



## LANDSCAPE/IRRIGATION WORKSHEET

Tap sizing for dedicated irrigation taps

### Project Information

Project Name:

Irrigation Tap Address:   
\*physical location of tap

### Worksheet Submission Details

Prepared By:

Company:

Company Address:

Submission Date:  Phone:

### Owner/Developer Information

Owner/Developer:  Phone:

Attn:

Billing Address:

### ET Controller Information (with Rain Sensor)

Manufacturer:

Model Number:

**\*\*PLEASE CONTINUE TO 'CALCULATOR' TAB FOR LANDSCAPE/IRRIGATION WORKSHEET\*\***



# LANDSCAPE/IRRIGATION WORKSHEET

Tap sizing for dedicated irrigation taps

**\*Yellow fields require user input\***

**Irrigation Water Requirement = (ET<sub>o</sub> x PF x LA)/IE**

Define Landscape & Irrigation System:	
<b>High Water Use Plant Material</b>	
*Cool season turfgrass (Kentucky bluegrass)	
Plant Factor (PF, %)	High    0.9
Landscape Area (LA, sq ft)	0
Irrigation Efficiency (IE, %)	Overhead    0.65
<b>High-Moderate Water Use Plant Material</b>	
*Hybrid grass types (Texas hybrids, fescue, etc.)	
Plant Factor (PF, %)	High-Med    0.8
Landscape Area (LA, sq ft)	0
Irrigation Efficiency (IE, %)	Overhead    0.65
<b>Moderate Water Use Plant Material</b>	
*Traditional trees/shrubs/perennials, alternative grass types (buffalograss, blue grama, etc.)	
Plant Factor (PF, %)	Med    0.5
Landscape Area (LA, sq ft)	6,587
Irrigation Efficiency (IE, %)	Drip    0.9
<b>Low Water Use Plant Material</b>	
*Xeric trees/shrubs/perennials, native grass mixes	
Plant Factor (PF, %)	Low    0.25
Landscape Area (LA, sq ft)	2,332
Irrigation Efficiency (IE, %)	Drip    0.9

\*PWSD holds final discretion for determining appropriate plant factor designations based on landscape plan submission

Site Summary:	
Total Irrigated Area (sq ft)	8919
Avg Plant Factor (%)	0.43
Avg Irrigation Efficiency (%)	0.90

Peak monthly ET, Parker, CO:	
Peak monthly ET (July):	7.56 in

Irrigation Water Requirement (IWR):	
Peak monthly IWR:	20189 gal
Maximum flow requirement	2.1 GPM

\* Max. flow requirements are based on peak monthly irrigation demands and follow PWSD's watering guidelines

Hydraulic Requirements:	
Tap Size (in)	Max GPM v = 7.5 fps
3/4"	10
1"	18
1 1/2"	40
2"	71
3"	189
4"	380
* 2" and smaller assumes Seamless K Copper Tube 3" and larger assumes Ductile Iron Pipe Class 350	
<b>Tap Size Requirement</b>	<b>3/4"</b>

System Design Pressure: 70 PSI

- Design pressure has been field tested & verified
- This form has been completed in compliance with PWSD's Engineering Standards & Specifications Manual regarding irrigation design specifications

Visit Appendix B of the SMWSA Model Ordinance for Plant Factor Guidelines