

# Stillaguamish Reservation Accounting Report: September 26, 2005 - December 31, 2023

Ecology adopted the Instream Resources Protection and Water Resource Program for WRIA 5 (WAC 173-505) in August 2005. This rule set reservations of water for specific out-of-stream uses that are not subject to instream flows. The rule created two reservations of limited water supplies for different purposes of use:

- Single or small group domestic uses using a permit-exempt well (3,231,360 gallons of water per day).
- Stock water uses (1 cubic foot per second for surface water and 20 acre-feet per year of ground water).

## Status of Water Reservations

This report summarizes new reservation water uses September 26, 2005, through December 31, 2023. Debits from the reservation began September 26, 2005.

### Single or Small Group Domestic Reservation Use

#### Estimating Method- Debits

Ecology estimated single or small group domestic reservation uses by reviewing public records, including:

- Skagit and Snohomish County Building Permit Records
- Skagit and Snohomish County Health Records
- Skagit and Snohomish County Recorded Documents
- Skagit and Snohomish County Assessor's Records
- Public Water System Plans
- NAIP Aerial Photo datasets
- MLS Listings
- Washington Department of Health's Sentry Database
- Washington State Department of Ecology's Well Log Database
- Washington State Department of Ecology-Issued Water Right Permits
- Public Water System Plans and Maps

Ecology reviewed these sources to determine:

- When water use was established. (Did water use begin before or after September 26, 2005?)
- The quantity of water to debit from the reservation.

With information on building permits from Skagit and Snohomish counties and other public records, Ecology determined the type of water supply for each new plumbed building. Additionally, Ecology also determined if a building was a new or replacement structure. Ecology debited from the reservation if a new building's water supply was from a permit-exempt well, and if it was not an accessory dwelling unit. Ecology debited different amounts from the reservation, depending on the type of effluent treatment system. If the building had a septic system, Ecology debited 175 gallons per day from the reservation. If the building connected to a sewer system, Ecology debited 350 gallons per day from the reservation.

Please see Appendix A for full reservation calculations.

### WRIA 5 Water Reservation Use- Single and Small Group Domestic Use

Sub-basin	Reservation Quantity Consumptive Daily Use (gpd)	Reservation Quantity Used (gpd)	Reservation Quantity Remaining (gpd)	Percent of Reservation Remaining
Lower Stillaguamish	N/A	126,350	NA	NA
NF Stillaguamish	1,292,544	27,300	1,265,244	<b>97.888%</b>
SF Stillaguamish	969,408	40,600	928,808	<b>95.812%</b>
Entire Stillaguamish WRIA	3,231,360	194,250	3,037,110	<b>93.989%</b>

### Livestock Water Reservation Use

Ecology uses the 2002, 2007, 2012, 2017, and 2022 USDA Censuses of Agriculture and the EPA Manual of Individual and Non-Public Water Supply Systems (1991) to estimate water use by livestock. The USDA conducts a census of Agriculture every five years. The 2022 census was first used for the 2023 accounting report.

In Snohomish County, livestock populations decreased between 2002 and 2007, 2007 and 2012, and 2017 and 2022, but increased between 2012 and 2017. As of the latest census, it appears that there has been a net decrease of livestock water use since the adoption of WAC 173-505.

### Figures

**Figure 1** – Map showing location of wells and sub-basin boundaries

### Appendices

**Appendix A** - Ecology Permit-Exempt Use Counting Spreadsheet

**Appendix B** – Stillaguamish Stock Water Use Estimate

### Related Information

- [Stillaguamish basin - Washington State Department of Ecology](https://ecology.wa.gov/Water-Shorelines/Water-supply/Protecting-stream-flows/Instream-flow-implementation/Stillaguamish-basin), <https://ecology.wa.gov/Water-Shorelines/Water-supply/Protecting-stream-flows/Instream-flow-implementation/Stillaguamish-basin>.



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To request an ADA accommodation, contact Ecology by phone at 360-407-6872 or email at [WRpubs@ecy.wa.gov](mailto:WRpubs@ecy.wa.gov), or visit <https://ecology.wa.gov/accessibility>. For Relay Service or TTY call 711 or 877-833-6341.