



City of Astoria
Total Water Supply Fixture Units (WSFU) Calculator Worksheet
Fixture Unit Multiplier based on 2017 OPSC Table 610.3

Instructions:

- 1) Enter the Applicant Name, Site Address, Service Type, Current Water Meter Size, and the Qty. for each Fixture Type below; the Notes column is optional.
- 2) If the Current Water Meter Size and the Appropriate Water Meter Size do not match, please complete a Utility Service Permit Application and remit it with this worksheet. The Utility Service Permit Application form may be found on the City of Astoria website under Services > Forms & Permits, or at https://www.astoria.or.us/City_of_Astoria_Forms.aspx#PublicWorksFP.
- 3) Save or print this worksheet and submit it to engpermits@astoria.gov for review. If you do not email, you may also remit via fax (503-338-6538) or mail to: City Hall, ATTN: Engineering, 1095 Duane St., Astoria, OR 97103. Please call 503-338-5173 or email engpermits@astoria.gov with any questions.

Applicant Name: _____

Site Address: _____

Service Type: Public _____

Current Water Meter Size: _____ If Other: _____

Appropriate Water Meter Size: _____ Based on Appendix A of the Water Resolution

This worksheet must include existing *and* proposed fixtures.

The City of Astoria uses American Waterworks Association (AWWA), Uniform Plumbing Code (UPC) and City of Astoria Engineering Design Standards to establish meter size. The water meter sizing chart may be found in the current Water Resolution - Appendix A, and is based on total Water Supply Fixture Units (WSFU) as established in the UPC.

Fixture Type	Qty.	WSFU	Subtotal	Notes
3/4 Inch Bathtub Fill Valve		10.0		
Bathtub		4.0		
Bidet		0.0		
Clothes Washer		4.0		
Combination Bath/Shower		4.0		
Dental Unit (Cuspidor)		1.0		
Dishwasher (Domestic)		1.5		
Drinking Fountain		0.5		
Hose Bibb (1st)		2.5		
Hose Bibb (Additional)		1.0		
Lavatory (Bathroom Sink)		1.0		
Lawn Sprinkler (Count Each Head in Largest Zone)		0.0		
Mobile Home		0.0		
Shower (Per Head)		2.0		
Shower/Bath Combo: see Combination Bath/Shower				See Combination Bath/Shower
Sinks				
Sink, Bar		2.0		
Sink, Bathroom: see Lavatory (Bathroom Sink)				See Lavatory (Bathroom Sink)
Sink, Clinical Faucet		3.0		
Sink, Clinical Flushometer Valve		8.0		
Sink, Kitchen		1.5		
Sink, Laundry		1.5		
Sink, Lavatory (Bathroom Sink)				See Lavatory (Bathroom Sink)
Sink, Service or Mop Basin		3.0		
Sink, Washup (Per Set of Faucets)		2.0		
Toilets & Urinals				
Urinal, >1.0 GPF Flushometer Valve (Tankless)				Sizing for flushometers shall be submitted separately from this worksheet.
Urinal, 1.0 GPF Flushometer Valve (Tankless)				Sizing for flushometers shall be submitted separately from this worksheet.
Urinal, Flush Tank		2.0		
Water Closet (Toilet), >1.6 GPF Flushometer Valve (Tankless)				Sizing for flushometers shall be submitted separately from this worksheet.
Water Closet (Toilet), >1.6 GPF Gravity Tank		5.5		
Water Closet (Toilet), 1.6 GPF Flushometer Tank		2.5		
Water Closet (Toilet), 1.6 GPF Flushometer Valve (Tankless)				Sizing for flushometers shall be submitted separately from this worksheet.
Water Closet (Toilet), 1.6 GPF Gravity Tank		2.5		
Wash Fountain, Circular Spray		4.0		
Water Cooler		0.5		
Total				