

Accessory Publication

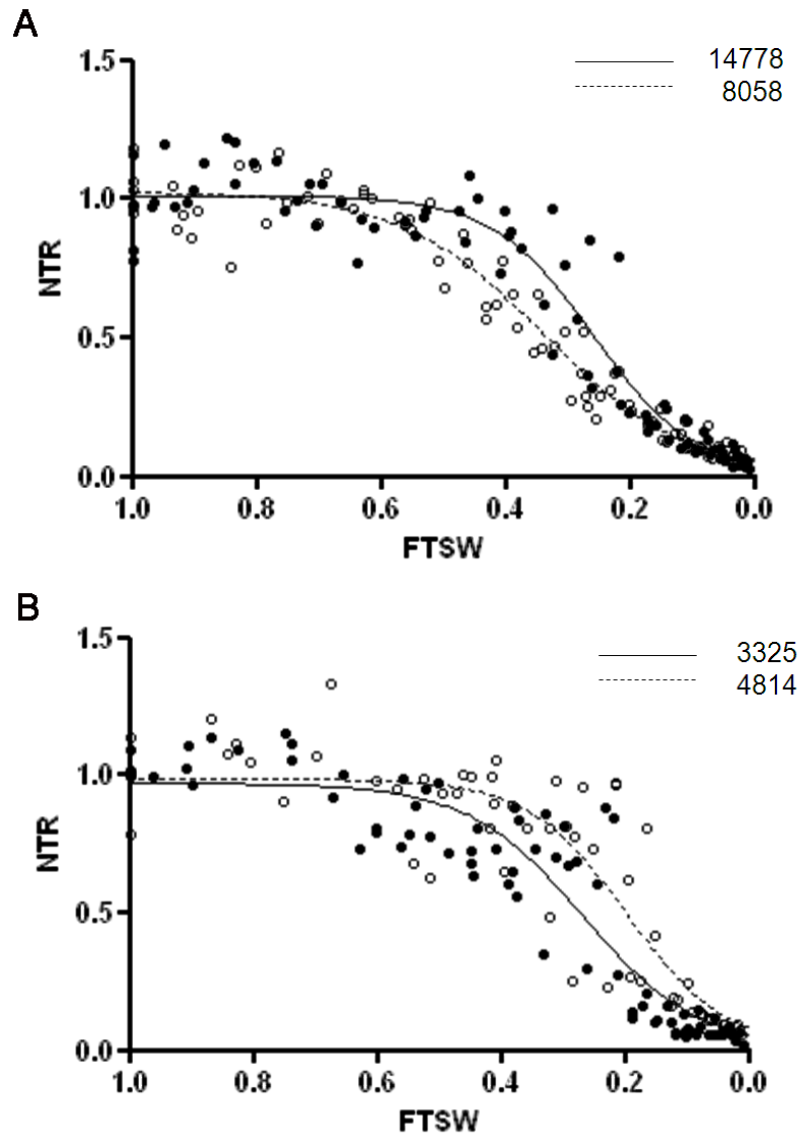


Fig. S1. Relationship between the normalized transpiration ratio (NTR) and the fraction of transpirable soil water (FTSW) of in two chickpea genotypes contrasting for terminal drought tolerance (tolerant, black symbols and solid lines; sensitive, open symbols and dashed lines) grown (A) under glasshouse and (B) outdoors conditions.

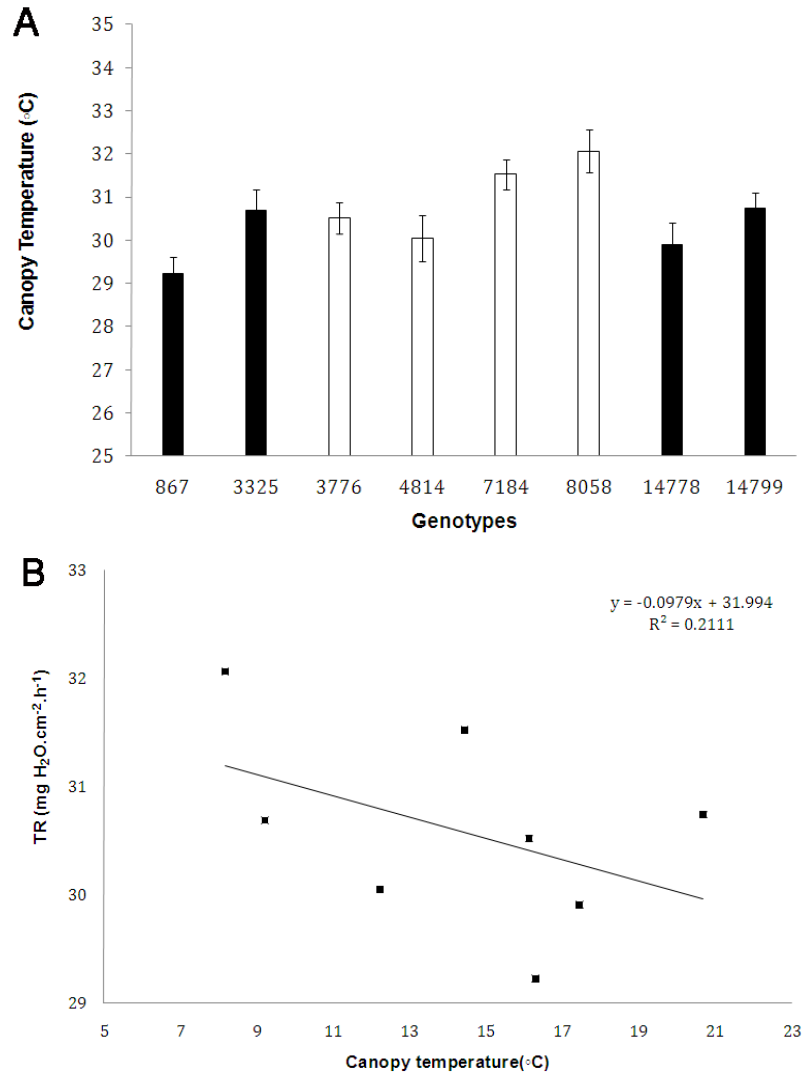


Fig. S2. Variation of (A) canopy temperature (°C) and (B) Relationship between transpiration rate and canopy temperature in chickpea genotypes contrasting for terminal drought tolerance (tolerant, black bars; sensitive, white bars) grown under well watered conditions. The measurements were made when the plants were at early podding stage (66 DAS).

Table S1. Dry mass (g. plant⁻¹) of shoots, roots and leaves (SDW, RDW, LDW), specific leaf area (SLA, cm². g⁻¹), transpiration efficiency (TE, g biomass kg⁻¹ water transpired), and total water transpired during the dry down (Total TR, kg plant⁻¹) and leaf expansion rate (LER, cm² day⁻¹) of chickpea genotypes contrasting for terminal drought tolerance (tolerant, T; sensitive, S), grown in glasshouse under well watered (control) and water stress conditions

Values are means of five replicates for each genotype. Genotypes followed by same letter are not significantly different

		867 (T)	3325 (T)	3776 (S)	4814 (S)	7184 (S)	8058 (S)	14778 (T)	14799 (T)
Pre-dry down	SDW (g)	4.73 ^c	4.80 ^c	4.89 ^{bc}	5.33 ^{ab}	4.98 ^{bc}	5.57 ^a	3.12 ^d	3.87 ^d
	RDW (g)	1.28 ^{ab}	1.52 ^a	0.78 ^c	1.05 ^{bc}	1.47 ^{ab}	1.54 ^a	1.31 ^{ab}	1.40 ^{ab}
	LDW (g)	2.80 ^{ab}	2.73 ^{ab}	2.54 ^{ab}	2.02 ^c	2.09 ^c	3.11 ^a	1.89 ^c	2.14 ^c
Control	SDW (g)	9.43 ^b	9.16 ^b	11.41 ^a	11.37 ^{ab}	9.36 ^b	11.85 ^a	10.32 ^{ab}	10.77 ^{ab}
	RDW (g)	2.44 ^{ab}	1.93 ^b	2.16 ^{ab}	2.80 ^{ab}	1.97 ^b	2.97 ^{ab}	3.03 ^a	2.77 ^{ab}
	LDW (g)	5.79 ^{ab}	4.97 ^b	5.43 ^{ab}	5.91 ^{ab}	4.64 ^b	5.95 ^{ab}	5.73 ^{ab}	6.57 ^a
	SLA	328.00	366.00	266.76	278.70	349.60	394.32	281.77	373.69
	TE	1.30 ^{bc}	0.88 ^c	2.20 ^b	2.14 ^b	1.04 ^c	1.49 ^{bc}	3.47 ^a	2.43 ^a
	Total TR	2.26 ^{bc}	2.40 ^{bc}	2.32 ^{bc}	2.61 ^b	2.39 ^{bc}	3.12 ^a	2.03 ^c	2.47 ^{bc}
Water stress	SDW (g)	8.52 ^{bc}	8.02 ^c	8.12 ^c	9.18 ^{ab}	8.68 ^{bc}	9.66 ^a	6.94 ^d	6.25 ^d
	RDW (g)	2.24 ^{ab}	2.11 ^{abc}	1.61 ^c	1.89 ^{bc}	2.47 ^a	2.24 ^{ab}	2.24 ^{ab}	2.40 ^{ab}
	LDW (g)	4.72 ^{ab}	4.03 ^{bc}	3.86 ^c	4.26 ^{bc}	3.93 ^c	5.15 ^a	3.60 ^c	3.88 ^c
	TE	1.23	0.90	1.20	1.66	1.79	1.55	1.68	1.36
	Total TR	1.64 ^a	1.40 ^{abc}	1.37 ^{abc}	1.55 ^{abc}	1.27 ^{bc}	1.21 ^c	1.57 ^{ab}	1.35 ^{abc}
	LER	29.24 ^d	52.78 ^{bc}	44.77 ^{cd}	35.66 ^{cd}	49.88 ^{cd}	69.69 ^{ab}	44.39 ^{cd}	87.58 ^a

Table S2. Sensitivity test for the estimation of canopy temperature by moving the threshold of temperature where pixels are considered to be part of the plant

Genotype	Estimated canopy temperature		
	Initial	Limit +1	Limit +2
867	35.81	35.99	36.11
3776	34.40	34.55	34.62
8058	32.74	32.82	32.89
4814	30.92	31.05	31.11
3325	35.82	35.93	36.02