

REFERENCE EVAPOTRANSPIRATION (ET_o) DATA (CIMIS Station # 83 at Brown Farm, Santa Rosa)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
2001	1.30	1.73	3.26	4.59	6.48	6.87	6.28	6.08	4.44	3.06	1.27	0.95	= 46.31
2002	1.34	1.83	3.35	4.04	6.00	6.62	6.76	5.43	4.92	3.23	1.70	0.88	= 46.10
2003	0.86	2.01	3.53	3.69	5.62	5.75	6.99	5.95	4.72	3.86	1.40	0.87	= 45.25
2004	0.96	1.66	4.56	4.73	6.07	6.49	6.35	5.95	5.60	3.17	1.61	0.91	= 48.06
2005	0.96	1.45	3.03	4.36	5.08	5.81	6.71	5.44	4.20	3.36	1.78	0.74	= 42.92
2006	1.16	1.94	2.25	3.16	5.40	6.05	6.83	5.49	4.44	2.93	1.28	1.04	= 41.97
2007	1.55	1.41	3.55	4.57	5.76	5.81	6.88	6.04	4.58	2.76	1.79	1.26	= 45.96
2008	0.94	1.93	3.64	5.15	5.64	6.74	6.42	6.04	4.50	3.51	1.37	0.89	= 46.77
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
Avg.	1.16	1.70	3.37	4.33	5.64	6.18	6.61	5.80	4.70	3.21	1.54	0.93	= 45.18
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
April - October (2001-2010) Avg. = 36.47													Annual (2001-2010) Avg. = 45.18

RAINFALL DATA (Laguna Treatment Plant, Santa Rosa)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Totals
2001	5.67	5.92	1.75	1.32	0.00	0.08	0.00	0.00	0.00	0.82	8.70	11.18	= 35.44
2002	5.30	1.70	2.52	0.65	0.87	0.00	0.00	0.00	0.00	0.05	3.31	15.52	= 29.92
2003	3.30	2.06	1.68	4.24	1.13	0.00	0.00	0.00	0.00	0.00	3.34	9.80	= 25.55
2004	4.27	8.36	0.88	0.49	0.00	0.00	0.00	0.00	0.00	3.28	1.98	10.20	= 29.46
2005	4.26	4.03	5.59	1.65	4.27	0.64	0.00	0.00	0.00	1.27	3.07	15.23	= 40.01
2006	4.87	3.91	9.38	4.83	0.40	0.00	0.00	0.00	0.00	0.55	3.62	5.75	= 33.31
2007	0.51	7.18	0.36	1.91	0.5	0.00	0.00	0.00	0.00	2.16	0.75	6.10	= 19.47
2008	11.52	3.06	0.28	0.31	0.00	0.00	0.00	0.00	0.00	0.80	2.20	3.12	= 21.29
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	4.50	2.74	8.97	= 43.03
Avg.	5.10	4.95	2.81	2.01	1.20	0.09	0.00	0.00	0.00	1.70	3.07	8.97	= 35.44
2011	1.90	5.70	10.95	0.56	3.09	1.51	0.00	0.00	0.00	1.73	2.21	0.10	= 27.75
April - October (2001-2011) Avg. = 5.01													Annual (2001-2010) Avg. = 29.90

ET_o MINUS EFFECTIVE RAINFALL

(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
2001	0.00	0.00	2.11	3.72	6.48	6.87	6.28	6.08	4.44	2.52	0.00	0.00	= 38.49
2002	0.00	0.71	1.69	3.61	5.43	6.62	6.76	5.43	4.92	3.23	0.00	0.00	= 38.39
2003	0.00	0.65	2.42	0.89	4.87	5.75	6.99	5.95	4.72	3.86	0.00	0.00	= 36.11
2004	0.00	0.00	3.98	4.41	6.07	6.49	6.35	5.95	5.60	1.01	0.30	0.00	= 40.15
2005	0.00	0.00	0.00	3.27	2.26	5.39	6.71	5.44	4.20	2.52	0.00	0.00	= 29.79
2006	0.00	0.00	0.00	0.00	5.14	6.05	6.83	5.49	4.44	2.57	0.00	0.00	= 30.51
2007	1.21	0.00	3.31	3.31	5.43	5.81	6.88	6.04	4.58	1.33	1.30	0.00	= 39.20
2008	0.00	0.00	3.46	4.95	5.64	6.74	6.42	6.04	4.50	2.98	0.00	0.00	= 40.72
2009	1.04	0.00	1.79	4.42	3.10	5.47	6.26	5.81	4.88	0.62	1.07	0.00	= 34.45
2010	0.00	0.00	1.73	2.28	4.00	6.00	5.36	5.23	4.16	1.05	0.78	0.00	= 30.59
Avg.	0.23	0.14	2.05	3.09	4.84	6.12	6.48	5.75	4.64	2.17	0.34	0.00	= 35.84
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
April - October (2001-2010) Avg. = 33.09													Annual (-2001-2010) Avg. = 35.84