

Table S1. Mean values of flowering and reproductive parameters during the second season (2010-2011) in the three treatments assessed (Control, RDI-1 and RDI-2).

Treatment	Flower per branch (flower/cm)	Fruit set (%)	Drop fruits (%)	Fruit per branch (fruit/cm)	Rate fruit/flower
Control	0.06±0.023a	39.48±2.16a	57.54±15.25a	0.01± 0.004a	0.39±0.05a
RDI-1	0.09±0.011a	10.54±2.25b	76.89±9.18a	0.01±0.004a	0.11±0.14b
RDI-2	0.21±0.023a	37.73±3.75a	64.01±8.27a	0.05±0.001a	0.38±0.07a

Means within columns followed by different letters were significantly different after analysis of variance and a Duncan multiple range test ($p \leq 0.05$). Values are mean $\pm$ S.E of three replicate (4 trees per replicate).

Table S2. Influence of irrigation treatments on irrigation water use efficiency (WUE) and in the distribution of photosynthetic resources (rate production/TCSA and rate production/ Δ TCSA) during the experimental period in the three treatments assayed in both experiments (2009-2011).

	WUE (kg/m ³)	Yield/TCSA (kg/cm ²)	Yield/ Δ TCSA (kg/cm ²)
<i>Experiment 1</i>			
Control	6.47±1.28 a	0.27±0.05a	16.59±5.33a
RDI-1	4.67±1.00a	0.16±0.03a	11.95±4.51a
RDI-2	4.85±1.28a	0.22±0.06a	18.70±8.99a
<i>Experiment 2</i>			
Control	3.86±0.82a	0.24±0.05a	19.64±2.95a
RDI-1	3.53±0.33a	0.18±0.02a	14.21±7.46 a
RDI-2	6.44±0.56b	0.30±0.04a	17.54±10.79a

Means within columns followed by different letters were significantly different according to a Duncan multiple range test ($p \leq 0.05$). Values are mean $\pm$ S.E of three replicate (4 trees per replicate).