

[10.1071/FP23202](https://doi.org/10.1071/FP23202)

Functional Plant Biology

Supplementary Material

Morpho-physiological adaptations to weed competition impair green bean (*Phaseolus vulgaris*) ability to overcome moderate salt stress

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Supplementary materials

Table S1. Soil electrical conductivity (EC) at the end of the experiment.

		EC
		ds/m
Salinity (S)		
0 mM NaCl		0.73 b
50 mM NaCl		2.08 a
Weeds (W)		
Weed-free		1.47
Weedy		1.33
Interaction		
S		***
W		ns
SxW		ns

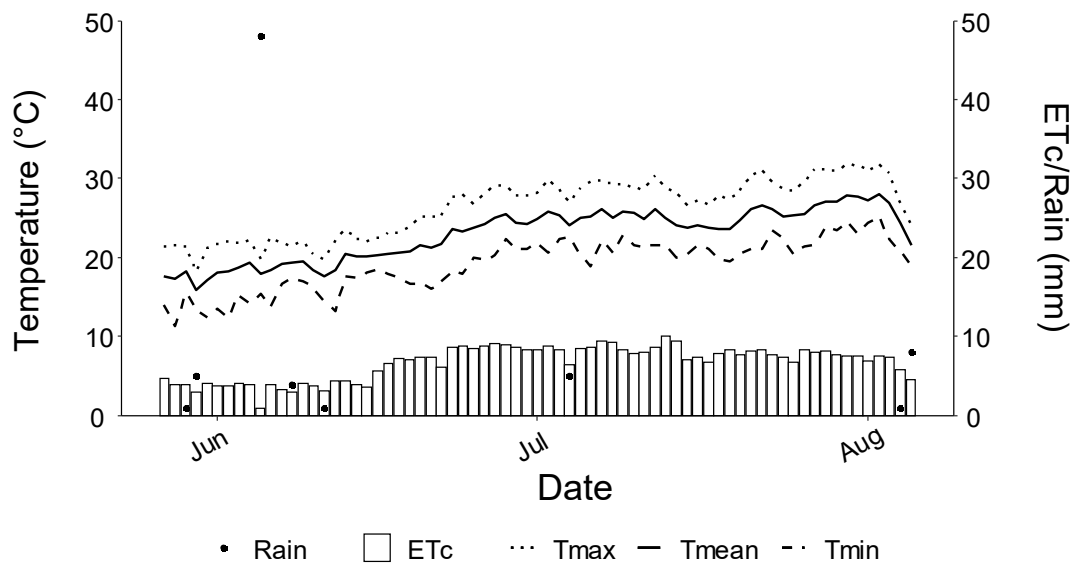


Figure S1. Daily temperatures (min, average, and max), rain and evapotranspiration during the growth cycle of green beans.

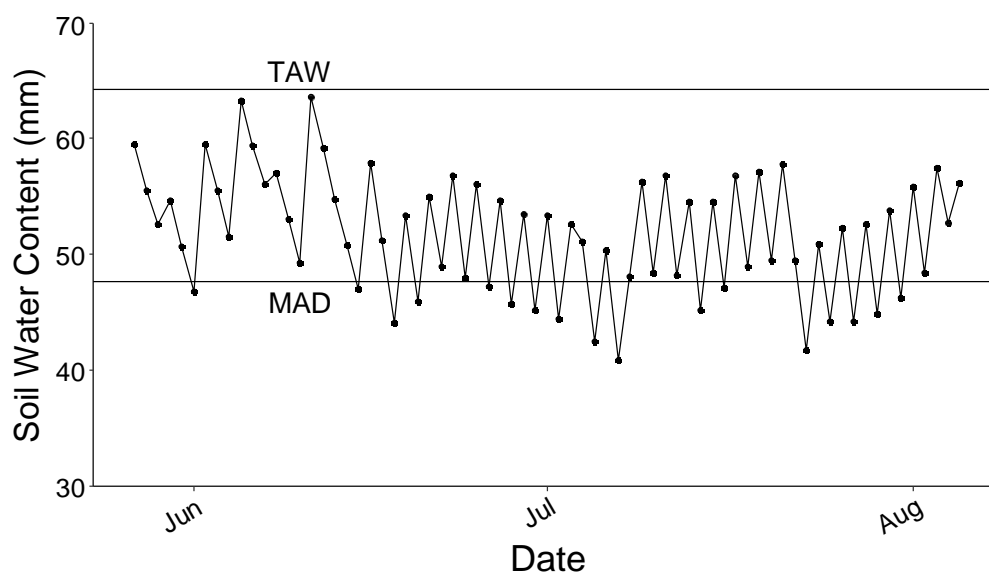


Figure S2. Soil water content during the growth cycle of green beans. TAW = total available water; MAD = management allowable depletion.

Table S2. Results of the ANOVA (F-statistics and p-value) performed on biometric and morpho-physiological parameters of green beans. Plants were subjected to weeds (weed-free vs weedy) and salinity (0 mM NaCl vs 80 mM NaCl). p-value < 0.05, n= 6

	Shoot FW		Leaf area		Yield		SD		CO ₂ assimilation		Transpiration rate		WUE	
	F	p-value	F	p-value	F	p-value	F	p-value	F	p-value	F	p-value	F	p-value
Weeds (W)	12.0	.002	2.26	.148	58.4	.000	0.003	.958	4.90	.039	2.39	.138	0.56	.462
Salinity (S)	11.3	.003	13.1	.002	32.1	.000	16.78	.001	19.1	.001	40.7	.000	4.77	.041
WxS	15.2	.001	41.0	.000	10.3	.004	19.83	.001	7.41	.013	0.82	.736	6.35	.020

Table S3. Results of the ANOVA (F-statistics and p-value) performed on ion content of green beans plants. Plants were subjected to weeds (weed-free vs weedy) and salinity (0 mM NaCl vs 80 mM NaCl). p-value < 0.05, n= 6

	NO ₃ ⁻		K ⁺		Na ⁺		Ca ²⁺		Organic acids		Na:K	
	F	p-value	F	p-value	F	p-value	F	p-value	F	p-value	F	p-value
Weeds (W)	57.4	.000	15.2	.000	73.1	.000	15.3	0.001	6.38	.020	56.6	.000
Salinity (S)	9.29	.006	3.21	.032	10.3	.004	2.55	0.126	23.5	.000	36.6	.000
WxS	5.52	.029	4.52	.046	6.68	.018	12.4	0.002	6.60	.018	20.8	.000