

**Teanaway River Basin fall (9/15-11/15) consumptive use estimate**

**Known or estimated factors:**

Total Residential Structures within TRB using GIS and Parcel information? <sup>a</sup>	619
Proportion of Population within TRB according to Voter District info? (perm resident) <sup>b</sup>	359
How many people per household? <sup>c</sup>	2.22
How many full-time residences?	162
How many seasonal homes?	457
Seasonal population?	1015
Gallons per day used per capita? <sup>c</sup>	114.4
Gallons per day used per capita by seasonal population?	57.2
Gallons consumed as a fraction of gallons used for domestic purposes	0.3
Gallons per day used by grazing cattle? <sup>d</sup>	11

<b>Full-time residential:</b>				
	60 days (gal)	daily avg		cfs
How much water <i>consumed*</i> by full time residence from Sept 15-Nov15 (60 days)?	739,726.42	12,328.77		0.019
<b>Seasonal Residential water use:</b>				
Population equivalent if present 2 of 7 weekdays?	290			
	17 out of 60 days	daily avg		cfs
How much water consumed by seasonal residents based on visiting 2 out of 7 days in a week?	84,598.80	1,409.98		0.0022
<b>Continuous stock water use:</b>				
How much continuous stock water was confirmed, in ac-ft/yr? <sup>e</sup>	30.6			
How many cows would it support?	2518			
	60 days (gal)	daily avg		cfs
How much water is consumed by stock? (assume 100% consumptive)	1,661,840.10	27,697.34		0.04

How many cows would it support?

**Sources:**

- <sup>a</sup> 2011 Kittitas County Parcel GIS data and associated tables
- <sup>b</sup> Kittitas County Voter District GIS data layer
- <sup>c</sup> 2006 City of Cle Elum Water System plan
- <sup>d</sup> <http://www.ag.ndsu.edu/pubs/ansci/livestoc/as954w.htm>
- <sup>e</sup> Teanaway River Subbasin No. 3 Reports of Referee, Draft Schedule of Rights