



TOWN of CARY

Landscape Water Budget Calculation

Application Date: _____	Irrigation Contractor Name: _____
Permit Number: _____	Irrigation Contractor Telephone Number (____) _____
Service Address: _____	Irrigation Contractor Fax Number (____) _____
Irrigated Landscaped: _____ (sqft)	Irrigation Contractor Email Address _____
<ul style="list-style-type: none"> To keep your company informed, would you like to be included on the Town's irrigation contractor fax distribution list? (yes/no) email distribution list (yes/no) 	

To determine approximate water needs for the property identified above, measure the irrigated area in square feet and multiply by the conversion factor for the applicable month. This formula calculates all water requirements as if turf were being irrigated throughout the site, giving the area its maximum allocation. Official notification of water allocations will be sent to the customer, pending review by Town staff. Call 469-4090 for more information.

Month	Conversion Factor	x Landscaped Area (ft ²)	= Water Budget (gallons/month)
March	0.82		
April	1.53		
May	1.57		
June	2.21		
July	2.30		
August	1.77		
September	1.25		
October	0.45		

******January, February, November, and December irrigation system should be winterized

Water Budget per month = Landscaped Area x Evapotranspiration Rate x Crop Coefficient x Conversion Factor x Irrigation Efficiency – Effective Rainfall

Landscaped Area = Area measured in square feet

Evapotranspiration Rate = Rate in which water is used to grow plants and crops. This term comes from evaporation (water loss by soil), and transpiration (water loss by plants).

Crop Coefficient = Factor used to adjust the Evapotranspiration Rate to a specific crop type, a coefficient of 0.7 is used to promote warm season turf.

Conversion Factor = Factor to convert cubic feet into gallons (7.48)

Irrigation Efficiency = Factor used to adjust for the inability of an irrigation system to distribute water evenly over the area being measured. The minimum industry standard of 62.5% was used for this calculation.

Effective Rainfall = The amount of rainfall that is available to be used by plants. (60% of total rainfall)

**** Please list the number of zones and type of sprinkler heads per zone in the chart below ****

	Rotor	Spray	Drip
Number of Zones			