

**Stillaguamish Reservation Accounting Report:**  
**September 26, 2005 - December 31, 2008**

In the Instream Resources Protection and Water Resource Program, Stillaguamish River Basin, Water Resources Inventory area (WRIA) 5, WAC 173-505, which was adopted in August 2005, reservations of water for specific out-of-stream uses were established 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).

**Applicability of the Water Reservations**

This report summarizes water uses from September 26, 2005 – December 31, 2008 utilizing the reservations. The reservations apply back to September 26, 2005 because that was the date the rule became effective.

**Single or Small Group Domestic Reservation Use**

**Estimating Method- Debits**

Single or small group domestic reservation uses were estimated by reviewing a number of different sources:

- Water well log reports
- Public Water System Approvals
- GIS layer of sewer lines

These sources were reviewed to determine:

- If the water use was established after September 26, 2005 and qualifies as a deduction to the reservation.
- The quantity of water to deduct from the reservation.

Ecology also reviewed well log records for new wells drilled in WRIA 5. Other information sources include local and state Health Department records relating to new public water systems developed in the WRIA. For the quantity of water to deduct for water uses, the default water use figures in WAC 173-505 were used. If the home is hooked up to a sewer system, then the consumptive use of water is 350 gallons per day per residential water use connection. If the home is not hooked up to a sewer system, but instead has an on-site septic system, then the consumptive use of water is 175 gallons per day per residential water use connection.

Please see the appendix for more details on the reservation use accounting.

## 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	NA	66,675	NA	NA
NF Stillaguamish	1,292,544	17,150	1,275,394	98.67%
SF Stillaguamish	969,408	30,275	939,133	96.88%
Entire Stillaguamish WRIA	3,231,360	114,100	3,117,260	96.47%

## Livestock Water Reservation Use

The 2002 and 2007 Census of Agriculture livestock numbers have been summarized for common livestock in Appendix B. The data is not broken down by watershed, only by County. So the Snohomish County data would include the Stillaguamish and part of the Snohomish/Skykomish/Snoqualmie River basins. For all of Snohomish County the total water used by livestock was estimated to have declined by approximately 150 acre-feet per year between the census years of 2002 and 2007. Therefore, it is assumed that no water has been allocated from the available livestock water reservation. Ecology will update estimates of livestock water reservation use the year after the next Census of Agriculture is completed, which should be the report for water use through the end of 2013.

### *Figures*

**Figure 1** – Map showing location of wells and subbasin boundaries

### *Appendices*

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

**Appendix B** – Stock Water Use Estimate - 2008