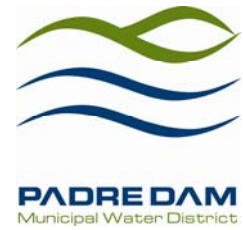


# How Variances for Landscape Are Calculated



Padre Dam will provide large properties with the additional water needed to comply with the defensible space and erosion control regulations set forth in the San Diego County Code of Regulatory Ordinances:

## **Defensible Space Ordinance**

*Code of Regulatory Ordinances, Title 9, Division 6, Chapter 1, Section 4707.2*

This ordinance requires homeowners in high fire hazard areas to maintain irrigated, fire-resistant landscape 50 feet around structures. To calculate your variance, Padre Dam will:

- Measure the square footage of already irrigated land in the 50 feet around each structure
- Calculate the amount of water needed for low water use, fire-resistant plants
- Subtract the amount of water you already have for irrigation in your Tier 2 and 3 allocation

Calculations are based on EPA, State of California and American Water Works Association standards:

*EPA Water Allowance Equation:*

$$LWA = \frac{ETo \times Kwa \times A \times .62}{365}$$

*LWA Landscape water allowance*

*ETo Reference evapotranspiration rate for cool season turf (51 inches)*

*Kwa Landscape coefficient (0.5) divided by average irrigation efficiency (71%)*

*A Irrigated landscape area in square feet*

*.62 Converts inches to gallons*

*365 Converts gallons needed annually to gallons needed daily*

## **Erosion Control Ordinance**

*Code of Regulatory Ordinances, Title 8, Division 7, Chapter 4, Section 87.417*

This ordinance requires homeowners to plant and irrigate any slope over three feet in vertical height. Low water use plants must be used in compliance with the County's landscape requirements, and must be irrigated until 70% coverage of the slope is achieved.

The amount of water needed is determined using the same equation shown above, except that the landscape area (A) is multiplied by 70%.