



Department of Development Services  
 Building and Safety Bureau  
**BASELINE WATER USE**  
**WORKSHEET WS-1**



To demonstrate the 20 percent reduction in potable water in accordance with Section 5.303.3 of the CALGreen Code, use this worksheet to calculate the baseline water use. Incorporate this worksheet onto the construction documents.

BASELINE WATER USE CALCULATION TABLE									
FIXTURE TYPE	FLOW RATE		DURATION		DAILY USES		OCCUPANTS <sup>1,2</sup>		GALLONS PER DAY
Showerheads	2.5 <sup>5</sup>	X	5 min.	X	1	X	Note 2a	=	
Showerheads residential	2.5 <sup>5</sup>	X	8 min.	X	1	X		=	
Lavatory faucets residential	2.2 <sup>5</sup>	X	.25 min.	X	3	X		=	
Lavatory faucets nonresidential	0.5 <sup>5</sup>	X	.25 min.	X	3	X		=	
Kitchen faucets	2.2 <sup>5</sup>	X	4 min.	X	1	X	Note 2b	=	
Replacement aerators	2.2 <sup>5</sup>	X		X		X		=	
Wash fountains	2.2 <sup>5</sup>	X		X		X		=	
Metering faucets	0.25 <sup>5</sup>	X	.25 min.	X	3	X		=	
Metering faucets for wash fountains	2.2 <sup>5</sup>	X	.25 min.	X		X		=	
Gravity tank type water closets	1.6 <sup>6</sup>	X	1 flush	X	1 male <sup>3</sup> 3 female	X		=	
Flushometer tank water closets	1.6 <sup>6</sup>	X	1 flush	X	1 male <sup>3</sup> 3 female	X		=	
Flushometer valve water closets	1.6 <sup>6</sup>	X	1 flush	X	1 male <sup>3</sup> 3 female	X		=	
Electromechanical hydraulic water closets	1.6 <sup>6</sup>	X	1 flush	X	1 male <sup>3</sup> 3 female	X		=	
Urinals	1.0 <sup>6</sup>	X	1 flush	X	2 male	X		=	
<b>Total daily baseline water use (BWU)</b>								=	
_____ (BWU) X 0.80 = _____ Allowable water use									

**FOOTNOTES:**

1. For low-rise residential occupancies, the number of occupants shall be based on two persons for the first bedroom, plus one additional person for each additional bedroom.
2. For nonresidential occupancies, refer to Table A, Chapter 4, 2013 California Plumbing Code, for occupant load factors.
  - a. Shower use by occupants depends on the type of use of a building or portion of a building, e.g., total occupant load for a health club, but only a fraction of the occupants in an office building as determined by the anticipated number of users.
  - b. Nonresidential kitchen faucet use is determined by the occupant load of the area served by the fixture.
3. The daily use number shall be increased to three if urinals are not installed in the room.
4. Gallon per minute.
5. Gallon per flush.