



**Helix**  
WATER DISTRICT

## Save your trees! Drought Stressed Trees Need Water

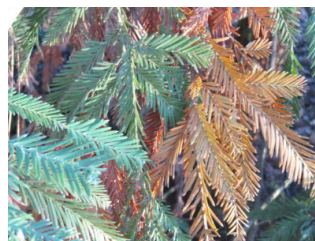
### LOOK FOR SYMPTOMS



Wilted leaves



Yellow or brown leaves

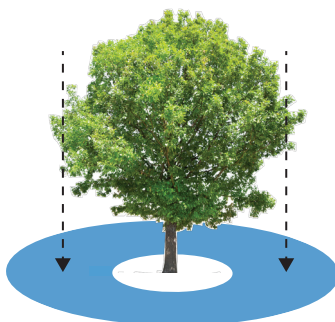


Orange or brown needles

### WATER



Water slowly -- 0.5 to 1.0 gallons per hour. Attach a soaker hose (pictured) to a garden hose and move from tree to tree.



Water at the dripline, which is the outside edge of a tree's canopy.



Spread a 3-4 inch layer of bark mulch at the dripline to hold and slowly release moisture into the soil.

### WATERING SCHEDULE

*Soaker hoses are exempt from 10 minute per day limit (Drought Level 2 watering restrictions)*

		Moderate water use tree						Low water use tree					
Age of tree		May-Oct			Nov-Apr			May-Oct			Nov-Apr		
First 3 months		Twice weekly			Twice weekly			Twice weekly			Twice weekly		
First year		Weekly			Weekly			Weekly			Weekly		
Second year		Weekly			Every 2 weeks			Every 2 weeks			Every 2 weeks		
3+ years		Every 2 weeks			Monthly			Every 2 weeks			Monthly		
Large/mature		Every 3 weeks			Monthly			Every 3 weeks			Monthly		

Moderate water use tree minutes per week clay loam soil	GPH	J	F	M	A	M	J	J	A	S	O	N	D
	0.5	111	111	185	222	259	296	333	333	222	185	111	111
	1.0	57	57	95	114	133	152	152	152	114	95	57	57
Low water use tree minutes per week clay loam soil	GPH	J	F	M	A	M	J	J	A	S	O	N	D
	0.5	74	111	148	185	185	259	259	259	185	148	74	74
	1.0	58	57	76	95	95	114	133	133	95	76	38	38

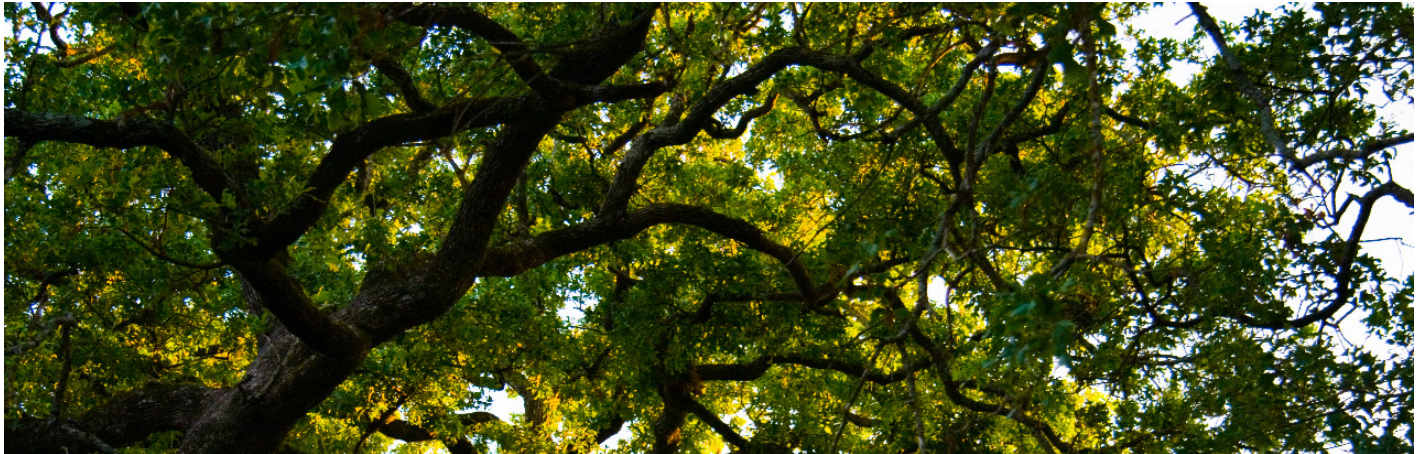
GPH = gallons per hour



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### THE VALUE OF CITY TREES



#### SHADE

Trees can reduce peak summer temperatures by 2 to 9 F.

Shaded wall and roof surfaces may be 20-45 F cooler than the peak temperatures of unshaded surfaces.

*EPA*

#### ENERGY USE

Trees planted along southwest side of a home or building can reduce air conditioning needs by 30 percent / USDA

#### AIR QUALITY

One acre of forest absorbs six tons of carbon dioxide and puts out four tons of oxygen / USDA

#### WATER QUALITY

California's street trees catch 6.92 billion gallons of rainfall annually, reducing pollution from stormwater runoff / USDA

#### PROPERTY VALUES

Larger trees in yards and street trees can add from 3 to 15 percent to home values in the neighborhood / Wolf 2007

#### RENTAL RATES

Office space rental rates were 7 percent higher in commercial buildings with high quality landscape / Laverne & Winson-Geideman 2003

#### SALES TAX

Shoppers claim they will spend 9 to 12 percent more for goods and services in business districts with a high quality tree canopy / Wolf 2005

#### EXERCISE

Exercising in a green environment may enhance its restorative effects and restorative outdoor settings may boost exercise frequency / Hug 2009

#### CRIME

There is less graffiti, vandalism and littering in spaces with natural landscape than spaces with no plants and trees / Brunson 1999

#### ROADS

Shade from street trees can reduce the cost of resurfacing (slurry sealing) streets by 15 to 60 percent / McPherson & Muchnick 2005

**Questions:** Contact Helix's Water Conservation  
Department at 619.466.0585 or [conserve@helixwater.org](mailto:conserve@helixwater.org)