

Historical Reference Evapotranspiration and Rainfall Data in Inches from CIMIS Station #83

Water-Use Efficiency Hotline 543-3985

Water-Use Efficiency Web Site: srcity.org/watersmart

Weekly watering recommendations: 543-3466

CIMIS weather data: cimis.water.ca.gov

REFERENCE EVAPOTRANSPIRATION (ET_o) DATA (Station #83): monthly evapotranspiration rates (inches) for cool season turf 4 - 6 inches tall, well watered, and densely planted in large pastures.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
2009	1.41	1.38	3.20	4.67	4.74	5.47	6.26	5.81	4.88	3.00	1.69	0.79	= 43.30
2010	0.65	1.25	2.90	3.70	4.77	6.00	5.36	5.23	4.16	2.53	1.68	0.67	= 38.90
2011	1.18	1.88	2.20	4.51	5.60	5.38	6.29	5.45	4.31	2.81	1.57	1.67	= 42.85
2012	1.42	2.24	2.53	4.09	6.16	6.56	6.35	5.63	4.34	3.16	1.44	1.01	= 44.93
2013	1.44	2.24	2.89	5.00	6.15	5.92	5.36	5.16	4.82	3.84	2.25	1.72	= 46.79
2014	1.85	1.51	3.25	4.51	6.44	6.61	5.90	4.87	4.28	3.41	1.75	0.99	= 45.37
2015	1.39	2.03	3.62	4.90	4.93	6.29	6.42	5.95	5.03	3.79	2.08	1.11	= 47.54
2016	0.91	2.08	2.69	3.03	3.37	4.06	5.43	5.31	4.93	2.56	1.51	1.10	= 36.98
2017	1.04	1.35	3.08	3.9	5.58	6.37	7.17	5.23	4.73	3.85	1.3	1.5	= 45.1
2018	0.95	2.45	2.88	3.95	5.49	7.04	6.73	5.59	4.92	3.61	1.92	1.22	= 46.75
Avg.	1.22	1.84	2.92	4.23	5.32	5.97	6.13	5.42	4.64	3.26	1.72	1.18	= 43.85

April - October Avg. = **34.97** Annual Avg. = **43.85**

RAINFALL DATA (Station #83): monthly rainfall (inches).

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
2009	0.56	7.58	2.14	0.38	2.49	0.02	0.00	0.00	0.00	3.61	0.94	3.82	= 21.54
2010	10.77	5.65	3.55	4.29	2.32	0.19	0.03	0.02	0.00	1.67	2.74	8.97	= 40.20
2011	1.90	5.70	10.95	0.56	3.09	1.51	0.00	0.00	0.00	1.73	2.20	0.10	= 27.74
2012	7.17	1.62	7.64	1.77	0.12	0.00	0.00	0.00	0.00	2.23	8.12	9.56	= 38.23
2013	0.94	0.50	1.96	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.48	= 5.01
2014	0.09	12.26	3.87	1.34	0.02	0.00	0.01	0.01	0.42	0.75	3.34	13.03	= 35.14
2015	0.12	2.87	0.17	1.40	0.08	0.17	0.04	0.07	0.42	0.03	0.91	6.11	= 12.39
2016	8.85	0.15	5.94	1.18	0.41	0.13	0.08	0.11	0.02	5.71	3.53	6.17	= 32.28
2017	14.58	11.59	3.13	3.47	0.14	0.39	0.01	0	0.21	0.17	4.58	0.08	= 38.35
2018	5.89	0.74	6.24	4.31	0.09	0.11	0.04	0.06	0.24	1.28	5.19	3.44	= 27.63
Avg.	5.09	4.87	4.56	1.98	0.88	0.25	0.02	0.03	0.13	1.72	3.16	5.18	= 27.85

April - October Avg. = **5.01** Annual Avg. = **27.85**

ET_o MINUS EFFECTIVE RAINFALL: subtracts only the portion of the rainfall that is useful to plants.

(Effective Rainfall (ER): If rainfall < 0.25, then ER = 0. If rainfall > 0.25, then ER = 0.33 x rainfall)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
2009	1.23	0.00	2.49	4.54	3.92	5.47	6.26	5.81	4.88	1.81	1.38	0.00	= 37.79
2010	0.00	0.00	1.73	2.28	4.00	6.00	5.36	5.23	4.16	1.98	0.78	0.00	= 31.52
2011	0.55	0.00	0.00	4.33	4.58	4.88	6.29	5.45	4.31	2.24	0.84	1.67	= 35.14
2012	0.00	1.71	0.01	3.51	6.16	6.56	6.35	5.63	4.34	2.42	0.00	0.00	= 36.68
2013	1.13	2.08	2.24	4.63	6.15	5.92	5.36	5.16	4.82	3.84	2.25	1.56	= 45.14
2014	1.85	0.00	1.97	4.07	6.44	6.61	5.90	4.87	4.14	3.16	0.65	0.00	= 39.66
2015	1.39	1.08	3.62	4.44	4.93	6.29	6.42	5.95	4.89	3.79	1.78	0.00	= 44.58
2016	0.00	2.08	0.73	2.64	3.23	4.06	5.43	5.31	4.93	0.68	0.35	0.00	= 29.44
2017	0.00	0.00	2.05	2.75	5.58	6.24	7.17	5.23	4.73	3.85	0.00	1.50	= 39.10
2018	0.00	2.21	0.82	2.53	5.49	7.04	6.73	5.59	4.92	3.19	0.21	0.08	= 38.80
Avg.	0.61	0.91	1.57	3.57	5.05	5.91	6.13	5.42	4.61	2.70	0.82	0.48	= 37.79

April - October Avg. = **33.39** Annual Avg. = **37.79**