**Formula Sheet**

**Maximum absorption capacities from California Plumbing Code:**

|  |  |  |
| --- | --- | --- |
| **Type of Soil**  | **Minimum sqft of irrigation area per 100 gallons of graywater/day**  | **Max absorption capacity (gallon/sqft/****day)**  |
| **Coarse sand or gravel** | **20** | **5.0** |
| **Fine Sand**  | **25** | **4.0** |
| **Sandy Loam**  | **40** | **2.5** |
| **Sandy Clay**  | **60** | **1.7** |
| **Clay w/ considerable sand or gravel**  | **90** | **1.1** |
| **Clay w/small amounts of sand or gravel**  | **120** | **0.8** |

 \_\_\_ gal/day emitted

**Irrigation Field Size** = ~~-----------------------------------------------------------------------------~~

\_\_\_ maximum absorption capacity of soil in gal/ ft2 /day

**Area of a hydrozone canopy**= (square footage of the zone) x (number of plants)

Note: Area of a circle= 3.14 x r2

**Water Budget** = 0.62 x Area x ETo x Pf

* + .62 (constant that converts inches to gallons)‏
	+ Area (ft2)‏ = 3.14 x r2 or total area of hydrozones
	+ ETo = Use ETo (inches per month)
	+ Pf = Plant Factor

**Area of a circle** = 3.14 x radius2