

Table 1. Effect of salinization of soil under field capacity and low water (10% soil moisture) treatments on leaf, stem, shoot and root characteristics of *Butea monosperma* as indicated by mean \pm SEM and slope of regression on salinity. (Significance shown against the lower mean value is for difference against the control (upper value)).

Salinity (dSm ⁻¹)	Shoot height (cm)	Root length (cm)	Leaf area (cm ² plant ⁻¹)	Leaf weight (mg plant ⁻¹)	Stem weight (mg plant ⁻¹)	Shoot weight (Leaf + Stem) (mg plant ⁻¹)	Root weight in upper soil layer (mg plant ⁻¹)	Root weight in lower soil layer (mg plant ⁻¹)	Total root weight (mg plant ⁻¹)
Field capacity									
4.1	41.8 \pm 1.0	36.2 \pm 1.7	129 \pm 2.2	874 \pm 14	688 \pm 13	1563 \pm 18	680 \pm 17	250 \pm 10	930 \pm 19
5.1	37.5 \pm 1.8	32.1 \pm 1.8	125 \pm 1.8	780 \pm 10	633 \pm 14	1414 \pm 15	618 \pm 15	234 \pm 8	852 \pm 15
6.2	33.3 \pm 1.3	28.0 \pm 1.0	119 \pm 1.9	746 \pm 12	600 \pm 8	1346 \pm 8	587 \pm 6	221 \pm 10	808 \pm 14
8.5	28.0 \pm 1.4	25.0 \pm 0.8	115 \pm 2.1	637 \pm 6	583 \pm 6	1221 \pm 20	525 \pm 14	212 \pm 7	733 \pm 16
Mean	35.2 \pm 1.4	30.3 \pm 1.3	122 \pm 2.0	759 \pm 10	626 \pm 10	1386 \pm 15	602 \pm 13	229 \pm 9	831 \pm 16
Slope*	-3.1 P = 0.01	-2.5 P = 0.01	-3.3 P = 0.01	-51.5 P = 0.01	-22.4 P = 0.01	-73.9 P = 0.01	-33.8 P = 0.01	-8.1 P = 0.05	-41.9 P = 0.01
R ²	0.44	0.34	0.30	0.92	0.65	0.90	0.47	0.11	0.50
10% Soil moisture									
4.1	36.2 \pm 1.4	33.0 \pm 1.0	120 \pm 2.0	825 \pm 8	675 \pm 6	1501 \pm 16	675 \pm 12	218 \pm 12	893 \pm 18
5.1	33.6 \pm 1.4	29.0 \pm 1.0	116 \pm 2.4	678 \pm 10	594 \pm 10	1273 \pm 15	563 \pm 11	198 \pm 9	761 \pm 14
6.2	30.0 \pm 1.3	26.0 \pm 0.9	112 \pm 1.9	644 \pm 6	573 \pm 6	1218 \pm 25	535 \pm 13	190 \pm 8	726 \pm 19
8.5	24.0 \pm 1.0	23.0 \pm 0.8	108 \pm 2.1	587 \pm 8	552 \pm 5	1139 \pm 10	499 \pm 9	179 \pm 7	678 \pm 13
Mean	31.0 \pm 1.3	27.8 \pm 0.9	114 \pm 2.1	684 \pm 8	598 \pm 7	1283 \pm 17	568 \pm 11	196 \pm 9	764 \pm 16
Slope*	-2.8 P = 0.01	-2.2 P = 0.01	-3.5 P = 0.01	-48.8 P = 0.01	-25.0 P = 0.01	-73.9 P = 0.01	-35.7 P = 0.01	-8.2 P = 0.05	-45.0 P = 0.01
R ²	0.45	0.47	0.27	0.75	0.63	0.74	0.51	0.11	0.47
LDS 0.05	2.0	1.8	3.1	20.9	7.9	25.9	19.9	14.4	25.0

*Fitted equation is $y = \text{mean} + (X - \bar{X}) \times \text{slope}$, where \bar{X} = salinity and $\bar{X} = 5.98$.