

**8.3.6 Normalized Annual End Uses of Water in Two California High Schools**

<u>Fixture/End Use</u>	<u>Range of Water Use</u> (gal/room)	<u>Range of Water Use</u> (gal/person)	
Toilet	2.9 - 3.2	206 - 271	
Urinal	1.2 - 2.6	106 - 186	
Faucet	1.0 - 2.3	87 - 165	
Shower	0.5 - 0.7	44 - 47	
Kitchen	0.7 - 1.0	58 - 58	
Misc. uses (2)	0.9	68	
Cooling	-	-	
Leaks	1.6 - 3.6	112	
Swimming Pool	0.4 - 0.9	31	
<b>Total Use</b>	<b>11.1 - 12.3</b>	<b>883</b>	
	<u>Average</u> <u>Building Size (SF)</u> 222326	<u>Logged average</u> <u>daily use (thousand gal)</u> 9.1 - 16.4	<u>Indoor peak instantaneous</u> <u>demand (gpm)</u> 41 - 60
<u>Benchmarking Values for Schools (3)</u>	<u>N</u>	<u>25th Percentile of Users</u>	
Indoor Use, Gal./sq. ft./year	142	8 - 16	
Indoor Use, Gal./school day/student	141	3 - 15	
Cooling Use, Gal./sq. ft./year	35	8 - 20	

Note(s): 1) Water use data for the buildings was collected over a few days. Estimates of annual use were created by accounting for seasonal use and other variables, billing data, and interviews with building managers. 2) One high school. 3) The study derived efficiency benchmarks by analyzing measured data and audit data. The benchmark was set at the lower 25th percentile of users.

Source(s): American Water Works Association Research Foundation, Commercial and Institutional End Uses of Water, 2000.