

Current WRIA 45 Population by Water Use Type⁵

Sub-Watershed	Total Population Estimate 2005 Parcel Data ²	Full-Time Population Estimate 2000 Census ³	Estimated Part Time Population ⁹	Population Served by Group A Systems ⁴	Population Served by Group B Systems ⁵	Population Served by Exempt Wells ⁶
Chiwaukum	31	20	11	0	13	18
Chiwawa	1,098	406	692	812	60	225
Chumstick ⁸	5,133	3,665	1,468	3228	123	1,782
Icicle ⁸	1,127	723	404	0	73	1,053
Lake Wenatchee	1,404	206	1,198	401	123	880
Little Wenatchee ¹⁰	-	3	-	0	0	3
Lower Wenatchee ^{7,10}	7,040	7,886	-	2455	521	4,910
Mission ^{7,10}	3,382	3,895	-	2093	241	1,561
Nason	1,066	144	922	566	113	388
Peshastin	1,095	865	230	351	55	689
Upper Wenatchee	2,269	624	1,645	1336	68	865
White	194	72	122	18	8	168
Total	23,839	18,509	6,692	11,260	1,399	12,542

NOTES:

PWS = Public Water System; ADD = Average Day Demand; MDD = Maximum Day Demand; mgd = million gallons per day; AF/yr = acre-feet per year; DOH - Department of Health

(1) This table builds on data presented in the Phase 2 - Level 1 Technical Assessment (MWG, 2003). The purpose of this table is to present estimates of the population of part-time and full-time residential water users and the population of Group A, B, and exempt well water users.

(2) Total Population was estimated using parcel data from the Chelan County Assessors database (June 6, 2005). Database query results include all full-time and part-time residential parcels. This estimate assumes that one residential parcel is equivalent to one household unit, and one water service connection, unless noted otherwise. Population is calculated by multiplying the number of parcels by 2.62 (U.S. Census reported average population per household). Parcel types included: All other residential, Household 2-4 units (assume 3 units per parcel), Mobile home parks/courts, Multi-units 5 or more (assume 5 units per parcel), Single family units, Vacation and cabin, and Residential Hotels - Condominiums. Only parcels with an improvement value of \$5,000 or greater are considered. Primary and Secondary land use types are identified in the Assessor's database. Errors in the assessor's database are possible (Chelan County Planning, personal communication, 2005).

(3) 2000 census data is used to estimate the total full-time population in the watershed. Full-time indicates WRIA 45 is used as the permanent residence.

(4) Group A served population obtained from DOH in-house database DOH (Nicodemus, personal communication, 2005) and includes both full time and part-time single-family and residential units serviced by Group A PWS. To obtain population, the number of connections is multiplied by 2.62 (average people per household, U.S. Census, 2000). Data for the following water suppliers was used in place of DOH reported data: City of Leavenworth, Chiwawa Communities Assoc., City of Cashmere, Chelan County PUD No. 1.

(5) Group B served population obtained from DOH in-house database DOH (Nicodemus, personal communication, 2005) and includes both full time and part-time residences serviced by Group B PWS. To obtain population the number of connections is multiplied by 2.62 (average people per household, U.S. Census, 2000).

(6) Population served by exempt wells are calculated as the difference between columns labeled "Total Population Estimate from 2005 Parcel Data" and the sum of columns "Population served by Group A Water Systems" and "Population served by Group B Water Systems". This calculation assumes that DOH recorded Group A and Group B water systems do not include residences or residential groups served by exempt wells. Where census population is larger than parcel estimated population the total population from Census data is used in place of parcel estimated population - this applies to Mission, Lower Wenatchee, and Little Wenatchee Sub-watersheds.

(7) The City of Cashmere is split between the Mission and Lower Wenatchee Sub-watersheds; therefore the population reportedly served by the City of Cashmere WSP (MWG, 2003) is divided across these two sub-watersheds with approximately 36% residing in the Lower Wenatchee sub-watershed and 64% in the Mission Sub-watershed.

(8) The City of Leavenworth population is located primarily in the Chumstick Sub-watershed; however their water supply originates in the Icicle. Therefore calculations of population for the City of Leavenworth are included in the Chumstick, while water use estimates or water budgets for the City of Leavenworth are listed under the Icicle sub-watershed.

(9) Part-time population is calculated as the difference between columns labeled "Total Population Estimate from 2005 Parcel Data" and "Full Time Population Estimate from 2005 Parcel Data". Part-time indicates this is not the permanent residence and that the resident resides in the WRIA less than half the year.

(10) In the Mission, Lower Wenatchee, and Little Wenatchee census data indicates a larger population than the Total Population estimate from parcel data. This could be due to mis-identification of parcels in the assessor's database, errors in population data, or a greater number of people per connection than that estimated for Chelan County. In these cases, census data was used to represent total population in the sub-watershed, rather than parcel data.