

# Groundwater Transfer Review Summary Form

Transfer/PA # T- 14735

GW Reviewer Stacey Garrison Date Review Completed: 11/24/2025

## Summary of Same Source Review:

- The proposed change in point of appropriation is not within the same aquifer as per OAR 690-380-2110(2).

## Summary of Water Level Decline Condition Review:

- Water levels at the original point(s) of appropriation have exceeded the allowed decline threshold defined by conditions in the originating water right.

## Summary of Injury Review:

- The proposed transfer will result in another, existing water right not receiving previously available water to which it is legally entitled or result in significant interference with a surface water source as per 690-380-0100(3).

## Summary of GW-SW Transfer Similarity Review:

- The proposed SW-GW transfer doesn't meet the definition of "similarly" as per OAR 690-380-2130.

*This is only a summary. Documentation is attached and should be read thoroughly to understand the basis for determinations.*



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## Ground Water Review Form:

- Water Right Transfer
- Permit Amendment
- GR Modification
- Other

Application: T-14735

Applicant Name: Ross Paratore II and Kristy Paratore

Proposed Changes:     POA         APOA         SW→GW         RA  
                                   USE         POU         OTHER

Reviewer(s): Stacey Garrison

Date of Review: 11/24/2025

Date Reviewed by GW Mgr. and Returned to WRSD: JTI 3/13/26

The information provided in the application is insufficient to evaluate whether the proposed transfer may be approved because:

- The water well reports provided with the application do not correspond to the water rights affected by the transfer.
- The application does not include water well reports or a description of the well construction details sufficient to establish the ground water body developed or proposed to be developed.
- Other \_\_\_\_\_

1. Basic description of the changes proposed in this transfer: Applicant proposes to move 13.3 ac of the POU and authorize a different POA, POA 2/Well 1 (POLK 52078), to irrigate these acres. Claim GR 313 authorizes irrigation of 17 ac from POA 1/GR Well (POLK 2997) at a maximum rate of 0.2495 cfs (112 gpm). The apportioned rate for 13.3 ac is 0.195 cfs (88 gpm). The remaining 3.7 acres will continue to be irrigated by POA 1/GR Well (POLK 2997) at 0.054 cfs (24 gpm). The to-well, POA 2/Well 1 (POLK 52078), is also a POA for Application G-19374, which is currently under review. Application G-19374 is for agricultural use at a maximum rate of 0.31 cfs (140 gpm) and a maximum annual volume of 61.5 acre-feet. The total maximum combined rate used in this review is 0.5595 cfs (251 gpm).
2. Will the proposed POA develop the same aquifer (source) as the existing authorized POA?  
 Yes     No    Comments: Both the from-well, POA 1/GR Well (POLK 2997), and the to-well, POA 2/Well 1 (POLK 52078) produce from the alluvial aquifer.
3. a) Is the existing authorized POA subject to a water level decline condition?  
 Yes     No    Comments: \_\_\_\_\_  
 b) If yes, for each POA identify the reference level, most recent spring-high water level, and whether an applicable permit decline condition has been exceeded: N/A
4. a) Is there more than one source developed under the right (e.g., basalt and alluvium)?  
 Yes     No    Comments: Only the alluvial source is developed

b) If yes, estimate the portion of the right supplied by each of the sources and describe any limitations that will need to be placed on the proposed change (rate, duty, etc.): N/A

5. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another ground water right**?

Yes  No Comments: The to-well, POA 2/Well 1 (POLK 52078), is closer to POLK 3036 than the from-well, POA 1/GR Well (POLK 2997). The reduced distance is anticipated to increase interference with POLK 3036.

b) If yes, would this proposed change, at its maximum allowed rate of use, likely result in another groundwater right not receiving the water to which it is legally entitled?

Yes  No If yes, explain: Pumping by the to-well, POA 2/Well 1 (POLK 52078), is not likely to prevent POLK 3036 from receiving the water to which it is legally entitled.

6. a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with **another surface water source**?

Yes  No Comments: The to-well, POA 2/Well 1 (POLK 52078), is closer to the Willamette River than the from-well, POA 1/GR Well (POLK 2997). The reduced distance is anticipated to increase interference with the Willamette River.

b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any **surface water sources** resulting from the proposed change?

Stream: Willamette River

Minimal  Significant

Provide context for minimal/significant impact: The expected increase in depletion from the Willamette River was assessed using the Hunt (2003) analytical model for stream depletion due to pumping in a confined aquifer (see attached Stream Depletion Analysis). Results indicate that stream depletion due to pumping could likely increase by 4 percent of the rate of withdrawal after 245 days of continuous pumping (i.e. the end of the irrigation season) as a result of the proposed change. Assuming that the to-well, POA 2/Well 1 (POLK 52078), were to pump the full, proportioned maximum rate of 0.1952 cfs (87.6 gpm) under Claim GR-313 over the full 245-day irrigation season, the proposed change could result in an additional ~0.009 cfs of depletions to the Willamette River by the end of the irrigation season. For comparison, Watershed ID #183 WILLAMETTE R>COLUMBIA R-AB MILL CREEK AT GAGE 14191000, which encompasses the Willamette River at this location, is estimated to have ~990 cfs of Net Water Available in August (the month with the lowest expected flow annually) at the 80 percent Exceedance Level (see attached Water Availability Analysis). Therefore, the change in degree of interference with the Willamette River resulting from the proposed change is expected to be minimal.

7. For SW-GW transfers, will the proposed change in point of diversion affect the surface water source similarly (as per OAR 690-380-2130) to the authorized point of diversion specified in the water use subject to transfer?

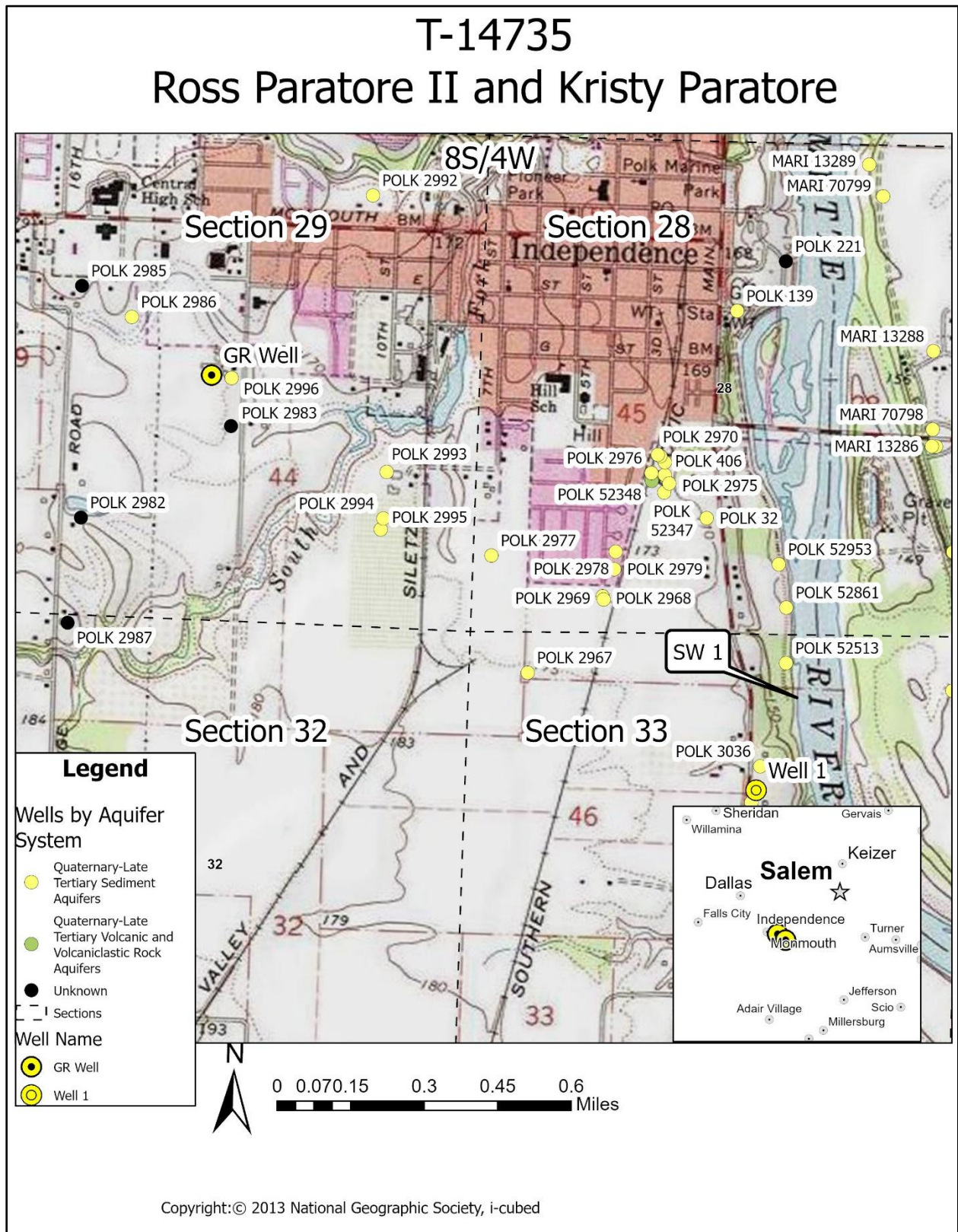
Yes  No Comments: N/A

8. What conditions or other changes in the application are necessary to address any potential issues identified above: \_\_\_\_\_

9. Any additional comments: \_\_\_\_\_

ReferencesTransfer File: T-14735Pumping Test Files: MARI 13308, POLK 3039, POLK 3741Conlon, T.D., Wozniak, K.C., Woodcock, D., Herrera, N.B., Fisher, B.J., Morgan, D.S., Lee, K.K., and Hinkle, S.R., 2005, Ground-water hydrology of the Willamette Basin, Oregon, Scientific Investigations Report 2005-5168: U. S. Geological Survey, Reston, VA.Hunt, B., 2003. Unsteady stream depletion when pumping from semiconfined aquifer: Journal of Hydrologic Engineering, January/February, 2003.O'Connor, J.E., Sarna-Wojcick, A., Woznikak, K.C., Polette, D.J., Fleck, R.J., 2001, Origin, Extent, and Thickness of Quaternary Geologic Units in the Willamette Valley, Oregon; U.S. Geological Survey, Professional Paper 1620, 51 p.Woodward, D.G., Gannett, M.W., and Vaccaro, J.J., 1998, Hydrogeologic framework of the Willamette Lowland aquifer system, Oregon and Washington: U.S. Geological Survey Professional Paper 1424-B, 82 p.

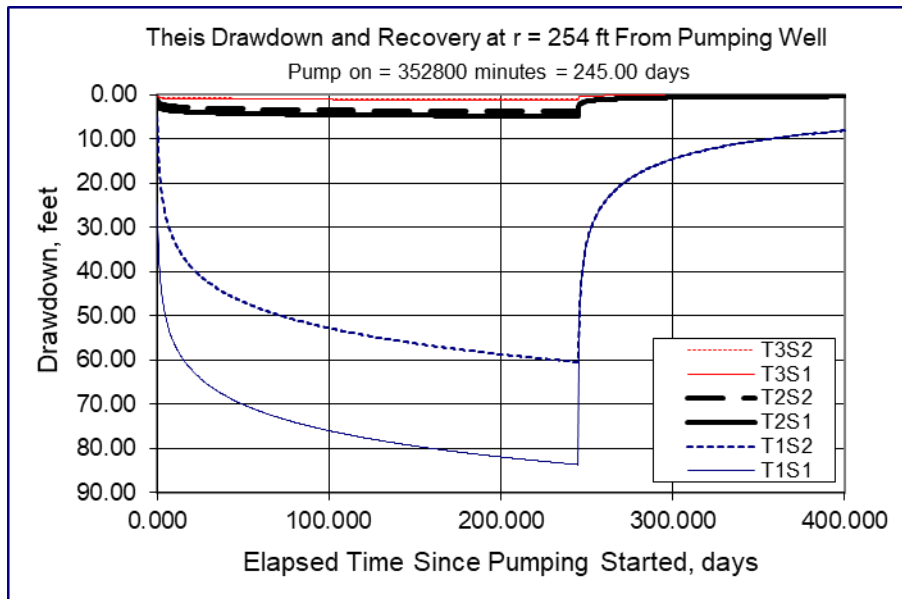
Map



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Injury Analysis POA 2/Well 1 (POLK 52078)-POLK 3036

Input Data:	Var Name	Scenario 1	Scenario 2	Scenario 3	Units	
Total pumping time	t		245		d	
Radial distance from pumped well:	r		254		ft	<b>Q conversions</b>
Pumping rate	Q		0.505197		cfs	226.73 gpm
Hydraulic conductivity	K	27	611	2850	ft/day	0.51 cfs
Aquifer thickness	b		15		ft	30.31 cfm
Storativity	S 1		0.0002			43,649.02 cfd
	S 2		0.003			1.00 af/d
<b>Transmissivity Conversions</b>	T_f2pd	405	9165	42750	ft2/day	<input type="button" value="Recalculate"/>
	T_ft2pm	0.28125	6.36458333	29.6875	ft2/min	
	T_gpdft	3029.4	68554.2	319770	gpd/ft	

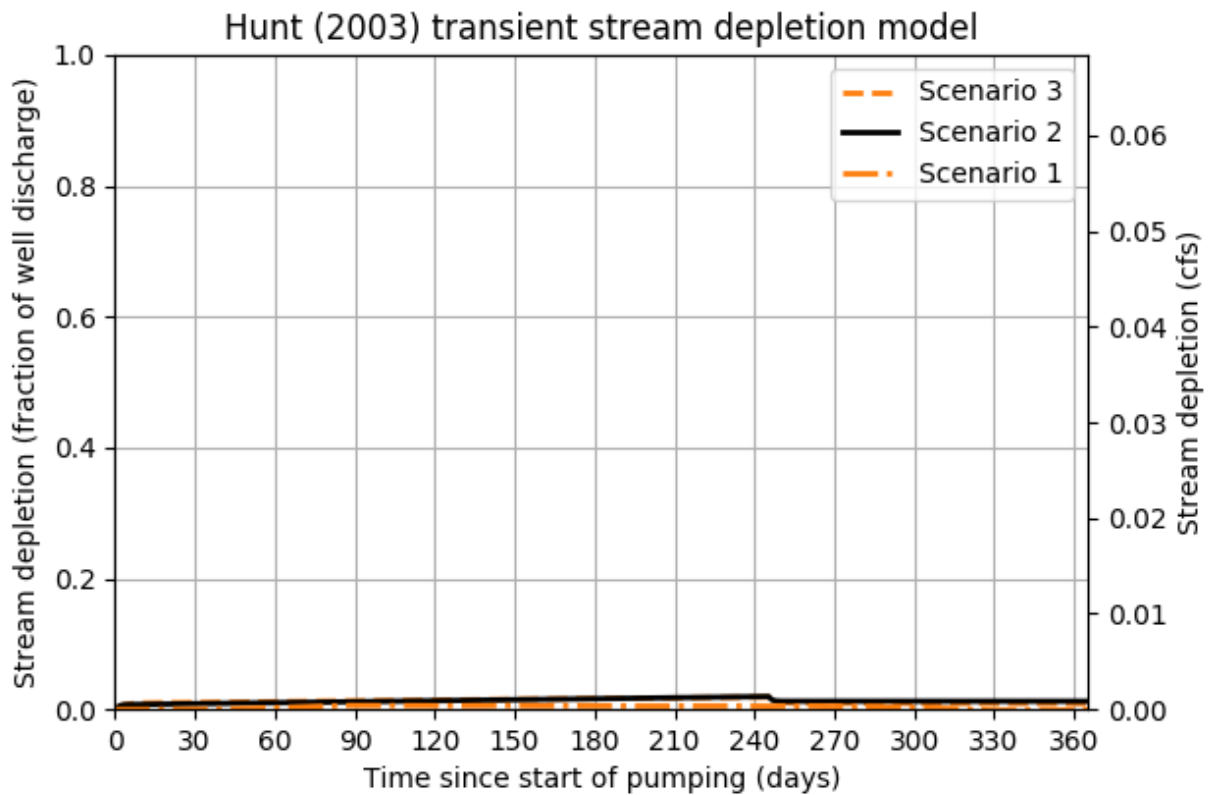


	173	ft amsl	elevation
SWL	35	ft bls	Well log POLK 3036
Aquifer Bottom	373	ft bls	Gannett & Caldwell 1998
Available Water Column	338	ft	Aquifer Bottom - SWL
Pump Height Above Bottom	5	ft	Estimate
NPSHa	5	ft	Estimate
Drawdown	1	ft	This drawdown @ 30 gpm and well log POLK 3036
Minimum Water Column	11	ft	Estimated Drawdown + NPSHa + Pump Height
Injury	327	ft	Available Water Column-Minimum Water Column

Stream Depletion-POA 1/GR Well (POLK 2997)-Willamette River

Application type:	T	Parameter	Symbol	Scenario 1	Scenario 2	Scenario 3	Units
Application number:	14735	Distance from well to stream	a	5700	5700	5700	ft
Well number:	1	Aquifer transmissivity	T	405.0	9165.0	42750.0	ft <sup>2</sup> /day
Stream Number:	1	Aquifer storativity	S	0.0002	0.001	0.003	-
Pumping rate (cfs):	0.195174	Aquitard vertical hydraulic conductivity	Kva	0.01	0.01	0.01	ft/day
Pumping duration (days):	245.0	Aquitard saturated thickness	ba	10.0	10.0	10.0	ft
Pumping start month number (3=March)	3.0	Aquitard thickness below stream	babs	10.0	10.0	10.0	ft
Plotting duration (days)	365	Aquitard specific yield	Sya	0.2	0.2	0.2	-
		Stream width	ws	300.0	300.0	300.0	ft

Days	10	330	360	30	60	90	120	150	180	210	240	270	300
Depletion (%)	1	1	1	1	1	1	1	1	2	2	2	1	1
Depletion (cfs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

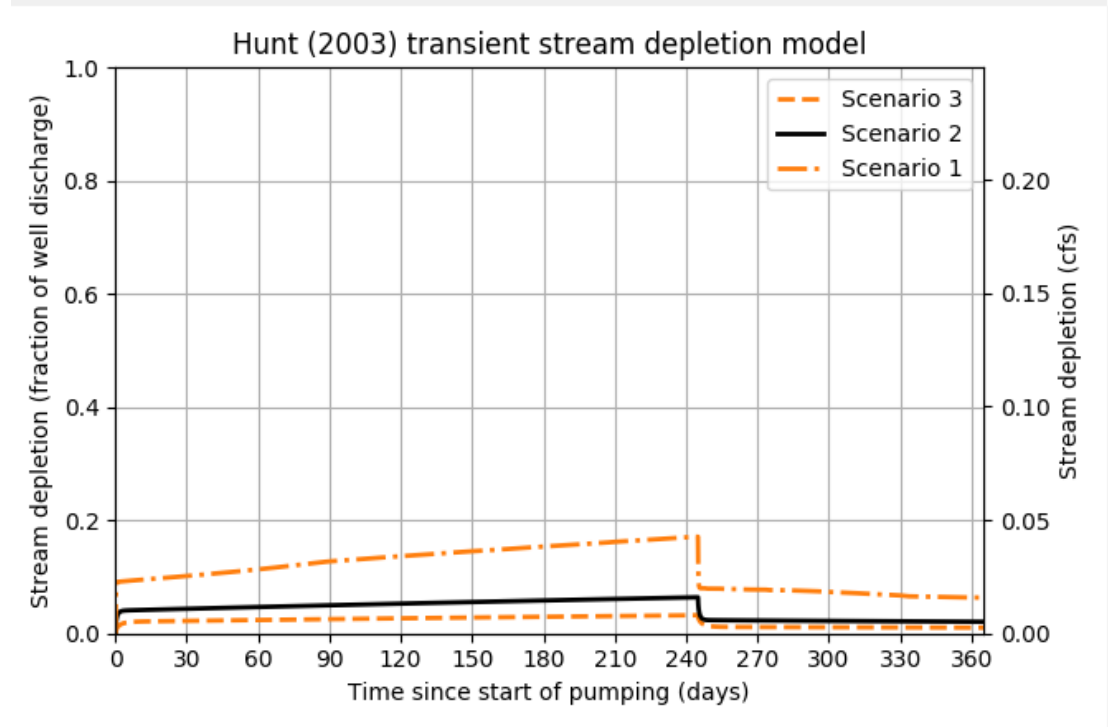


Stream Depletion-POA 2/Well 1 (POLK 52078)-Willamette River

Application type:	T	Parameter	Symbol	Scenario 1	Scenario 2	Scenario 3	Units
Application number:	14735	Distance from well to stream	a	470	470	470	ft
Well number:	2	Aquifer transmissivity	T	405	9165	42750	ft <sup>2</sup> /day
Stream Number:	1	Aquifer storativity	S	0.0002	0.001	0.003	-
Pumping rate (cfs):	0.195174	Aquitard vertical hydraulic conductivity	Kva	0.01	0.01	0.01	ft/day
Pumping duration (days):	245.0	Aquitard saturated thickness	ba	10.0	10	10	ft
Pumping start month number (3=March)	3.0	Aquitard thickness below stream	babs	10	10	10	ft
Plotting duration (days)	365	Aquitard specific yield	Sya	0.2	0.2	0.2	-
		Stream width	ws	300	300	300	ft

Stream depletion for Scenario 2:

Days	10	330	360	30	60	90	120	150	180	210	240	270	300
Depletion (%)	4	2	2	4	5	5	5	6	6	6	6	2	2
Depletion (cfs)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01



**Water Availability Analysis**  
Detailed Reports

WILLAMETTE R > COLUMBIA R - AB MILL CR AT GAGE 14191000  
WILLAMETTE BASIN

Watershed ID # 183 (Map)  
Date: 11/21/2025

Water Availability as of 11/21/2025

Exceedance Level: 80%  
Time: 3:46 PM

- Water Availability Calculation
- Consumptive Uses and Storages
- Instream Flow Requirements
- Reservations
- Water Rights
- Watershed Characteristics

**Water Availability Calculation**

Monthly Streamflow in Cubic Feet per Second  
Annual Volume at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	18,400.00	2,250.00	16,200.00	0.00	1,300.00	14,900.00
FEB	20,100.00	7,430.00	12,700.00	0.00	1,300.00	11,400.00
MAR	19,600.00	7,220.00	12,400.00	0.00	1,300.00	11,100.00
APR	18,000.00	6,870.00	11,100.00	0.00	1,300.00	9,830.00
MAY	15,500.00	4,180.00	11,300.00	0.00	1,300.00	10,000.00
JUN	8,310.00	1,690.00	6,620.00	0.00	1,300.00	5,320.00
JUL	4,710.00	1,450.00	3,260.00	0.00	1,300.00	1,960.00
AUG	3,620.00	1,330.00	2,290.00	0.00	1,300.00	990.00
SEP	3,680.00	1,150.00	2,530.00	0.00	1,300.00	1,230.00
OCT	4,650.00	747.00	3,900.00	0.00	1,300.00	2,600.00
NOV	9,400.00	855.00	8,540.00	0.00	1,300.00	7,240.00
DEC	16,700.00	918.00	15,800.00	0.00	1,300.00	14,500.00
ANN	13,500,000.00	2,160,000.00	11,300,000.00	0.00	942,000.00	10,400,000.00

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Water Availability Analysis

**Water Availability Analysis**  
Detailed Reports

WILLAMETTE R > COLUMBIA R - AB MILL CRAT GAGE 14191000  
WILLAMETTE BASIN

Watershed ID #: 183 [\(Map\)](#)  
Date: 11/21/2025

Exceedance Level: 80%  
Time: 3:46 PM

Water Availability Calculation
Consumptive Uses and Storages
Instream Flow Requirements
Reservations  
Water Rights
Watershed Characteristics

**Water Availability Calculation**

Monthly Streamflow in Cubic Feet per Second  
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FEB	20,100.00	7,430.00	12,700.00	0.00	1,300.00	11,400.00
MAR	19,600.00	7,220.00	12,400.00	0.00	1,300.00	11,100.00
APR	18,800.00	6,870.00	11,900.00	0.00	1,300.00	9,830.00
MAY	15,500.00	4,180.00	11,300.00	0.00	1,300.00	10,000.00
JUN	8,310.00	1,690.00	6,620.00	0.00	1,300.00	5,320.00
JUL	4,710.00	1,460.00	3,260.00	0.00	1,300.00	1,960.00
AUG	3,520.00	1,330.00	2,200.00	0.00	1,300.00	990.00
SEP	3,680.00	1,150.00	2,530.00	0.00	1,300.00	1,230.00
OCT	4,650.00	747.00	3,900.00	0.00	1,300.00	2,600.00
NOV	9,400.00	855.00	8,540.00	0.00	1,300.00	7,240.00
DEC	16,700.00	910.00	15,800.00	0.00	1,300.00	14,500.00
ANN	13,500,000.00	2,160,000.00	11,300,000.00	0.00	942,000.00	10,400,000.00

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