		—			16.8	17.3	18.9	19.1	13.4	9.9		
30		—			18.7	17.7	18.9	19.9	13.4	10.2		
31		—		—	19.3	—	19.3	19.3	—	9.1	—	
MEAN					15.0	17.1	20.0	18.6	16.3	12.2		
MAX					19.3	20.1	22.0	20.9	19.1	14.2		
MIN					11.9	15.3	17.8	17.3	13.4	9.1		

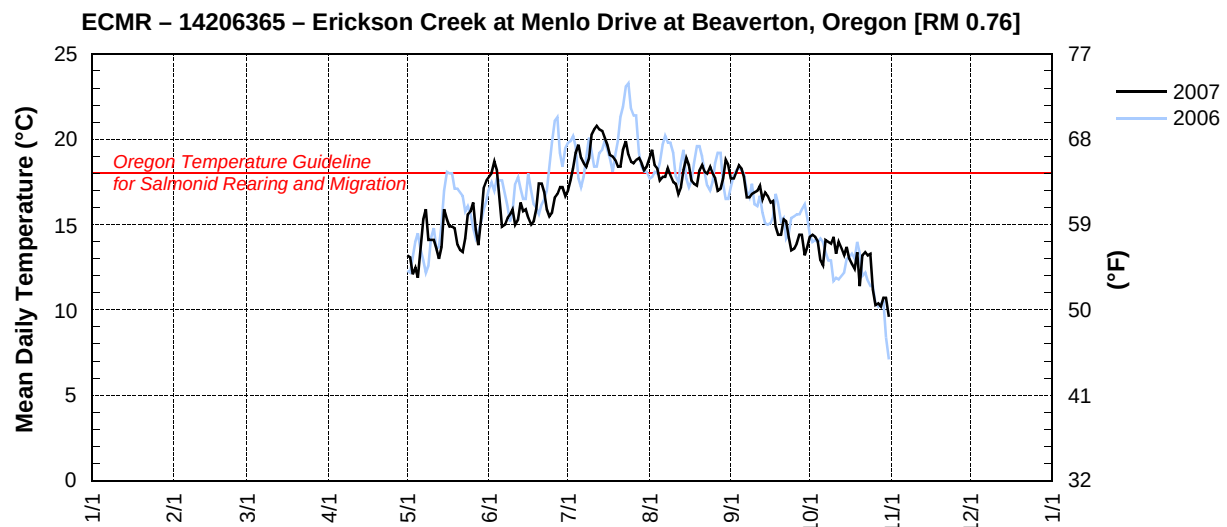


ECMR – 14206365 – ERICKSON CREEK AT MENLO DRIVE AT BEAVERTON, OREGON [RM 0.76]

Latitude: 45 29 14 Longitude: 122 58 54

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					13.2	17.8	17.0	18.9	17.7	14.3		
2					13.1	18.0	17.6	19.4	17.7	14.4		
3					12.1	18.7	18.3	18.5	18.1	14.3		
4					12.5	18.2	19.2	18.3	18.5	14.0		
5					11.9	16.6	19.7	17.6	18.3	12.9		
6					13.4	14.9	18.9	17.8	17.8	12.6		
7					15.3	15.0	18.6	17.8	16.6	14.1		
8					15.9	15.4	18.4	18.3	16.6	14.0		
9					14.1	15.6	18.9	17.9	16.8	13.9		
10					14.1	15.9	20.3	17.5	16.9	14.3		
11					14.1	15.0	20.6	17.4	17.0	13.3		
12					13.6	15.3	20.8	16.8	17.3	14.0		
13					13.0	16.3	20.6	17.2	16.5	13.6		
14					13.7	15.8	20.5	18.2	16.9	13.2		
15					15.9	15.9	20.1	18.9	16.7	13.7		
16					15.3	15.4	19.7	18.5	16.3	13.0		
17					14.9	15.0	19.1	17.6	16.4	12.7		
18					14.9	15.2	19.0	17.4	14.9	12.4		
19					14.8	15.9	18.8	17.3	14.4	13.4		
20					13.8	17.4	18.4	18.2	14.4	11.4		
21					13.5	17.4	18.4	18.5	15.3	13.2		
22					13.4	16.9	19.4	18.1	15.2	13.4		
23					14.2	15.9	19.9	18.0	14.3	13.2		
24					15.6	15.5	19.1	18.4	13.5	13.3		
25					15.8	15.7	18.7	18.0	13.6	11.2		
26					16.3	16.6	18.6	17.7	13.9	10.3		
27					14.7	16.8	18.8	17.0	14.4	10.4		
28					13.8	17.2	18.9	17.1	14.4	10.2		
29		—			15.4	17.2	18.6	17.7	13.2	10.7		
30		—			17.2	16.7	18.2	18.8	13.7	10.7		
31		—		—	17.6	—	18.4	18.5	—	9.6	—	
MEAN					14.4	16.3	19.1	18.0	15.9	12.8		
MAX					17.6	18.7	20.8	19.4	18.5	14.4		
MIN					11.9	14.9	17.0	16.8	13.2	9.6		

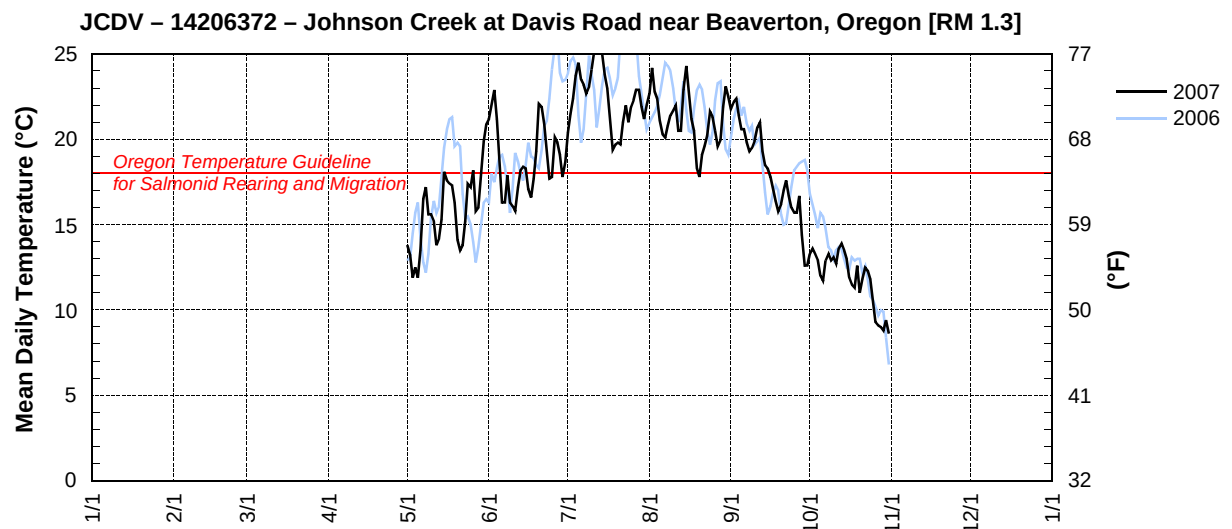


JCDV – 14206372 – JOHNSON CREEK AT DAVIS ROAD NEAR BEAVERTON, OREGON [RM 1.3]

Latitude: 45 28 30 Longitude: 122 49 52

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					13.8	21.2	20.4	22.7	21.8	13.3		
2					13.2	22.0	21.5	24.2	22.2	13.6		
3					11.9	22.9	22.4	22.8	22.4	13.3		
4					12.5	21.2	23.7	22.4	21.4	12.9		
5					11.9	18.5	24.5	21.1	20.6	12.0		
6					13.5	16.3	23.5	20.3	20.6	11.7		
7					16.5	16.3	23.2	20.1	19.8	12.9		
8					17.2	17.9	22.7	20.8	19.3	13.3		
9					15.6	16.3	23.1	21.4	19.5	12.9		
10					15.6	16.1	24.1	21.7	19.9	13.1		
11					15.2	15.8	25.2	22.0	20.7	12.7		
12					13.8	17.2	25.1	20.5	21.0	13.6		
13					14.2	18.2	25.3	20.5	19.3	13.9		
14					15.3	18.4	25.1	22.9	18.5	13.5		
15					18.1	18.3	23.8	24.3	18.3	13.0		
16					17.6	17.1	23.0	22.8	17.8	11.9		
17					17.4	16.6	21.2	21.2	17.1	11.5		
18					17.3	17.7	19.4	20.5	16.4	11.3		
19					16.3	19.3	19.7	18.3	15.8	12.6		
20					14.1	22.1	19.8	17.8	16.2	11.0		
21					13.5	21.9	19.7	19.1	17.0	11.8		
22					13.8	20.9	21.0	19.6	17.6	12.5		
23					15.2	19.4	22.0	20.2	16.7	12.3		
24					17.4	17.7	21.0	21.6	16.0	11.8		
25					17.2	17.8	21.9	21.3	15.7	10.5		
26					18.2	20.1	22.3	20.5	15.7	9.3		
27					15.8	19.8	22.9	19.6	16.7	9.1		
28					16.0	19.1	22.9	20.0	14.4	9.0		
29		—			18.2	17.8	21.9	21.9	12.6	8.8		
30		—			19.9	18.7	21.2	23.1	12.6	9.4		
31		—		—	20.9	—	22.0	22.5	—	8.6	—	
MEAN					15.7	18.8	22.4	21.2	18.1	11.8		
MAX					20.9	22.9	25.3	24.3	22.4	13.9		
MIN					11.9	15.8	19.4	17.8	12.6	8.6		



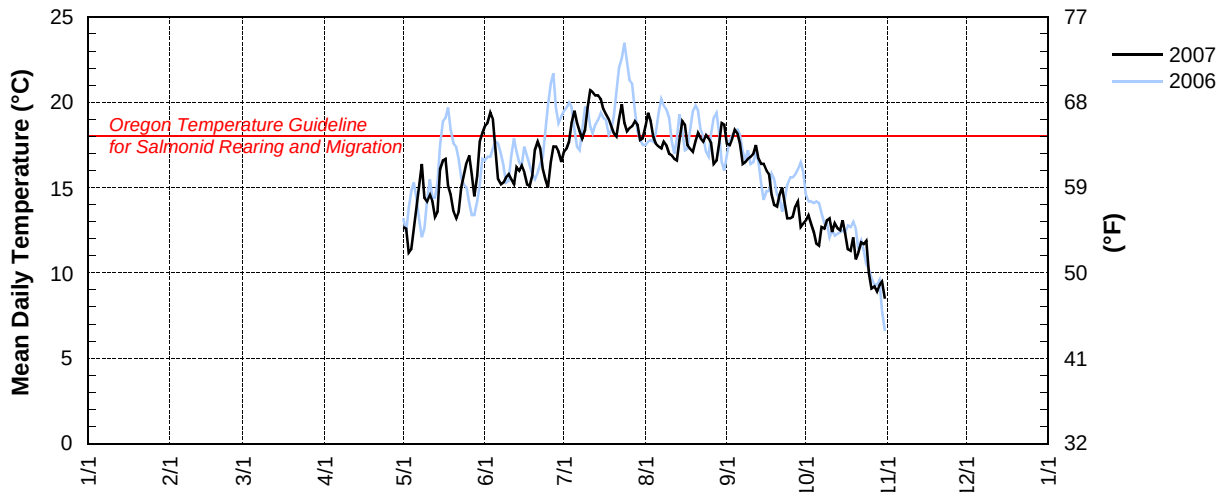
CMMB – 14206395 – CEDAR MILL CREEK AT MURRAY BOULEVARD NEAR BEAVERTON, OREGON [RM 1.64]

Latitude: 45 30 37 Longitude: 122 49 18

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					12.7	18.6	17.1	18.6	17.6	13.1		
2					12.6	18.8	17.3	19.4	17.5	13.4		
3					11.2	19.4	17.7	18.9	17.9	12.9		
4					11.4	19.0	18.8	18.0	18.4	12.4		
5					12.5	17.1	19.5	17.6	18.2	11.7		
6					13.7	15.5	18.8	17.4	17.6	11.6		
7					15.2	15.2	18.3	17.3	16.4	12.7		
8					16.4	15.3	17.9	17.7	16.5	12.6		
9					14.4	15.6	18.4	17.5	16.7	13.1		
10					14.2	15.8	19.7	17.0	16.8	13.2		
11					14.6	15.5	20.7	16.9	17.0	12.4		
12					14.2	15.2	20.6	16.7	17.5	12.9		
13					13.3	16.2	20.4	16.6	16.7	12.6		
14					13.6	16.0	20.4	17.8	16.4	12.5		
15					16.1	16.3	20.2	18.9	16.4	13.1		
16					16.6	15.9	19.6	18.7	16.0	12.3		
17					16.7	15.2	19.3	17.5	15.8	11.4		
18					15.1	15.1	19.0	17.3	14.6	11.3		
19					14.6	15.7	18.6	17.1	14.0	12.1		
20					13.6	17.2	18.2	17.7	13.9	10.8		
21					13.2	17.7	18.0	18.2	14.6	11.2		
22					13.6	17.3	19.0	17.9	15.0	11.8		
23					15.0	16.1	19.9	17.7	14.1	11.7		
24					15.7	15.5	18.8	18.1	13.2	11.9		
25					16.5	15.0	18.3	17.9	13.2	10.0		
26					16.9	16.5	18.5	17.6	13.3	9.1		
27					15.8	17.4	18.6	16.4	13.9	9.2		
28					14.5	17.4	18.9	16.6	14.2	8.9		
29		—			15.7	17.1	18.7	17.6	12.7	9.3		
30		—			17.7	16.5	17.8	18.8	12.9	9.5		
31		—		—	18.2	—	17.9	18.7	—	8.5	—	
MEAN					14.7	16.5	18.9	17.7	15.6	11.6		
MAX					18.2	19.4	20.7	19.4	18.4	13.4		
MIN					11.2	15.0	17.1	16.4	12.7	8.5		

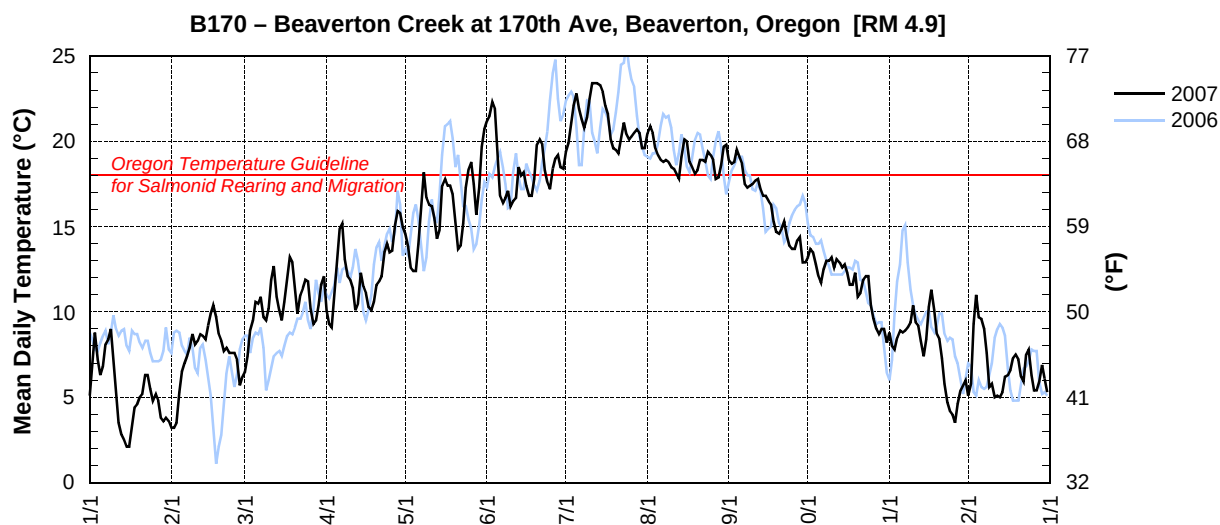
CMMB – 14206395 – Cedar Mill Creek at Murray Boulevard near Beaverton, Oregon [RM 1.64]



STATION NUMBER 453004122510301 BEAVERTON CREEK AT 170TH AVE, BEAVERTON, OR.

LATITUDE: 453004 LONGITUDE: 1225103

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	5.1	3.2	6.5	10.2	14.6	21.2	19.4	20.4	18.9	13.2	8.8	5.1
2	7.0	3.2	7.4	9.3	13.8	21.5	19.9	20.9	18.7	13.7	8.0	5.8
3	8.8	3.5	8.8	9.1	12.6	22.3	21.0	20.6	18.8	13.5	7.8	9.3
4	7.3	5.2	9.5	11.0	12.4	21.9	22.1	19.6	19.5	12.8	8.5	11.0
5	6.3	6.5	10.6	12.9	12.3	19.6	22.8	19.2	19.1	12.1	8.9	9.7
6	6.8	7.0	10.5	14.9	14.0	16.8	22.0	18.9	18.7	11.7	8.8	9.6
7	8.1	7.4	10.9	15.3	16.3	16.5	21.3	18.8	17.6	12.4	8.9	9.1
8	8.4	7.9	9.7	13.1	18.2	16.6	20.9	18.9	17.3	13.0	9.1	7.7
9	9.0	8.7	9.5	12.1	16.7	17.2	21.4	18.8	17.4	13.0	9.4	5.6
10	7.2	8.1	10.2	11.9	16.3	16.2	22.5	18.5	17.5	13.2	10.4	5.8
11	5.5	8.3	11.8	11.4	16.3	16.5	23.4	18.4	17.7	12.6	9.4	5.0
12	3.5	8.7	12.7	10.1	15.5	16.7	23.4	18.1	17.8	13.1	9.2	5.1
13	2.8	8.6	11.0	10.5	14.3	18.5	23.4	17.8	17.3	12.9	8.3	5.0
14	2.5	8.5	10.1	12.3	14.8	18.0	23.3	19.0	16.8	12.6	7.4	5.3
15	2.1	9.2	9.5	11.5	17.4	18.3	22.9	20.1	16.8	12.8	8.3	6.2
16	2.1	9.9	10.6	11.1	17.8	17.4	22.1	20.1	16.5	12.3	10.3	6.3
17	3.2	10.4	12.0	10.3	17.4	16.8	21.6	18.8	16.3	11.6	11.3	6.6
18	4.4	9.7	13.2	10.1	17.4	16.8	20.1	18.5	15.3	11.6	10.2	7.3
19	4.6	8.7	12.9	10.6	16.9	17.8	19.6	18.1	14.7	12.3	8.7	7.5
20	5.0	8.3	11.3	11.5	15.3	19.8	19.6	18.3	14.5	10.9	8.4	7.3
21	5.2	7.7	9.9	11.9	13.7	20.2	19.3	18.9	14.9	11.1	7.4	6.2
22	6.2	7.9	11.0	12.1	13.9	19.8	20.1	18.9	15.3	11.9	5.9	5.9
23	6.4	7.6	11.4	13.5	15.2	18.3	21.1	18.8	14.5	12.1	4.7	7.4
24	5.5	7.7	11.9	14.0	17.3	17.6	20.4	19.4	14.0	12.1	4.2	7.8
25	4.8	7.6	11.8	13.5	18.4	17.1	20.1	19.3	13.7	10.4	4.1	6.3
26	5.2	7.2	10.3	13.6	18.7	18.4	20.3	18.9	13.7	9.6	3.5	5.4
27	4.8	5.8	9.3	15.1	17.6	19.1	20.5	17.8	14.2	9.0	4.6	5.4
28	3.9	6.2	9.4	15.9	15.7	19.3	20.7	17.9	14.4	8.8	5.4	5.9
29	3.6	—	10.4	15.8	17.2	18.6	20.5	18.6	13.0	9.0	5.7	6.9
30	3.8	—	11.6	15.0	19.7	18.4	19.6	19.7	12.9	9.1	6.0	6.1
31	3.6	—	12.2	—	20.7	—	19.6	19.8	—	8.2	—	5.3
MEAN	5.3	7.4	10.6	12.3	16.1	18.4	21.1	19.0	16.3	11.7	7.7	6.7
MAX	9.0	10.4	13.2	15.9	20.7	22.3	23.4	20.9	19.5	13.7	11.3	11.0
MIN	2.1	3.2	6.5	9.1	12.3	16.2	19.3	17.8	12.9	8.2	3.5	5.0

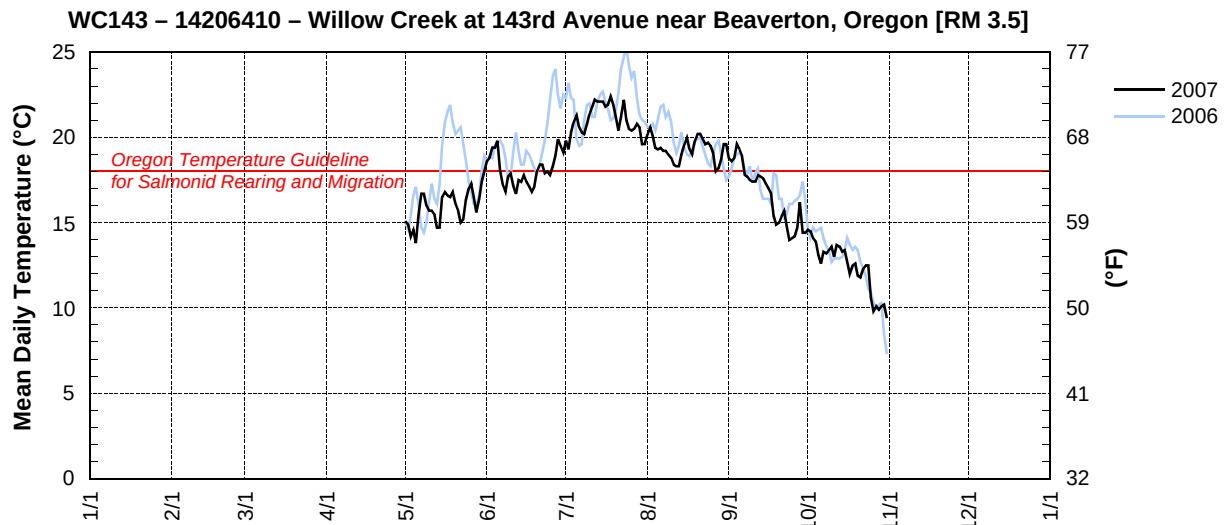
[†] Provisional data—subject to revision; e= estimated value

WC143 – 14206410 – WILLOW CREEK AT 143RD AVENUE NEAR BEAVERTON, OREGON [RM 3.5]

Latitude: 45 32 12 Longitude: 122 49 24

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					15.1	18.6	19.8	20.2	18.8	14.6		
2					14.9	18.8	19.3	20.6	18.6	14.5		
3					14.2	19.4	20.3	20.1	18.8	14.1		
4					14.6	19.4	20.9	19.4	19.6	13.9		
5					13.8	19.8	21.3	19.3	19.3	13.1		
6					15.4	18.1	20.6	19.4	18.9	12.6		
7					16.7	17.2	20.3	19.2	17.8	13.3		
8					16.7	16.8	20.2	19.2	17.7	13.2		
9					16.0	17.7	20.8	19.0	17.5	13.4		
10					15.7	17.9	21.4	18.8	17.4	13.6		
11					15.7	17.2	21.8	18.4	17.4	13.0		
12					15.5	16.7	22.2	18.3	17.8	13.7		
13					14.7	17.5	22.1	18.3	17.7	13.6		
14					14.7	17.4	22.1	19.0	17.6	13.3		
15					16.5	17.8	22.1	19.6	17.3	13.4		
16					16.8	17.4	21.8	20.0	17.0	12.7		
17					16.6	17.1	21.9	19.3	16.7	12.0		
18					16.5	16.8	22.4	19.0	15.4	12.5		
19					16.8	17.1	21.9	19.8	14.9	12.6		
20					16.1	18.0	21.2	20.2	15.0	11.9		
21					15.7	18.4	20.4	20.2	15.4	11.8		
22					15.0	18.4	21.2	19.9	15.7	12.3		
23					15.2	17.9	22.2	19.6	14.8	12.5		
24					16.3	18.0	21.0	19.7	14.0	12.5		
25					17.0	17.8	20.5	19.5	14.1	10.6		
26					17.3	18.3	20.4	19.1	14.2	9.8		
27					16.5	18.9	20.5	18.0	14.7	10.1		
28					15.6	19.9	20.8	18.2	16.2	9.9		
29		—			16.4	19.5	20.6	18.7	14.4	10.1		
30		—			17.4	19.1	19.6	19.6	14.4	10.2		
31		—		—	18.0	—	19.6	19.6	—	9.4	—	
MEAN					15.9	18.1	21.0	19.3	16.6	12.4		
MAX					18.0	19.9	22.4	20.6	19.6	14.6		
MIN					13.8	16.7	19.3	18.0	14.0	9.4		

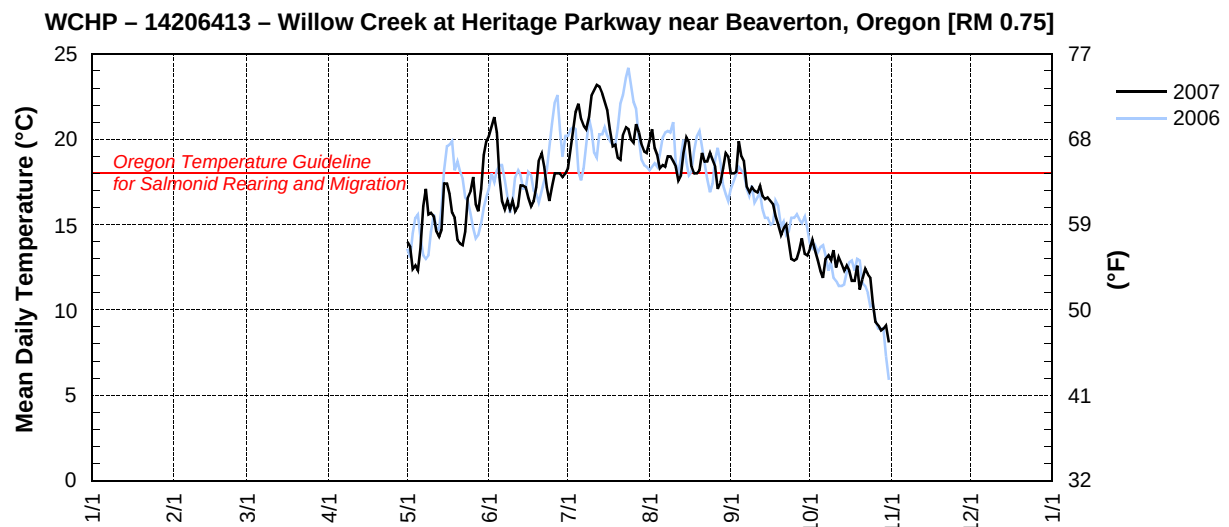


WCHP – 14206413 – WILLOW CREEK AT HERITAGE PARKWAY NEAR BEAVERTON, OREGON [RM 0.75]

Latitude: 45 31 12 Longitude: 122 51 35

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					14.0	20.2	18.3	19.9	18.0	13.6		
2					13.7	20.7	19.3	20.6	18.0	14.1		
3					12.4	21.3	20.4	19.5	18.1	13.5		
4					12.6	20.4	21.6	19.1	19.9	12.9		
5					12.3	17.8	22.1	18.3	19.0	12.3		
6					13.6	16.4	21.2	18.5	18.7	11.9		
7					16.1	15.9	20.8	18.4	17.2	13.0		
8					17.1	16.4	20.6	19.0	16.9	13.2		
9					15.6	15.9	21.3	19.0	17.2	12.9		
10					15.7	16.4	22.6	18.7	17.0	13.5		
11					15.5	15.8	22.9	18.4	16.9	12.5		
12					14.6	16.1	23.2	17.6	17.3	13.1		
13					14.3	17.3	23.1	17.9	16.7	12.7		
14					14.7	17.3	22.7	19.2	16.5	12.3		
15					17.4	17.2	22.2	20.1	16.6	12.6		
16					17.4	16.6	21.7	19.8	16.4	12.3		
17					16.8	16.1	20.6	18.4	16.2	11.7		
18					15.7	16.4	19.6	18.0	15.5	11.7		
19					15.4	17.2	19.7	18.0	15.0	12.6		
20					14.1	18.8	18.9	18.2	14.4	11.2		
21					13.9	19.2	18.8	19.2	14.8	11.8		
22					13.8	18.4	20.3	18.7	15.0	12.4		
23					14.6	17.2	20.7	18.7	14.0	12.1		
24					16.6	16.4	20.6	19.2	13.0	11.9		
25					17.0	17.2	20.0	18.8	12.9	10.4		
26					17.8	18.0	19.8	18.4	13.0	9.3		
27					16.2	18.0	20.9	17.1	13.5	9.1		
28					15.8	18.0	20.4	17.5	14.2	8.8		
29		—			17.1	17.8	19.7	18.3	13.3	8.9		
30		—			19.1	18.0	19.3	19.2	13.2	9.1		
31		—		—	19.9	—	19.2	19.0	—	8.1	—	
MEAN					15.5	17.6	20.7	18.7	15.9	11.8		
MAX					19.9	21.3	23.2	20.6	19.9	14.1		
MIN					12.3	15.8	18.3	17.1	12.9	8.1		

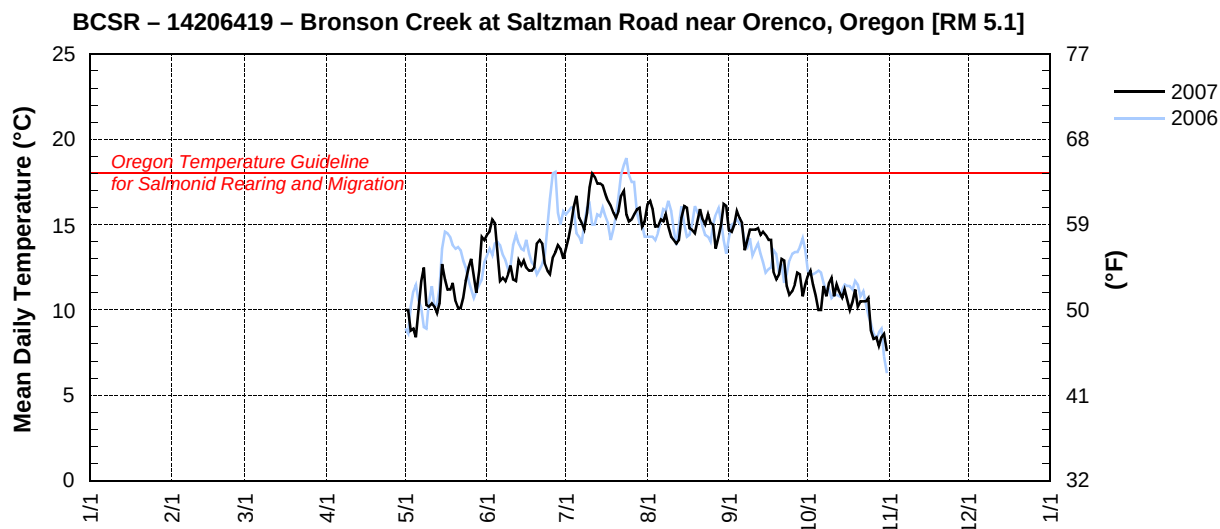


BCSR – 14206419 – BRONSON CREEK AT SALTZMAN ROAD NEAR ORENCO, OREGON [RM 5.1]

Latitude: 45 33 19 Longitude: 122 48 25

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					10.0	14.4	13.6	16.2	14.7	12.0		
2					10.0	14.6	14.2	16.4	14.6	12.3		
3					8.8	15.3	15.0	15.9	15.0	11.5		
4					8.9	15.1	16.0	14.9	15.8	10.8		
5					8.4	13.4	16.7	14.9	15.4	10.0		
6					10.0	11.7	15.4	15.3	15.1	10.0		
7					11.7	11.9	15.1	15.2	13.5	11.4		
8					12.5	11.7	14.7	15.6	14.1	10.8		
9					10.3	12.1	15.7	14.9	14.7	11.6		
10					10.2	12.6	17.2	14.3	14.7	11.9		
11					10.4	11.8	18.0	14.1	14.7	10.8		
12					10.2	11.7	17.8	13.9	14.8	11.5		
13					9.8	12.9	17.4	14.1	14.4	11.0		
14					10.4	12.6	17.4	15.4	14.6	10.7		
15					12.7	12.9	17.3	16.1	14.4	11.2		
16					11.8	12.5	16.8	16.0	14.1	10.6		
17					11.2	12.3	16.4	14.8	14.1	10.0		
18					11.2	12.3	16.1	14.7	12.2	10.5		
19					11.6	12.5	15.7	14.5	11.8	11.2		
20					10.5	13.9	15.4	15.2	12.1	10.2		
21					10.1	14.1	15.8	15.9	13.0	10.5		
22					10.1	13.9	16.7	15.3	12.9	10.5		
23					10.7	12.7	17.0	15.0	11.4	10.5		
24					11.7	12.3	15.6	15.6	10.9	10.7		
25					12.5	12.1	15.2	15.1	11.1	8.8		
26					13.0	13.1	15.3	15.0	11.5	8.3		
27					12.0	13.4	15.6	13.6	12.2	8.4		
28					11.0	13.8	15.9	14.3	12.1	7.9		
29		—			12.3	13.6	16.0	15.0	10.8	8.4		
30		—			14.3	13.0	14.9	16.2	11.5	8.6		
31		—		—	14.1	—	15.2	16.1	—	7.6	—	
MEAN					11.0	13.0	16.0	15.1	13.4	10.3		
MAX					14.3	15.3	18.0	16.4	15.8	12.3		
MIN					8.4	11.7	13.6	13.6	10.8	7.6		

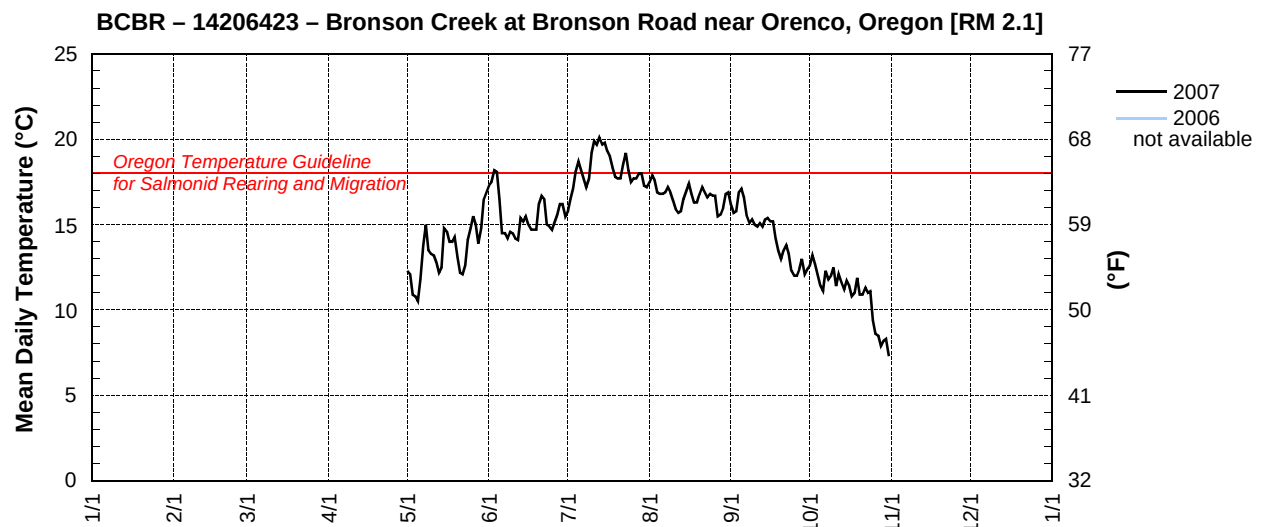


BCBR – 14206423 – BRONSON CREEK AT BRONSON ROAD NEAR ORENCO, OREGON [RM 2.1]

Latitude: 45 32 18 Longitude: 122 51 15

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					12.3	17.3	15.8	17.5	16.2	12.6		
2					12.1	17.5	16.5	17.9	15.7	13.2		
3					10.9	18.2	17.1	17.6	15.8	12.7		
4					10.8	18.1	18.1	16.9	16.9	12.0		
5					10.5	16.5	18.7	16.8	17.1	11.4		
6					11.8	14.5	18.2	16.8	16.6	11.1		
7					13.8	14.5	17.7	16.9	15.5	12.3		
8					15.0	14.2	17.2	17.2	15.1	11.8		
9					13.5	14.6	17.7	16.9	15.3	12.0		
10					13.3	14.5	19.2	16.4	15.0	12.5		
11					13.2	14.2	19.9	15.9	14.9	11.4		
12					12.8	14.1	19.7	15.7	15.1	12.1		
13					12.2	15.4	20.1	15.8	14.9	11.6		
14					12.5	15.2	19.7	16.5	15.3	11.2		
15					14.8	15.5	19.8	17.0	15.4	11.7		
16					14.6	15.0	19.3	17.4	15.2	11.4		
17					14.0	14.7	19.0	16.8	15.2	10.8		
18					14.0	14.7	18.3	16.3	14.2	11.0		
19					14.3	14.7	17.8	16.3	13.5	11.9		
20					13.1	16.2	17.7	16.8	13.0	10.9		
21					12.2	16.7	17.7	17.2	13.5	10.9		
22					12.1	16.5	18.5	16.9	13.8	11.3		
23					12.6	15.0	19.2	16.6	13.3	11.0		
24					14.1	14.9	18.2	16.8	12.3	11.1		
25					14.8	14.7	17.5	16.7	12.0	9.4		
26					15.5	15.2	17.7	16.7	12.0	8.6		
27					15.0	15.6	17.7	15.5	12.4	8.5		
28					13.9	16.2	18.0	15.6	13.0	7.9		
29		—			14.8	16.2	18.0	16.0	12.1	8.2		
30		—			16.5	15.5	17.3	16.8	12.4	8.3		
31		—		—	16.9	—	17.2	16.9	—	7.3	—	
MEAN					13.5	15.5	18.2	16.7	14.4	10.9		
MAX					16.9	18.2	20.1	17.9	17.1	13.2		
MIN					10.5	14.1	15.8	15.5	12.0	7.3		

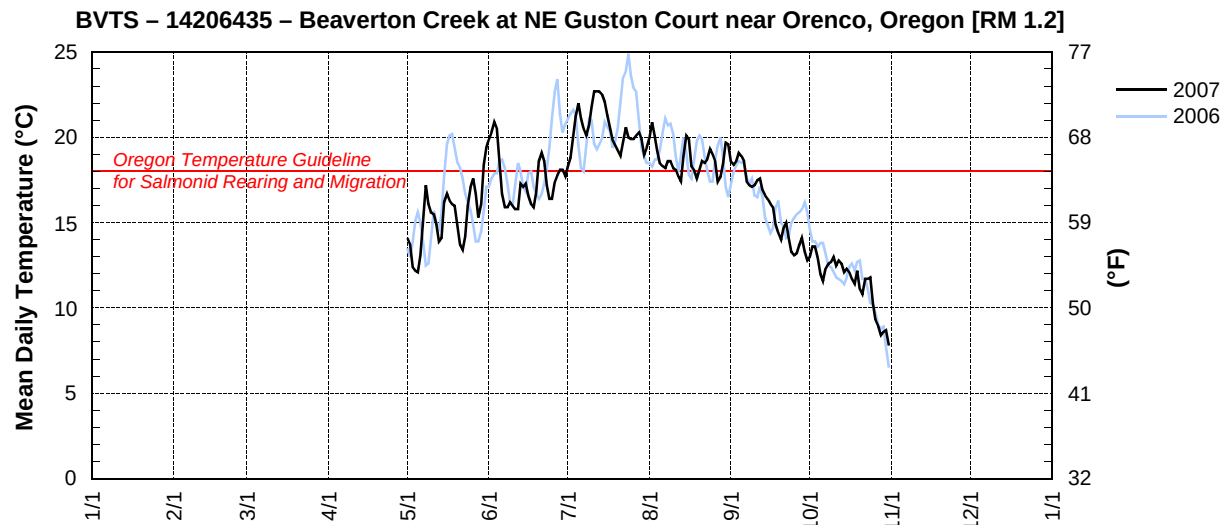


BVTS – 14206435 – BEAVERTON CREEK AT NE GUSTON COURT NEAR ORENCO, OREGON [RM 1.2]

Latitude: 45 31 15 Longitude: 122 53 59

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					14.1	19.9	18.3	20.0	18.6	13.0		
2					13.7	20.3	18.8	20.9	18.4	13.6		
3					12.4	20.9	20.0	20.1	18.6	13.6		
4					12.2	20.5	21.2	19.2	19.1	12.9		
5					12.1	18.6	22.0	18.5	18.9	12.0		
6					13.1	16.7	21.1	18.3	18.6	11.6		
7					15.3	15.9	20.5	18.2	17.4	12.3		
8					17.2	15.9	20.1	18.6	17.2	12.6		
9					16.1	16.2	20.7	18.6	17.1	12.7		
10					15.6	16.0	21.8	18.2	17.2	13.0		
11					15.5	15.8	22.7	18.1	17.5	12.5		
12					14.9	15.8	22.7	17.7	17.6	12.8		
13					13.9	17.3	22.7	17.4	16.9	12.6		
14					14.1	17.1	22.5	18.9	16.6	12.1		
15					16.2	17.3	22.1	20.1	16.4	12.3		
16					16.7	16.6	21.3	19.9	16.1	12.1		
17					16.3	16.1	20.6	18.3	15.9	11.7		
18					16.1	15.9	19.8	18.1	14.9	11.4		
19					16.0	16.8	19.5	17.6	14.4	12.2		
20					14.8	18.6	19.2	18.1	14.0	11.1		
21					13.7	19.1	18.9	18.6	14.7	10.8		
22					13.4	18.6	19.7	18.5	15.0	11.7		
23					14.2	17.2	20.6	18.7	14.1	11.7		
24					16.0	16.4	20.0	19.3	13.3	11.8		
25					17.1	16.4	19.9	19.0	13.1	10.3		
26					17.6	17.4	19.9	18.6	13.2	9.3		
27					16.7	17.8	20.1	17.4	13.7	8.9		
28					15.3	18.1	20.3	17.7	14.1	8.4		
29		—			16.1	18.1	19.9	18.5	13.3	8.6		
30		—			18.4	17.7	19.0	19.7	12.8	8.7		
31		—		—	19.4	—	19.4	19.6	—	7.8	—	
MEAN					15.3	17.5	20.5	18.7	16.0	11.5		
MAX					19.4	20.9	22.7	20.9	19.1	13.6		
MIN					12.1	15.8	18.3	17.4	12.8	7.8		

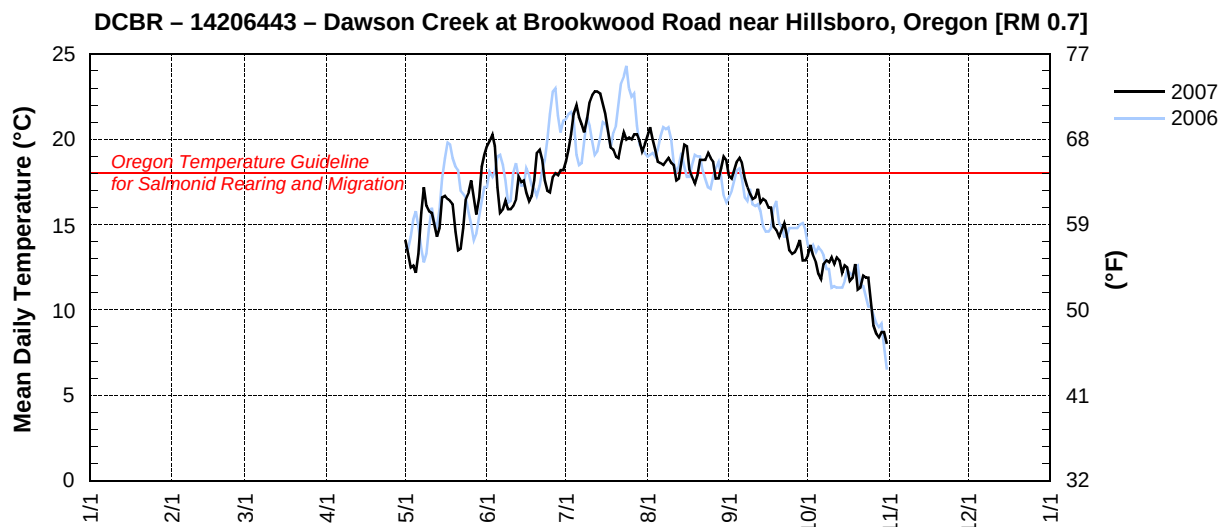


DCBR – 14206443 – DAWSON CREEK AT BROOKWOOD ROAD NEAR HILLSBORO, OREGON [RM 0.7]

Latitude: 45 31 27 Longitude: 122 56 01

Source Agency: District 18 Watermaster

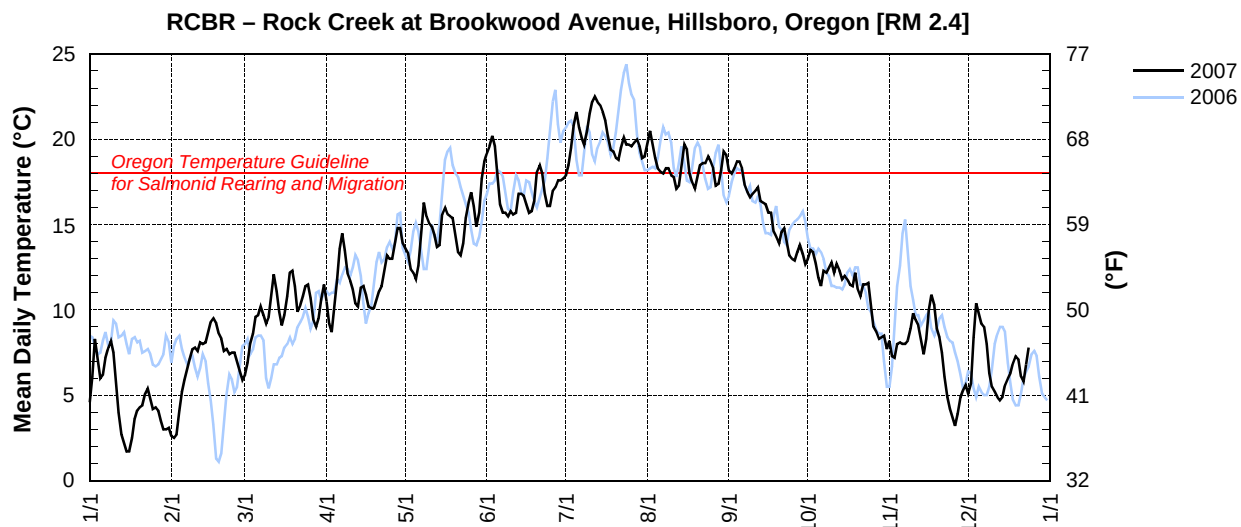
Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					14.1	19.6	18.7	20.2	17.9	13.2		
2					13.3	19.9	19.4	20.7	17.7	13.8		
3					12.5	20.3	20.3	20.0	18.2	13.2		
4					12.6	19.6	21.5	19.4	18.7	12.8		
5					12.2	17.2	22.0	18.7	18.9	12.1		
6					13.3	15.7	21.3	18.6	18.6	11.8		
7					15.7	15.9	20.9	18.5	17.7	12.7		
8					17.2	16.4	20.4	18.7	17.2	12.9		
9					16.1	15.9	21.2	18.9	16.8	12.8		
10					15.8	15.9	22.2	18.6	16.5	13.1		
11					15.7	16.1	22.6	18.5	16.6	12.7		
12					15.0	16.5	22.8	17.6	17.1	13.1		
13					14.3	17.8	22.8	17.7	16.3	12.9		
14					14.8	17.5	22.7	18.7	16.5	12.2		
15					16.6	17.6	22.1	19.7	16.4	12.6		
16					16.7	16.9	21.5	19.6	16.0	12.5		
17					16.5	16.4	20.6	18.2	16.0	11.7		
18					16.4	16.7	19.5	17.8	14.9	11.9		
19					16.2	17.6	19.4	17.4	14.7	12.7		
20					14.6	19.2	19.0	17.9	14.3	11.2		
21					13.5	19.4	18.9	18.8	14.7	11.3		
22					13.6	18.8	19.7	18.8	15.1	12.0		
23					14.8	17.6	20.4	18.8	14.4	11.9		
24					16.5	17.0	20.0	19.2	13.5	11.9		
25					16.9	16.9	20.1	18.9	13.3	10.4		
26					17.6	17.8	20.0	18.7	13.4	9.1		
27					16.6	18.0	20.3	17.7	13.7	8.6		
28					15.6	17.9	20.3	17.7	14.1	8.4		
29		—			16.6	18.2	19.9	18.3	12.9	8.7		
30		—			18.4	18.2	19.3	19.0	12.9	8.7		
31		—		—	19.1	—	19.7	18.8	—	8.0	—	
MEAN					15.4	17.6	20.6	18.7	15.8	11.6		
MAX					19.1	20.3	22.8	20.7	18.9	13.8		
MIN					12.2	15.7	18.7	17.4	12.9	8.0		



STATION NUMBER 453030122560101 ROCK CREEK AT BROOKWOOD AVENUE, HILLSBORO, OR.

LATITUDE: 453029.5 LONGITUDE: 1225600.6

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	4.6	2.6	6.2	10.6	13.6	19.2	17.9	19.7	18.2	13.0	8.2	5.1
2	6.0	2.6	6.9	9.2	13.3	19.6	18.5	20.5	18.0	13.5	7.3	5.6
3	8.3	2.7	8.0	8.7	12.4	20.2	19.5	19.7	18.3	13.4	7.2	8.3
4	7.2	4.1	8.6	10.2	12.2	19.7	20.8	18.9	18.7	12.7	8.0	10.4
5	6.0	5.2	9.5	11.8	11.8	17.9	21.5	18.3	18.7	11.9	8.1	9.8
6	6.2	5.9	9.7	13.6	12.6	16.2	20.7	18.2	18.4	11.4	8.0	9.2
7	7.2	6.5	10.2	14.5	14.6	15.7	20.2	18.0	17.3	12.2	8.0	9.0
8	7.8	7.1	9.7	13.5	16.3	15.7	19.7	18.3	16.9	12.2	8.2	8.1
9	8.2	7.7	9.2	12.1	15.5	15.5	20.5	18.3	16.6	12.5	8.9	6.3
10	7.6	7.8	9.5	11.7	15.1	15.8	21.5	17.9	16.8	12.8	9.8	5.5
11	5.7	7.6	10.7	11.3	14.9	15.6	22.2	17.8	17.0	12.2	9.4	5.2
12	4.1	8.1	12.1	10.4	14.5	15.7	22.5	17.2	17.2	12.7	9.1	4.9
13	2.7	8.0	11.1	10.2	13.7	16.8	22.2	17.2	16.4	12.3	8.4	4.7
14	2.2	8.1	9.9	11.3	13.7	16.8	22.0	18.4	16.3	11.8	7.4	4.9
15	1.7	8.7	9.1	11.4	15.6	16.7	21.6	19.7	16.2	12.0	8.3	5.6
16	1.7	9.3	9.7	10.9	16.0	16.3	21.1	19.4	15.8	11.8	9.9	6.0
17	2.5	9.5	10.8	10.2	15.7	15.7	20.2	18.0	15.7	11.5	10.9	6.3
18	3.6	9.3	12.2	10.1	15.5	15.8	19.5	17.5	14.6	11.4	10.4	6.8
19	4.1	8.6	12.3	10.1	15.4	16.4	19.3	17.1	14.3	12.2	8.9	7.3
20	4.3	8.3	11.5	10.6	14.3	18.1	18.9	17.8	13.9	11.2	8.4	7.1
21	4.4	7.6	9.9	11.1	13.5	18.5	18.8	18.5	14.6	10.8	7.5	6.1
22	5.1	7.7	10.3	11.4	13.2	18.0	19.5	18.6	14.9	11.5	6.2	5.8
23	5.4	7.4	10.8	12.3	13.9	16.8	20.1	18.6	14.0	11.5	4.9	6.8
24	4.8	7.5	11.4	13.2	15.4	16.1	19.7	19.0	13.3	11.6	4.2	
25	4.2	7.5	11.5	13.0	16.3	16.1	19.7	18.8	13.0	10.2	3.7	
26	4.3	7.1	10.8	13.0	16.9	16.9	19.6	18.3	12.9	9.1	3.2	
27	4.1	6.4	9.4	14.0	16.1	17.2	19.8	17.3	13.4	8.7	3.9	
28	3.5	5.9	9.0	14.8	14.9	17.6	20.0	17.4	13.8	8.3	4.9	
29	3.0	—	9.5	14.8	15.7	17.7	19.6	18.1	13.3	8.4	5.3	
30	3.0	—	10.6	14.0	17.6	17.7	18.9	19.3	12.7	8.5	5.6	
31	3.1	—	11.5	—	18.7	—	19.0	19.1	—	7.7	—	
MEAN	4.7	7.0	10.0	11.8	14.8	17.1	20.2	18.4	15.7	11.3	7.4	6.7
MAX	8.3	9.5	12.3	14.8	18.7	20.2	22.5	20.5	18.7	13.5	10.9	10.4
MIN	1.7	2.6	6.2	8.7	11.8	15.5	17.9	17.1	12.7	7.7	3.2	4.7

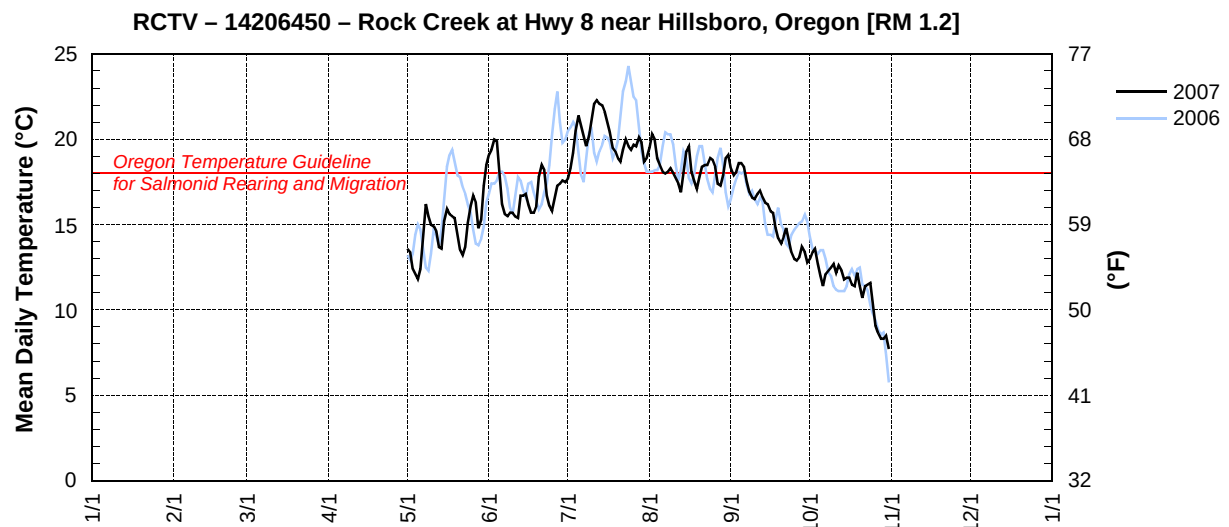
[†] Provisional data—subject to revision; e= estimated value

RCTV – 14206450 – ROCK CREEK AT HWY 8 NEAR HILLSBORO, OREGON [RM 1.2]

Latitude: 45 30 08 Longitude: 122 56 52

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					13.6	19.1	17.7	19.5	18.3	13.0		
2					13.4	19.4	18.3	20.3	17.9	13.4		
3					12.4	20.0	19.2	20.0	18.1	13.6		
4					12.1	19.9	20.5	18.9	18.6	12.7		
5					11.8	18.2	21.4	18.5	18.6	12.0		
6					12.4	16.2	20.8	18.1	18.4	11.4		
7					14.3	15.6	20.2	18.0	17.5	12.1		
8					16.2	15.5	19.6	18.1	16.9	12.3		
9					15.5	15.7	20.2	18.3	16.6	12.5		
10					15.0	15.7	21.2	18.0	16.5	12.7		
11					14.9	15.5	22.1	17.7	16.8	12.2		
12					14.6	15.4	22.3	17.4	17.0	12.6		
13					13.7	16.7	22.1	16.9	16.6	12.3		
14					13.6	16.7	22.0	18.0	16.3	11.8		
15					15.2	16.8	21.6	19.3	16.2	11.9		
16					15.9	16.2	21.0	19.6	15.8	11.9		
17					15.6	15.7	20.4	18.1	15.7	11.5		
18					15.5	15.7	19.5	17.6	14.8	11.4		
19					15.4	16.1	19.3	17.1	14.2	12.2		
20					14.4	17.8	18.9	17.8	13.9	11.4		
21					13.5	18.5	18.7	18.4	14.3	10.7		
22					13.2	18.2	19.4	18.5	14.8	11.4		
23					13.7	16.7	20.0	18.5	14.1	11.5		
24					15.1	16.1	19.6	18.9	13.4	11.6		
25					16.1	15.8	19.4	18.8	13.0	10.3		
26					16.7	16.6	19.7	18.4	12.9	9.1		
27					16.3	17.3	19.6	17.4	13.1	8.6		
28					14.8	17.4	20.1	17.3	13.7	8.3		
29		—			15.3	17.6	19.8	17.9	13.4	8.3		
30		—			17.3	17.5	18.7	18.9	12.8	8.5		
31		—		—	18.5	—	18.9	19.1	—	7.7	—	
MEAN					14.7	17.0	20.1	18.4	15.7	11.3		
MAX					18.5	20.0	22.3	20.3	18.6	13.6		
MIN					11.8	15.4	17.7	16.9	12.8	7.7		

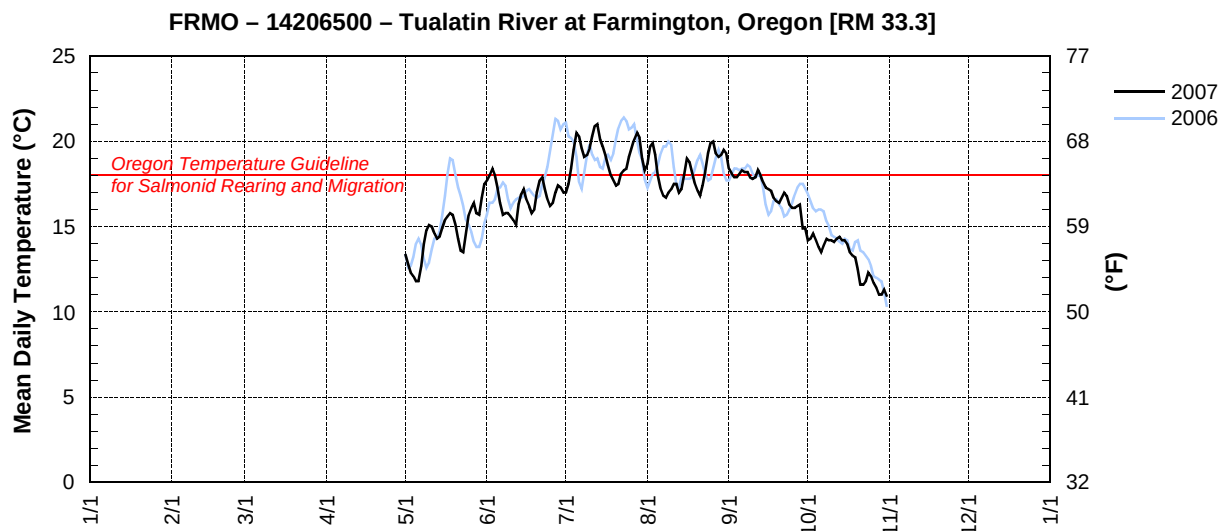


FRMO – 14206500 – TUALATIN RIVER AT FARMINGTON, OREGON [RM 33.3]

Latitude: 45 26 58 Longitude: 122 57 02

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					13.4	17.7	17.0	18.7	18.4	14.2		
2					12.8	18.0	17.5	19.7	18.1	14.3		
3					12.3	18.4	18.4	19.9	17.9	14.6		
4					12.1	18.0	19.5	19.2	17.9	14.2		
5					11.8	17.3	20.5	18.0	18.1	13.8		
6					11.8	16.4	20.3	17.2	18.3	13.5		
7					12.7	15.7	19.6	16.8	18.2	13.9		
8					14.0	15.8	19.1	16.7	18.2	14.3		
9					14.8	15.8	19.2	17.0	17.9	14.2		
10					15.1	15.6	19.6	17.2	17.8	14.2		
11					15.0	15.4	20.3	17.5	17.9	14.1		
12					14.6	15.1	20.9	17.5	18.3	14.3		
13					14.3	16.3	21.0	17.0	18.0	14.4		
14					14.4	16.9	20.1	17.2	17.6	14.2		
15					14.9	17.2	19.7	18.1	17.3	14.2		
16					15.4	16.6	19.2	19.0	17.2	14.0		
17					15.6	16.2	18.6	18.8	17.1	13.5		
18					15.8	15.8	18.0	18.2	16.7	13.3		
19					15.7	16.0	17.7	17.5	16.5	13.2		
20					15.1	17.0	17.4	17.1	16.4	12.5		
21					14.3	17.7	17.5	16.8	16.7	11.6		
22					13.6	17.9	18.1	17.4	17.0	11.6		
23					13.5	17.2	18.3	18.2	16.8	11.8		
24					14.5	16.6	18.4	19.3	16.3	12.3		
25					15.7	16.2	19.1	19.9	16.1	12.1		
26					16.1	16.4	19.6	20.0	16.1	11.7		
27					16.4	17.0	20.1	19.3	16.2	11.4		
28					15.8	17.4	20.5	19.1	16.3	11.0		
29		—			15.7	17.3	20.2	19.2	14.9	11.0		
30		—			16.7	17.0	19.0	19.5	14.9	11.3		
31		—		—	17.5	—	18.3	19.3	—	10.9	—	
MEAN					14.6	16.7	19.1	18.3	17.2	13.1		
MAX					17.5	18.4	21.0	20.0	18.4	14.6		
MIN					11.8	15.1	17.0	16.7	14.9	10.9		

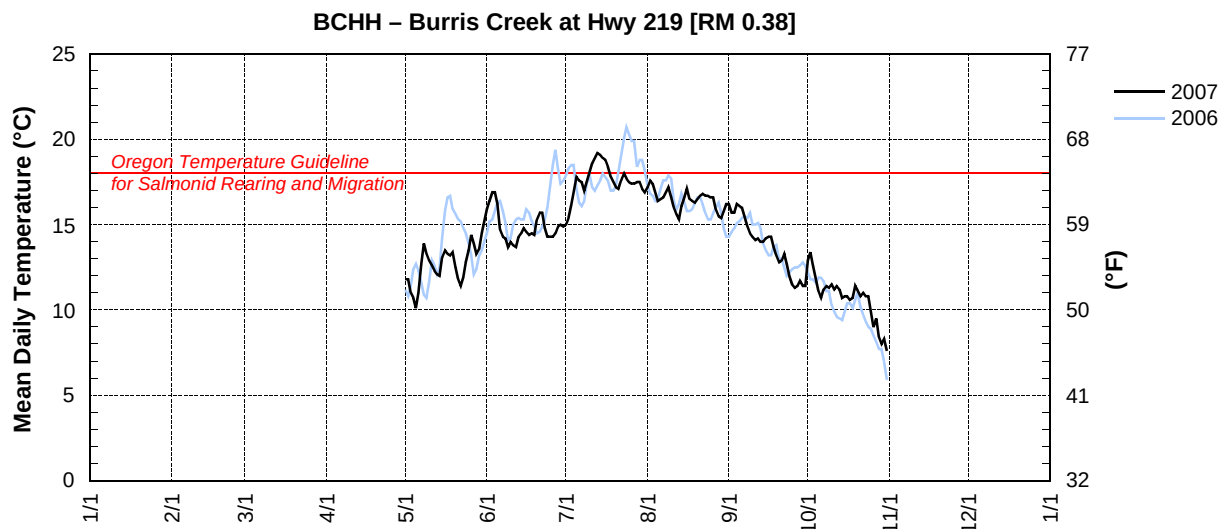


BCHH – BURRIS CREEK AT HWY 219 [RM 0.38]

Latitude: 45 25 34 Longitude: 122 57 40

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					11.8	15.9	15.0	17.2	16.2	12.9		
2					11.8	16.4	15.4	17.6	15.7	13.4		
3					11.0	16.9	16.1	17.4	15.7	12.6		
4					10.7	16.9	16.9	16.9	16.2	11.8		
5					10.1	16.2	17.8	16.4	16.1	11.1		
6					11.0	14.7	17.6	16.5	16.0	10.7		
7					12.7	14.3	17.5	16.6	15.4	11.2		
8					13.9	14.2	17.0	16.9	14.9	11.4		
9					13.3	13.7	17.6	17.2	14.5	11.3		
10					12.9	14.0	18.1	16.6	14.3	11.5		
11					12.6	13.8	18.6	16.0	14.1	11.2		
12					12.3	13.7	18.9	15.6	14.2	11.4		
13					12.1	14.3	19.2	15.3	14.0	11.2		
14					12.0	14.5	19.1	16.1	14.0	10.7		
15					13.1	14.8	18.9	16.6	14.2	10.8		
16					13.5	14.6	18.8	17.1	14.3	10.8		
17					13.3	14.4	18.4	16.5	14.3	10.6		
18					13.2	14.5	17.8	16.4	13.7	10.7		
19					13.4	14.4	17.5	16.3	13.2	11.4		
20					12.5	15.3	17.2	16.5	12.8	11.1		
21					11.8	15.7	17.1	16.7	12.9	10.8		
22					11.4	15.7	17.6	16.8	13.3	11.0		
23					11.9	14.8	18.0	16.7	12.7	10.8		
24					12.8	14.3	17.7	16.7	12.0	10.8		
25					13.5	14.3	17.5	16.6	11.5	9.9		
26					14.4	14.3	17.4	16.6	11.3	9.0		
27					13.9	14.5	17.4	15.9	11.4	9.5		
28					13.3	14.9	17.5	15.5	11.7	8.4		
29		—			13.6	15.0	17.5	15.4	11.4	8.0		
30		—			14.5	14.9	17.1	15.8	11.4	8.3		
31		—		—	15.2	—	16.9	16.2	—	7.6	—	
MEAN					12.7	14.9	17.6	16.5	13.8	10.7		
MAX					15.2	16.9	19.2	17.6	16.2	13.4		
MIN					10.1	13.7	15.0	15.3	11.3	7.6		

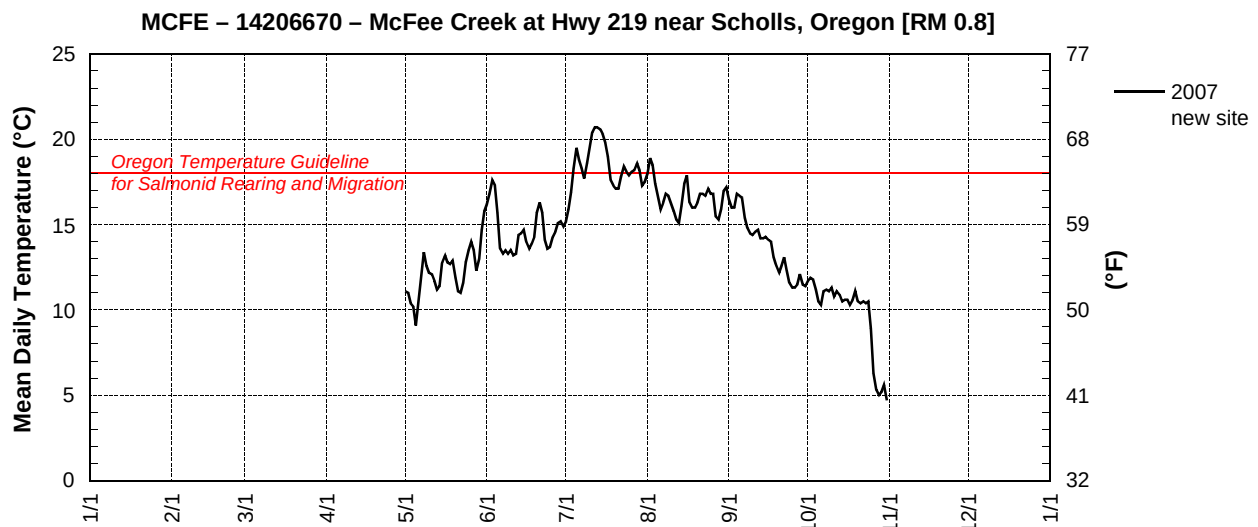


MCFE – 14206670 – MCFEE CREEK AT HWY 219 NEAR SCHOLLS, OREGON [RM 0.8]

Latitude: 45 24 19 Longitude: 122 56 19

Source Agency: District 18 Watermaster

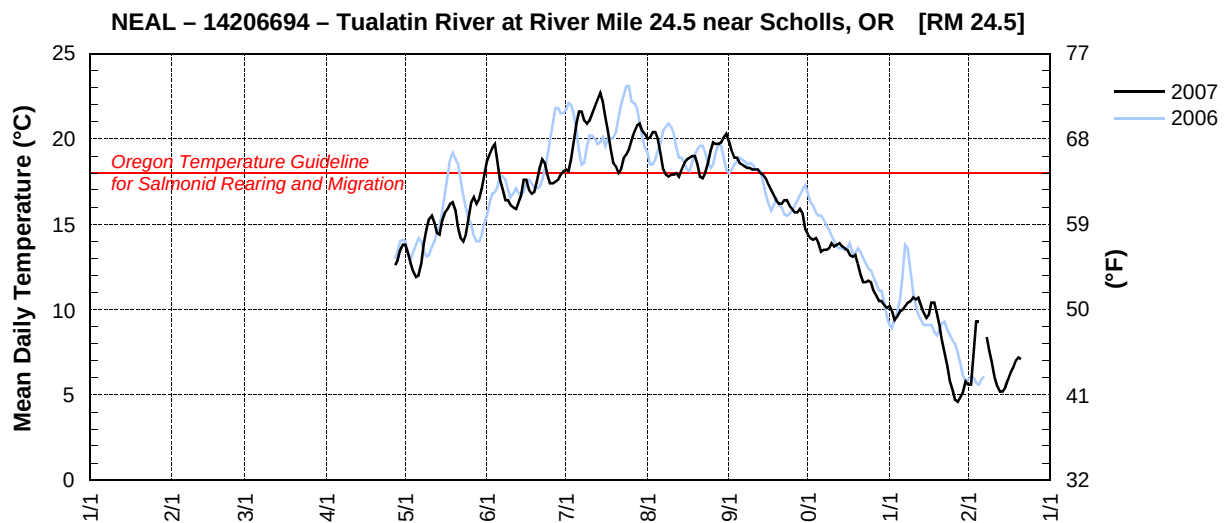
Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					11.1	16.2	15.2	18.0	16.5	11.7		
2					11.0	16.8	15.9	18.9	16.0	11.9		
3					10.4	17.6	16.9	18.5	16.0	11.8		
4					10.2	17.3	18.3	17.4	16.8	11.2		
5					9.1	15.7	19.5	16.7	16.7	10.5		
6					10.4	13.6	18.8	15.9	16.6	10.3		
7					12.0	13.3	18.3	16.3	15.4	11.1		
8					13.4	13.5	17.7	16.8	14.8	11.2		
9					12.6	13.3	18.6	16.7	14.5	11.1		
10					12.2	13.5	19.5	16.2	14.4	11.3		
11					12.1	13.2	20.4	15.8	14.6	10.8		
12					11.7	13.3	20.7	15.3	14.7	11.1		
13					11.2	14.4	20.7	15.1	14.2	10.9		
14					11.4	14.5	20.6	16.1	14.2	10.5		
15					12.8	14.7	20.3	17.4	14.3	10.6		
16					13.2	14.0	19.8	17.9	14.1	10.6		
17					12.8	13.6	19.0	16.3	14.0	10.3		
18					12.7	13.9	17.6	16.0	13.1	10.6		
19					12.9	14.3	17.3	16.0	12.6	11.1		
20					11.9	15.7	17.1	16.3	12.2	10.5		
21					11.1	16.3	17.1	16.8	12.6	10.4		
22					11.0	15.7	17.8	16.8	13.1	10.5		
23					11.6	14.1	18.4	16.7	12.3	10.4		
24					12.8	13.6	18.1	17.1	11.6	10.5		
25					13.5	13.7	17.9	16.8	11.3	8.9		
26					14.0	14.3	18.1	16.8	11.3	6.3		
27					13.5	14.6	18.2	15.5	11.5	5.3		
28					12.3	15.1	18.6	15.3	12.1	5.0		
29		—			13.0	15.2	18.2	15.9	11.5	5.2		
30		—			14.7	14.9	17.3	17.0	11.4	5.6		
31		—		—	15.8	—	17.5	17.2	—	4.7	—	
MEAN					12.2	14.7	18.4	16.6	13.8	9.7		
MAX					15.8	17.6	20.7	18.9	16.8	11.9		
MIN					9.1	13.2	15.2	15.1	11.3	4.7		



STATION NUMBER 14206694 TUALATIN RIVER AT RIVER MILE 24.5, NR SCHOLLS, OR

LATITUDE: 452406 LONGITUDE: 1225338

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1					13.8	18.7	18.2	20.0	19.9	14.4	10.2	5.6
2					13.4	19.1	18.1	20.1	19.3	14.2	10.0	5.6
3					12.7	19.5	18.7	20.4	18.9	14.1	9.4	7.4
4					12.3	19.7	19.8	20.4	18.9	14.2	9.6	9.3
5					11.9	18.7	20.9	20.0	18.6	13.9	9.9	
6					12.0	17.7	21.6	19.1	18.5	13.4	10.0	
7					12.7	17.0	21.6	18.2	18.4	13.5	10.2	
8					13.9	16.4	21.1	17.9	18.3	13.5	10.4	
9					14.7	16.4	20.9	17.8	18.3	13.6	10.5	7.7
10					15.2	16.1	21.1	17.9	18.3	13.9	10.7	6.9
11					15.5	16.0	21.5	17.9	18.2	13.7	10.6	6.0
12					15.2	15.9	21.9	18.0	18.2	13.8	10.7	5.5
13					14.5	16.3	22.3	17.8	18.0	13.9	10.4	5.2
14					14.4	16.7	22.7	18.2	17.9	13.7	9.8	5.2
15					15.2	17.6	22.2	18.6	17.7	13.6	9.5	5.4
16					15.7	17.6	21.3	18.8	17.3	13.5	9.7	5.9
17					15.9	17.0	20.5	18.9	17.0	13.2	10.4	6.3
18					16.2	16.8	19.5	19.0	16.7	13.1	10.5	6.6
19					16.3	16.9	18.7	19.0	16.4	13.2	9.9	7.0
20					15.8	17.5	18.4	18.5	16.2	12.7	9.1	7.2
21					14.9	18.3	18.1	17.8	16.2	12.1	8.2	
22					14.2	18.8	18.2	17.7	16.4	11.6	7.5	
23					14.0	18.6	18.9	18.0	16.4	11.6	6.7	
24					14.4	17.9	19.1	18.6	16.1	11.7	5.8	
25					15.3	17.4	19.4	19.3	15.9	11.6	5.3	
26					16.3	17.4	19.9	19.8	15.7	11.2	4.7	
27					16.7	17.5	20.3	19.7	15.7	10.8	4.6	
28				12.9	16.2	17.6	20.8	19.7	15.9	10.5	4.9	
29		—		13.5	16.5	17.9	20.9	19.8	15.7	10.5	5.2	
30		—		13.8	17.1	18.1	20.5	20.1	14.8	10.3	5.8	
31		—		—	17.9	—	20.3	20.3	—	10.1	—	
MEAN				13.4	14.9	17.6	20.2	18.9	17.3	12.7	8.7	6.4
MAX				13.8	17.9	19.7	22.7	20.4	19.9	14.4	10.7	9.3
MIN				12.9	11.9	15.9	18.1	17.7	14.8	10.1	4.6	5.2

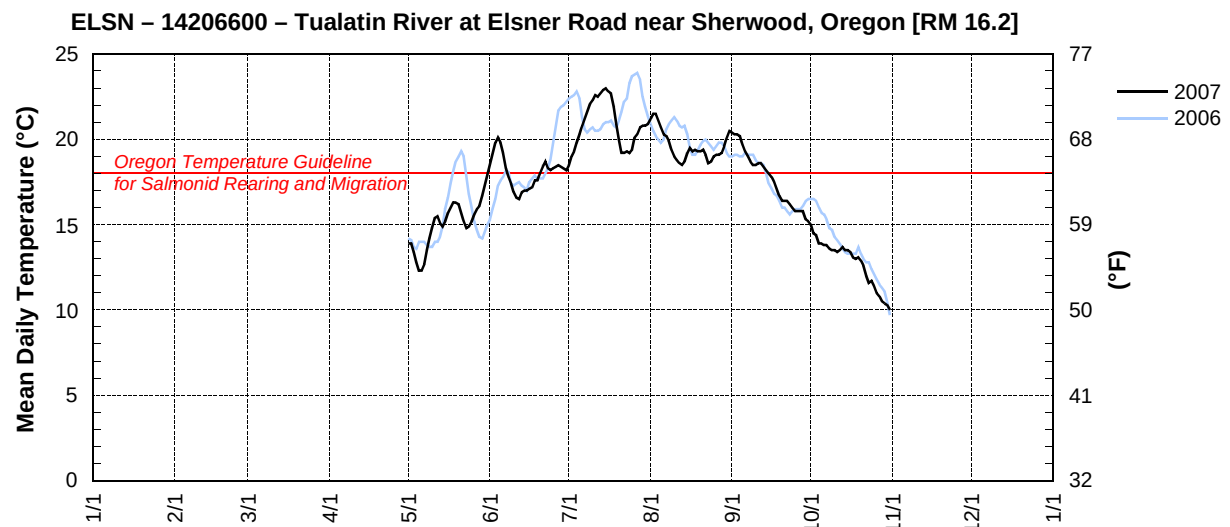
[†] Provisional data—subject to revision

ELSN – 14206600 – TUALATIN RIVER AT ELSNER ROAD NEAR SHERWOOD, OREGON [RM 16.2]

Latitude: 45 23 17 Longitude: 122 51 03

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					13.9	18.5	18.5	21.2	20.4	15.0		
2					13.9	19.1	19.0	21.5	20.3	14.5		
3					13.4	19.8	19.3	21.5	20.3	14.4		
4					12.8	20.1	19.8	21.1	20.2	13.9		
5					12.3	19.8	20.3	20.7	19.7	13.9		
6					12.3	19.2	20.8	20.3	19.3	13.8		
7					12.7	18.3	21.2	20.2	19.0	13.8		
8					13.5	17.8	21.6	19.9	18.7	13.6		
9					14.2	17.4	22.1	19.4	18.5	13.5		
10					14.8	16.9	22.3	19.0	18.5	13.5		
11					15.4	16.6	22.6	18.8	18.6	13.4		
12					15.5	16.5	22.5	18.6	18.6	13.5		
13					15.1	16.9	22.7	18.5	18.4	13.7		
14					14.9	17.0	22.9	18.7	18.2	13.5		
15					15.2	17.0	23.0	19.2	18.0	13.5		
16					15.7	17.1	22.8	19.5	17.8	13.4		
17					16.0	17.2	22.7	19.3	17.5	13.1		
18					16.3	17.6	21.9	19.4	17.1	13.0		
19					16.3	17.6	20.9	19.3	16.7	13.1		
20					16.2	18.0	20.0	19.3	16.4	12.9		
21					15.7	18.4	19.2	19.4	16.4	12.6		
22					15.2	18.7	19.2	19.1	16.4	12.0		
23					14.8	18.3	19.3	18.6	16.2	11.6		
24					14.9	18.2	19.2	18.7	16.0	11.7		
25					15.2	18.3	19.4	19.0	15.8	11.4		
26					15.6	18.4	20.1	19.1	15.8	11.0		
27					15.9	18.5	20.3	19.1	15.8	10.8		
28					16.1	18.4	20.7	19.2	15.8	10.5		
29		—			16.7	18.3	20.8	19.6	15.3	10.4		
30		—			17.3	18.2	20.8	20.1	15.2	10.3		
31		—		—	17.9	—	20.9	20.5	—	10.0	—	
MEAN					15.0	18.1	20.9	19.6	17.7	12.8		
MAX					17.9	20.1	23.0	21.5	20.4	15.0		
MIN					12.3	16.5	18.5	18.5	15.2	10.0		

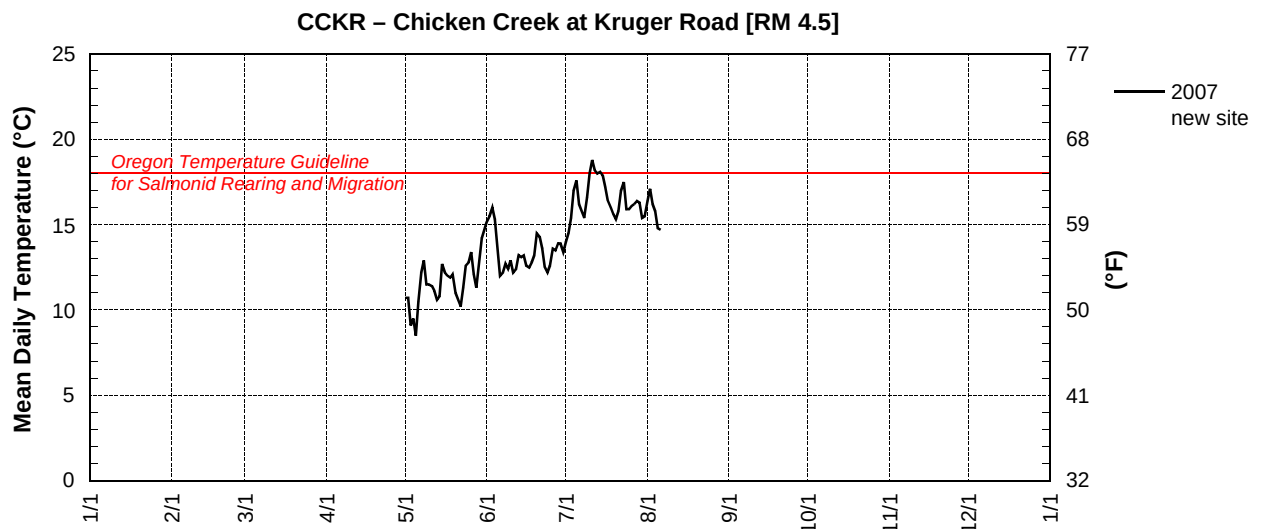


CCKR – CHICKEN CREEK AT KRUGER ROAD [RM 4.5]

Latitude: 45 22 05 Longitude: 122 51 22

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					10.7	15.2	14.0	16.4				
2					10.7	15.5	14.5	17.1				
3					9.1	16.0	15.4	16.2				
4					9.5	15.3	17.0	15.8				
5					8.5	13.5	17.6	14.8				
6					10.5	12.0	16.2	14.7				
7					12.2	12.2	15.8					
8					12.9	12.7	15.4					
9					11.5	12.4	16.6					
10					11.5	12.9	18.0					
11					11.4	12.2	18.8					
12					11.1	12.4	18.2					
13					10.6	13.2	18.0					
14					10.8	13.1	18.1					
15					12.7	13.2	17.9					
16					12.2	12.6	17.2					
17					12.0	12.5	16.4					
18					11.9	12.8	16.0					
19					12.1	13.2	15.6					
20					11.0	14.5	15.3					
21					10.6	14.3	15.8					
22					10.2	13.6	17.0					
23					11.3	12.5	17.5					
24					12.6	12.2	15.9					
25					12.8	12.6	15.9					
26					13.4	13.6	16.1					
27					12.1	13.5	16.2					
28					11.3	13.9	16.4					
29		—			12.9	13.9	16.3					
30		—			14.2	13.4	15.4					
31		—		—	14.7	—	15.5				—	
MEAN					11.6	13.4	16.5					
MAX					14.7	16.0	18.8					
MIN					8.5	12.0	14.0					

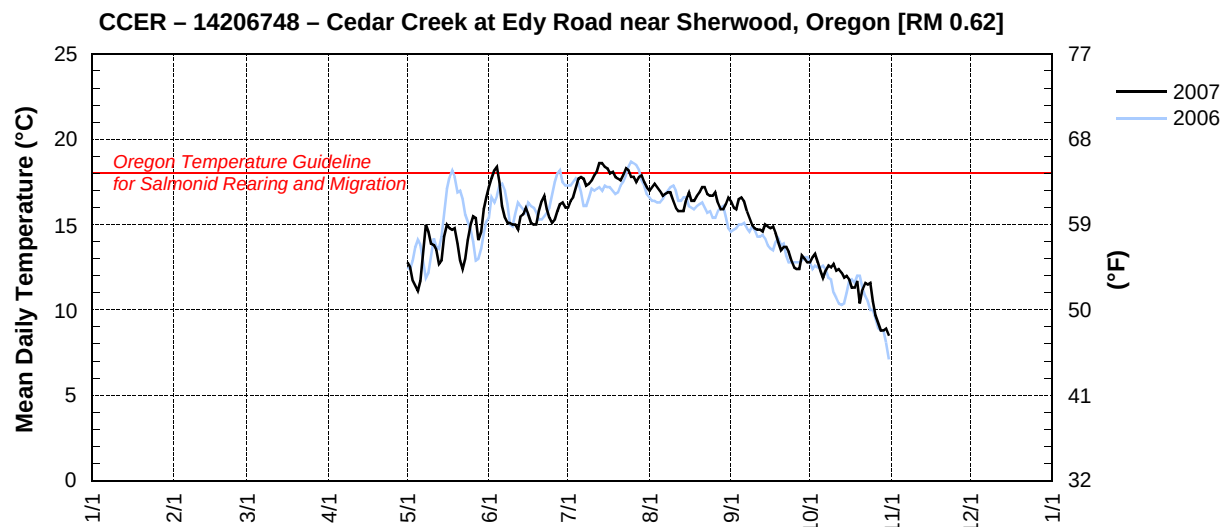


CCER – 14206748 – CEDAR CREEK AT EDY ROAD NEAR SHERWOOD, OREGON [RM 0.62]

Latitude: 45 22 05 Longitude: 122 51 22

Source Agency: District 18 Watermaster

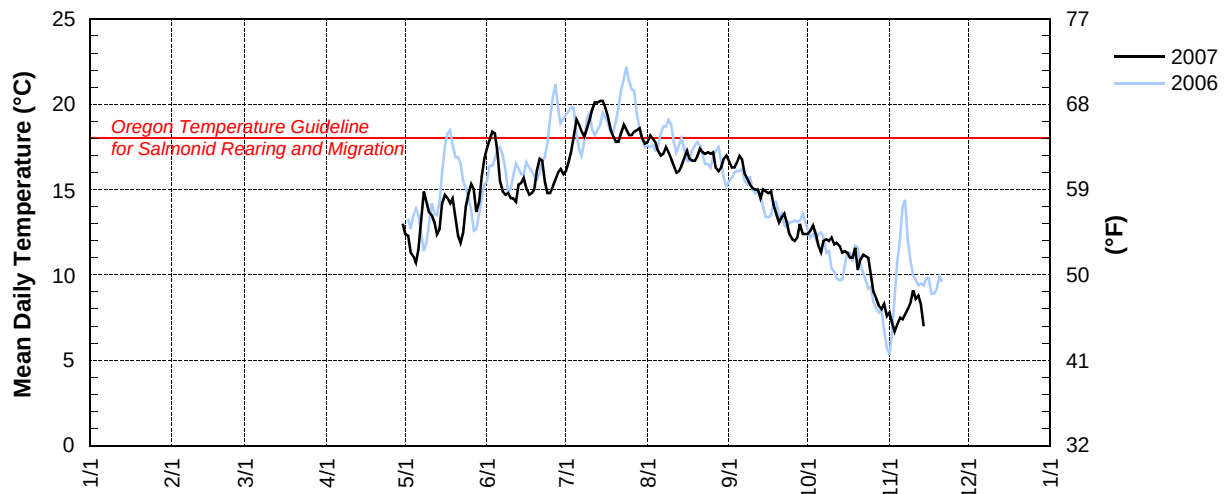
Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					12.8	17.2	16.0	17.0	16.4	12.8		
2					12.5	17.7	16.4	17.2	16.0	13.1		
3					11.7	18.2	16.6	17.4	15.9	13.3		
4					11.4	18.4	17.1	17.2	16.5	12.8		
5					11.1	17.5	17.7	17.0	16.6	12.3		
6					11.7	16.1	17.8	16.7	16.4	11.9		
7					13.5	15.4	17.7	16.8	15.8	12.3		
8					15.0	15.1	17.3	16.9	15.4	12.6		
9					14.6	15.1	17.4	16.9	15.0	12.5		
10					13.9	15.0	17.6	16.4	14.8	12.7		
11					13.8	15.0	17.9	16.0	14.7	12.3		
12					13.5	14.7	18.1	15.8	14.7	12.4		
13					12.7	15.5	18.6	15.8	14.6	12.2		
14					12.9	15.6	18.6	15.8	15.0	11.9		
15					14.3	16.0	18.4	16.5	14.9	12.0		
16					15.0	15.6	18.3	16.9	14.8	11.8		
17					14.8	15.1	18.0	16.4	14.9	11.3		
18					14.7	15.0	18.1	16.4	14.5	11.3		
19					14.8	15.0	17.8	16.7	14.0	11.7		
20					13.9	15.8	17.7	16.9	13.5	10.4		
21					12.9	16.4	17.6	17.2	13.7	11.2		
22					12.4	16.7	17.9	17.2	13.7	11.6		
23					13.0	15.9	18.3	16.8	13.4	11.5		
24					14.1	15.4	18.2	16.7	12.9	11.6		
25					15.0	15.1	17.8	16.7	12.5	10.5		
26					15.5	15.3	17.8	16.9	12.4	9.7		
27					15.4	15.8	17.5	16.3	12.4	9.2		
28					14.1	16.2	17.8	15.9	13.2	8.8		
29		—			14.6	16.3	17.9	15.9	13.0	8.8		
30		—			15.9	16.0	17.5	16.2	12.8	8.9		
31		—		—	16.6	—	17.2	16.6	—	8.5	—	
MEAN					13.8	15.9	17.7	16.6	14.5	11.4		
MAX					16.6	18.4	18.6	17.4	16.6	13.3		
MIN					11.1	14.7	16.0	15.8	12.4	8.5		



STATION NUMBER 452230122512201* CHICKEN CREEK AT SCHOLLS-SHERWOOD HWY, SHERWOOD OR

LATITUDE: 452230.09 LONGITUDE: 1225121.76

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1					12.4	17.4	16.1	17.8	16.7	12.4	7.8	
2					12.3	17.9	16.6	18.2	16.3	12.6	7.2	
3					11.4	18.4	17.2	18.1	16.3	12.9	6.8	
4					11.1	18.3	18.1	17.8	16.6	12.4	7.1	
5					10.7	17.2	19.1	17.3	17.0	11.7	7.5	
6					11.5	15.6	18.8	17.0	16.8	11.3	7.4	
7					13.3	14.9	18.4	17.1	15.9	12.0	7.7	
8					14.9	14.7	18.1	17.5	15.6	12.1	8.0	
9					14.3	14.8	18.5	17.2	15.3	12.0	8.4	
10					13.7	14.5	19.1	16.8	15.1	12.2	9.1	
11					13.5	14.5	19.7	16.4	15.0	11.8	8.7	
12					13.1	14.3	20.1	16.0	15.0	11.9	8.8	
13					12.4	15.3	20.1	16.1	14.5	11.7	8.3	
14					12.6	15.4	20.2	16.4	15.0	11.3		
15					14.2	15.7	20.2	16.9	14.9	11.4		
16					14.7	15.1	19.9	17.3	14.8	11.3		
17					14.5	14.7	19.3	16.8	14.9	11.0		
18					14.2	14.8	18.5	16.7	14.1	11.0		
19					14.5	15.0	18.1	16.7	13.6	11.6		
20					13.4	16.1	17.8	17.0	13.1	10.3		
21					12.3	16.8	17.8	17.4	13.4	10.9		
22					11.9	16.7	18.3	17.3	13.6	11.2		
23					12.5	15.5	18.8	17.1	13.1	11.1		
24					13.9	14.8	18.5	17.2	12.4	11.0		
25					14.8	14.8	18.2	17.1	12.1	10.0		
26					15.3	15.2	18.3	17.2	12.0	9.1		
27					15.0	15.6	18.4	16.3	12.2	8.6		
28					13.7	16.0	18.5	16.1	13.0	8.2		
29		—			14.2	16.2	18.6	16.3	12.4	8.0		
30		—			15.8	15.9	18.0	16.8	12.4	8.3		
31		—		—	16.8	—	17.7	17.0	—	7.6	—	
MEAN					13.5	15.7	18.5	17.0	14.4	10.9		
MAX					16.8	18.4	20.2	18.2	17.0	12.9		
MIN					10.7	14.3	16.1	16.0	12.0	7.6		

[†] Provisional data—subject to revision**CCSR – 452230122512201* – Chicken Creek at Scholls-Sherwood Road near Sherwood, Oregon [RM 2.3]**

*USGS #452230122512201 is equivalent to OWRD #14206750.

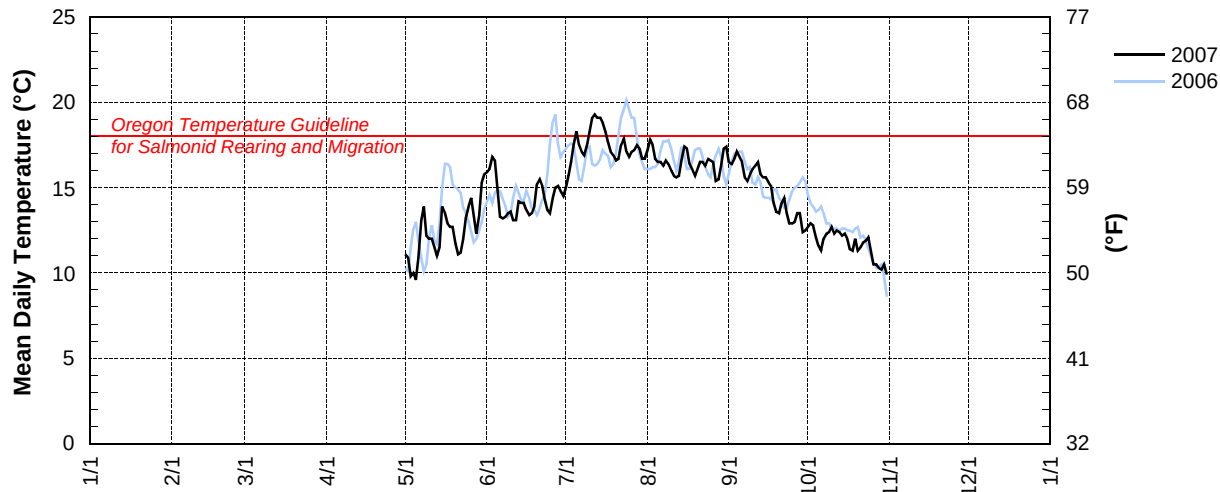
SCRL – 14206905 – SYLVAN CREEK AT RALEIGHWOOD LANE NEAR WEST SLOPE, OREGON [RM 1.0]

Latitude: 45 29 35 Longitude: 122 44 48

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					11.1	15.9	15.0	17.2	16.5	12.7		
2					10.9	16.1	15.7	17.8	16.4	12.9		
3					9.8	16.8	16.5	17.5	16.7	12.8		
4					10.0	16.6	17.5	16.7	17.1	12.1		
5					9.6	14.9	18.3	16.5	16.8	11.6		
6					10.9	13.3	17.5	16.5	16.5	11.3		
7					13.1	13.2	17.1	16.3	15.6	12.0		
8					13.9	13.3	16.9	16.6	15.4	12.3		
9					12.2	13.5	17.5	16.4	15.8	12.4		
10					12.0	13.6	18.3	16.0	16.1	12.7		
11					12.0	13.1	19.1	15.7	16.3	12.3		
12					11.5	13.1	19.3	15.6	16.5	12.5		
13					11.0	14.2	19.1	15.7	15.8	12.4		
14					11.5	14.1	19.1	16.6	15.6	12.2		
15					13.9	14.1	18.8	17.4	15.6	12.3		
16					13.5	13.7	18.3	17.3	15.3	12.0		
17					12.9	13.4	17.7	16.4	15.1	11.4		
18					12.7	13.5	17.1	16.1	14.1	11.3		
19					12.7	13.9	16.9	15.7	13.6	12.0		
20					11.7	15.2	16.6	16.1	13.5	11.3		
21					11.1	15.5	16.7	16.5	14.1	11.5		
22					11.2	15.1	17.5	16.5	14.4	11.8		
23					12.0	14.3	17.9	16.3	13.5	11.9		
24					13.2	13.7	17.1	16.7	12.9	12.1		
25					13.9	13.5	16.8	16.6	12.9	11.3		
26					14.4	14.4	17.1	16.5	13.0	10.5		
27					13.4	15.0	17.2	15.4	13.5	10.5		
28					12.3	15.1	17.5	15.5	13.5	10.3		
29		—			13.4	14.8	17.3	16.3	12.4	10.2		
30		—			15.3	14.5	16.7	17.3	12.5	10.5		
31		—		—	15.8	—	16.7	17.4	—	9.9	—	
MEAN					12.4	14.4	17.4	16.5	14.9	11.7		
MAX					15.8	16.8	19.3	17.8	17.1	12.9		
MIN					9.6	13.1	15.0	15.4	12.4	9.9		

SCRL – 14206905 – Sylvan Creek at Raleighwood Lane near West Slope, Oregon [RM 1.0]

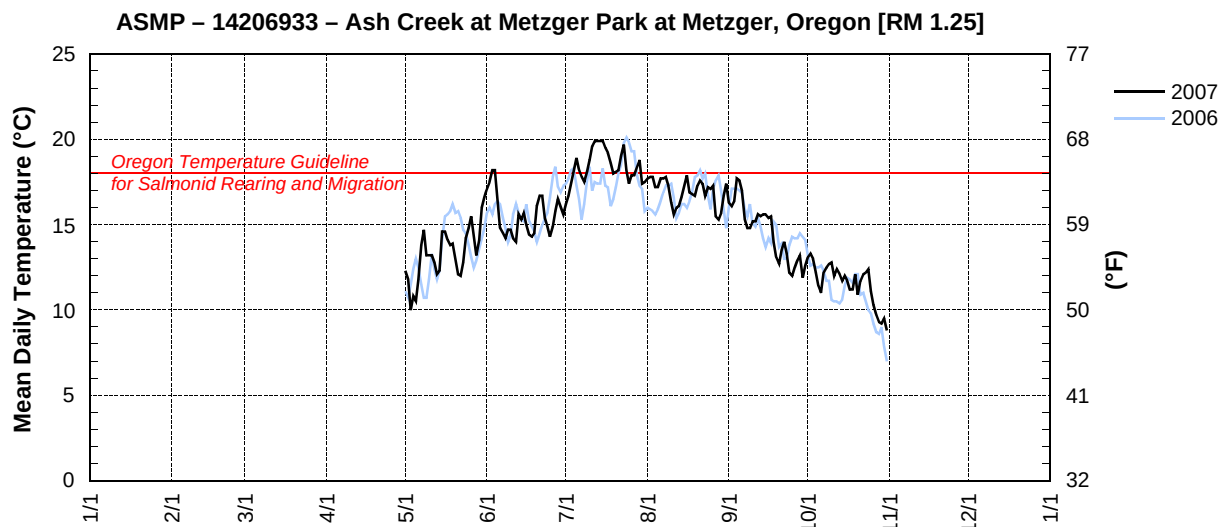


ASMP – 14206933 – ASH CREEK AT METZGER PARK AT METZGER, OREGON [RM 1.25]

Latitude: 45 27 00 Longitude: 122 45 45

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					12.3	17.1	16.2	17.7	16.3	13.1		
2					11.8	17.5	16.7	17.8	16.1	13.3		
3					10.0	18.2	17.4	17.8	16.4	13.0		
4					10.8	18.2	18.1	17.2	17.7	12.2		
5					10.5	16.6	18.9	17.2	17.6	11.4		
6					11.8	14.8	18.2	17.7	17.0	11.0		
7					13.8	14.5	17.8	17.7	15.3	12.2		
8					14.7	14.2	17.5	17.8	14.8	12.5		
9					13.2	14.7	18.1	17.3	14.8	12.7		
10					13.2	14.7	18.8	16.3	15.2	12.8		
11					13.2	14.2	19.6	15.6	15.2	12.0		
12					12.8	14.0	19.9	16.0	15.6	12.4		
13					12.1	15.6	19.9	16.1	15.5	12.1		
14					12.3	15.3	19.9	16.6	15.6	11.7		
15					14.6	15.7	19.9	17.3	15.6	12.0		
16					14.6	15.0	19.5	17.9	15.4	11.7		
17					14.1	14.4	19.2	16.9	15.5	11.2		
18					13.8	14.3	18.6	16.8	14.0	11.2		
19					13.9	14.5	18.0	16.7	13.1	12.1		
20					12.9	16.1	18.1	17.3	12.7	10.9		
21					12.1	16.7	18.2	17.6	13.5	11.7		
22					12.0	16.7	19.0	17.4	14.0	12.1		
23					12.8	15.4	19.7	16.7	13.3	12.2		
24					14.2	14.9	18.2	17.2	12.2	12.4		
25					14.8	14.3	17.4	17.1	12.0	11.1		
26					15.5	14.9	17.9	17.3	12.5	10.3		
27					14.4	15.8	17.9	15.5	12.9	9.7		
28					13.2	16.5	18.4	15.3	13.2	9.3		
29		—			14.1	16.1	18.8	15.7	11.9	9.2		
30		—			16.0	15.6	17.4	16.7	12.6	9.5		
31		—		—	16.6	—	17.5	17.4	—	8.8	—	
MEAN					13.3	15.6	18.4	17.0	14.6	11.5		
MAX					16.6	18.2	19.9	17.9	17.7	13.3		
MIN					10.0	14.0	16.2	15.3	11.9	8.8		

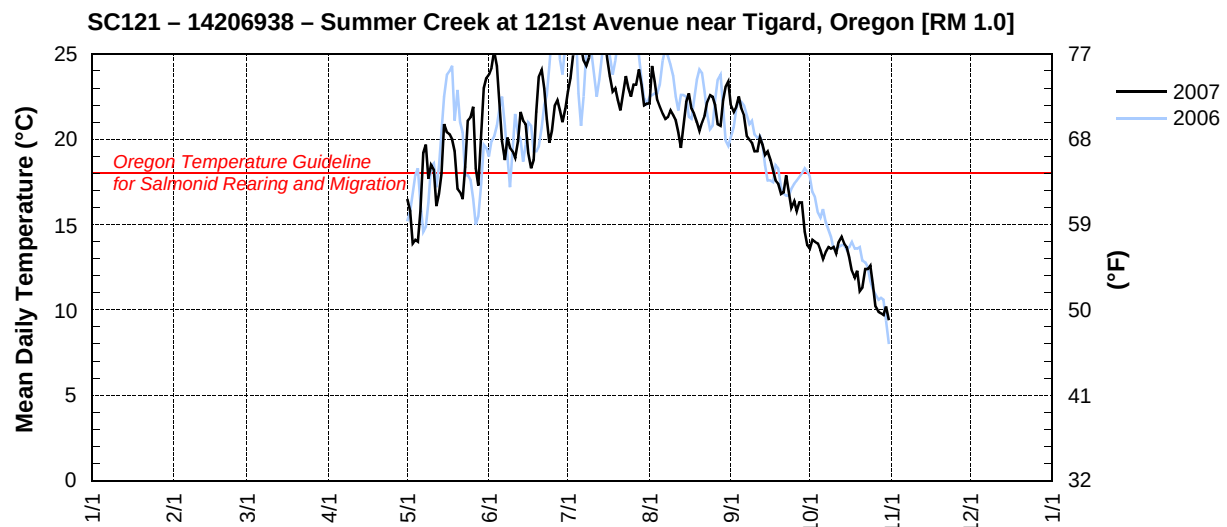


SC121 – 14206938 – SUMMER CREEK AT 121ST AVENUE NEAR TIGARD, OREGON [RM 1.0]

Latitude: 45 26 06 Longitude: 122 47 55

Source Agency: District 18 Watermaster

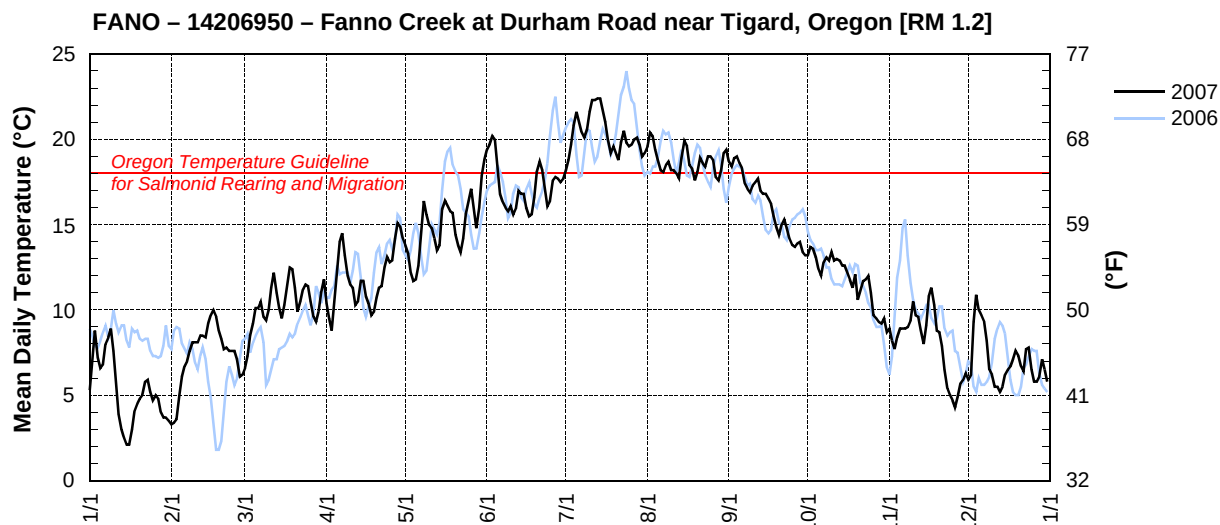
Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					16.5	23.8	22.8	22.1	22.0	13.6		
2					15.8	24.2	23.6	24.3	21.6	14.1		
3					13.9	25.2	24.9	23.4	21.9	14.0		
4					14.1	24.3	26.3	22.3	22.5	13.9		
5					14.0	22.3	26.6	21.9	21.8	13.5		
6					15.8	19.9	25.4	21.5	21.4	13.0		
7					19.2	18.8	24.6	21.2	20.2	13.4		
8					19.7	20.1	24.3	21.3	20.0	13.7		
9					17.7	19.5	24.8	21.7	19.8	13.6		
10					18.5	19.3	25.7	21.4	19.3	13.7		
11					18.2	18.9	26.1	21.1	19.3	13.3		
12					16.1	19.9	25.5	20.4	20.1	14.0		
13					16.8	21.6	26.6	19.5	19.7	14.3		
14					18.0	21.1	26.6	20.8	19.1	13.9		
15					20.9	20.9	25.7	22.2	19.3	13.7		
16					20.4	19.2	24.7	22.7	18.8	13.1		
17					20.3	18.3	23.7	21.8	18.2	12.3		
18					20.0	18.8	22.8	21.5	17.6	11.9		
19					19.3	21.6	23.0	21.0	17.4	12.3		
20					17.1	23.7	22.3	20.5	16.8	11.1		
21					16.9	24.1	21.7	21.0	16.9	11.3		
22					16.5	23.0	22.7	21.4	17.9	12.4		
23					18.4	21.2	23.7	22.2	17.0	12.4		
24					21.1	19.8	23.0	22.6	16.0	12.6		
25					21.3	20.5	22.5	22.5	16.4	11.5		
26					21.9	22.0	23.2	22.0	15.8	10.2		
27					18.3	22.3	23.2	20.9	16.3	9.9		
28					17.3	21.7	24.1	20.8	16.3	9.8		
29		—			20.3	21.0	23.2	22.3	14.6	9.7		
30		—			23.0	21.8	22.0	23.1	13.8	10.2		
31		—		—	23.6	—	22.1	23.4	—	9.4	—	
MEAN					18.4	21.3	24.1	21.8	18.6	12.4		
MAX					23.6	25.2	26.6	24.3	22.5	14.3		
MIN					13.9	18.3	21.7	19.5	13.8	9.4		



STATION NUMBER 14206950 FANNO CREEK AT DURHAM, OR

LATITUDE: 452413 LONGITUDE: 1224513

Water Temperature, degrees Celsius, Calendar Year January to December 2007 Daily Mean Values												
Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	5.2	3.3	6.6	10.5	13.8	19.4	18.1	19.6	18.7	13.2	8.9	5.9
2	7.2	3.4	7.3	9.5	13.3	19.7	18.8	20.4	18.4	13.7	8.2	6.2
3	8.8	3.6	8.5	8.8	12.2	20.2	19.7	20.2	18.9	13.6	7.7	9.2
4	7.2	5.0	9.2	10.4	11.7	20.0	20.8	19.4	19.0	13.1	8.3	10.9
5	6.6	6.1	10.0	12.3	11.8	18.4	21.6	18.8	18.6	12.4	8.9	10.0
6	6.8	6.7	10.1	14.0	12.6	16.8	21.0	18.2	18.3	12.0	8.8	9.7
7	8.0	7.0	10.5	14.6	14.7	16.4	20.4	18.2	17.4	12.8	8.9	9.3
8	8.4	7.6	9.7	13.2	16.3	16.0	20.1	18.4	17.1	13.1	9.0	8.2
9	8.9	8.1	9.4	12.0	15.6	15.8	20.6	18.7	16.9	12.9	9.4	6.5
10	7.6	8.1	10.0	11.6	15.0	16.1	21.6	18.2	17.2	13.4	10.5	6.2
11	6.0	8.1	11.3	11.3	14.8	15.6	22.4	18.2	17.5	13.0	9.7	5.5
12	4.0	8.5	12.2	10.3	14.2	16.0	22.3	18.0	17.7	13.0	9.6	5.5
13	3.0	8.5	11.0	10.5	13.5	17.0	22.4	17.7	17.0	12.9	8.8	5.3
14	2.6	8.4	10.1	11.7	13.8	16.8	22.4	18.9	16.8	12.6		5.5
15	2.1	9.1	9.5	11.7	15.8	16.8	21.8	19.9	16.9	12.6	9.1	6.2
16	2.1	9.7	10.2	10.8	16.4	16.0	21.0		16.5	12.2	10.8	6.4
17	3.0	10.0	11.4	10.4	16.1	15.5	20.0	18.5	16.2		11.3	6.7
18	4.1	9.6	12.5	9.7	15.9	15.6	19.2	18.3	15.5	11.3	10.3	7.1
19	4.5	8.8	12.4	9.9	15.7	16.6	19.6	17.6	14.9	12.1	8.8	7.6
20	4.8	8.3	11.3	10.7	14.5	18.1	19.2	18.1		10.6	8.7	7.4
21	5.0	7.7	9.9	11.3	13.8	18.7	18.8	18.8	15.0	11.1	7.9	6.7
22	5.8	7.8	10.4	11.4	13.4	18.3	19.8	18.6	15.3	11.7	6.5	6.4
23	5.9	7.6	11.2	12.4	14.1	17.2	20.5	18.4	14.8	11.8	5.4	7.7
24		7.6	11.5	13.1	15.6	16.2	19.8	19.0	14.2	12.0	5.0	7.8
25	4.7	7.6	11.4	12.8	16.4	16.3	19.6	19.0	13.8	11.0	4.7	6.6
26	5.0	7.1	10.6	13.0	17.1	17.6	19.7	18.8	13.7	9.7	4.3	5.8
27	4.8	6.1	9.6	14.1	16.0	17.8	20.0	17.8	13.9	9.5	4.9	5.8
28	4.0	6.2	9.3	15.1	14.8	17.8	20.1	17.6	14.0	9.3	5.7	6.1
29	3.7	—	9.9	14.9	15.9	17.5	19.7	18.2	13.4	9.2	5.9	7.0
30	3.7	—	11.0	14.2	17.9	17.7	19.1	19.2	13.2	9.6	6.3	6.6
31	3.5	—	11.8	—	18.8	—	19.2	19.4	—	8.7	—	5.8
MEAN	5.2	7.3	10.3	11.9	14.9	17.3	20.3	18.7	16.2	11.8	8.0	7.0
MAX	8.9	10.0	12.5	15.1	18.8	20.2	22.4	20.4	19.0	13.7	11.3	10.9
MIN	2.1	3.3	6.6	8.8	11.7	15.5	18.1	17.6	13.2	8.7	4.3	5.3

[†] Provisional data—subject to revision

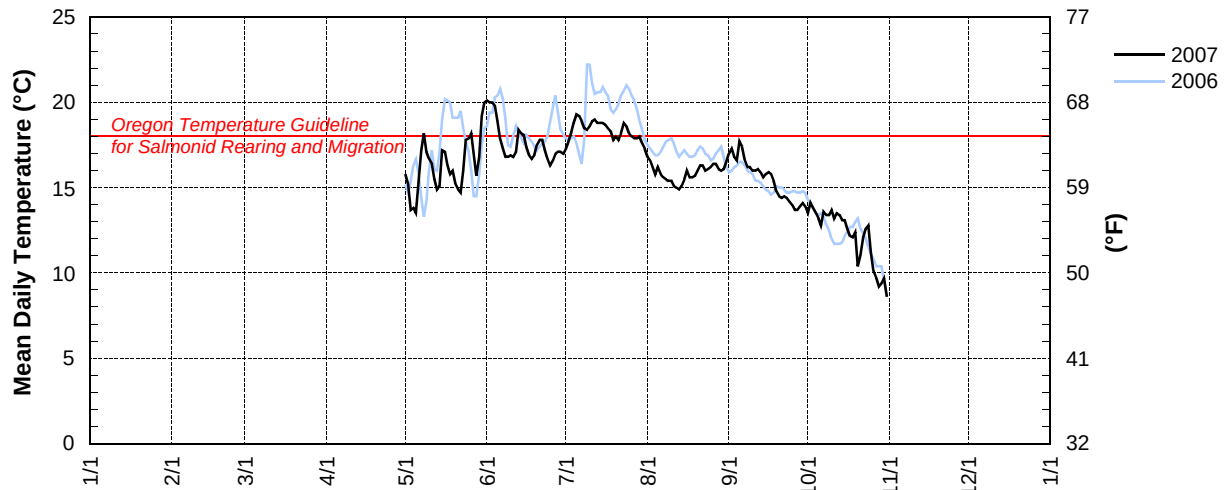
HCTP – 14206958 – HEDGES CREEK AT TUALATIN COMMUNITY PARK AT TUALATIN, OREGON [RM 0.3]

Latitude: 45 23 08 Longitude: 122 45 37

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					15.8	20.1	17.3	16.8	17.0	13.5		
2					15.2	20.0	17.7	16.6	17.3	14.1		
3					13.7	20.0	18.2	16.2	16.8	13.8		
4					13.8	19.8	18.8	15.8	16.6	13.5		
5					13.5	18.9	19.3	16.2	17.7	13.2		
6					15.1	17.9	19.2	15.8	17.4	12.8		
7					17.2	17.3	18.9	15.6	16.6	13.6		
8					18.2	16.8	18.5	15.5	16.2	13.4		
9					17.1	16.8	18.4	15.4	16.2	13.4		
10					16.7	16.9	18.6	15.4	16.0	13.7		
11					16.4	16.8	18.9	15.1	16.0	13.2		
12					15.5	17.1	19.0	15.0	16.1	13.5		
13					14.9	18.4	18.8	14.9	15.9	13.4		
14					15.1	18.2	18.8	15.1	15.6	13.1		
15					17.2	18.1	18.8	15.5	15.8	13.1		
16					17.1	17.4	18.7	16.0	15.9	12.6		
17					16.3	16.9	18.5	15.6	15.8	12.2		
18					15.8	16.7	18.3	15.6	15.4	12.1		
19					16.0	16.9	17.8	15.7	14.8	12.4		
20					15.2	17.5	18.0	16.0	14.5	10.4		
21					14.9	17.8	17.8	16.3	14.4	11.0		
22					14.7	17.8	18.2	16.3	14.5	12.1		
23					16.0	17.2	18.8	16.0	14.4	12.6		
24					17.8	16.7	18.6	16.1	14.2	12.8		
25					17.9	16.3	18.2	16.2	14.0	11.2		
26					18.2	16.6	18.0	16.4	13.7	10.1		
27					16.9	17.0	17.9	16.4	13.7	9.7		
28					15.7	17.1	17.9	16.1	13.9	9.2		
29		—			16.8	17.1	18.0	16.0	14.1	9.4		
30		—			19.2	17.0	17.6	16.1	13.9	9.7		
31		—		—	20.0	—	17.3	16.5	—	8.6	—	
MEAN					16.3	17.6	18.3	15.9	15.5	12.2		
MAX					20.0	20.1	19.3	16.8	17.7	14.1		
MIN					13.5	16.3	17.3	14.9	13.7	8.6		

HCTP – 14206958 – Hedges Creek at Tualatin Community Park at Tualatin, Oregon [RM 0.3]

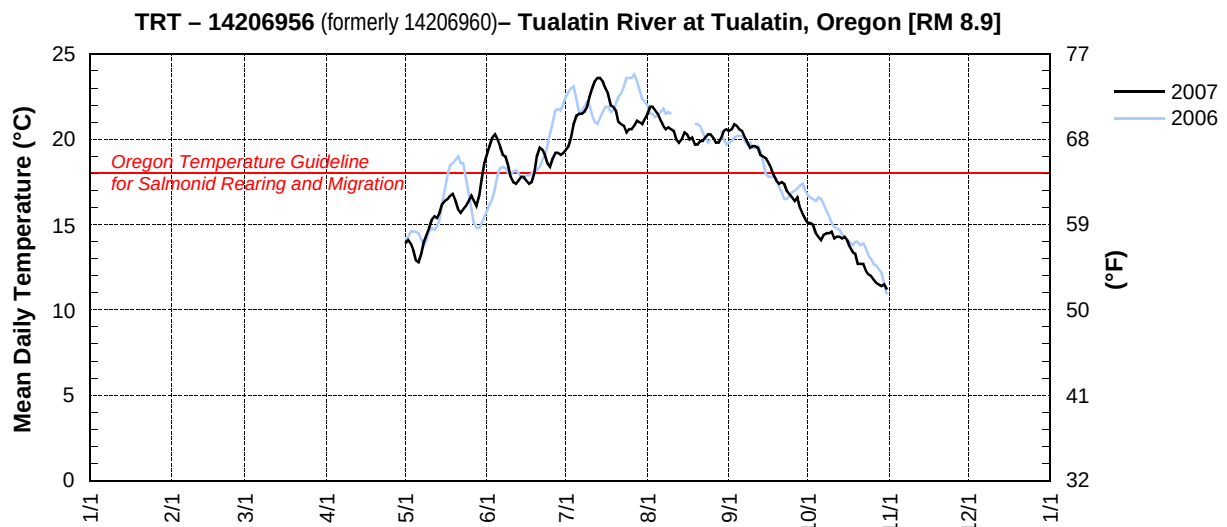


TRT – 14206956 (formerly 14206960) – TUALATIN RIVER AT TUALATIN, OREGON [RM 8.9]

Latitude: 45 23 14 Longitude: 122 45 46

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					13.9	19.1	19.4	21.5	20.5	15.1		
2					14.1	19.6	19.6	21.9	20.6	15.1		
3					13.9	20.1	20.1	21.9	20.9	15.0		
4					13.5	20.3	20.9	21.7	20.8	14.5		
5					12.9	20.0	21.4	21.5	20.6	14.3		
6					12.8	19.6	21.5	21.1	20.5	14.1		
7					13.3	19.1	21.5	20.8	20.1	14.4		
8					14.0	19.0	21.6	20.6	19.8	14.5		
9					14.4	18.5	21.9	20.7	19.5	14.5		
10					14.8	17.8	22.5	20.6	19.6	14.6		
11					15.3	17.5	23.0	20.5	19.6	14.2		
12					15.5	17.4	23.4	20.0	19.5	14.3		
13					15.4	17.6	23.6	19.8	19.1	14.3		
14					15.7	17.8	23.6	20.0	19.0	14.2		
15					16.2	17.8	23.4	20.4	18.9	14.3		
16					16.4	17.6	23.0	20.3	18.6	14.1		
17					16.5	17.4	22.7	20.0	18.3	13.7		
18					16.7	17.5	22.0	20.1	17.9	13.4		
19					16.8	18.0	21.9	19.7	17.6	13.3		
20					16.4	19.0	21.7	19.7	17.4	12.7		
21					15.9	19.5	21.0	19.9	17.5	12.7		
22					15.7	19.4	20.9	19.9	17.4	12.7		
23					15.9	19.1	20.8	20.1	17.0	12.3		
24					16.1	18.6	20.4	20.3	16.8	12.1		
25					16.4	18.4	20.6	20.3	16.6	12.0		
26					16.7	18.9	20.6	20.1	16.4	11.8		
27					16.4	19.2	20.8	19.8	16.6	11.6		
28					16.1	19.2	21.1	19.8	16.0	11.5		
29		—			16.7	19.1	21.0	20.1	15.6	11.4		
30		—			17.7	19.2	20.9	20.5	15.3	11.5		
31		—		—	18.6	—	21.2	20.6	—	11.2	—	
MEAN					15.5	18.7	21.5	20.5	18.5	13.4		
MAX					18.6	20.3	23.6	21.9	20.9	15.1		
MIN					12.8	17.4	19.4	19.7	15.3	11.2		

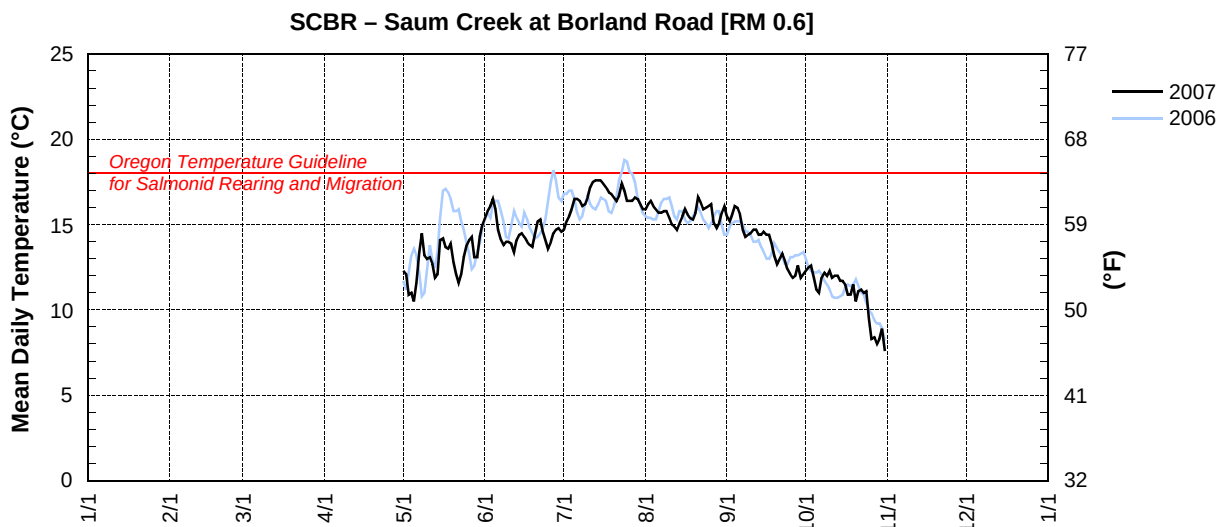


SCBR – SAUM CREEK AT BORLAND ROAD [RM 0.6]

Latitude: 45 22 32 Longitude: 122 43 22

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					12.3	15.4	14.7	15.9	15.5	12.3		
2					12.1	15.8	15.2	16.2	15.2	12.5		
3					10.9	16.1	15.5	16.4	15.6	12.6		
4					11.0	16.5	15.9	16.1	16.1	11.9		
5					10.5	15.9	16.5	15.9	16.0	11.2		
6					11.6	14.7	16.5	15.7	15.6	11.0		
7					13.4	14.1	16.4	15.7	14.7	11.9		
8					14.5	13.8	16.1	15.8	14.3	12.2		
9					13.2	14.0	16.2	15.8	14.4	12.0		
10					13.0	14.0	16.6	15.4	14.5	12.3		
11					13.1	13.9	17.2	15.0	14.7	11.9		
12					12.7	13.4	17.5	14.9	14.7	12.0		
13					11.9	14.1	17.6	14.7	14.4	12.0		
14					12.1	14.4	17.6	15.1	14.4	11.7		
15					14.1	14.5	17.6	15.5	14.6	11.7		
16					14.2	14.3	17.4	15.9	14.4	11.5		
17					13.7	14.0	17.2	15.6	14.4	10.9		
18					13.6	13.8	16.9	15.4	13.9	10.9		
19					13.9	13.7	16.8	15.3	13.2	11.5		
20					12.8	14.4	16.6	15.7	12.7	10.5		
21					12.1	15.2	16.4	16.6	13.0	11.1		
22					11.6	15.3	16.7	16.3	13.3	11.2		
23					12.1	14.6	17.4	15.9	12.9	11.0		
24					13.1	14.1	17.0	16.0	12.4	11.1		
25					13.8	13.6	16.4	16.1	12.1	9.5		
26					14.1	14.0	16.4	16.2	11.9	8.3		
27					14.3	14.5	16.4	15.1	12.0	8.4		
28					13.1	14.7	16.6	14.8	12.6	8.0		
29		—			13.1	14.8	16.5	15.1	11.9	8.3		
30		—			14.3	14.6	16.2	15.7	12.1	8.9		
31		—		—	15.0	—	15.9	16.1	—	7.6	—	
MEAN					12.9	14.5	16.6	15.7	13.9	10.9		
MAX					15.0	16.5	17.6	16.6	16.1	12.6		
MIN					10.5	13.4	14.7	14.7	11.9	7.6		

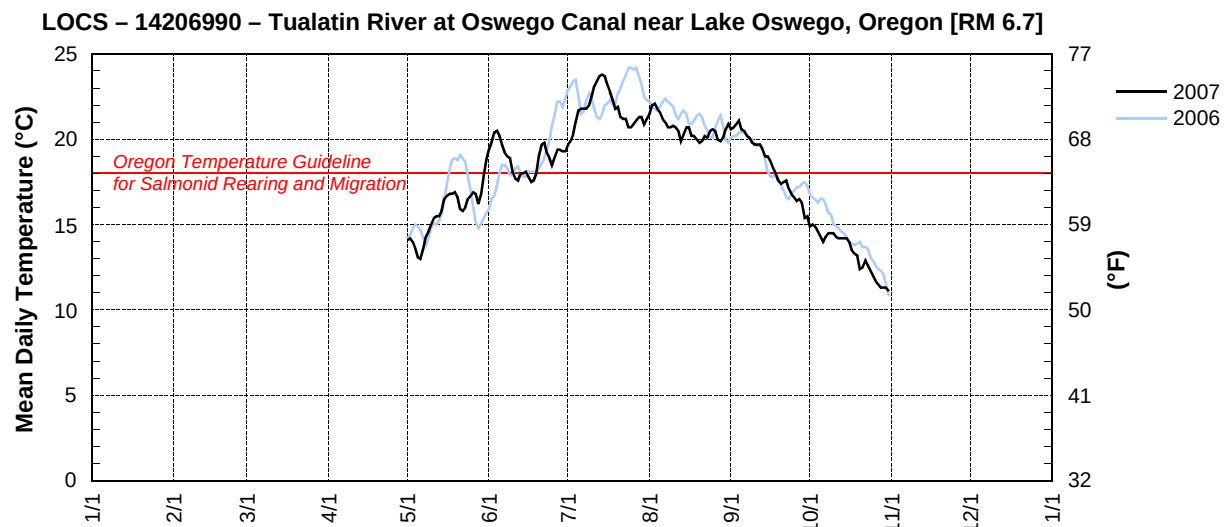


LOCS – 14206990 – TUALATIN RIVER AT OSWEGO CANAL NEAR LAKE OSWEGO, OREGON [RM 6.7]

Latitude: 45 22 57 Longitude: 122 43 17

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					14.1	19.4	19.7	21.5	20.6	14.9		
2					14.2	19.8	19.9	22.0	20.7	15.0		
3					14.0	20.4	20.3	22.1	20.9	14.9		
4					13.6	20.5	21.0	21.8	21.1	14.6		
5					13.1	20.2	21.7	21.6	20.6	14.3		
6					13.0	19.7	21.8	21.2	20.5	14.0		
7					13.6	19.2	21.8	21.0	20.2	14.3		
8					14.3	19.0	21.8	20.7	20.1	14.5		
9					14.6	18.9	22.0	20.7	19.8	14.5		
10					15.0	18.1	22.5	20.8	19.7	14.5		
11					15.4	17.7	23.1	20.7	19.7	14.3		
12					15.5	17.6	23.4	20.5	19.7	14.2		
13					15.5	18.0	23.7	19.9	19.4	14.2		
14					15.8	18.0	23.8	20.3	19.0	14.2		
15					16.5	18.1	23.7	20.7	19.0	14.2		
16					16.7	17.8	23.2	20.7	18.7	14.0		
17					16.8	17.5	22.8	20.2	18.3	13.5		
18					16.8	17.6	22.3	20.2	18.0	13.3		
19					16.9	18.0	21.8	20.0	17.6	13.2		
20					16.6	19.0	21.9	19.8	17.4	12.4		
21					15.9	19.7	21.3	19.9	17.5	12.5		
22					15.8	19.8	21.2	20.2	17.6	12.9		
23					16.0	19.2	21.2	20.1	17.1	12.6		
24					16.5	18.9	20.7	20.5	16.8	12.3		
25					16.7	18.5	20.7	20.6	16.6	12.0		
26					16.9	19.0	20.9	20.5	16.4	11.7		
27					16.8	19.4	21.1	20.0	16.5	11.5		
28					16.2	19.4	21.3	19.9	16.3	11.3		
29		—			16.8	19.3	21.3	20.1	15.4	11.3		
30		—			17.9	19.3	20.9	20.6	15.5	11.3		
31		—		—	18.8	—	21.2	20.9	—	11.1	—	
MEAN					15.7	18.9	21.7	20.6	18.6	13.3		
MAX					18.8	20.5	23.8	22.1	21.1	15.0		
MIN					13.0	17.5	19.7	19.8	15.4	11.1		

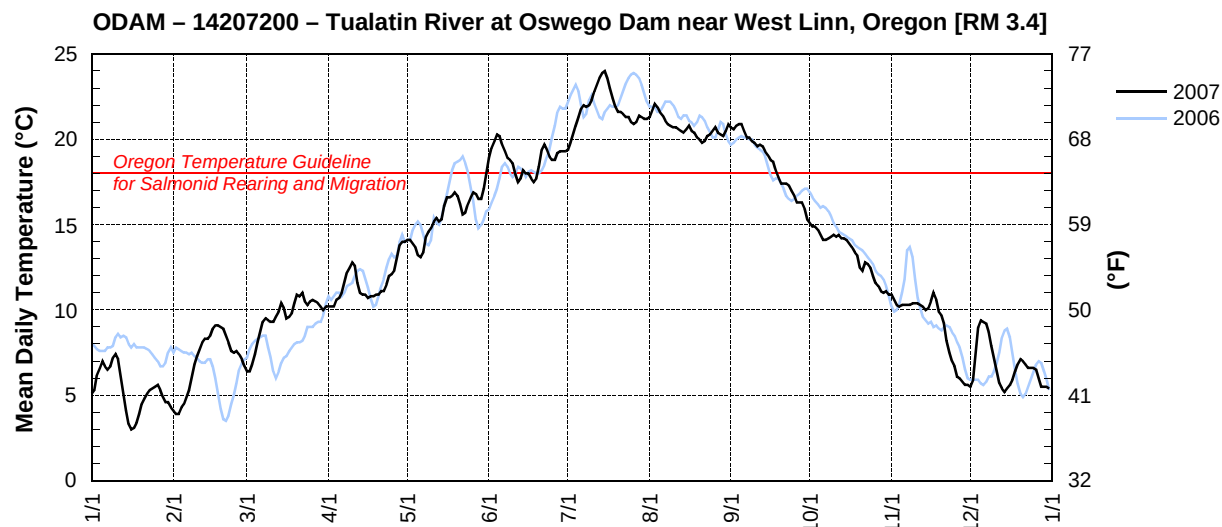


STATION NUMBER 14207200 TUALATIN RIVER AT OSWEGO DAM, NEAR WEST LINN, OR.

LATITUDE: 452124 LONGITUDE: 1224102

Water Temperature, degrees Celsius, Calendar Year January to December 2007 Daily Mean Values

Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT [†]	NOV [†]	DEC [†]
1	5.1	4.1	6.4	10.2	14.1	18.9	19.4	21.3	20.6	15.1	10.9	5.5
2	5.3	3.9	6.4	10.3	14.1	19.5	19.8	21.7	20.5	14.9	10.6	5.9
3	6.2	3.9	6.8	10.2	13.9	19.9	20.3	22.1	20.6	15.0	10.3	7.4
4	6.6	4.3	7.3	10.6	13.7	20.3	20.8	21.9	20.8	14.7	10.2	8.9
5	7.0	4.5	8.1	10.7	13.2	20.2	21.3	21.7	20.8	14.4	10.2	9.4
6	6.7	4.8	8.7	11.0	13.1	19.7	21.8	21.4	20.4	14.1	10.3	9.3
7	6.5	5.3	9.3	11.6	13.4	19.3	22.0	21.1	20.0	14.1	10.3	9.2
8	6.7	5.9	9.5	12.2	14.2	18.9	21.9	20.9	20.0	14.2	10.3	8.7
9	7.2	6.8	9.4	12.5	14.6	18.8	22.0	20.8	19.8	14.3	10.4	7.9
10	7.4	7.3	9.3	12.8	14.8	18.6	22.3	20.7	19.7	14.4	10.4	7.2
11	7.1	7.7	9.2	12.6	15.2	18.0	22.8	20.7	19.5	14.3	10.4	6.5
12	6.3	8.1	9.6	11.6	15.4	17.6	23.2	20.6	19.7	14.4	10.3	5.7
13	5.1	8.3	9.9	11.0	15.2	17.7	23.5	20.5	19.5	14.2	10.2	5.4
14	4.1	8.3	10.4	10.9	15.3	18.2	23.9	20.4	19.2	14.2	10.0	5.2
15	3.3	8.5	10.1	10.9	16.1	18.0	24.0	20.6	19.0	14.1	10.1	5.4
16	3.0	8.9	9.5	10.7	16.6	18.0	23.6	20.8	18.7	13.9	10.5	5.6
17	3.1	9.1	9.6	10.8	16.6	17.7	23.0	20.5	18.6	13.7	11.0	5.9
18	3.4	9.1	9.8	10.8	16.7	17.5	22.4	20.4	18.1	13.4	10.6	6.4
19	3.9	9.0	10.4	10.9	16.9	17.7	21.9	20.1	17.7	13.2	9.9	6.8
20	4.5	8.9	10.9	10.9	16.7	18.3	21.6	19.9	17.3	12.5	9.7	7.1
21	4.8	8.5	10.8	11.1	16.2	19.4	21.6	19.7	17.3	12.3	9.2	7.0
22	5.1	8.1	11.0	11.1	15.6	19.7	21.5	19.8	17.3	12.8	8.3	6.8
23	5.3	7.7	10.5		15.7	19.4	21.3	20.1	17.2	12.7	7.5	6.6
24	5.4	7.5	10.3	12.0	16.2	19.0	21.3	20.2	16.9	12.5	7.0	6.7
25	5.5	7.6	10.4	12.1	16.6	18.8	21.0	20.4	16.6	12.0	6.7	6.6
26	5.6	7.4	10.6	12.3	16.9	18.8	20.9	20.6	16.3	11.6	6.1	6.5
27	5.3	7.1	10.5	13.0	16.8	19.2	21.0	20.3	16.2	11.4	6.0	6.0
28	4.9	6.7	10.4	13.8	16.5	19.3	21.4	20.2	16.1	11.1		5.5
29	4.6	—	10.2	14.0	16.5	19.3	21.3	20.1	15.9	11.0	5.6	5.5
30	4.6	—	10.0	14.0	17.1	19.3	21.2	20.4	15.2	11.1	5.6	5.5
31	4.3	—	10.2	—	18.0	—	21.2	20.8	—	10.9	—	5.4
MEAN	5.3	7.0	9.5	11.6	15.5	18.8	21.8	20.7	18.5	13.3	9.3	6.7
MAX	7.4	9.1	11.0	14.0	18.0	20.3	24.0	22.1	20.8	15.1	11.0	9.4
MIN	3.0	3.9	6.4	10.2	13.1	17.5	19.4	19.7	15.2	10.9	5.6	5.2

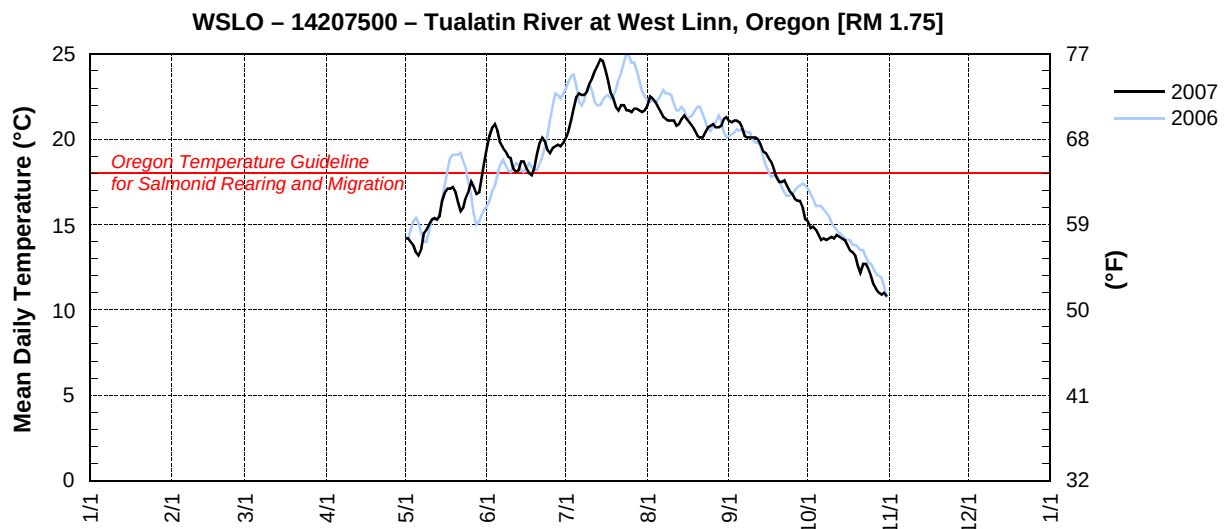
[†] Provisional data—subject to revision

WSLO – 14207500 – TUALATIN RIVER AT WEST LINN, OREGON [RM 1.75]

Latitude: 45 22 57 Longitude: 122 43 17

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1					14.2	19.5	20.1	22.0	21.1	15.2		
2					14.2	20.2	20.5	22.5	21.0	14.8		
3					14.0	20.7	21.1	22.4	21.1	14.9		
4					13.8	20.9	21.8	22.2	21.1	14.7		
5					13.4	20.5	22.5	21.9	21.0	14.4		
6					13.2	19.8	22.7	21.6	20.7	14.1		
7					13.6	19.5	22.6	21.3	20.2	14.2		
8					14.5	19.3	22.6	21.2	20.1	14.1		
9					14.7	19.0	22.8	21.1	20.1	14.2		
10					15.0	18.9	23.3	21.1	20.1	14.3		
11					15.3	18.3	23.6	21.1	20.1	14.2		
12					15.4	18.1	24.0	20.8	20.0	14.4		
13					15.3	18.2	24.3	20.9	19.7	14.3		
14					15.5	18.7	24.7	21.2	19.3	14.2		
15					16.4	18.7	24.6	21.4	19.2	14.1		
16					16.9	18.3	24.1	21.2	18.9	13.8		
17					17.1	18.0	23.5	21.0	18.7	13.5		
18					17.1	17.9	22.7	20.8	18.3	13.4		
19					17.2	18.3	22.4	20.5	17.8	13.2		
20					16.9	19.1	21.9	20.2	17.5	12.6		
21					16.3	19.8	21.7	20.1	17.5	12.2		
22					15.8	20.1	22.0	20.1	17.6	12.7		
23					16.0	19.9	22.0	20.4	17.3	12.7		
24					16.6	19.4	21.7	20.7	17.0	12.4		
25					17.0	19.2	21.7	20.8	16.8	12.0		
26					17.5	19.5	21.6	20.9	16.5	11.5		
27					17.2	19.6	21.8	20.7	16.4	11.2		
28					16.8	19.7	21.8	20.7	16.4	11.0		
29		—			16.9	19.6	21.7	20.8	16.0	10.9		
30		—			17.8	19.8	21.6	21.2	15.3	11.0		
31		—		—	18.7	—	21.7	21.3	—	10.8	—	
MEAN					15.8	19.3	22.4	21.1	18.8	13.3		
MAX					18.7	20.9	24.7	22.5	21.1	15.2		
MIN					13.2	17.9	20.1	20.1	15.3	10.8		



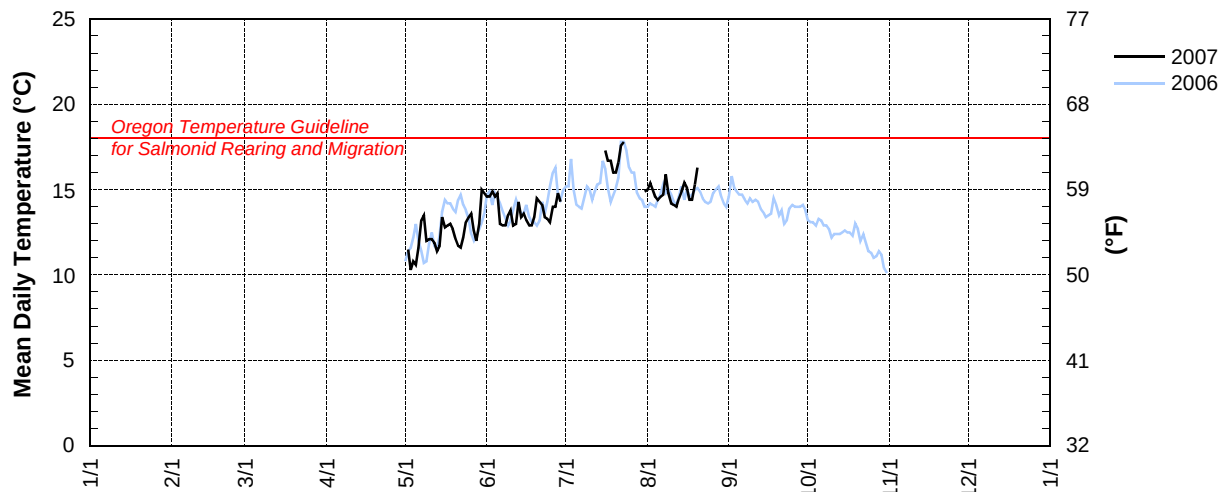
SPBR – 14211116 – SPRINGBROOK CREEK AT IRON MOUNTAIN ROAD NEAR LAKE OSWEGO, OREGON [RM 0.18]

Latitude: 45 24 46 Longitude: 122 42 13

Source Agency: District 18 Watermaster

Day	2007 Mean Daily Water Temperature in Degrees Celsius											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						14.6		15.0				
2					11.5	14.6		15.4				
3					10.3	14.9		15.0				
4					10.8	14.6		14.6				
5					10.6	14.8		14.4				
6					11.6	13.0		14.6				
7					13.2	12.9		14.7				
8					13.5	12.9		15.9				
9					12.0	13.5		14.8				
10					12.1	13.8		14.2				
11					12.1	12.9		14.1				
12					11.9	13.0		14.0				
13					11.4	14.3		14.5				
14					11.7	13.4		14.9				
15					13.4	13.6		15.4				
16					12.8	13.2	17.3	15.1				
17					12.9	12.9	16.7	14.4				
18					13.0	12.9	16.7	14.4				
19					12.7	13.4	16.0	15.3				
20					12.1	14.5	16.0	16.3				
21					11.7	14.3	16.6					
22					11.6	14.1	17.6					
23					12.2	13.4	17.8					
24					13.1	13.3						
25					13.4	13.1						
26					13.6	14.0						
27					12.6	14.0						
28					12.0	14.8						
29		—			13.0	14.3						
30		—			15.0							
31		—		—	14.8	—	14.9				—	
MEAN					12.4	13.8	16.6	14.9				
MAX					15.0	14.9	17.8	16.3				
MIN					10.3	12.9	14.9	14.0				

SPBR – 14211116 – Springbrook Creek at Iron Mountain Road near Lake Oswego, Oregon [RM 0.18]



Appendix G

Hagg Lake Monitoring 2007 Data

The following data are provisional and have not been fully reviewed or edited.

HAGG LAKE MONITORING PROGRAM 2007 — DATA LIST

DATA TABLE	PAGE
<i>Hagg Lake Tributaries</i>	
Benthic Invertebrate Index of Biological Integrity (BIBI)	G-3
Benthic community indicators of biological condition	G-3
Benthic invertebrate density	G-4
<i>Hagg Lake monitoring was discontinued in 2007 for the following:</i>	
Petroleum hydrocarbons	
Physical and chemical data, including field data	
Bacteriological data	
Phytoplankton density and biovolume	
Zooplankton density and zooplankton length frequency	
<i>Hagg Lake tributary monitoring for the following was discontinued in 2007:</i>	
Physical and chemical data, including field data	
Bacteriological data	

HAGG LAKE MONITORING 2007 — BENTHIC INVERTEBRATE INDEX OF BIOLOGICAL INTEGRITY

[Metric code: a '+' indicates metric value generally decreases with declining biological integrity; a '-' indicates metric value generally increases with declining biological integrity. Condition categories: L= low, M=medium, H=high. Sample collected 10/5/2007.]

Metric	Sain Creek		Scoggins Ck		Tanner Ck	
	Value	Score	Value	Score	Value	Score
+ Total number of taxa	41	5	42	5	33	3
+ Number of <i>Ephemeroptera</i> taxa	6	3	8	3	8	3
+ Number of <i>Plecoptera</i> taxa	5	3	6	3	3	1
+ Number of <i>Tricoptera</i> taxa	5	3	4	1	2	1
+ Number of long-lived taxa	5	5	5	5	2	1
+ Number of intolerant taxa	0	1	2	1	1	1
- Percent tolerant taxa	45.49	3	21.85	3	68.91	1
+ Percent predator	5.2	1	8.32	1	2.52	1
+ Number of clinger taxa	22	5	23	5	19	3
- Percent Dominance (3 taxa)	57.64	3	53.85	3	76.47	1
BIBI TOTAL SCORE	32		30		16	
BIOLOGICAL CONDITION CATEGORY	M		M		L	

Categories based on comparison with unimpacted Puget Lowland and Willamette Valley streams. Scores indicate: 1-low, 3-moderate, 3-high. Maximum IBI score=50. BIBI scores: 0-24=L, 25-39=M, >40=H. Based on average/summation of 3 replicates, not on each individual replicate. Riffle habitat. D-Frame net; 5 point composite sample; total area= 1 square meter; 500 micron mesh; 500 organism subsample minimum. Based on single composite sample.

HAGG LAKE MONITORING 2007 — BENTHIC COMMUNITY INDICATORS OF BIOLOGICAL CONDITION

[Metric code: a '+' indicates metric value generally decreases with declining biological integrity; a '-' indicates metric value generally increases with declining biological integrity. Condition: L= low, M=medium, H=high. Sample collected 10/5/2007.]

Metric	Sain Creek		Scoggins Ck		Tanner Ck	
	Value	Condition	Value	Condition	Value	Condition
+ Total abundance (number/m ²)	288	L	325	L	357	L
+ EPT taxa richness	16	L	18	L	13	L
+ Predator richness	8	L	9	L	6	L
+ Scraper richness	9	L	11	M	11	M
+ Shredder richness	3	L	5	M	2	L
+ Percent intolerant taxa	0	L	0.62	L	0.28	L
- Hilsenhoff Biotic Index	5.5	L	4.66	L	5.71	L
- Percent <i>Baetis tricaudatus</i>	44.79	L	17.23	M	65.55	L
- Percent collector	77.07	L	58.49	L	86.55	L
- Percent Parasite	2.77	H	1.85	H	0.28	H
- Percent <i>Oligochaeta</i>	0.69	H	1.23	M	1.68	M
- Number of tolerant taxa	3	M	6	M	3	M
- Percent <i>Simuliidae</i>	7.64	M	13.54	L	2.24	H
- Percent <i>Chironomidae</i>	19.1	M	24.62	M	13.17	M

Condition based on comparisons with a Pacific Northwest montane stream with high biological integrity. (A montane is the biome characterized by moist cool upland slopes below timberline and dominated by large coniferous trees.)

HAGG LAKE MONITORING 2007 — BENTHIC INVERTEBRATE DENSITY (SHEET 1 OF 2)

[Sample collected October 5, 2007]

TAXON	SAIN CK (RM 1.6)		SCOGGINS CK (RM 8.0)		TANNER CK (RM 1.6)		
	Abundance (number/m ²)	Percent of Total	Abundance (number/m ²)	Percent of Total	Abundance (number/m ²)	Percent of Total	
NON-INSECTS	<i>Acari</i>	6	2.08	6	1.85	1	0.28
	<i>Juga</i>	1	0.35	—	—	7	1.96
	<i>Nematoda</i>	2	0.69	—	—	—	—
	<i>Oligochaeta</i>	2	0.69	4	1.23	6	1.68
	<i>Pisidium</i>	1	0.35	—	—	—	—
	TOTAL NON-INSECTS	12	4.17	10	3.08	14	3.92
ODONATA	<i>Octogomphus</i>	1	0.35	—	—	—	—
	TOTAL: ODONATA	1	0.35	—	—	—	—
EPHEMEROPTERA	<i>Ameletus</i>	—	—	5	1.54	—	—
	<i>Attenella delantala</i>	—	—	—	—	1	0.28
	<i>Baetis tricaudatus</i>	129	44.79	56	17.23	234	65.55
	<i>Cinygmula</i>	—	—	2	0.62	6	1.68
	<i>Dipheter hageni</i>	2	0.69	2	0.62	1	0.28
	<i>Drunella coloradensis</i>	—	—	—	—	1	0.28
	<i>Drunella doddsi</i>	—	—	1	0.31	—	—
	<i>Ephemerella excrusians</i>	1	0.35	2	0.62	5	1.40
	<i>Paraleptophlebia</i>	2	0.69	8	2.46	13	3.64
	<i>Rhithrogena</i>	15	5.21	75	23.08	3	0.84
	<i>Tricorythodes minutus</i>	1	0.35	—	—	—	—
	TOTAL EPHEMEROPTERA	150	52.08	151	46.46	264	73.95
PLECOPTERA	<i>Calineuria californica</i>	3	1.04	9	2.77	—	—
	<i>Malenka</i>	1	0.35	—	—	—	—
	<i>Perlodidae</i>	—	—	3	0.92	—	—
	<i>Pteronarcys californica</i>	—	—	1	0.31	—	—
	<i>Skwala</i>	2	0.69	2	0.62	1	0.28
	<i>Sweltsa</i>	2	0.69	6	1.85	3	0.84
	<i>Zapada cinctipes</i>	2	0.69	1	0.31	1	0.28
	TOTAL PLECOPTERA	10	3.47	22	6.77	5	1.40
MEGALP	<i>Sialis</i>	—	—	1	0.31	—	—
	TOTAL: MEGALOPTERA	—	—	1	0.31	—	—
TRICHOPTERA	<i>Arctopsyche grandis</i>	3	1.04	3	1	—	—
	<i>Glossosoma</i>	2	0.69	—	—	2	0.56
	<i>Hydropsyche</i>	12	4.17	2	0.62	5	1.40
	<i>Lepidostoma-panel case larvae</i>	—	—	1	0.31	—	—
	<i>Psychoglypha</i>	—	—	1	0.31	—	—
	<i>Rhyacophila Betteni Group</i>	2	0.69	—	—	—	—
	<i>Rhyacophila Brunnea/Vemna Group</i>	1	0.35	—	—	—	—
	TOTAL TRICHOPTERA	20	6.94	7	2.15	7	1.96
COLEOPTERA	<i>Heterlimnius</i>	10	3.47	2	0.62	4	1.12
	<i>Narpus</i>	2	0.69	1	0.31	—	—
	<i>Optioservus</i>	3	1.04	3	0.92	5	1.40
	<i>Zaitzevia</i>	—	—	2	0.62	—	—
	TOTAL COLEOPTERA	15	5.21	8	2.46	9	2.52

HAGG LAKE MONITORING 2007 — BENTHIC INVERTEBRATE DENSITY (CONTINUED) (SHEET 2 OF 2)

[Sample collected October 5, 2007]

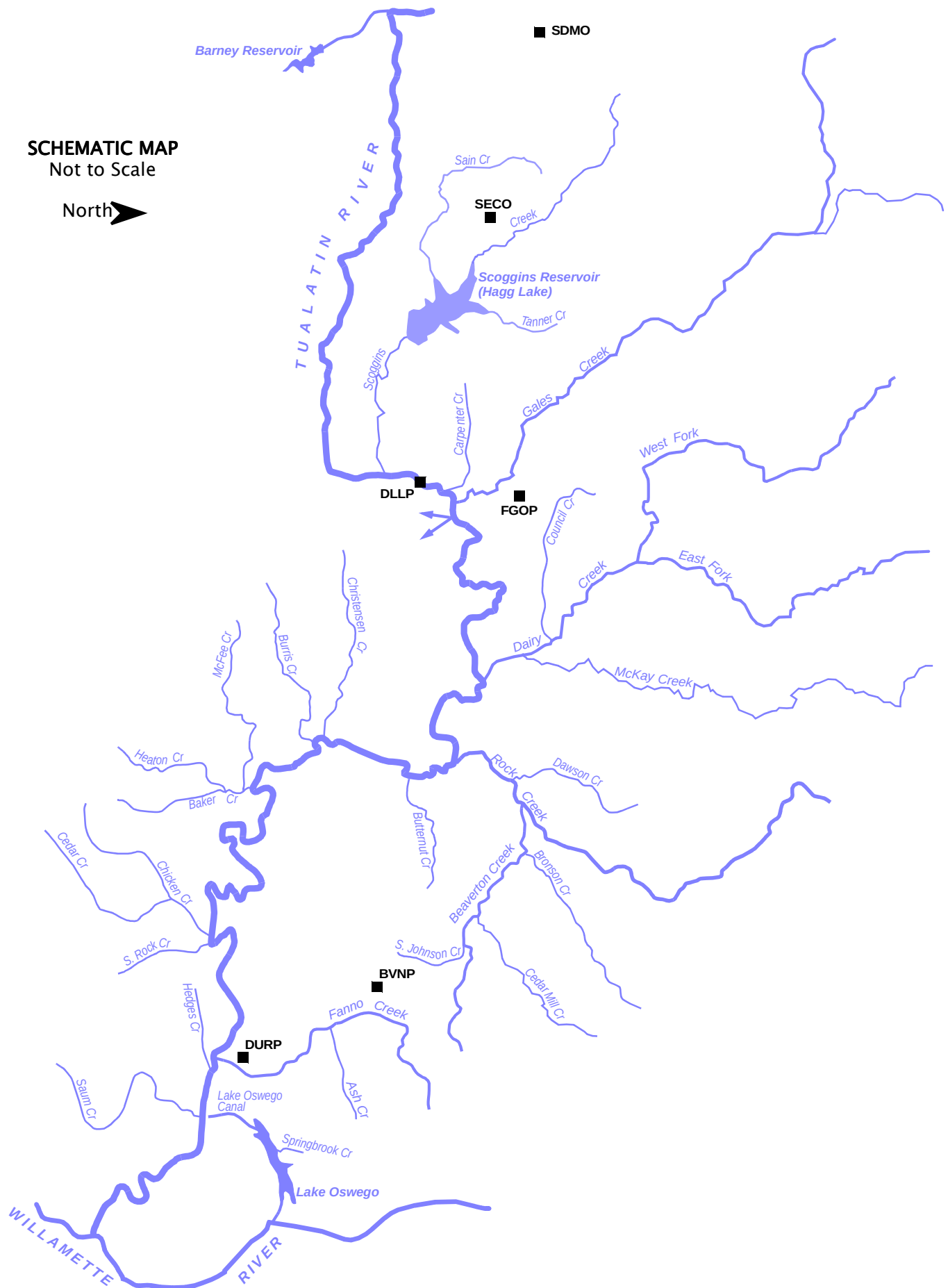
TAXON		SAIN CK (RM 1.6)		SCOGGINS CK (RM 8.0)		TANNER CK (RM 1.6)	
		Abundance (number/m ²)	Percent of Total	Abundance (number/m ²)	Percent of Total	Abundance (number/m ²)	Percent of Total
DIPTERA	<i>Antocha</i>	2	0.69	—	—	—	—
	<i>Ceratopogoninae</i>	—	—	1	0.31	1	0.28
	<i>Dicranota</i>	—	—	—	—	1	0.28
	<i>Glutops</i>	—	—	—	—	1	0.28
	<i>Limnophila</i>	—	—	1	0.31	—	—
	<i>Maruina</i>	1	0.35	—	—	—	—
	<i>Simulium</i>	22	7.64	44	13.54	8	2.24
	TOTAL DIPTERA	25	8.68	46	14.15	11	3.08
CHIRONOMIDAE	<i>Brillia</i>	—	—	6	1.85	—	—
	<i>Chironomidae-pupae</i>	3	1.04	3	0.92	3	0.84
	<i>Corynoneura</i>	1	0.35	—	—	1	0.28
	<i>Cricotopus Trifascia Group</i>	2	0.69	8	2.46	—	—
	<i>Demicryptochironomus</i>	1	0.35	—	—	—	—
	<i>Eukiefferiella</i>	3	1.04	1	0.31	4	1.12
	<i>Heleniella</i>	—	—	—	—	1	0.28
	<i>Micropsectra</i>	7	2.43	31	9.54	4	1.12
	<i>Nanocladius</i>	—	—	1	0.31	—	—
	<i>Orthocladius Complex</i>	13	4.51	4	1.23	—	—
	<i>Parametriocnemus</i>	13	4.51	13	4.00	26	7.28
	<i>Polypedilum</i>	—	—	—	—	1	0.28
	<i>Rheocricotopus</i>	1	0.35	4	1.23	1	0.28
	<i>Rheotanytarsus</i>	—	—	1	0.31	—	—
	<i>Stempellinella</i>	1	0.35	—	—	—	—
	<i>Synorthocladius</i>	—	—	5	1.54	—	—
	<i>Thienemanniella</i>	1	0.35	1	0.31	1	0.28
	<i>Thienemannimyia Complex</i>	1	0.35	1	0.31	2	0.56
	<i>Tvetenia Bavarica Group</i>	8	2.78	1	0.31	3	0.84
	TOTAL CHIRONOMIDAE	55	19.10	80	24.62	47	13.17
TOTAL BENTHIC INVERTEBRATES		288	100.00	325	100.00	357	100.00

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Appendix H

Precipitation Data

PRECIPITATION MONITORING STATIONS — LOCATIONS



PRECIPITATION SITES — ALPHABETICAL LISTING BY SITE CODE

SITE CODE	SITE NAME	Elevation (ft)	PAGE
BVNP	Beaverton 2 SSW Precipitation Station	270	H-12
DLLP	Dilley Precipitation Station	170	H-8
DURP	Durham Wastewater Treatment Plant Precipitation Station	140	H-14
FGOP	Forest Grove Precipitation Station (Verboort)	180	H-10
SDMO	Saddle Mountain Precipitation Station	3250	H-4
SECO	Sain Creek Precipitation Station	2000	H-6

SDMO – SADDLE MOUNTAIN PRECIPITATION STATION

Elevation: 3250 ft

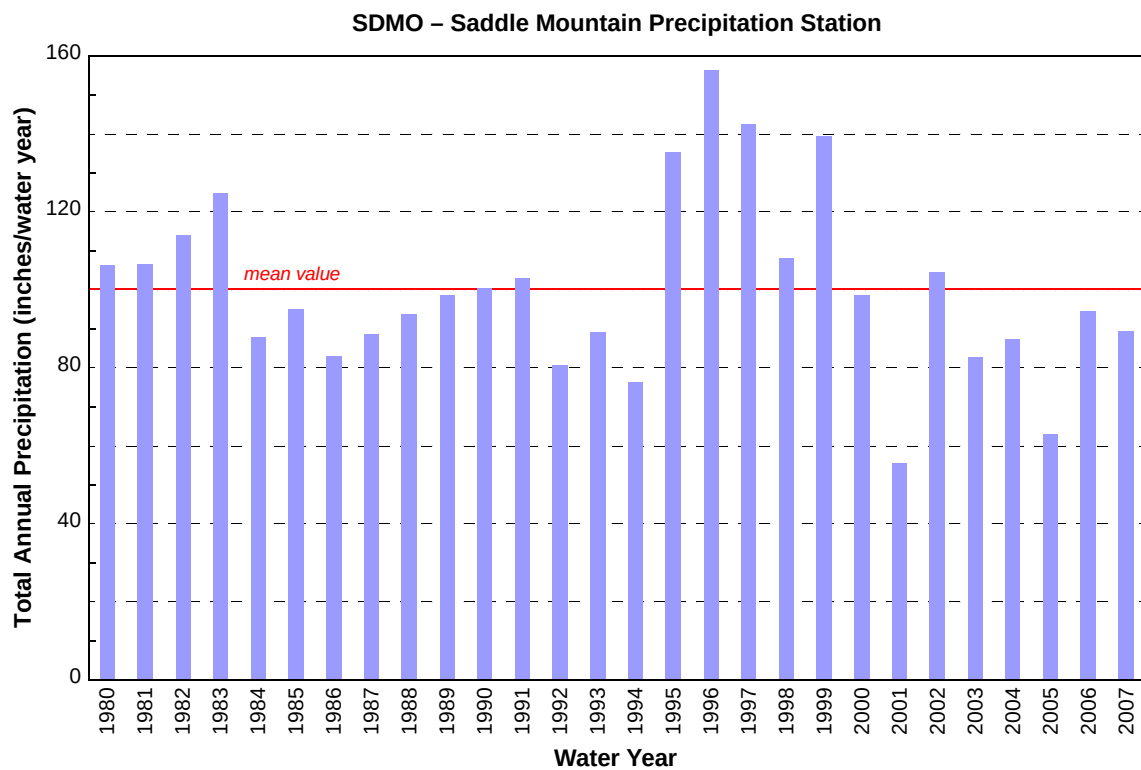
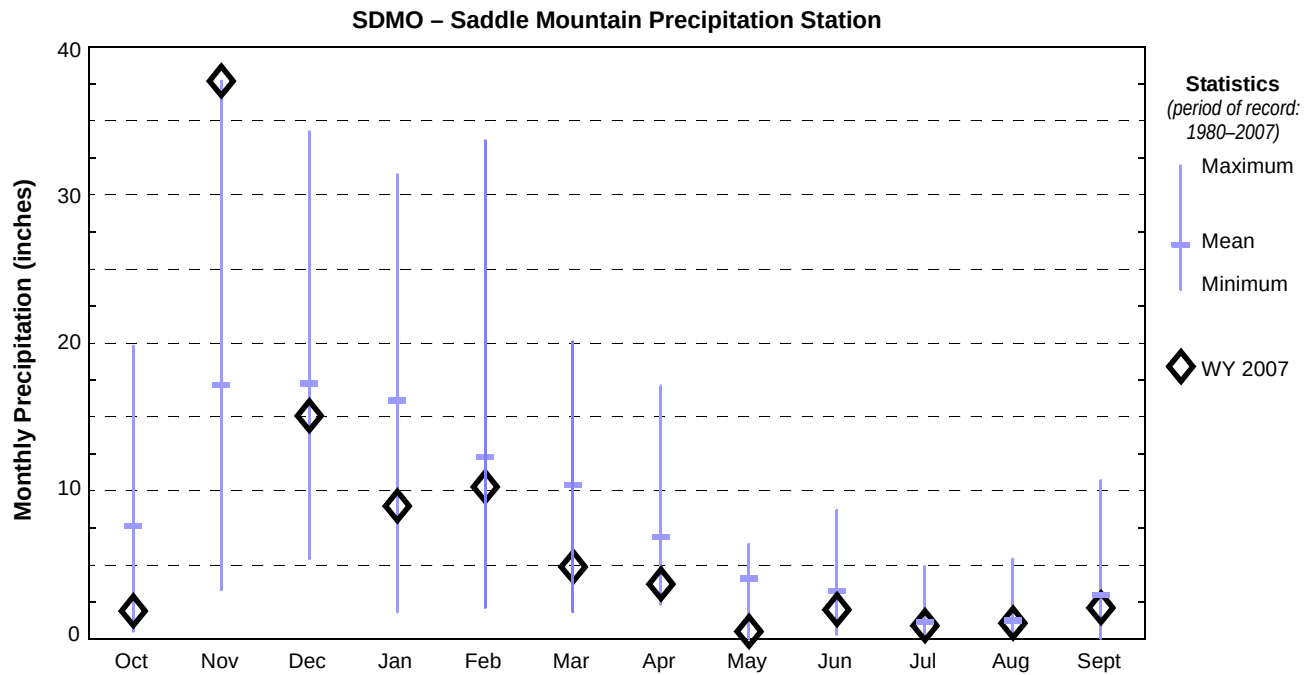
Source Agency: Natural Resources Conservation Service

Latitude: 45 31 48 Longitude: 123 22 12

<http://www.wcc.nrcs.usda.gov/cgibin/tab.pl?state=OR>

Water Year*	Total Monthly Precipitation (inches)											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1980	10.8	7.5	19.2	19.3	11.2	10.1	6.5	6.4	8.7	1.0	0.6	4.9
1981	4.2	19.3	26.8	5.2	18.6	7.5	7.9	4.1	7.2	0.4	0.7	4.4
1982	13.0	14.9	26.6	19.3	17.2	7.5	7.2	0.0	2.0	1.1	1.9	3.3
1983	13.4	16.7	21.5	17.3	15.2	11.5	7.1	4.3	4.7	4.9	3.4	4.7
1984	1.7	23.3	11.8	8.3	12.6	8.1	6.3	6.4	3.8	0.6	1.1	3.8
1985	11.4	28.6	12.9	1.8	10.2	11.8	4.8	1.5	4.3	0.2	1.4	5.9
1986	12.2	11.1	5.4	15.8	13.4	7.2	5.7	3.2	1.1	1.4	0.2	6.2
1987	5.3	20.2	11.1	17.1	7.7	16.0	2.3	4.9	1.1	1.7	0.2	0.9
1988	0.7	10.8	22.2	14.1	9.6	15.0	7.8	6.1	2.4	2.0	0.3	2.7
1989	2.5	28.5	11.4	14.9	10.2	17.4	5.3	2.8	1.7	1.9	2.0	0.0
1990	5.8	9.6	8.6	31.4	20.8	7.0	6.4	3.3	4.9	0.4	0.8	1.5
1991	11.4	18.7	10.0	12.7	12.7	12.1	15.3	4.4	2.7	1.0	1.2	0.6
1992	2.8	14.4	11.8	19.1	8.8	1.8	10.5	2.4	1.2	1.4	1.1	5.3
1993	6.8	13.8	16.2	10.8	3.3	12.4	13.7	6.4	3.2	1.6	0.9	0.0
1994	2.7	3.3	18.8	11.0	15.2	9.3	5.5	3.6	4.2	0.9	0.5	1.2
1995	14.7	20.9	31.0	19.7	13.5	14.8	6.8	1.5	4.3	3.0	1.3	3.7
1996	8.5	34.8	21.7	21.2	32.6	6.0	17.1	6.4	2.0	1.2	1.0	3.7
1997	11.6	16.9	34.3	17.2	7.3	20.1	8.3	5.9	5.3	2.1	2.6	10.7
1998	19.8	15.3	9.3	24.2	14.7	10.4	3.3	6.1	1.6	0.2	0.4	2.7
1999	7.7	25.9	28.7	20.3	33.7	12.9	2.8	5.0	0.9	0.2	1.3	0.0
2000	6.1	23.6	18.6	17.7	10.1	6.3	2.9	4.9	6.0	0.1	0.6	1.6
2001	4.3	5.6	9.2	5.5	4.8	6.2	6.1	5.2	3.3	1.4	3.1	0.7
2002	6.6	23.0	20.3	21.7	7.5	10.7	7.6	2.9	3.6	0.2	0.3	0.1
2003	0.5	5.8	17.2	21.5	5.4	19.5	7.5	2.3	0.3	0.3	0.4	1.9
2004	9.4	12.1	13.5	15.0	8.7	5.4	4.4	4.9	2.7	0.1	5.4	5.7
2005	7.4	5.0	10.9	9.3	2.1	11.0	6.5	5.8	2.2	1.0	0.4	1.4
2006	9.4	12.4	18.2	29.8	6.1	7.3	3.5	3.0	2.0	0.7	0.0	2.1
2007	1.9	37.7	15.1	9.0	10.3	4.9	3.7	0.5	2.0	0.9	1.1	2.1
MIN	0.5	3.3	5.4	1.8	2.1	1.8	2.3	0.0	0.3	0.1	0.0	0.0
MAX	19.8	37.7	34.3	31.4	33.7	20.1	17.1	6.4	8.7	4.9	5.4	10.7
MEAN	7.59	17.13	17.23	16.08	12.27	10.36	6.89	4.08	3.19	1.14	1.22	2.92

*Water Year (WY) begins October 1st of the previous calendar year and ends September 30th of current year.



SECO – SAIN CREEK PRECIPITATION STATION

Elevation: 2000 ft

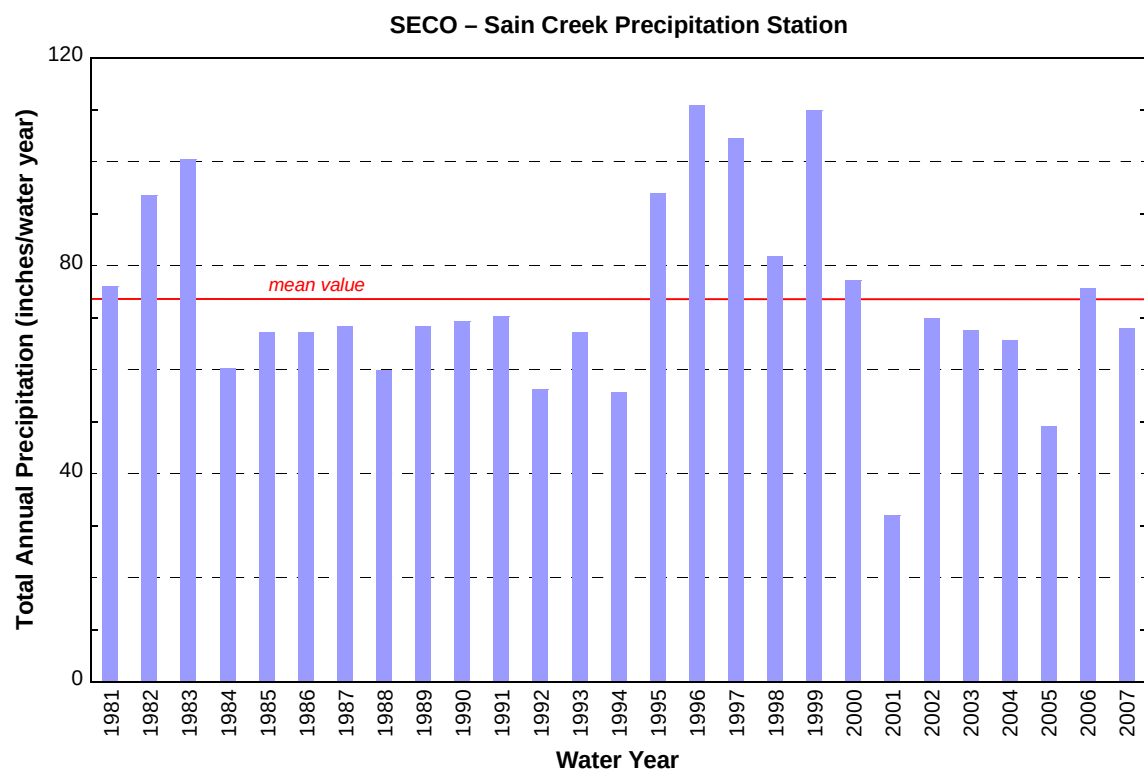
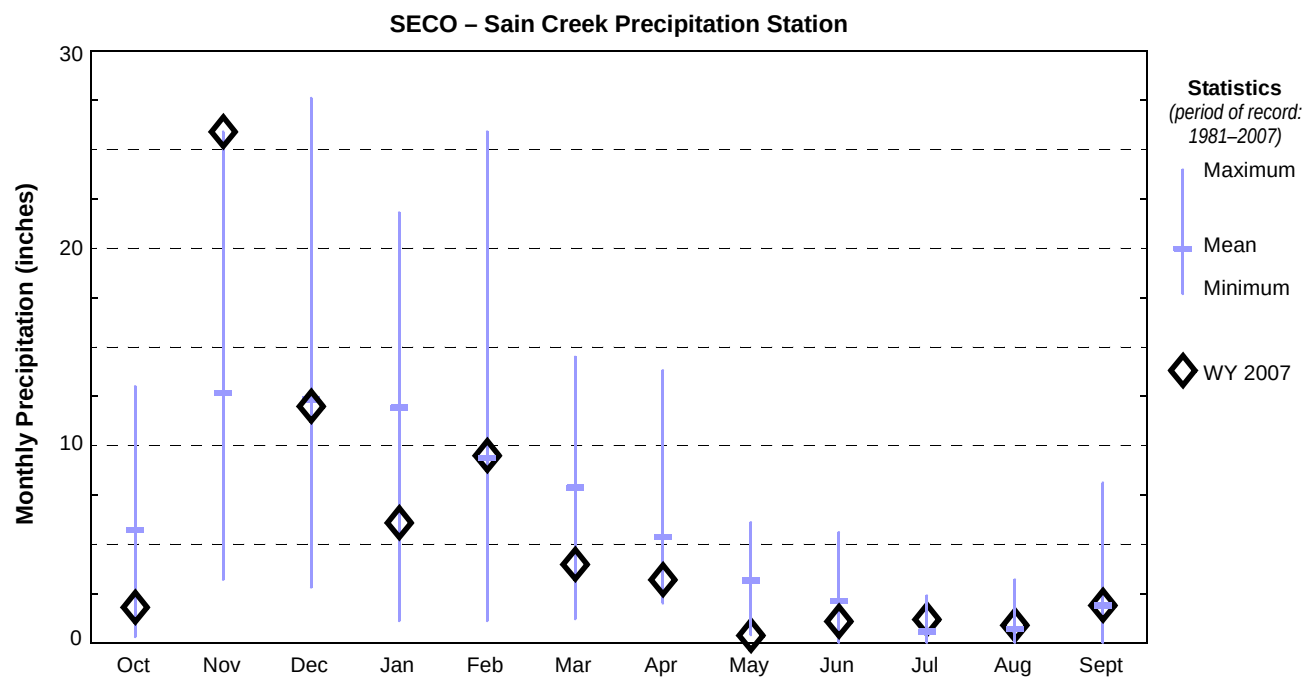
Source Agency: Natural Resources Conservation Service

Latitude: 45 31 12 Longitude: 123 16 48

<http://www.wcc.nrcs.usda.gov/cgibin/tab.pl?state=OR>

Water Year*	Total Monthly Precipitation (inches)											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1981	2.3	13.5	17.8	5.8	12.8	5.3	6.0	3.6	5.6	0.0	0.2	3.0
1982	10.3	11.8	20.8	13.2	14.9	7.9	6.4	0.7	2.0	1.1	1.9	2.4
1983	11.1	11.4	17.0	15.5	17.3	14.5	6.3	2.5	3.1	1.6	0.0	0.1
1984	1.4	16.7	3.5	3.5	12.1	9.1	2.5	5.3	3.3	0.0	0.0	2.8
1985	10.4	22.6	7.0	1.1	4.0	7.9	4.3	1.4	3.5	0.1	1.6	3.2
1986	9.3	4.9	2.8	13.2	15.1	2.9	5.2	6.1	0.2	1.0	0.2	6.3
1987	4.5	15.3	8.4	12.4	6.4	12.3	3.6	3.3	0.4	1.2	0.2	0.3
1988	0.7	6.8	15.8	12.2	2.8	9.1	4.4	4.0	2.0	0.7	0.0	1.4
1989	1.3	21.5	7.4	9.1	7.3	11.6	3.7	1.7	1.9	0.9	1.7	0.1
1990	4.5	6.2	5.8	21.8	14.5	6.4	3.2	2.6	2.5	0.3	0.7	0.8
1991	8.4	10.9	6.1	7.4	9.1	8.3	12.9	2.8	2.1	0.8	0.8	0.5
1992	2.5	9.7	8.4	12.2	6.7	1.2	9.2	1.1	1.1	0.6	0.4	3.1
1993	5.0	9.3	11.9	8.9	2.0	8.8	9.9	5.7	2.7	2.4	0.5	0.0
1994	1.7	4.5	12.7	8.5	10.7	5.9	4.2	3.1	2.4	0.1	0.2	1.6
1995	13.0	13.4	16.6	16.0	9.3	11.2	5.2	1.9	2.9	1.1	0.8	2.5
1996	6.6	24.6	15.7	15.3	21.9	3.4	13.8	4.8	1.4	0.4	0.4	2.6
1997	8.4	12.7	27.6	13.3	4.7	13.7	5.6	4.8	3.4	0.4	1.9	8.1
1998	13.0	12.0	6.4	19.8	12.0	8.5	2.5	5.1	0.8	0.0	0.2	1.5
1999	5.6	20.5	22.3	16.1	25.9	11.1	2.0	4.0	1.0	0.2	1.2	0.0
2000	4.6	18.3	15.4	13.5	8.5	5.3	2.6	3.8	4.0	0.0	0.2	0.9
2001	2.9	3.7	6.4	3.2	3.1	3.7	3.7	2.4	1.1	0.3	1.2	0.2
2002	3.8	16.7	13.3	14.9	5.1	6.6	5.1	2.0	2.0	0.1	0.0	0.3
2003	0.3	7.8	16.5	15.8	4.3	14.1	5.9	1.4	0.0	0.0	0.0	1.5
2004	5.8	7.3	12.0	12.2	7.6	3.9	4.7	2.3	2.0	0.2	3.2	4.4
2005	5.6	3.2	8.3	8.4	1.1	8.5	4.9	5.3	2.5	0.4	0.2	0.6
2006	9.1	10.4	14.7	21.8	3.7	6.9	3.3	3.1	1.5	0.2	0.0	0.9
2007	1.8	25.9	12.0	6.1	9.5	4.0	3.2	0.4	1.1	1.2	0.9	1.9
MIN	0.3	3.2	2.8	1.1	1.1	1.2	2.0	0.4	0.0	0.0	0.0	0.0
MAX	13.0	25.9	27.6	21.8	25.9	14.5	13.8	6.1	5.6	2.4	3.2	8.1
MEAN	5.70	12.65	12.32	11.90	9.35	7.86	5.34	3.16	2.09	0.57	0.69	1.89

*Water Year (WY) begins October 1st of the previous calendar year and ends September 30th of current year.



DLLP – DILLEY PRECIPITATION STATION (ID# 352325)

Elevation: 170 ft

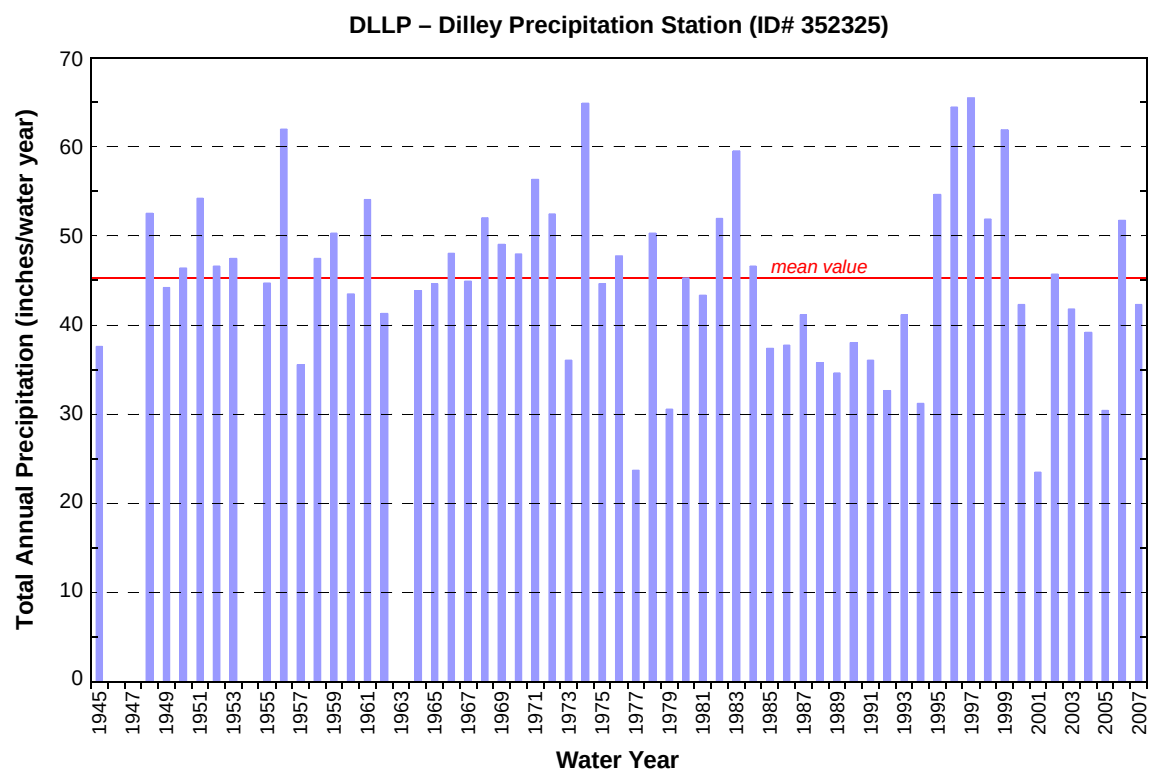
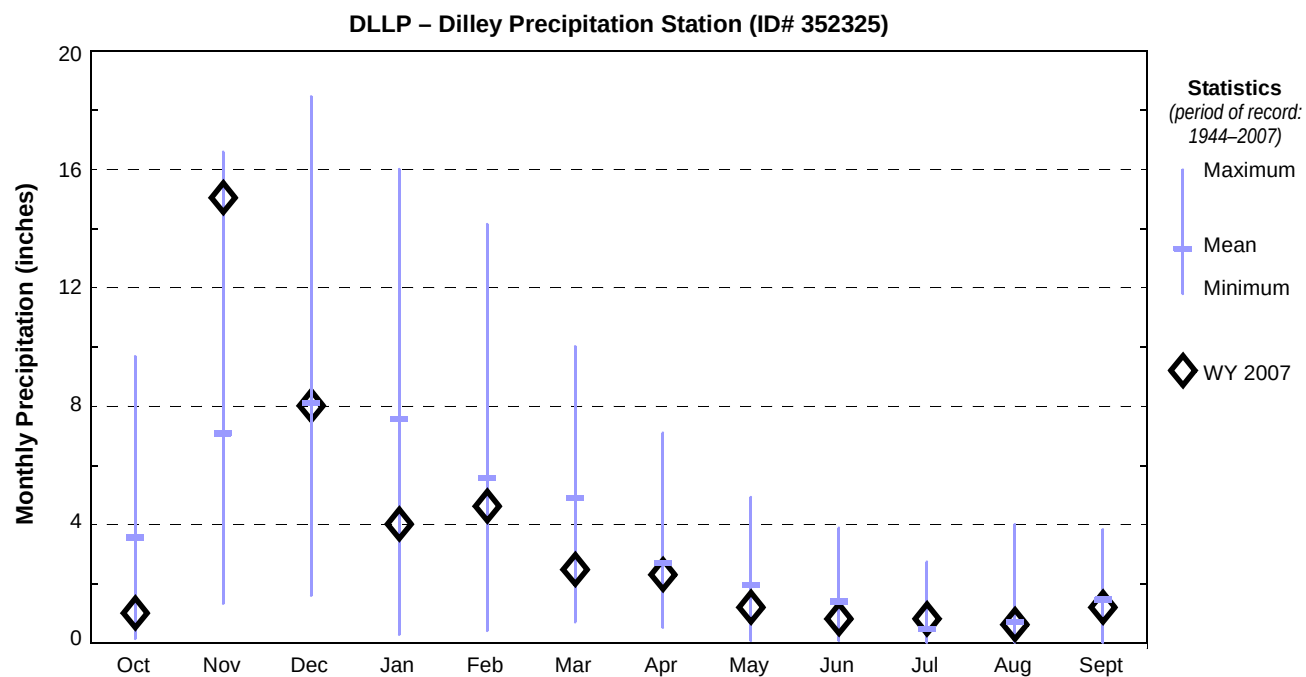
Source Agency: Oregon Climate Service

Latitude: 45 29 Longitude: 123 07

<http://www.ocs.oregonstate.edu>

Water Year*	Total Monthly Precipitation (inches)											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1944			4.08	5.12	3.98	3.22	3.93	0.94	0.74	1.06	0.20	2.80
1945	1.56	5.5	2.74	4.13	6.99	7.18	2.09	3.71	0.22	0.20	0.13	3.17
1946	1.45	11.82	7.56	7.21	7.61	6.09	1.41	1.51	1.74			
1947		10.27	5.38	5.47	4.46	4.69	1.30	0.09	3.12	0.86	0.50	1.28
1948	9.68	4.08	4.99	7.28	7.52	4.55	3.97	4.92	0.90	0.59	1.35	2.72
1949	2.52	8.69	10.59	2.06	11.83	2.99	0.55	2.98	0.55	0.82	0.03	0.58
1950	2.48	7.55	5.93	10.43	6.58	6.77	1.46	0.48	2.19	0.54	0.84	1.13
1951	9.62	9.55	8.93	11.03	5.01	4.74	0.88	1.67	0.15	0.11	0.15	2.38
1952	6.96	7.89	9.70	7.08	5.65	4.20	1.35	0.77	2.62	0.00	0.03	0.38
1953	0.61	2.29	9.28	14.98	4.86	5.36	2.74	2.87	1.25	0.10	1.51	1.60
1954	3.55	7.37	7.48	13.80	7.32	2.95	3.26	1.33	2.06	0.56		1.97
1955	3.92	7.61	7.66	4.41	4.36	5.55	4.56	0.77	1.78	1.41	0.00	2.65
1956	6.97	10.49	12.90	13.36	4.43	7.27	0.64	1.42	1.29	0.03	1.32	1.84
1957	4.83	1.98	4.69	3.02	5.77	7.09	2.09	3.03	1.52	0.27	0.47	0.75
1958	3.55	3.77	10.90	9.29	8.50	2.62	4.24	1.05	2.96	0.02	0.00	0.59
1959	2.34	8.74	6.09	12.18	5.10	4.42	1.76	2.55	2.57	0.92	0.08	2.75
1960	2.71	4.44	4.86	6.56	6.94	7.27	4.65	4.37	0.43	0.00	0.74	0.53
1961	4.24	10.95	3.64	7.05	11.15	10.02	2.94	2.36	0.24	0.48	0.52	0.46
1962	5.98	4.95	7.67	1.61	4.14	5.78	4.79	2.43	0.44	0.00	1.43	2.08
1963		11.23	3.48	1.91	5.39	6.65	4.03	2.82	1.94	1.01	1.64	1.42
1964	3.68	7.10	5.24	16.01	1.47	5.23	1.34	0.85	1.53	0.66	0.54	0.23
1965	1.87	9.80	14.38	9.04	2.72	0.69	2.21	1.14	0.91	1.02	0.87	0.00
1966	1.92	8.73	9.87	9.62	2.67	8.47	0.66	1.28	1.84	1.10	0.46	1.39
1967	3.62	6.98	11.57	10.14	1.83	6.07	2.63	0.64	0.76	0.00	0.00	0.65
1968	6.35	3.28	7.17	7.94	9.00	5.53	1.41	3.01	2.10	0.11	4.01	2.08
1969	5.45	7.48	12.91	9.61	4.33	1.21	2.19	1.72	2.01	0.02	0.00	2.14
1970	4.64	3.26	11.18	14.21	5.81	3.12	2.64	1.26	0.57	0.01	0.00	1.26
1971	4.01	5.89	14.28	8.96	4.74	8.29	3.68	1.22	1.61	0.13	0.36	3.19
1972	3.21	8.35	10.45	8.19	4.90	7.32	4.41	1.39	0.56	0.28	0.25	3.12
1973	0.61	4.78	11.33	5.37	2.18	3.40	1.57	1.40	1.27	0.05	0.76	3.30
1974	3.36	16.59	12.01	11.25	6.75	8.51	2.96	1.46	0.65	1.25	0.00	0.07
1975	1.32	7.50	8.64	8.99	7.00	4.86	1.75	1.94	0.62	0.44	1.60	0.00
1976	6.42	5.16	8.59	6.85	7.20	5.54	2.31	1.30	0.39	0.82	2.41	0.79
1977	1.30	1.32	1.60	1.05	2.98	4.46	0.51	2.50	1.12	0.60	3.07	3.18
1978	2.94	7.21	11.39	7.37	5.92	2.27	3.70	2.67	0.99	0.99	1.65	3.23
1979	0.71	3.85	3.77	3.06	8.00	2.49	2.41	2.07	0.58	0.13	0.94	2.54
1980	6.67	3.93	7.50	8.14	6.25	4.02	3.70	1.21	2.24	0.22	0.06	1.36
1981	1.63	8.35	11.43	2.65	5.17	2.98	2.17	1.96	3.00	0.15	0.05	3.83
1982	5.90	5.89	12.15	5.82	7.75	3.89	4.83	0.44	1.31	0.36	1.24	2.40
1983	4.87	5.36	11.31	7.40	12.20	8.23	2.49	1.40	1.65	2.74	1.38	0.54
1984	1.32	13.07	6.87	2.70	5.95	4.29	3.95	3.36	3.88	0.00	0.00	1.21
1985	4.63	12.83	3.87	0.27	3.18	4.56	1.20	0.36	2.94	0.45	1.45	1.63
1986	3.97	3.95	2.77	8.38	7.35	3.81	1.59	1.99	0.37	0.85	0.00	2.74
1987	3.31	6.52	5.47	8.25	5.18	7.47	1.72	1.85	0.19	0.85	0.15	0.20
1988	0.20	3.66	10.41	8.14	1.16	3.67	2.6	2.23	2.27	0.07	0.17	1.16
1989	0.14	10.98	3.81	4.14	3.51	7.05	0.81	1.62	0.78	0.36	0.93	0.51
1990	2.47	4.02	3.47	10.42	7.14	2.08	1.71	2.98	1.82	0.27	0.93	0.72
1991	4.14	4.15	3.36	3.97	4.46	5.07	6.36	2.19	1.39	0.29	0.39	0.24
1992	1.91	6.26	4.91	6.62	3.97	1.19	4.79	0.07	0.80	0.31	0.51	1.28
1993	2.79	5.44	7.42	5.39	0.78	5.00	6.76	3.79	1.95	1.76	0.08	0.00
1994	1.26	1.49	9.12	5.67	6.45	3.14	1.41	0.89	0.95	0.00	0.24	0.58
1995	4.64	8.12	10.29	10.56	5.02	6.53	3.74	1.29	1.76	0.45	0.49	1.74
1996	3.41	9.78	10.09	9.69	12.68	2.46	7.09	4.84	1.12	0.6	0.26	2.43
1997	5.37	8.05	18.46	9.63	2.51	8.29	2.98	2.65	2.38	0.47	1.38	3.33
1998	6.58	8.36	3.54	12.10	7.66	5.20	1.76	4.82	1.05	0.09	0.00	0.73
1999	3.24	13.00	10.81	10.29	14.15	4.85	1.90	1.71	0.76	0.02	1.14	0.04
2000	2.55	10.10	7.10	7.81	5.46	3.25	1.52	2.15	1.21	0.00	0.22	0.89
2001	3.09	2.46	4.20	2.17	1.98	2.25	1.72	1.60	1.84	0.32	1.27	0.54
2002	2.91	10.26	10.66	9.00	3.61	4.04	1.93	1.14	1.32	0.19	0.07	0.57
2003	0.59	3.35	12.22	8.61	3.69	7.41	4.24	0.46	0.07	0.01	0.32	0.79
2004	2.87	4.10	9.01	7.70	5.21	2.32	2.24	1.25	1.21	0.00	1.66	1.56
2005	3.80	2.53	3.89	4.25	0.41	5.97	2.79	4.26	1.84	0.29	0.13	0.24
2006	4.16	7.58	11.79	14.09	3.38	4.21	2.58	2.26	0.92	0.17	0.00	0.63
2007	1.01	15.05	8.03	4.03	4.62	2.48	2.32	1.22	0.83	0.82	0.63	1.21
MIN	0.14	1.32	1.60	0.27	0.41	0.69	0.51	0.07	0.07	0.00	0.00	0.00
MAX	9.68	16.59	18.46	16.01	14.15	10.02	7.09	4.92	3.88	2.74	4.01	3.83
MEAN	3.51	7.06	8.09	7.56	5.56	4.88	2.69	1.94	1.38	0.46	0.69	1.45

*Water Year (WY) begins October 1st of the previous calendar year and ends September 30th of current year.



FGOP – FOREST GROVE PRECIPITATION STATION (VERBOORT)

Elevation: 180 ft

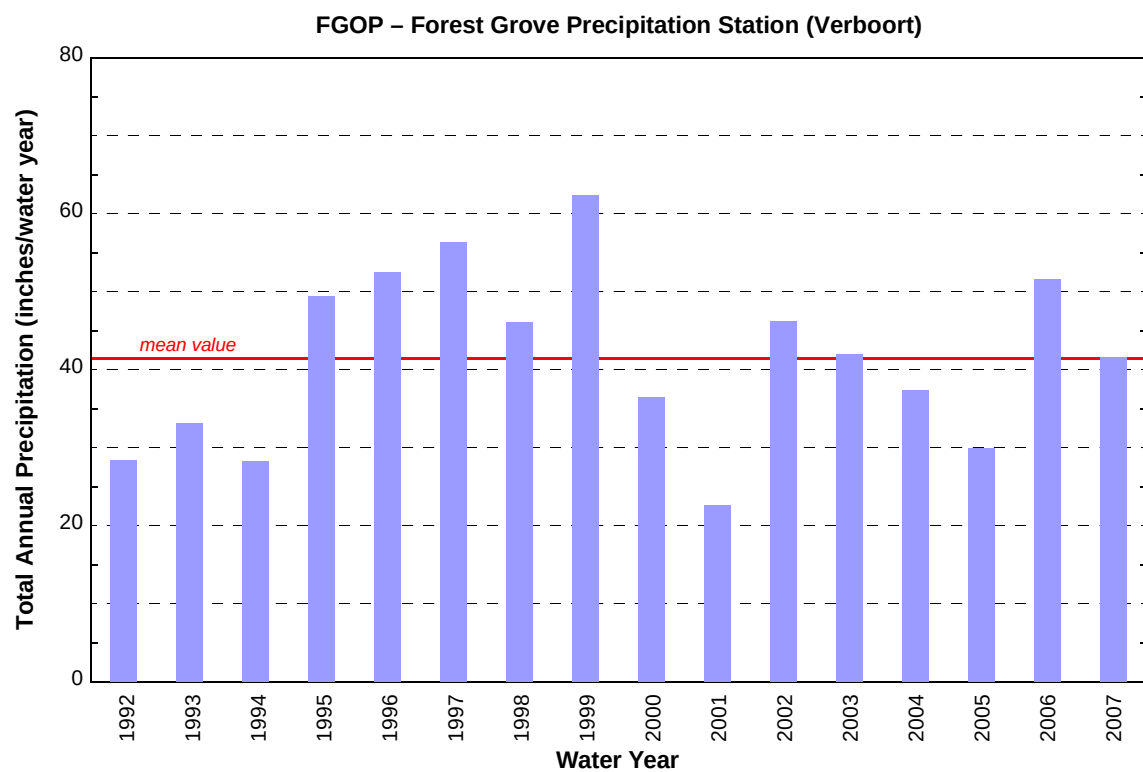
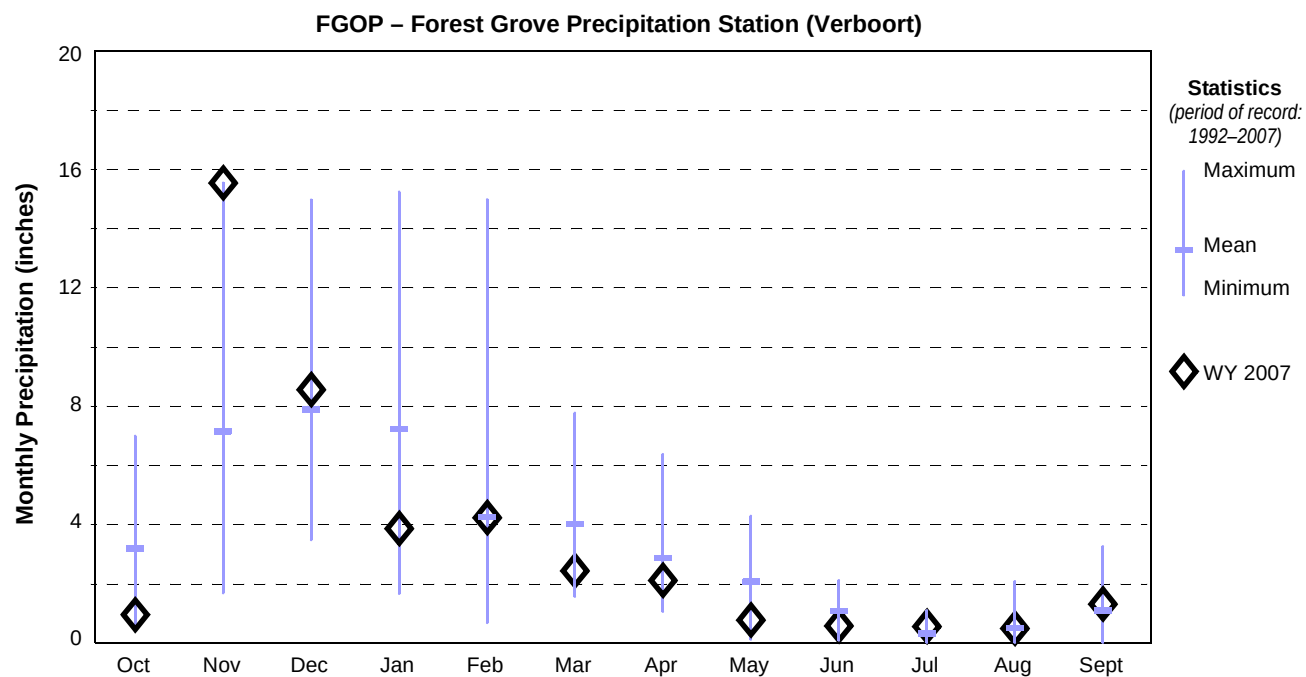
Source Agency: US Bureau of Reclamation – Agrimet

Latitude: 45 33 11 Longitude: 123 05 01

<http://www.usbr.gov/pn/agrimet/wxdata.html>

Water Year*	Total Monthly Precipitation (inches)											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1992	1.5	5.1	3.7	5.9	3.6	1.6	4.4	0.1	0.9	0.3	0.3	1.1
1993	2.4	4.2	6.0	3.2	2.2	4.2	4.9	4.2	0.6	1.1	0.1	0.0
1994	1.1	1.7	7.6	5.0	5.8	2.3	1.5	1.3	1.0	0.0	0.2	0.8
1995	6.3	7.5	7.6	9.7	4.1	5.8	3.1	1.6	1.2	0.5	0.5	1.6
1996	3.1	11.7	8.6	9.1	3.6	2.3	6.4	4.1	0.9	0.5	0.3	2.0
1997	4.5	8.0	15.0	7.6	1.8	7.8	3.3	1.8	1.8	0.2	1.3	3.3
1998	7.0	7.1	3.5	9.1	7.2	4.6	1.4	4.3	1.1	0.1	0.0	0.8
1999	3.4	13.7	9.8	9.7	15.0	5.4	1.7	1.7	1.0	0.4	0.7	0.0
2000	2.8	7.8	5.9	7.7	4.0	2.4	1.1	2.1	1.6	0.1	0.1	0.9
2001	3.1	2.6	4.3	1.7	1.7	2.1	1.7	1.1	2.1	0.4	1.2	0.6
2002	2.8	11.2	9.7	9.3	3.5	4.6	1.6	1.2	1.2	0.2	0.0	0.9
2003	0.4	3.0	12.2	10.1	3.2	6.2	5.1	0.6	0.1	0.0	0.4	0.7
2004	3.5	4.6	7.9	6.1	5.2	1.9	2.6	1.1	0.8	0.0	2.1	1.5
2005	3.8	2.8	4.4	2.5	0.7	6.0	2.6	4.1	1.6	0.2	0.1	1.3
2006	4.3	7.4	11.4	15.2	2.2	4.4	2.2	2.9	0.7	0.2	0.1	0.6
2007	1.0	15.6	8.6	3.9	4.2	2.5	2.1	0.8	0.6	0.6	0.5	1.3
MIN	0.4	1.7	3.5	1.7	0.7	1.6	1.1	0.1	0.1	0.0	0.0	0.0
MAX	7.0	15.6	15.0	15.2	15.0	7.8	6.4	4.3	2.1	1.1	2.1	3.3
MEAN	3.18	7.13	7.88	7.23	4.24	4.00	2.84	2.05	1.07	0.29	0.49	1.09

*Water Year (WY) begins October 1st of the previous calendar year and ends September 30th of current year.



BVNP – BEAVERTON 2 SSW PRECIPITATION STATION (ID# 350595)

Elevation: 270 ft

Latitude: 45 27 Longitude: 122 49

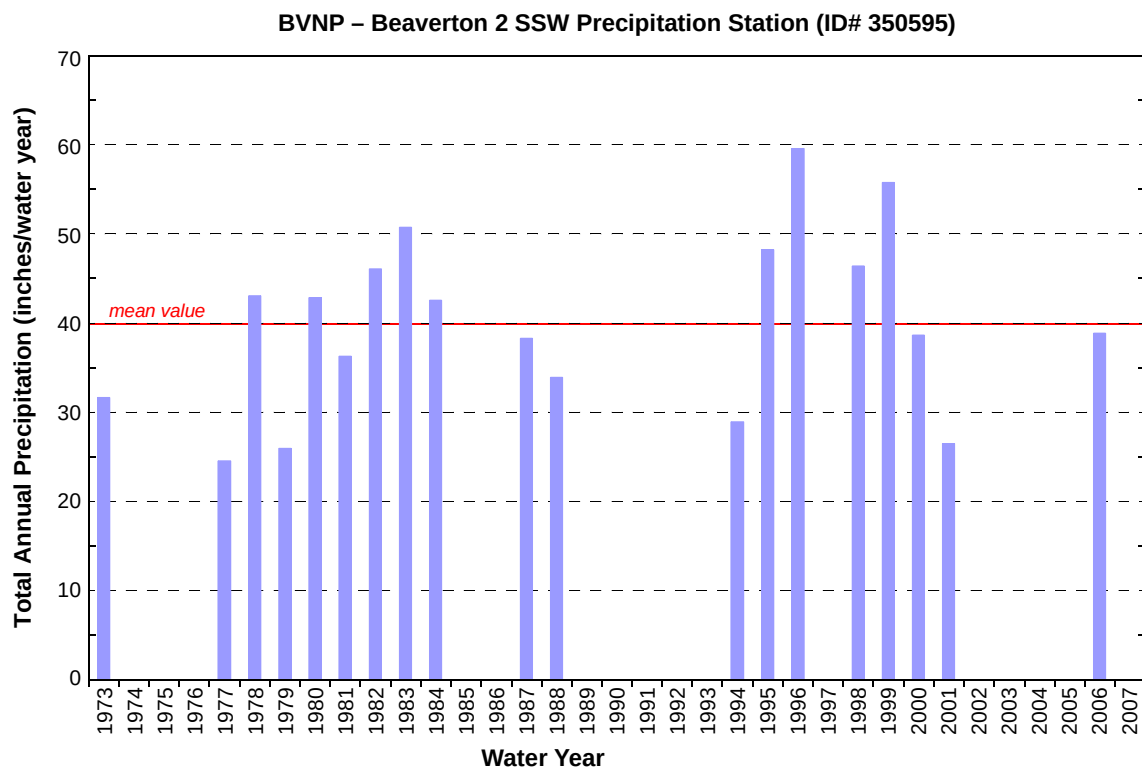
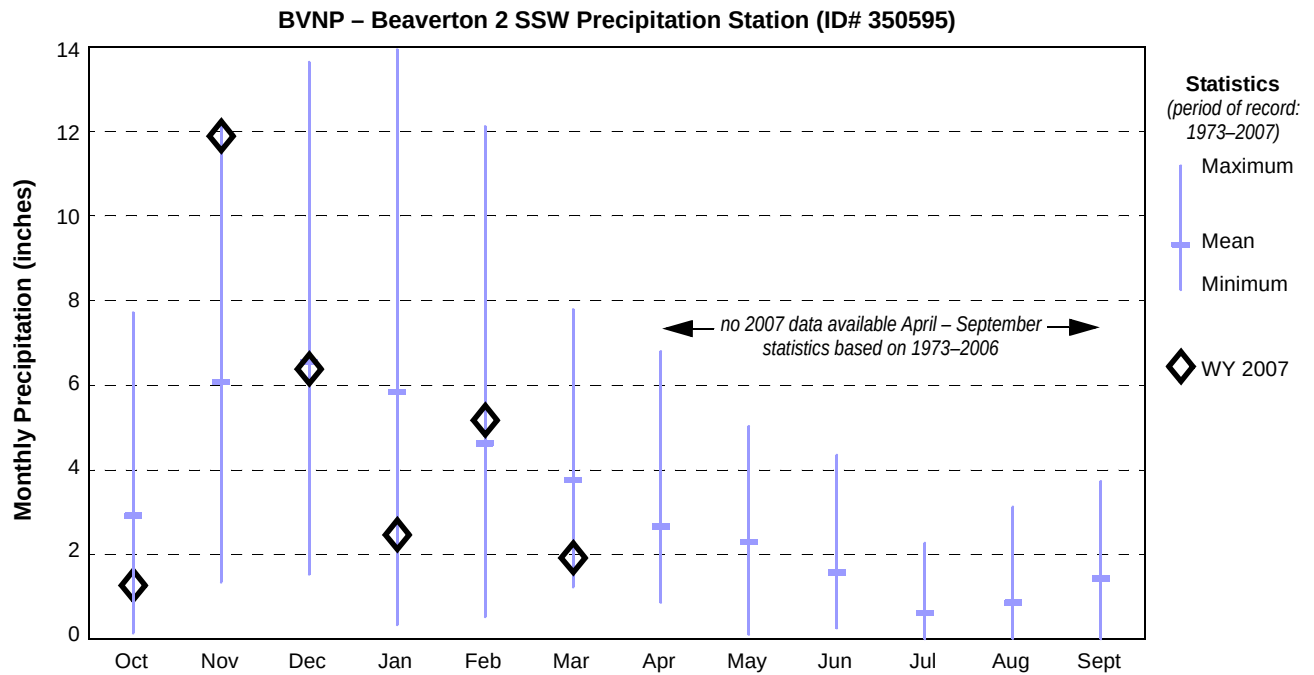
Source Agency: Oregon Climate Service

<http://www.ocs.oregonstate.edu>

Water Year*	Total Monthly Precipitation (inches)											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1973	0.82	4.49	9.18	4.27	1.85	2.99	0.90	0.97	1.53	0.04	0.94	3.59
1974	2.95		9.97	9.15	4.68	5.32	2.62	2.14	0.89	1.69	0.06	0.12
1975	1.62	7.11	6.32		5.07	4.39	1.76	1.91	0.91	0.82	2.06	0.00
1976	4.67	4.01		5.32	5.05	3.13	2.50	1.92	0.58	1.18	2.78	0.91
1977	1.29	1.33	1.53	1.26	2.22	3.21	0.86	4.11	1.35	0.58	3.07	3.69
1978	2.66	4.95	8.50	5.51	4.25	1.54	4.15	3.51	0.68	1.08	2.51	3.73
1979	0.52	3.28	3.06	1.28	6.72	2.07	2.76	1.86	0.59	0.25	1.17	2.35
1980	5.34	3.74	6.34	9.05	4.29	3.87	3.34	1.96	2.71	0.17	0.28	1.72
1981	1.32	6.75	8.89	2.00	3.90	2.63	2.20	2.12	3.54	0.17	0.05	2.71
1982	4.50	5.04	9.35	6.60	6.22	2.64	4.48	0.76	1.13	0.97	1.08	3.31
1983	3.90	4.28	9.26	5.23	9.88	7.21	1.91	1.80	2.33	2.27	2.13	0.52
1984	1.68	11.57	5.88	2.10	3.95	3.75	3.47	3.91	4.35	0.00	0.16	1.68
1985	3.48	10.68	3.09	0.33	2.57	4.00	0.93			0.31	1.12	1.95
1986	2.74		2.31	5.66	5.95	2.72	1.24	2.12	0.42	1.28	0.04	3.33
1987	2.34	6.56	4.44	6.84	5.18	6.35	1.79	2.31	0.56	1.54	0.01	0.34
1988	0.47	2.16	9.61	6.73	1.20	3.38	3.47	2.91	2.58	0.15	0.15	1.08
1989	0.13	7.88	2.92				1.28	1.92	0.85	0.99	0.94	1.00
1990	1.47	3.45	3.08	9.96	5.15	3.42	3.26	1.87	2.37	0.48		0.58
1991	4.27	4.27	2.69	3.19	4.69	4.17		2.83	2.38	0.13	0.51	0.19
1992	2.10	6.43	4.26		4.99	1.23		0.10	1.36	0.40	0.30	1.12
1993	2.44	5.45			0.52	5.17		3.50	1.54	1.26	0.24	0.00
1994	0.85	2.17	7.08	4.59	5.71	2.76	2.16	0.97	1.41	0.06	0.09	1.03
1995	6.26	7.05	7.33	7.48	4.00	4.92	3.77	1.43	2.54	1.06	1.01	1.40
1996	3.68	9.84	7.84	7.26	12.12	3.16	6.22	5.03	0.84	0.60	0.23	2.80
1997	5.63	8.96	13.64	10.04	1.78	7.79	3.02	1.83	2.64	0.97		1.47
1998	7.72	5.48	4.80	8.44	5.73	4.30	1.54	4.91	1.86	0.66	0.04	0.86
1999	3.51	12.22	9.09	8.71	10.62	4.99	2.16	2.07	0.98	0.34	0.89	0.15
2000	2.24	7.57	4.61	7.31	6.17	3.32	1.96	2.45	1.10	0.07	0.26	1.53
2001	4.51	3.01	4.56	1.91	1.82	3.20	2.30	1.25	1.78	0.60	0.81	0.68
2002	3.52	7.68	9.20	8.06	4.35	4.11	2.69	1.73	1.46	0.07	0.12	
2003	0.53	2.49	12.50	7.51	3.55	5.92		0.89	0.26		1.14	1.02
2004	3.84	5.70	9.48		4.56	2.24		1.29	1.16	0.00	3.12	
2005	4.37		3.60	2.61	0.61	3.52	3.41		1.89	0.15	0.37	1.89
2006	2.81	6.67	4.96	13.94	2.57	2.03	1.10	2.75	0.78	0.18	0.05	0.99
2007	1.27	11.90	6.39	2.46	5.17	1.92	†	†	†	†	†	†
MIN	0.13	1.33	1.53	0.33	0.52	1.23	0.86	0.10	0.26	0.00	0.01	0.00
MAX	7.72	12.22	13.64	13.94	12.12	7.79	6.22	5.03	4.35	2.27	3.12	3.73
MEAN	2.90	6.07	6.54	5.83	4.62	3.75	2.53	2.22	1.56	0.62	0.87	1.49

*Water Year (WY) begins October 1st of the previous calendar year and ends September 30th of current year.

†No data available after March 2007



DURP – DURHAM WASTEWATER TREATMENT PLANT PRECIPITATION STATION

Elevation: 140 ft

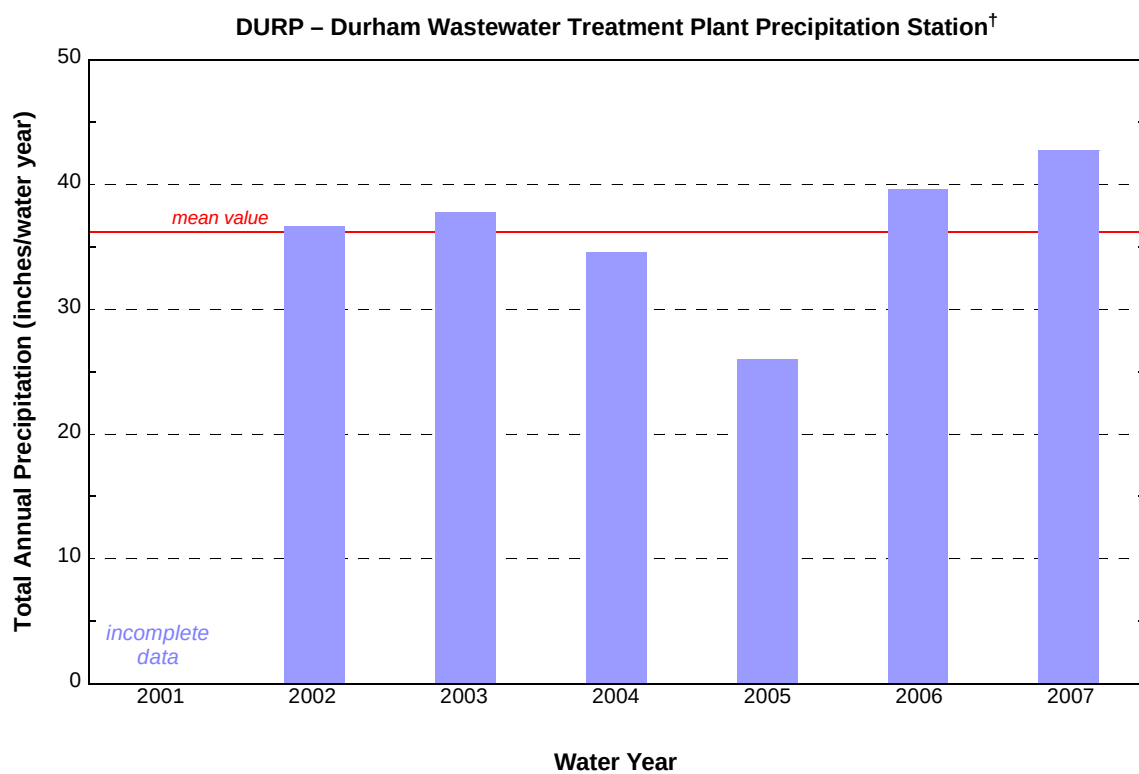
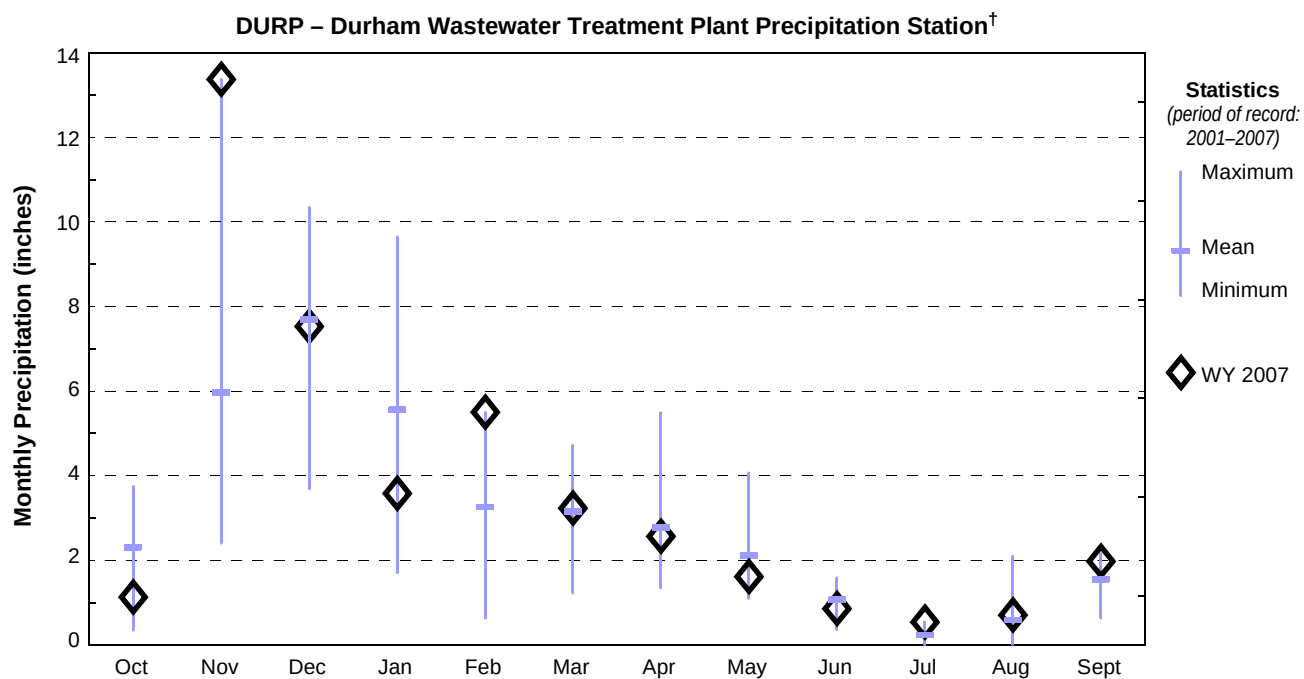
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Source Agency: US Geological Survey

Water Year*	Total Monthly Precipitation (inches) [†]											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
2001									1.5	0.8	0.7	0.7
2002	3.8	6.9	5.9	5.4	3.4	3.5	2.1	1.6	1.3	0.5	0.2	2.2
2003	0.4	2.6	10.4	8.1	3.2	4.7	5.5	1.3	0.4	0.0	0.4	0.9
2004	2.5	4.7	8.9	4.8	4.7	1.2	1.3	1.1	1.3	0.0	2.1	1.8
2005	3.1	2.4	3.7	1.7	0.6	3.5	3.1	4.1	1.6	0.4	0.0	1.8
2006	2.9	5.8	9.7	9.7	2.1	2.7	2.1	3.0	0.9	0.0	0.0	0.6
2007	1.1	13.4	7.5	3.6	5.5	3.2	2.6	1.6	0.9	0.5	0.7	2.0
MIN	0.4	2.4	3.7	1.7	0.6	1.2	1.3	1.1	0.4	0.0	0.0	0.6
MAX	3.8	13.4	10.4	9.7	5.5	4.7	5.5	4.1	1.6	0.5	2.1	2.2
MEAN	2.29	5.97	7.69	5.56	3.25	3.15	2.77	2.11	1.06	0.23	0.58	1.55

*Water Year (WY) begins October 1st of the previous calendar year and ends September 30th of current year.

[†]The USGS adjusted all historical values for precipitation at the Durham Wastewater Treatment Plant in 2006 to correct for systematic undercatch of rainfall.



[†]The USGS adjusted all historical values for precipitation at the Durham Wastewater Treatment Plant in 2006 to correct for systematic undercatch of rainfall.

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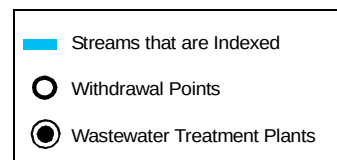
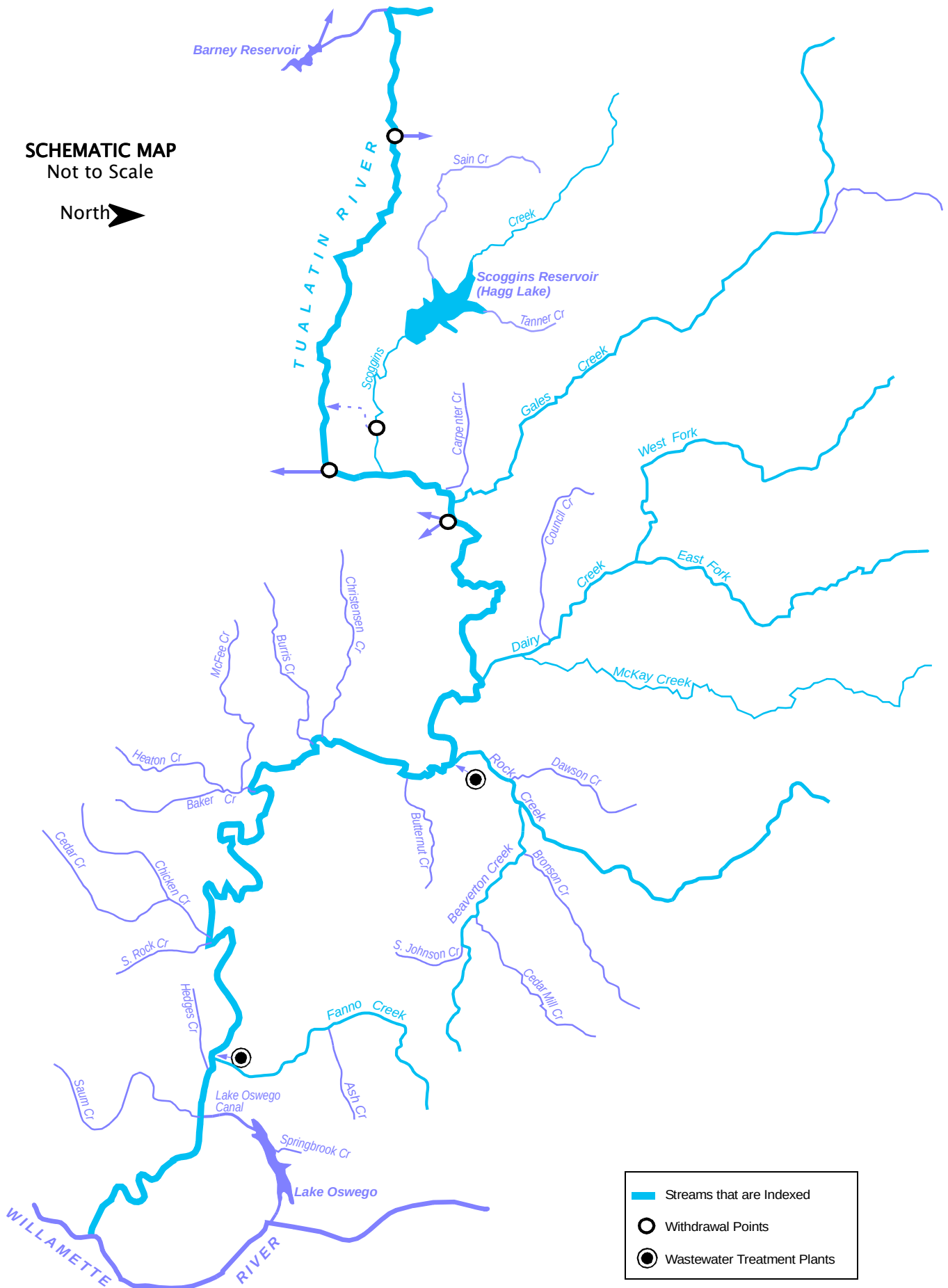
Appendix I

River Mile Indices

STREAMS INDEXED

SCHEMATIC MAP
Not to Scale

North ➔



STREAMS INDEXED

STREAM NAME	HYDROLOGIC UNIT CODE	PAGE
Tualatin River	211400300	I-4
Fanno Creek	2114003000180	I-7
Rock Creek	2114003000420	I-8
Beaverton Creek	2114003000420060	I-9
Dairy Creek	2114003000480	I-10
McKay Creek	2114003000480020	I-11
East Fork Dairy Creek	2114003000480080	I-12
West Fork Dairy Creek	2114003000480090	I-13
Gales Creek	2114003000560	I-14
Scoggins Creek	2114003000640	I-15

TUALATIN RIVER — RIVER MILE INDEX

HUC: 211400300

[Elevation measured relative to 0.00 gage datum; Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code]

River Mile	Bank	Description	Drainage Area (square miles)	Elevation (feet)
0.00		Mouth of Tualatin River at Willamette River (LB of Willamette River @ River Mile 28.5)	712	
0.20		Weiss Bridge – Petes Mtn Rd.		
1.60	RB	Fields Creek (HUC: 02114003000010)		
1.69		State Hwy 212 Bridge (Fields Bridge)		
1.75	LB	West Linn Stream Gage Station – USGS #14207500	706	85.61
2.40	LB	Tate Creek (HUC: 02114003000020)		
3.45		Lake Oswego Corp. Diversion Dam		
4.25		Interstate 205 Bridge		
4.56	LB	Wilson Creek (HUC: 02114003000080)		
5.34	LB	Boat Launch		
5.36	LB	ShIPLEY Creek (HUC: 02114003000100)		
5.38		ShIPLEY Bridge– Stafford Rd. NWS Wire Weight Gage		
5.62	LB	Pecan Creek (HUC: 02114003000120)		
6.02	RB	Athey Creek (HUC: 02114003000123)		
6.70	RB	Saum Creek (HUC: 02114003000130)		
6.70		Oswego Canal Diversion		
	LB	River Elevation Recording Gage #14206990, Headgate, and Canal Recording Gage #14207000		
7.36	LB	Boat Launch – Dogwood Drive		
7.67	RB	Browns Ferry Park Canoe Launch		
7.83		Clackamas County – Washington County Boundary (Underground Cable Crossing Sign)		
8.18		Interstate 5 Bridge		
8.60		Boones Ferry Road Bridge		
8.64	RB	Hedges Creek (HUC: 02114003000150)		
8.90	RB	Tualatin Park Boat Launch		
8.91		Southern Pacific RR Bridge		
	RB	Tualatin River at Tualatin Elevation Recording Station #14206956 (formerly #14206960)		
9.32	LB	Fanno Creek (HUC: 02114003000180) <i>[Index on page I-13]</i>	26.8	
9.33	LB	Durham Wastewater Treatment Plant Outfall		
9.34		Oregon Electric RR Bridge		
9.80	LB	Cook Park Boat Launch		
11.50		US Hwy. 99W Bridge (Pacific Highway)		
	LB	Canoe Launch(access from southeast of bridge)		
12.68		Overhead BPA Transmission Line; Vancouver–Eugene		
12.80	LB	Rivermeade Boat Launch (Private)		
15.20	RB	Rock Creek–South (HUC: 02114003000250)	13.7	
15.50	RB	Chicken Creek (HUC: 02114003000270)		
16.09	RB	Chicken Creek Drainage Ditch		
16.22		Shamberg Bridge (Elsner Road)		
	RB	Rated Staff Gage for Stream Flow		

TUALATIN RIVER — RIVER MILE INDEX

HUC: 211400300

[Elevation measured relative to 0.00 gage datum; Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code]

River Mile	Bank	Description	Drainage Area (square miles)	Elevation (feet)
21.12		Overhead BPA Transmission Line; Big Eddy–Keeler		
26.90		State Hwy. 210 bridge (Scholls)		
28.20	RB	McFee Creek (HUC: 02114003000310)		
30.76	LB	Unnamed Stream (HUC: 02114003000320) (Jacktown)		
31.62	RB	Burris Creek (HUC: 02114003000330)		
31.92	RB	Christensen Creek (HUC: 02114003000350)		
33.30		Harris Bridge (State Highway 208)	568	100.42
	LB	Farmington Recording Stream Gage #14206500		
35.68	LB	Butternut Creek (HUC: 02114003000380)		
37.38	LB	Gordon Creek (HUC: 02114003000400)		
38.08	LB	Rock Creek Wastewater Treatment Plant Outfall		
38.09	LB	Rock Creek (HUC: 02114003000420)	74.6	
		Beaverton Creek (HUC:02114003000420060)	36	
38.44	LB	Rood Bridge Small Watercraft Launch		
		Rood Bridge Road Bridge		
	LB	Recording Stream Gage #14206295		105.16
40.44	RB	Davis Creek (HUC: 02114003000430)		
41.64		Minter Bridge Road Bridge		
43.88	LB	Jackson Slough		
		Jackson Bottom Wetlands		
	LB	Hillsboro Wastewater Treatment Plant Effluent Outfall		
44.40		State Highway 219 Bridge		
	RB	Recording Stream Gage #14206241		
44.73	LB	Dairy Creek (HUC: 02114003000480) <i>[Index on page I-9]</i>	226	
		McKay Creek (LB) (HUC: 02114003000480020) <i>[Index on page I-10]</i>	63.4	
		East Fork Dairy Creek (HUC: 02114003000480080) <i>[Index on page I-11]</i>		
		West Fork Dairy Creek (HUC: 02114003000480090) <i>[Index on page I-12]</i>		
51.54		Golf Course Road Bridge		
	RB	Golf Course Recording Stream Gage #14204800		
53.74		LaFollett Road (Bridge removed)		
55.24	LB	Forest Grove Wastewater Treatment Plant Outfall		
		Fern Hill Wetlands		
55.32		Fernhill Road Bridge		
56.10		Springhill Pump Plant Intake		
56.80	LB	Gales Creek (HUC: 02114003000560) <i>[Index on page I-8]</i>	78.6	
57.38	LB	Carpenter Creek (HUC: 02114003000580)		
57.84	LB	Dilley Creek (HUC: 02114003000600)		
58.04	LB	Johnson Creek (HUC: 02114003000602)		
58.82		Springhill Road Bridge	125	147.57
	LB	Tualatin River at Dilley Stream Gage; USGS #14203500		
59.02	LB	O'Neil Creek (HUC: 02114003000620)		
60.00	LB	Scoggins Creek (HUC: 02114003000640) <i>[Index on page I-7]</i>		
60.80	RB	Wapato Creek (HUC: –02114003000670)		
		Wapato Creek Improvement District Return Flow		
62.00	RB	Wapato Improvement District Headgate)		
62.24		Southern Pacific RR Bridge		

TUALATIN RIVER — RIVER MILE INDEX

HUC: 211400300

[Elevation measured relative to 0.00 gage datum; Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code]

River Mile	Bank	Description	Drainage Area (square miles)	Elevation (feet)
62.25		State Highway 47 Bridge (Gaston)		
		New Tualatin River at Gaston Recording Stream Gage #14202510		
62.30		Bates Road Bridge		
62.80	LB	Black Jack Creek (HUC: 02114003000700)		
62.90		Overhead BPA Transmission Line; Forest Grove–McMinnville		
63.13		TVID Patten Valley Pump Station Outfall #1		
63.87	RB	Discontinued Tualatin River at Gaston Recording Stream Gage	48.5	
64.26		TVID Patten Valley Pump Station Outfall #2		
65.34	RB	Williams Canyon (HUC: 02114003000730)		
65.90		Mt. Richmond Road Bridge		
67.30	LB	Hering Creek (HUC: 02114003000760)		
67.83		South Road Bridge (Cherry Grove)		
68.44	RB	Roaring Creek (HUC: 02114003000790)		
69.42		Little Lee Falls		
70.70		Raines Bridge– Tualatin River below Lee Falls		
	LB	Rated Staff Gage for Stream Flow		
71.07		Lee Falls		
73.28		Haines Falls		
73.30	LB	City of Hillsboro Haines Falls Intake		
74.00	LB	Lee Creek (LB–02114003000860)		
74.05	RB	Patten Creek (HUC: 02114003000870)		
75.70	LB	Sunday Creek (HUC: 02114003000900)		
76.60	LB	Maple Creek (HUC: –02114003000940)		
76.95		Ki–A–Cut Falls		
78.00	RB	Barney Reservoir Aqueduct Outfall		
79.3+		Headwaters of Tualatin River		

FANNO CREEK — STREAM MILE INDEX

HUC: 2114003000180

[Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code, ISWR= Instream Water Right]

River Mile	Bank	Description
0.00		Confluence with the Tualatin River (HUC: 02114003000) at River Mile 9.32
0.86		Oregon Electric RR Bridge
1.19		Durham Road Bridge USGS Gage #14206950
2.00	LB	Ball Creek (HUC: 02114003000180020)
2.12		Bonita Street Bridge – Rated Staff Gage
3.28		SW Hall Blvd Bridge
3.95		SW Ash Avenue Bridge
4.28		SW Main St Bridge
4.30		State Hwy 99W Bridge
4.49		SW Grant Ave Bridge
5.07		SW Tiederman Ave. Bridge
5.08	RB	Summer Creek (HUC: 02114003000180070) Rated Staff Gage at Fowler School
5.32		SW Tigard Ave Bridge
5.53		SW North Dakota St Bridge
5.54	LB	Ash Creek (HUC: 02114003000180080) Rated Staff Gage at Greenburg Road
6.38		Scholls Ferry Road Bridge
7.30		Tuckerwood – Rated Staff Gage
7.66		SW Hall Blvd Bridge
8.40		SW Denny Rd Bridge
8.60		Oregon Electric RR Bridge
8.70		State Hwy 217 Bridge
9.42		Scholls Ferry Road Bridge Rated Staff Gage
9.66		SW 92nd Ave Bridge
9.90		SW Bohmann Parkway Bridge
10.16		SW 86th Ave Bridge
10.78		SW Nicol Road Bridge
11.76		Olson Road Bridge
11.96	RB	Sylvan Creek (HUC: 02114003000180190)
11.98		SW Beaverton–Hillsdale Hwy (State Hwy 10)
12.10		Washington County – Multnomah County Line
12.58		SW 56th Ave Bridge USGS Gage #14206900
12.81		SW Shattuck Road Bridge
13.22		SW 45th Ave Bridge
13.23	RB	Ivey Creek (HUC: 02114003000180250)
13.32		SW 43rd Ave Bridge
13.38		SW 42nd Ave Bridge
13.48		SW 39th Ave Bridge
13.98		SW Beaverton–Hillsdale Hwy (State Hwy 10)
14.10		SW 30th Ave Bridge

ROCK CREEK — STREAM MILE INDEX

HUC: 2114003000420

[Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code]

River Mile	Bank	Description
0.8		River Road Bridge
1.2		Southern Pacific RR Bridge
1.2+		State Highway 8 Bridge – Rated Staff Gage for Stream Flow
2.4		SW Brookwood Avenue Bridge
3.1	RB	Dawson Creek
4.4	LB	Beaverton Creek
4.5		Baseline Road Bridge
4.9		NW Quatama Road Bridge – Rated Staff Gage for Stream Flow
5.5		Oregon Electric RR Bridge
5.7		NW 216th Avenue Bridge
6.7		NW Cornell Road Bridge
7.8		US Highway 26 Bridge
9.0		West Union Road Bridge – Rated Staff Gage for Stream Flow
9.3	RB	Holcomb Creek
10.0		NW 185th Avenue Bridge
10.9	LB	Abbey Creek
11.0		Germantown Road Bridge
11.9		Cornelius Pass Road Bridge
13.0		Old Cornelius Pass Road Bridge
14.1		Burlington Northern RR Bridge
15.1		Rated Staff Gage for Stream Flow
16.4		Rock Creek Road Bridge
16.5		Van Raden Reservoir
19.1		Headwaters

BEAVERTON CREEK — STREAM MILE INDEX

HUC: 2114003000420060

[Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code]

River Mile	Bank	Description
0.00		Confluence with Rock Creek (LB, HUC: 02114003000480080260) @ River Mile 4.3
0.40		Southwest Baseline Road
1.16		Southwest 216th Avenue Road Bridge— Rated Staff Gage for Stream Flow
2.20	RB	Bronson Creek (HUC: 02114003000420060010)
3.32	RB	Willow Creek (HUC: 02114003000420060050)
4.90		Southwest 170th Avenue Road Bridge— Rated Staff Gage for Stream Flow
5.47	LB	Unnamed Stream (HUC: 02114003000420060096)
6.06	LB	Johnson Creek (HUC: 02114003000420060100)
6.30	LB	Unnamed Stream (HUC: 02114003000420060120)
6.66		Oregon Electric Railroad
7.45		Cedar Hills Boulevard
7.90	RB	Reasoners Creek (HUC: 02114003000420060130)
8.75+		Headwaters

DAIRY CREEK — STREAM MILE INDEX

HUC: 02114003000480

[Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code]

River Mile	Bank	Description
0.00		Confluence with Tualatin River (HUC: 0211400300) @ River Mile 44.73
1.65		Southern Pacific RR Bridge
2.06		State Highway 8 Bridge Dairy Creek at TV Hwy Recording Stream Gage #14206200
2.20		Oregon Electric RR Bridge
2.26	LB	McKay Creek (HUC: 02114003000480020)
3.53	RB	Council Creek (HUC: 02114003000480040)
6.02		Susbauer Road Bridge (County Road 196)
7.39		BPA Power Line Crossing
8.51		Cornelius–Schefflin Road Bridge (County Road 2161) Rated Staff Gage for Stream Flow
10.55		Confluence of East Fork Dairy Ck (HUC: 02114003000480080) & West Fork Dairy Ck (02114003000480090)

MC KAY CREEK — STREAM MILE INDEX

HUC: 2114003000480020

[Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code]

River Mile	Bank	Description
0.00		Confluence with Dairy Creek (HUC: 02114003000480) @ River Mile 2.26
1.31		Padgett Road Bridge (County Road 2245)
2.25		Hornecker Road Bridge (County Road 2393) Rated Staff Gage for Stream Flow
2.30		Southern Pacific RR Crossing
4.32		Glencoe Road Bridge (County Road A-146½) Rated Staff Gage for Stream Flow
4.46		BPA Transmission Line Crossing
5.34	LB	Waible Creek (HUC: 02114003000480020040)
6.30		NW Old Scotch Church Road Bridge (County Road A-66)
8.00		US Hwy 26 Bridge – Sunset Highway
9.36		NW West Union Road Bridge (County Road 2496) City of North Plains to West
9.38		Southern Pacific RR Crossing
10.94	LB	Jackson Creek (HUC: 02114003000480020100)
12.80		NW Shadybrook Road Bridge (County Road A-110)
15.56		NW Collins Road Bridge (County Road 1889) Rated Staff Gage for Stream Flow
16.56	RB	Brunswick Canyon (HUC: 02114003000480020179)
16.66	LB	East Fork McKay Creek (HUC: 02114003000480020180)
24.0+		Headwaters

EAST FORK DAIRY CREEK — STREAM MILE INDEX

HUC: 2114003000480080

[Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code, ISWR= Instream Water Right]

River Mile	Bank	Description
0.00		Confluence with West Fork Dairy Creek (HUC: 02114003000480090) @ River Mile 10.56 of Dairy Creek (HUC: 02114003000480)
1.24		Roy Road Bridge (County Road A-159) Rated Staff Gage for Stream Flow
2.34		Port of Tillamook Bay RR Bridge
3.04	RB	Bledsoe Creek (HUC: 02114003000480080030)
3.20		Harrington Road Bridge (County Road 1989)
4.80		SP&S RR Bridge
5.56		US Highway 26 Bridges
6.91		Mountaindale Road Bridge (County Road 12)
6.97	LB	Baker Creek (HUC: 02114003000480080080)
8.44		Dairy Creek Road Bridge (County Road 2067) Rated Staff Gage for Stream Flow
8.55		East Fork Dairy Creek at Mountaindale, OR – Former USGS Gage #14205500 (10/40–9/51) Drainage Area = 43.0 square miles
9.62		NW Uebel Road Bridge (County Road 304)
12.50		Murphy Lane Bridge (Private) Rated Staff Gage for Stream Flow
12.82	RB	Big Canyon (HUC: 02114003000480080150)
13.00		ISWR: C-59525 5/25/66
13.95	RB	Murtaugh Creek (HUC: 02114003000480080170)
14.04	LB	Meadow Brook Creek (HUC: 02114003000480080180)
14.17		Meacham Road Bridge (County Road 742)
15.55	LB	Plentywater Creek (HUC: 02114003000480080200) ISWR: C-59527 5/25/66
16.52	RB	Denny Creek (HUC: 02114003000480080210) ISWR: C-59526 5/25/66
16.56		Bacona Road Bridge (County Road 422) Snooseville Corner
17.21		Greener Road Bridge (County Road 1990)
17.34	LB	Rock Creek (HUC: 02114003000480080260)
17.50		Little Bend Park
17.60		Fern Flat Road Crossing (County Road 241)
18.15	LB	Panther Creek (HUC: 02114003000480080280)
18.31		Fern Flat Road Crossing (County Road 241)
18.84	RB	Roundy Creek (HUC: 02114003000480080290)
19.10	RB	Campbell Creek (HUC: 02114003000480080310)
21.30		Washington County – Columbia County Boundary
21.48		BPA Power Line Crossing
22.0+		Headwaters

WEST FORK DAIRY CREEK — STREAM MILE INDEX

HUC: 2114003000480090

[Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code]

River Mile	Bank	Description
0.00		Confluence with East Fork Dairy Creek (HUC: 02114003000480080) @ River Mile 10.56 of Dairy Creek (HUC: 02114003000480)
1.96		Evers Road Bridge (County Road A-187) Rated Staff Gage for Stream Flow
2.09	RB	Lousignant Canal (HUC: 02114003000480090010)
2.82		State Highway 47 Bridge
5.28		Greenville Road Bridge (County Road A-159)
6.20		State Highway 6 Bridge
6.22	RB	Cedar Canyon Creek (HUC: 02114003000480090110)
7.53		Cedar Canyon Road Bridge (County Road 1938) City of Banks to SE
7.70		State Hwy 47 Bridge – Rated Staff Gage for Stream Flow West Fork Dairy Creek at Banks, OR –Former USGS Gage #14205000 (10/40 – 9/43) Drainage Area = 47.5 square miles
7.72		Port of Tillamook Bay RR Bridge
9.30		US Highway 26 Bridge
10.60		NW Green Mountain Road Bridge (County Road 127)
11.02	LB	Garrigus Creek (HUC: 02114003000480090180)
12.19		NW Turk Road Bridge (County Road 233)
12.36	RB	Kuder Creek (HUC: 02114003000480090190)
12.90		NW Pihl Road Bridge (County Road 1045) Community of Manning
13.33		Port of Tillamook Bay RR Bridge
13.48		Port of Tillamook Bay RR Bridge
13.58	LB	Witcher Creek (HUC: 02114003000480090200)
14.37		Port of Tillamook Bay RR Bridge
14.50		US Highway 26 Bridge
15.00		NW Fisher Road Bridge (County Road 394)
15.11	LB	Mendenhall Creek (HUC: 02114003000480090220)
15.58	RB	Burgholzer Creek (HUC: 02114003000480090230)
15.60		US Highway 26 Bridge
16.00		Community of Buxton – ½ mile east
17.02	LB	Williams Creek (HUC: 02114003000480090240)
17.98	RB	Cummings Creek (HUC: 02114003000480090250)
18.10		State Highway 47 Bridge
18.85		Port of Tillamook Bay RR Bridge
22+		Headwaters

GALES CREEK — STREAM MILE INDEX

HUC: 2114003000560

[Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code, ISWR= Instream Water Right]

River Mile	RB	Description
0.00		Confluence with Tualatin River (HUC: 0211400300) @ River Mile 56.80 <i>ISWR: C-59523 5/25/66</i>
1.63		Southern Pacific RR Bridge
1.75		Forest Grove Bypass Bridge – State Highway 47 to State Highway 8
2.36		State Highway 47 Bridge Gales Creek Recording Stream Gage #14204530
3.66		Ritchey Road Bridge (County Road 461)
6.53	RB	Prickett Creek (HUC: 02114003000560090)
6.98		Stringtown Road Bridge (County Road A-176)
7.70	RB	Roderick Creek (HUC: 02114003000560110)
8.56		Roderick Road Bridge (County Road 395) Gales Creek near Forest Grove Oregon – Former USGS Gage #14204500 (10/40–9/56 & 10/70–9/81)
8.94	RB	Godfrey Creek (HUC: 02114003000560130)
9.22	LB	Kelly Creek (HUC: 02114003000560120)
10.68	RB	Clear Creek (HUC: 02114003000560150)
11.44	RB	Iler Creek (HUC: 02114003000560170)
11.46		NW Gales Creek Road (County Road 1312) Community of Gales Creek
11.47	RB	Fir Creek (HUC: 02114003000560190)
12.00		<i>ISWR: C-59509 5/25/66</i> above this point
12.36		Clapshaw Hill Road Bridge (County Road 2037) Rated Staff Gage for Stream Flow
12.40	LB	Little Beaver Creek (HUC: 02114003000560200) <i>ISWR: C-59512 5/25/66</i>
12.92		Parson Road Bridge
14.44	RB	White Creek (HUC: 02114003000560210)
14.68		NW Wilson River Highway Bridge (State Highway 6)
15.74	RB	Lyda Creek (HUC: 02114003000560230)
16.26	RB	Bateman Creek (HUC: 02114003000560250)
17.50		Gales Creek near Gales Creek, OR – Former USGS Gage #1420400 (10/35–9/45 & 10/639/70)
18.00	LB	Beaver Creek (HUC: 02114003000560280) Community of Glenwood <i>ISWR: C-59524 5/25/66</i>
18.45		NW Timber Road Bridge (County Road 374)
18.65		Wilson River Highway Bridge (State Highway 6)
19.70		Wilson River Highway Bridge (State Highway 6)
19.88	LB	Coffee Creek (HUC: 02114003000560300)
20.07	LB	Finger Creek (HUC: 02114003000560305)
20.70	RB	South Fork Gales Creek (HUC: 02114003000560310) <i>ISWR: C-59514 5/25/66</i>
21.60	LB	North Fork Gales Creek (HUC: 02114003000560320) <i>ISWR: C-59513 5/25/66</i>
22.76	RB	Low Divide Creek (HUC: 02114003000560330) Gales Creek Forest Park
23.20		Gales Creek near Glenwood, OR – USGS Gage #14203750 (7/94 – present)

SCOGGINS CREEK — STREAM MILE INDEX

HUC: 2114003000640

[Abbreviations: RB= right bank, LB= left bank, HUC= Hydrologic Unit Code]

River Mile	Bank	Description
0.00		Confluence with Tualatin River (HUC: 0211400300) @ River Mile 60.00
0.94		RR Bridge
1.00		State Highway 47 Bridge
1.70		Old State Highway 47 Bridge
1.71		Scoggins Creek near Gaston, OR – Former USGS Gage #14203000 (10/1940 – 9/1974) Drainage Area = 43.3 square miles
4.80		Scoggins Creek below Henry Hagg Lake, near Gaston, OR – USGS Gage #14202980 (1/1975 –present) Drainage Area = 38.8 square miles
5.10		Scoggins Dam
7.00	RB	Sain Creek (HUC: 02114003000640170)
7.62	LB	Tanner Creek (HUC: 02114003000640200)
8.40	LB	Wall Creek (HUC: 02114003000640220)
9.00		Lake Loop Road Bridge
9.30		Scoggins Creek above Henry Hagg, near Gaston, OR – Gage #14202850 (10/1972 – present) Drainage Area = 15.9 square miles
10.52	LB	Parson Creek (HUC: 02114003000640240)
15.50	LB	Fisher Creek (HUC: 02114003000640300)

