

FALLBROOK GOLF COURSE

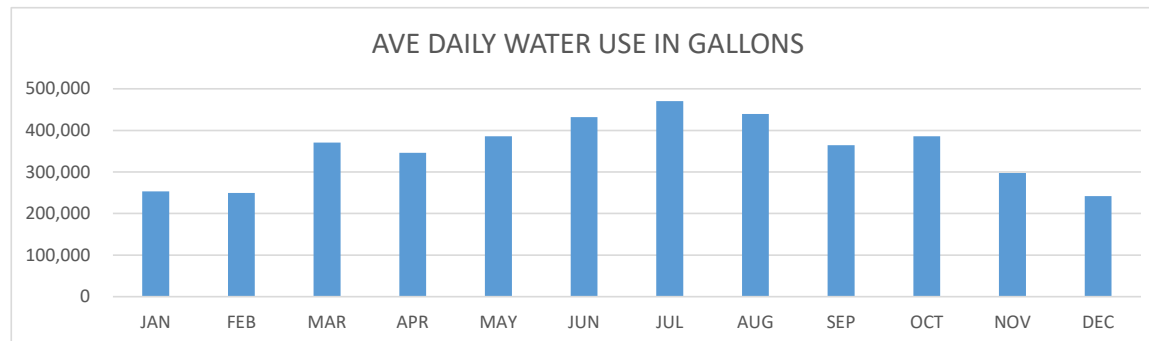
IRRIGATION WATER PROJECTIONS TOTAL SEASON REQUIREMENTS AND PEAK FLOW SEASONAL WATER USE

4/8/2019



TURF: 6 HR WINDOW

Area Description	Total Area (Sq. Ft.)	Total Area (Acre)	Total Season Req.(Ac.Ft.)	Peak Season Flow(GPM)
TOTAL ALL AREAS				
GRAPES	0	0.0	0.0	0
LANDSCAPE	261,360	6.0	16.2	36
TURF	3,876,840	89.0	383.2	1,268
LAKES	79,944	1.8	6.9	10
TOTAL	4,218,144	96.8	406.2	1,314



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

Fallbrook Golf Course Water Use Projection -4/10/2019

Area Description	Irrigated Area (Square Feet)	Irrigated Area (Acres)	Month	Application Rate (Inches)	Monthly Req. (Gallons)	Monthly Req. (Acre Feet)	Peak Flow (GPM)
TURF							
	3,876,840	89.00	Jan.	3.10	7,484,443	23.0	686
			Feb.	3.05	7,373,971	22.6	676
			Mar.	4.54	10,964,294	33.7	1,005
			Apr.	4.21	10,170,281	31.2	932
			May.	4.70	11,350,944	34.8	1,040
			Jun.	5.25	12,697,316	39.0	1,164
			Jul.	5.73	13,836,553	42.5	1,268
			Aug.	5.35	12,925,163	39.7	1,185
			Sep.	4.43	10,708,829	32.9	981
			Oct.	4.72	11,406,180	35.0	1,045
			Nov.	3.63	8,782,483	27.0	805
			Dec.	2.96	7,153,028	22.0	656
Sub Total				51.67	124,853,485	383.2	1,268

Area Description	Irrigated Area (Square Feet)	Irrigated Area (Acres)	Month	Application Rate (Inches)	Monthly Req. (Gallons)	Monthly Req. (Acre Feet)	Peak Flow (GPM)
LANDSCAPE							
	261,360	6.00	Jan.	1.63	264,899	0.8	15
			Feb.	1.60	260,989	0.8	14
			Mar.	2.38	388,062	1.2	21
			Apr.	2.95	479,946	1.5	26
			May.	3.29	535,663	1.6	29
			Jun.	3.68	599,199	1.8	33
			Jul.	4.01	652,961	2.0	36
			Aug.	3.74	609,952	1.9	34
			Sep.	3.10	505,360	1.6	28
			Oct.	2.48	403,702	1.2	22
			Nov.	1.91	310,841	1.0	17
			Dec.	1.55	253,169	0.8	14
Sub Total				32.32	5,264,742	16.2	36

Area Description	Irrigated Area (Square Feet)	Irrigated Area (Acres)	Month	Application Rate (Inches)	Monthly Req. (Gallons)	Monthly Req. (Acre Feet)	Peak Flow (GPM)
LAKES							
	79,944	1.84	Jan.	2.26	112,789	0.3	4
			Feb.	2.23	111,124	0.3	4
			Mar.	3.32	165,229	0.5	6
			Apr.	4.10	204,352	0.6	7
			May.	4.58	228,075	0.7	8
			Jun.	5.12	255,127	0.8	9
			Jul.	5.58	278,018	0.9	10
			Aug.	5.21	259,706	0.8	9
			Sep.	4.32	215,173	0.7	7
			Oct.	3.45	171,888	0.5	6
			Nov.	2.66	132,350	0.4	5
			Dec.	2.16	107,794	0.3	4
Sub Total				44.98	2,241,626	6.9	10

DATA BASE

	ETo	Leaching Factor	Warm Sea. 100%	Cool Sea 100%	Landscape Mgmt.	Turf Mgmt.	Turf DU	Lake Evap
JAN	2.71	1.00	0.60	0.80	1.00	1.00	0.70	0.84
FEB	2.67	1.00	0.60	0.80	1.00	1.00	0.70	0.84
MAR	3.97	1.00	0.60	0.80	1.00	1.00	0.70	0.84
APR	4.91	1.00	0.60	0.80	1.00	1.00	0.70	0.84
MAY	5.48	1.00	0.60	0.80	1.00	1.00	0.70	0.84
JUN	6.13	1.00	0.60	0.80	1.00	1.00	0.70	0.84
JUL	6.68	1.00	0.60	0.80	1.00	1.00	0.70	0.84
AUG	6.24	1.00	0.60	0.80	1.00	1.00	0.70	0.84
SEP	5.17	1.00	0.60	0.80	1.00	1.00	0.70	0.84
OCT	4.13	1.00	0.60	0.80	1.00	1.00	0.70	0.84
NOV	3.18	1.00	0.60	0.80	1.00	1.00	0.70	0.84
DEC	2.59	1.00	0.60	0.80	1.00	1.00	0.70	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)
62	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		

MONSERATE VINEYARD (MUP)

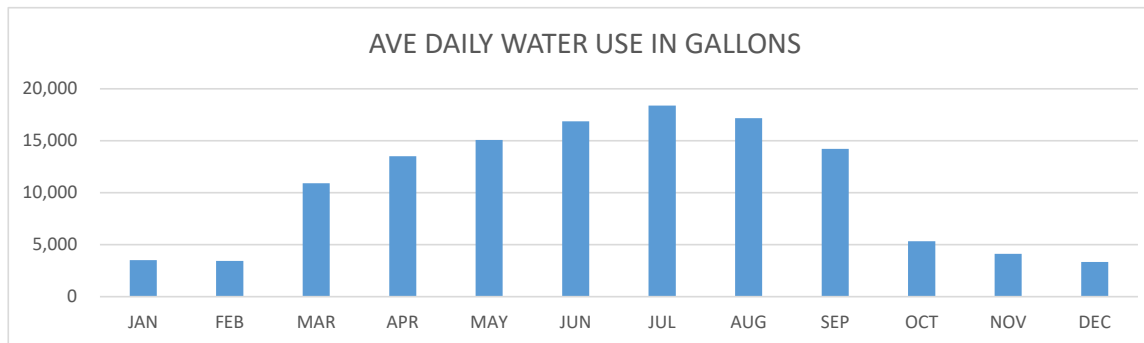
IRRIGATION WATER PROJECTIONS TOTAL SEASON REQUIREMENTS AND PEAK FLOW SEASONAL WATER USE

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)
TOTAL ALL AREAS				
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
TOTAL	484,387	11.1	30.1	75



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)
GRAPES							
	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)
LANDSCAPE							
	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)
TURF							
	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)
LAKES							
	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

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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)
62	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		
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MONSERATE VINEYARD

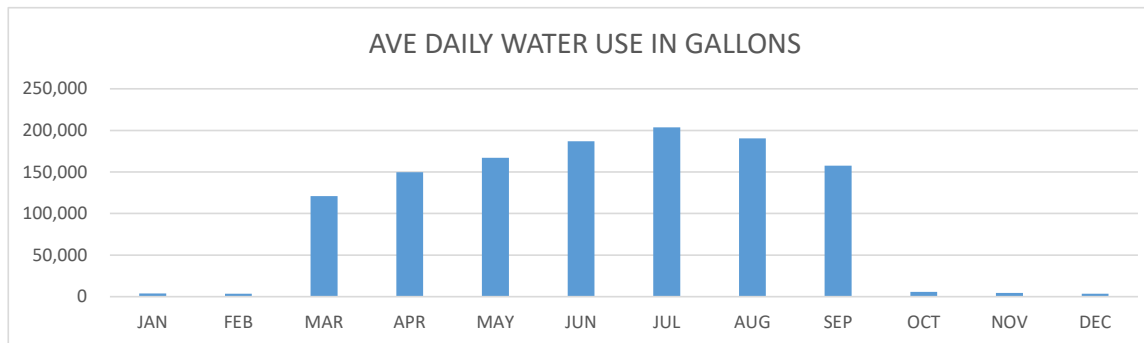
IRRIGATION WATER PROJECTIONS TOTAL SEASON REQUIREMENTS AND PEAK FLOW SEASONAL WATER USE

3/27/2018



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)
TOTAL ALL AREAS				
GRAPES	2,521,159	57.9	103.4	321
LANDSCAPE	0	0.0	0.0	0
TURF	245,545	5.6	17.0	56
LAKES	79,944	1.8	6.9	10
TOTAL	2,846,648	65.4	127.2	386



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)
GRAPES							
	2,521,159	57.88	Jan.	0.00	0	0.0	0
			Feb.	0.00	0	0.0	0
			Mar.	2.21	3,466,080	10.6	191
			Apr.	2.73	4,286,764	13.2	236
			May.	3.04	4,784,413	14.7	263
			Jun.	3.41	5,351,907	16.4	294
			Jul.	3.71	5,832,095	17.9	321
			Aug.	3.47	5,447,945	16.7	300
			Sep.	2.87	4,513,762	13.9	248
			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	33,682,967	103.4	321

Area Description	Irrigated Area (Square Feet)	Irrigated Area (Acres)	Month	Application Rate (Inches)	Monthly Req. (Gallons)	Monthly Req. (Acre Feet)	Peak Flow (GPM)
TURF							
	245,545	5.64	Jan.	2.17	331,826	1.0	30
			Feb.	2.14	326,928	1.0	30
			Mar.	3.18	486,107	1.5	45
			Apr.	2.95	450,904	1.4	41
			May.	3.29	503,249	1.5	46
			Jun.	3.68	562,941	1.7	52
			Jul.	4.01	613,450	1.9	56
			Aug.	3.74	573,043	1.8	53
			Sep.	3.10	474,781	1.5	44
			Oct.	3.30	505,698	1.6	46
			Nov.	2.54	389,375	1.2	36
			Dec.	2.07	317,133	1.0	29
Sub Total				36.17	5,535,437	17.0	56

Area Description	Irrigated Area (Square Feet)	Irrigated Area (Acres)	Month	Application Rate (Inches)	Monthly Req. (Gallons)	Monthly Req. (Acre Feet)	Peak Flow (GPM)
LAKES							
	79,944	1.84	Jan.	2.26	112,789	0.3	4
			Feb.	2.23	111,124	0.3	4
			Mar.	3.32	165,229	0.5	6
			Apr.	4.10	204,352	0.6	7
			May.	4.58	228,075	0.7	8
			Jun.	5.12	255,127	0.8	9
			Jul.	5.58	278,018	0.9	10
			Aug.	5.21	259,706	0.8	9
			Sep.	4.32	215,173	0.7	7
			Oct.	3.45	171,888	0.5	6
			Nov.	2.66	132,350	0.4	5
			Dec.	2.16	107,794	0.3	4
Sub Total				44.98	2,241,626	6.9	10