

Table 4.1-1
 Applied Crop Water Duties, Agricultural Water Requirements and Return Flows, 2008
 Santa Maria Valley Management Area

Crop Category	Evapotranspiration of Crop ETc (in)	Effective Precipitation P_E (in)	Evapotranspiration of Applied Water ETaw (in)	Evapotranspiration of Applied Water ETaw (af/ac)	Distribution Uniformity DU (%)	Applied Water AW (af/ac)	Crop Acreage	Estimated Water Requirements (af)	Applied Water above ETaw AW-ETaw (in)	Applied Water above ETaw AW-ETaw (ft)	Agricultural Return Flow
Rotational Vegetables ¹	24.1	0.1	24.0	2.0	80	2.50	31,976	79,940	6.0	0.50	15,988
Truck Crop (Misc) ²	---	---	22.8	1.9	80	2.38	1,252	2,974	5.7	0.48	595
Strawberries ¹	17.2	1.4	15.8	1.3	85	1.55	11,135	17,292	2.8	0.23	2,594
Wine Grapes ²	---	---	13.8	1.2	95	1.20	4,042	4,850	0.6	0.05	202
Grain ²	---	---	2.4	0.2	80	0.30	584	175	1.2	0.10	58
Pasture ¹	45.0	3.5	41.5	3.5	80	4.33	714	3,088	10.4	0.87	618
Nursery ³	---	---	---	---	---	2.1	164	344	5.0	0.42	69
Citrus ²	---	---	30.0	2.5	85	2.90	35	102	4.8	0.40	14
Total							49,902	108,765			20,137

- 1) CIMIS-based applied crop water duties
- 2) Reported ETaw-based applied crop water duties
- 3) NMMA applied crop water duty; DU assumed as 80%

**Table 4.2-1
Treated Municipal Waste Water Discharge in 2008
Santa Maria Valley Management Area
(in acre-feet)**

Month	City of Santa Maria		Laguna Sanitation District WWTP				City of Guadalupe		Total Municipal Waste Water Discharge				
	Estimated Influent	Metered Effluent	Metered Influent	Estimated Effluent			Metered Influent	Estimated Effluent	Influent	Effluent			
	Total ¹ (af)	Total (af)	Total (af)	to spray fields ² (af)	to injection (af)	Total ² (af)	Total (af)	Total ² (af)	Total (af)	to ponds (af)	to spray fields (af)	to injection (af)	Total (af)
January	817.6	735.9	184.7	160	6.2	166	56	51	1,059	736	211	6	953
February	745.1	670.6	174.5	151	6.4	157	52	47	972	671	198	6	875
March	857.8	772.0	213.2	184	7.5	192	53	47	1,124	772	232	8	1,011
April	825.0	742.5	182.4	157	6.9	164	52	47	1,060	743	204	7	954
May	915.0	823.5	201.8	174	7.3	182	53	47	1,169	823	222	7	1,052
June	928.4	835.6	197.2	170	6.9	177	51	46	1,177	836	216	7	1,059
July	984.8	886.3	180.9	155	8.2	163	50	45	1,215	886	199	8	1,094
August	956.2	860.6	184.7	158	8.4	166	55	50	1,196	861	208	8	1,077
September	962.2	866.0	175.0	150	7.8	158	51	46	1,188	866	196	8	1,069
October	903.3	813.0	188.5	162	7.8	170	54	49	1,146	813	210	8	1,031
November	848.6	763.7	182.4	156	7.8	164	51	46	1,082	764	202	8	974
December	833.5	750.2	205.6	178	7.4	185	55	49	1,094	750	227	7	985
Annual Totals	10,578	9,520	2,271	1,955	89	2,044	633	570	13,482	9,520	2,525	89	12,134

1) Total influent estimated based on assumed loss of 10% during treatment (111% of metered effluent); all effluent discharged to ponds.

2) Effluent volumes estimated except for metered injection; total effluent estimated as 10% of metered influent.