

Cannabis Plants Water Usage for a Typical Greenhouse Requirements

- 1) For the purposes of this exercise, we are factoring a cannabis plants modestly assessed 2 gal/day water requirement of 2 gal/day. This value allows for an average consumption over the life of the plant.
- 2) We will factor the area per plant at 16 sq-ft per plant. This will account for a single mature flowering plant area calculation as well as multiple plants in that same area while in a vegetative state.
- 3) When completing CEQA applications the applicant will present the total sq-ft being considered for cultivation. As well as where the water will be coming from and how many gallons/day that operation will require. This will ultimately be converted into an acre-foot/year demand on whatever water supply will be feeding that applicant.
- 4) We will do a project analysis for a proposed 1M sq-ft cultivation facility as follows:

$1,000,00 \text{ sq-ft (Total Area)} \div 16 \text{ sq-ft (per plant area)} = 62,500 \text{ plants}$

$62,500 \text{ (plants)} \times 2 \text{ gal/day water} = 125,000 \text{ gal/day water}$

$1 \text{ acre-foot} = 325,851 \text{ gallons}$

$125,000 \text{ (gal/day)} \div 325,851 \text{ (gal)} = 0.38 \text{ acre-feet/day}$

$0.38 \times 365 \text{ days} = 138.7 \text{ acre-feet/year}$