



City of Sonoma
 No. 1 The Plaza, Sonoma, CA
 95476

Montaldo Apartments - Residential

WATER EFFICIENT LANDSCAPE WORKSHEET

Prepared 12/1/15

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) 46.1

Hydrozone # /Planting Description ^a	Plant Factor (PF)	Irrigation Method ^b	Irrigation Efficiency (IE) ^c	ETAF (PF/IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU) ^e
Regular Landscape Areas							
Shrubs	0.2 Low	Drip	0.81	0.2	18,234	4,502	128,683
Bioretention	0.2 Low	Spray	0.75	0.3	2,784	742	21,219
Turf	0.6 Mod	Spray	0.75	0.8	2,647	2,118	60,525
Trees	0.4 Mod	Bubbler	0.81	0.5	735	363	225
				Totals	(A) 24,400	(B) 7,725	210,652
Special Landscape Areas							
				1			
				1			
				1			
				Totals	(C)	(D)	
						ETWU Total	210,652
						Maximum Allowed Water Allowance (MAWA)^e	383,570

^aHydrozone #/Planting Description

- E.g
 1.) front lawn
 2.) low water use plantings
 3.) medium water use planting

^bIrrigation Method

- overhead spray
 or drip

^cIrrigation Efficiency

- 0.75 for spray head
 0.81 for drip

^dETWU (Annual Gallons Required) =

$Eto \times 0.62 \times ETAF \times Area$
 where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

^eMAWA (Annual Gallons Allowed) = $(Eto) (0.62) [(ETAF \times TLA) + ((1-ETAF) \times SLA)]$

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

Plant Factor (PF)

- 0 to 0.1 Very Low Water Use Plants
- 0.1 to 0.3 Low Water Use Plants
- 0.4 to 0.6 Moderate Water Use Plants
- 0.7 to 1.0 High Water Use Plants

Plant factors cited are derived from the publication "Water Use classification of Landscape Species".

TLA = regular Landscape Areas + Special Landscape Areas.

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	(B)
Total Area	(A)
Average ETAF	B ÷ A

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas

Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	(B+D) ÷ (A+C)