

Table 1 Suppl. Root tissue modification in the maize genotypes DKB390 (drought-tolerant) and BRS1010 (drought-sensitive) under different water treatments. Means $\pm$ SDs ($n = 36$). Means followed by the same letter in columns do not differ according to Scott-Knott test ($P < 0.05$). CT - cortex thickness, EP - epidermis thickness, ED - endodermis thickness, DV - diameter of the metaxylem vessels, X and P - xylem and phloem percentage in the vascular cylinder, respectively.

Genotype	Field capacity[%]	CT [μm]	EP [μm]	ED [μm]	DV [μm]	X [%]	P [%]
DKB390	100	267.16 $\pm$ 16.3a	16.48 $\pm$ 4.1c	09.17 $\pm$ 3.0b	76.34 $\pm$ 8.7a	83.48 $\pm$ 9.1b	10.59 $\pm$ 3.3b
	75	309.72 $\pm$ 17.6a	20.70 $\pm$ 4.5b	11.30 $\pm$ 3.4a	64.87 $\pm$ 8.1b	83.41 $\pm$ 9.1b	12.37 $\pm$ 3.5a
	50	291.02 $\pm$ 17.1b	20.71 $\pm$ 4.6b	09.19 $\pm$ 3.0b	64.25 $\pm$ 8.0b	85.19 $\pm$ 9.2a	11.07 $\pm$ 3.3b
	25	257.25 $\pm$ 16.0c	22.34 $\pm$ 4.7a	09.36 $\pm$ 3.1b	59.95 $\pm$ 7.7b	81.67 $\pm$ 9.0c	10.63 $\pm$ 3.2b
BRS1010	100	370.97 $\pm$ 19.3a	20.93 $\pm$ 4.6b	13.05 $\pm$ 3.6a	72.20 $\pm$ 8.5a	81.15 $\pm$ 9.0b	11.33 $\pm$ 3.4a
	75	319.06 $\pm$ 17.9b	20.99 $\pm$ 5.9b	10.76 $\pm$ 3.3b	62.33 $\pm$ 7.9b	81.14 $\pm$ 9.0b	11.75 $\pm$ 3.4a
	50	304.07 $\pm$ 17.4b	21.66 $\pm$ 4.7b	10.36 $\pm$ 3.2b	56.97 $\pm$ 7.5c	82.96 $\pm$ 9.1a	11.73 $\pm$ 3.4a
	25	310.55 $\pm$ 17.6b	24.66 $\pm$ 5.0a	10.27 $\pm$ 3.2b	53.21 $\pm$ 7.3d	78.85 $\pm$ 8.9c	10.44 $\pm$ 3.2a

Table 2 Suppl. Root tissue modification in the maize genotypes DKB390 (drought-tolerant) and BRS1010 (drought-sensitive) under different phosphorus concentrations. Means $\pm$ SDs ($n = 36$). Means followed by the same letter in columns do not differ according to Scott-Knott test ($P < 0.05$). CT - cortex thickness, EP - epidermis thickness, ED - endodermis thickness, DV - diameter of the metaxylem vessels, X and P - xylem and phloem percentage in the vascular cylinder, respectively.

Genotype	Phosphorus [mM]	CT [μm]	EP [μm]	ED [μm]	DV [μm]	X [%]	P [%]
DKB390	0.1	312.68 $\pm$ 17.7a	21.85 $\pm$ 4.7a	09.77 $\pm$ 3.1b	66.42 $\pm$ 8.1a	81.86 $\pm$ 9.0c	11.22 $\pm$ 3.3a
	0.4	242.50 $\pm$ 15.6c	18.13 $\pm$ 4.3c	08.77 $\pm$ 3.0c	66.73 $\pm$ 8.2a	83.31 $\pm$ 9.1b	11.19 $\pm$ 3.3a
	0.8	288.68 $\pm$ 17.0b	20.20 $\pm$ 4.5b	10.71 $\pm$ 3.3a	65.91 $\pm$ 8.1a	85.14 $\pm$ 9.2a	11.08 $\pm$ 3.3a
BRS1010	0.1	312.10 $\pm$ 17.7b	21.12 $\pm$ 4.6b	10.60 $\pm$ 3.3b	58.91 $\pm$ 7.7b	76.92 $\pm$ 8.8c	15.11 $\pm$ 3.9a
	0.4	329.22 $\pm$ 18.1a	22.29 $\pm$ 4.7a	11.73 $\pm$ 3.4a	61.76 $\pm$ 7.9a	82.03 $\pm$ 9.1b	09.39 $\pm$ 3.1b
	0.8	338.16 $\pm$ 18.4a	22.76 $\pm$ 4.8a	11.01 $\pm$ 3.3b	63.01 $\pm$ 7.9a	84.08 $\pm$ 9.2a	09.44 $\pm$ 3.1b