



WATER BUDGET CALCULATOR

Crop: **Nectarine**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average Monthly ETo (mm)	254	207	186	144	102	48	56	87	81	146	195	254
Average Daily ETo (mm)	8.2	7.4	6.0	4.8	3.3	1.6	1.8	2.8	2.7	4.7	6.5	8.2
Average (mean) Rainfall (mm/month)	16.8	20.4	25.2	56.2	130.9	205.3	220.7	168.6	122.7	67.9	42.1	12.4
Aver. Rainfall - Decile 1 (mm/month)	0.0	0.0	0.4	7.2	57.2	109.2	123.6	88.8	59.2	26.0	13.9	0.6
Effective Rainfall Fraction	0.6											
Effective Rainfall - Average Year (mm)	10.1	12.2	15.1	33.7	78.5	123.2	132.4	101.2	73.6	40.7	25.3	7.4
Effective Rainfall - Decile 1 Year (mm)	0.0	0.0	0.2	4.3	34.3	65.5	74.2	53.3	35.5	15.6	8.3	0.4

CROP WATER REQUIREMENT & IRRIGATION SUMMARY

Crop Coefficient (Kc)	0.90	0.90	0.50	0.50	0.00	0.00	0.00	0.00	0.50	0.60	0.60	0.70
Crop Water Requirement (L/tree)	1028.7	838.4	418.5	324.0	0.0	0.0	0.0	0.0	182.3	394.2	526.5	800.1
Water Deficit												
<i>Average Rainfall Month (L/tree)</i>	1018.6	826.1	403.4	290.3	0	0	0	0	108.6	353.5	501.2	792.7
<i>Decile 1 Rainfall Month (L/tree)</i>	1028.7	838.4	418.3	319.7	0	0	0	0	146.7	378.6	518.2	799.7
Irrigation Requirement												
<i>Average Rainfall Month (kL/ha)</i>	1132	918	448	323	0	0	0	0	121	393	557	881
<i>Decile 1 Rainfall Month (kL/ha)</i>	1143	931	465	355	0	0	0	0	163	421	576	889

Average Annual Evaporation **1760 mm**
 Average Annual Rainfall **1089 mm**
 Annual Crop Water Requirement **4513 L/tree**

Current Crop Allocation (kL/ha/yr)
 Crop Area or Property size (ha)
 Licensed Allocation (kL/yr)
 Trees per hectare
 System Efficiency (DU₂₅%)

ALLOCATION SUMMARY

Theoretical Irrigation Requirement

<i>Average Rainfall Year</i>	4,771	kL/yr
<i>Decile 1 Rainfall Year</i>	4,942	kL/yr

Calculated Crop Allocation (DU% Adjusted)

<i>Average Rainfall Year</i>	4,970	kL/yr
<i>Decile 1 Rainfall Year</i>	5,148	kL/yr

Potential Crop Area - Current Allocation (DU% Adjusted)

<i>Average Rainfall Year</i>	0.0	ha
<i>Decile 1 Rainfall Year</i>	0.0	ha

Additional Comments: 1111 trees per ha. 4.5m² wetted area.