

**MONSERATE VINEYARD (MUP)**

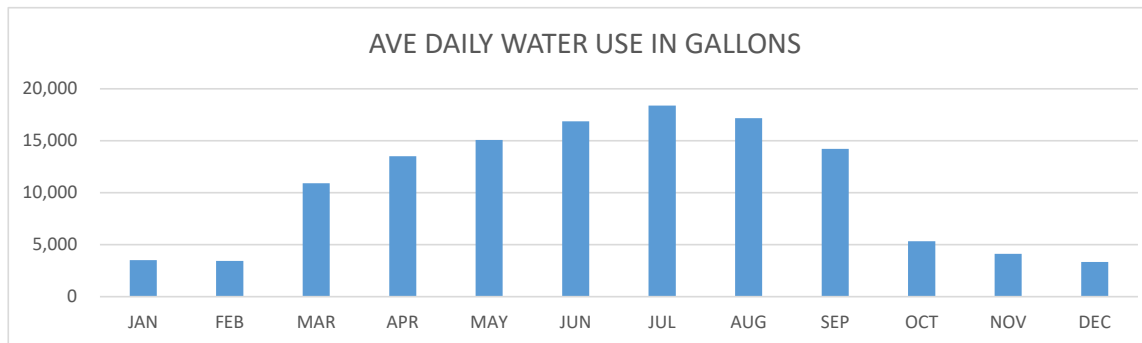
**IRRIGATION WATER PROJECTIONS  
TOTAL SEASON REQUIREMENTS AND PEAK FLOW  
SEASONAL WATER USE**



4/8/2019

GRAPES: 10 HR WINDOW  
TURF: 6 HR WINDOW

Area Description	Total Area (Sq. Ft.)	Total Area (Acre)	Total Season Req.(Ac.Ft.)	Peak Season Flow(GPM)
<b>TOTAL ALL AREAS</b>				
GRAPES	126,324	2.9	5.2	16
LANDSCAPE	157,252	3.6	9.7	22
TURF	126,324	2.9	8.7	29
LAKES	74,488	1.7	6.4	9
<b>TOTAL</b>	<b>484,387</b>	<b>11.1</b>	<b>30.1</b>	<b>75</b>



**ENV. LOG NO. PDS 2018-ER-18-02-003**

Area Description	Irrigated Area (Square Feet)	Irrigated Area (Acres)	Month	Application Rate (Inches)	Monthly Req. (Gallons)	Monthly Req. (Acre Feet)	Peak Flow (GPM)
<b>GRAPES</b>							
	126,324	2.90	Jan.	0.00	0	0.0	0
			Feb.	0.00	0	0.0	0
			Mar.	2.21	173,670	0.5	10
			Apr.	2.73	214,791	0.7	12
			May.	3.04	239,726	0.7	13
			Jun.	3.41	268,160	0.8	15
			Jul.	3.71	292,220	0.9	16
			Aug.	3.47	272,972	0.8	15
			Sep.	2.87	226,164	0.7	12
			Oct.	0.00	0	0.0	0
			Nov.	0.00	0	0.0	0
			Dec.	0.00	0	0.0	0
Sub Total				21.43	1,687,703	5.2	16

Area Description	Irrigated Area (Square Feet)	Irrigated Area (Acres)	Month	Application Rate (Inches)	Monthly Req. (Gallons)	Monthly Req. (Acre Feet)	Peak Flow (GPM)
<b>LANDSCAPE</b>							
	157,252	3.61	Jan.	1.63	159,381	0.5	9
			Feb.	1.60	157,028	0.5	9
			Mar.	2.38	233,484	0.7	13
			Apr.	2.95	288,767	0.9	16
			May.	3.29	322,290	1.0	18
			Jun.	3.68	360,518	1.1	20
			Jul.	4.01	392,865	1.2	22
			Aug.	3.74	366,987	1.1	20
			Sep.	3.10	304,059	0.9	17
			Oct.	2.48	242,894	0.7	13
			Nov.	1.91	187,022	0.6	10
			Dec.	1.55	152,323	0.5	8
Sub Total				32.32	3,167,620	9.7	22

Area Description	Irrigated Area (Square Feet)	Irrigated Area (Acres)	Month	Application Rate (Inches)	Monthly Req. (Gallons)	Monthly Req. (Acre Feet)	Peak Flow (GPM)
<b>TURF</b>							
	126,324	2.90	Jan.	2.17	170,713	0.5	16
			Feb.	2.14	168,193	0.5	15
			Mar.	3.18	250,084	0.8	23
			Apr.	2.95	231,974	0.7	21
			May.	3.29	258,904	0.8	24
			Jun.	3.68	289,613	0.9	27
			Jul.	4.01	315,598	1.0	29
			Aug.	3.74	294,810	0.9	27
			Sep.	3.10	244,258	0.7	22
			Oct.	3.30	260,163	0.8	24
			Nov.	2.54	200,320	0.6	18
			Dec.	2.07	163,153	0.5	15
Sub Total				36.17	2,847,782	8.7	29

Area Description	Irrigated Area (Square Feet)	Irrigated Area (Acres)	Month	Application Rate (Inches)	Monthly Req. (Gallons)	Monthly Req. (Acre Feet)	Peak Flow (GPM)
<b>LAKES</b>							
	74,488	1.71	Jan.	2.26	105,091	0.3	4
			Feb.	2.23	103,540	0.3	4
			Mar.	3.32	153,952	0.5	5
			Apr.	4.10	190,404	0.6	7
			May.	4.58	212,508	0.7	7
			Jun.	5.12	237,714	0.7	8
			Jul.	5.58	259,043	0.8	9
			Aug.	5.21	241,980	0.7	8
			Sep.	4.32	200,487	0.6	7
			Oct.	3.45	160,157	0.5	6
			Nov.	2.66	123,317	0.4	4
			Dec.	2.16	100,437	0.3	3
Sub Total				44.98	2,088,628	6.4	9

**DATA BASE**

	ETo	Leaching Factor	Warm Sea. 100%	Cool Sea 100%	WINE Mgmt.	WINE DU	Lake Evap
JAN	2.71	1.00	0.60	0.80	0.00	0.90	0.84
FEB	2.67	1.00	0.60	0.80	0.00	0.90	0.84
MAR	3.97	1.00	0.60	0.80	0.50	0.90	0.84
APR	4.91	1.00	0.60	0.80	0.50	0.90	0.84
MAY	5.48	1.00	0.60	0.80	0.50	0.90	0.84
JUN	6.13	1.00	0.60	0.80	0.50	0.90	0.84
JUL	6.68	1.00	0.60	0.80	0.50	0.90	0.84
AUG	6.24	1.00	0.60	0.80	0.50	0.90	0.84
SEP	5.17	1.00	0.60	0.80	0.50	0.90	0.84
OCT	4.13	1.00	0.60	0.80	0.00	0.90	0.84
NOV	3.18	1.00	0.60	0.80	0.00	0.90	0.84
DEC	2.59	1.00	0.60	0.80	0.00	0.90	0.84

53.86

**California Irrigation Management Information System (CIMIS)**

# CIMIS Monthly Average ETo Report

Rendered in ENGLISH Units.

Printed on Wednesday, April 10, 2019

**Average ETo Values by Station**

Stn Id	Stn Name	CIMIS Region	Jan (in)	Feb (in)	Mar (in)	Apr (in)	May (in)	Jun (in)	Jul (in)	Aug (in)	Sep (in)	Oct (in)	Nov (in)	Dec (in)	Total (in)
82	Temecula	SCV	2.71	2.67	3.97	4.91	5.48	6.13	6.68	6.24	5.17	4.13	3.18	2.59	53.86

CIMIS Region Abbreviations		
BIS - Bishop	CCV - Central Coast Valleys	ICV - Imperial/Coachella Valley
LAB - Los Angeles Basin	MBY - Monterey Bay	NCV - North Coast Valleys
NEP - Northeast Plateau	SAV - Sacramento Valley	SBE - San Bernardino
SFB - San Francisco Bay	SJV - San Joaquin Valley	SFH - Sierra Foothill
SCV - South Coast Valleys		