



# Water Efficient Landscape Ordinance Workshop

Utility Field Operations Facility  
June 27, 2017

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# City of Santa Rosa Ordinance vs. State Model Ordinance

City of Santa Rosa	State
Applies to all new and rehabilitated landscapes (tied to building permits)	Applies to projects over 500 sqft/2,500 sqft (res/com)
Not allowed	Prescriptive Compliance Option-Appendix D
Trees required on separate valve- except in turf areas	Trees on separate valve recommended
Incorporate amendments into soil: min depth of 8", min rate of 6 cubic yards per 1,000 sqft	Incorporate amendments into soil: min depth of 6", min rate of 4 cubic yards per 1,000 sqft

# City of Santa Rosa Ordinance vs. State Model Ordinance (cont.)

City of Santa Rosa	State
Dedicated irrigation meter or submeter required	Dedicated irrigation meter or submeter required for com >1,000 sqft, res>5,000 sqft
Point source irrigation is required where plant height at maturity will affect the uniformity of an overhead system	Areas less than 10' must be irrigated with subsurface
Appendix A custom created for City of Santa Rosa WELO	Revised Appendix B (Sample Water Efficient Landscape Worksheet)

# MAWA (Appendix A)

- Excel form available

The following calculations will help you determine your site specific water budget and establish a planting mix that will allow you to meet your water budget. Your Estimated Total Water Use must be less than your Maximum Applied Water Allowance.

1.) **Maximum Applied Water Allowance (MAWA) RESIDENTIAL**

$$\text{MAWA} = (\text{ETo}) (0.62)[(0.55 \times \text{LA}) + (0.45 \times \text{SLA})]$$

Where:  
 ETo = Annual Net Reference Evapotranspiration (inches)  
 0.55 = ET Adjustment Factor  
 LA = Landscaped Area (square feet)  
 0.62 = Conversion factor (to gallons per square foot)  
 SLA = Portion of the landscape area identified as Special Landscape Area (square feet)  
 0.45 = the additional ET adjustment factor for Special Landscape Area (1.0 - 0.55 = 0.45)

A.) Net Evapotranspiration Calculation

43.9					
(Annual ETo)					
24.57	x	.25	=	6.14	
(Annual Rainfall)				(Effective Rainfall)	
Net Evapotranspiration Calculation	=	Annual ETo	-	Effective Rainfall	= 37.76

B.) Adjusted Landscape Area Calculation

0	x	0.55	=	0
(Landscaped Area)		Adjustment Factor		
0	x	0.45	=	0
(Special Landscaped Area)		Adjustment Factor		
Sum of Adjusted Landscape Area	=			0

MAWA = 37.76 : 0.62 x 0 = 0 gallons

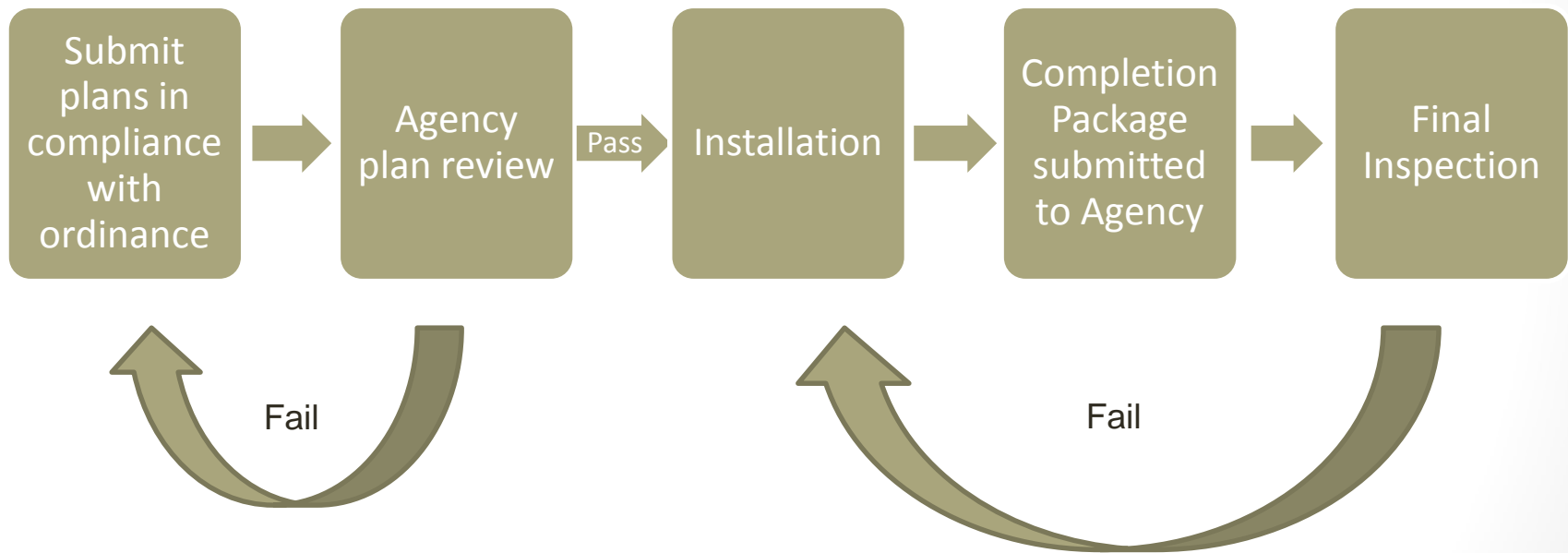
Separate tab for commercial

# MAWA (Appendix A)

- Excel form available

2.)	<b>Estimated Total Water Use (ETWU)</b>																
A.)	<b>Net Evapotranspiration Calculation</b>																
	Net Evapotranspiration Calculation	=	Annual ETo	-	Effective Rainfall	=	37.76										
B.)	<b>Adjusted Landscape Area Calculation</b>																
	0 <i>(Very low water use plant sqft)</i>	x	0.1	=	0												
	0 <i>(Low water use plant sqft)</i>	x	0.3	=	0												
	0 <i>(Moderate water use plant sqft)</i>	x	0.6	=	0												
	0 <i>(High water use plant sqft)</i>	x	1.0	=	0												
	Sum of Adjusted Landscape Area				=	0											
ETWU =	37.76	x	0.62	x	0	/	#DIV/0!	=	#DIV/0!								
<table border="1"> <tr> <td colspan="2"><b>Irrigation Efficiency Factor</b></td> </tr> <tr> <td>Square footage of landscape on drip</td> <td>0</td> </tr> <tr> <td>Square footage of landscape on spray</td> <td>0</td> </tr> <tr> <td>Total square footage of landscape</td> <td>0</td> </tr> <tr> <td>Adjusted Irrigation Efficiency Factor</td> <td>#DIV/0!</td> </tr> </table>								<b>Irrigation Efficiency Factor</b>		Square footage of landscape on drip	0	Square footage of landscape on spray	0	Total square footage of landscape	0	Adjusted Irrigation Efficiency Factor	#DIV/0!
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# Documentation for Compliance



# Resources


- [www.srcity.org/welo](http://www.srcity.org/welo)

Landscape Standards

WaterSmart Ag

[Home](#) > [Departments & Services](#) > [Departments](#) > [Water](#) > [WaterSmart Center](#) > [WaterSmart Yard](#) > [Landscape Standards](#)

## Landscape Standards



Article X, Section 2 of the California Constitution specifies that the right to use water is limited to the amount reasonably required for the beneficial use to be served and the right does not and shall not extend to waste or unreasonable method of use. This policy protects local water supplies through the implementation of a whole systems approach to design, construction, installation, and maintenance of the landscape resulting in water conserving climate-appropriate landscapes improved water quality and the minimization of natural resource inputs.

[All projects applying for building permits: December 1, 2015 - Present](#)

- [Updated Water Efficient Landscape Ordinance](#)
- [Water Efficient Landscape Ordinance 2015 Revision Summary](#)
- [2016 Appendix A Spreadsheet](#)
- [Hydrozone Table](#)
- [Certificate of Completion](#)
- [WELO Revision Workshop Presentation 01 12 16](#)

# Questions?

