



Outdoor Water Budget Calculation Equation

Outdoor budget = $\{(LA \times ETo \times WZ ETo) \times (MPF \times VCF / IE)\}$

Where:

LA	=	Landscaped area in square feet
ETo	=	Evapotranspiration total in inches for days in billing period (visit www.cvwd.org/ET)
WZ ETo	=	Weather based adjustment factor (see below)
MPF	=	Monthly Plant Factor
VCF	=	Volumetric Conversion (0.00083)
IE	=	Irrigation system efficiency (70%)

Therefore:

We take your landscaped area and multiply it by the evapotranspiration total in inches for days in the billing period, and then we multiply by the weather based adjustment factor.

The monthly plant factor is multiplied by the volumetric conversion (to convert it to our billing units or CCFs) and divided by the irrigation efficiency. The product of both steps is then multiplied and the outcome is the monthly water budget.

The WZ ETo rates are based on which zone of the Coachella Valley the property is located. Some areas experience different weather conditions, such as areas near the mountains see less direct sunlight than areas far from mountains. The zones are as follows:

Zone 2: 0.77

Zone 3: 0.84

Zone 4: 1.00

Zone 5: 1.09

The MPF adjusts monthly as follows:

January	0.65
February	0.65
March	0.65
April	0.6
May	0.55
June	0.55
July	0.55
August	0.55
September	0.55
October	0.6
November	0.65
December	0.65

Definitions

Evapotranspiration (ET) — Quantity of water evaporated from wet leaves and soil combined with the amount of water used by plants expressed in inches.

Plant factor — A decimal factor that when multiplied by an area's evaporation and plant water usage rates as measured by a weather station estimates the amount of water each plant will need.