

Avocado Water Use Reference Table by Region

GALLONS OF WATER PER TREE PER WEEK

Mission Region	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
San Diego County Coast	60	77	124	160	179	215	238	227	176	134	82	58	6,927
San Diego County Valleys	61	81	131	167	199	247	260	243	192	146	85	58	7,487
San Diego County Inland Valleys	68	96	150	193	231	283	297	280	225	177	106	65	8,683
Ventura County Plains	65	80	124	154	177	200	211	200	159	126	82	59	6,550
Ventura County Valleys	70	88	133	167	199	223	234	217	176	149	92	65	7,246
Ventura County Inland Valleys	68	95	139	174	201	234	247	236	187	157	104	68	7,641
Ventura County Inland Valleys	78	101	160	206	253	298	319	303	236	184	112	71	9,288
Santa Barbara	45	69	117	150	177	184	201	189	148	119	67	45	6,040
San Luis Obispo County Coast	54	70	118	155	190	179	166	143	114	97	53	42	5,523
San Luis Obispo County Inland	56	74	113	151	175	186	184	162	136	121	74	50	5,929
San Luis Obispo County Inland	54	78	126	158	196	208	206	187	157	130	73	48	6,487
San Luis Obispo	57	77	123	155	197	219	221	201	172	141	81	55	6,791

These data represent the average amount of water that a healthy mature avocado tree uses in one week of respiration. Each month has changing water use as the weather and crop demand changes throughout the year. These data are based on several years of data to form averages, real conditions in the field will vary month to month and year to year. These data do not consider water quality, orchard health, or other site-specific details for water use. Data represented use the following givens: Crop Coefficient (Kc) 0.46 to 0.67 with monthly crop phenology adjustments, distribution uniformity (DU) 0.9, Number of Trees per Acre 139, 4 weeks per month, 0% leaching requirement (LR), Eto from CIMIS Yearly Average by month in the cited region.

Gallons per tree = Eto x Kc / Du x 27,154 gal per acre inch / trees per acre x LR

Hours of irrigation = gallons per tree / number of emitters per tree / emitter rate in gallons per hour

Contact your Mission Field Representative for help developing site specific estimates and watering durations.



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