

TABLE S1. Genotypic mean values of root weight density (RWD, g m⁻³) and soil water content (Θ , cm³ cm⁻³) studied under different water regimes in the 2016 trials.

Trait	Mean (HSD-Tukey)										Mean	
	WW					WL					WW	WL
	Pantera-INIA	QUP2569	FONTAGRO98	QUP2529	FONTAGRO8	Pantera-INIA	QUP2569	FONTAGRO98	QUP2529	FONTAGRO8		
RWD1	252.69 ab	426.97 c	322.55 b	277.01 ab	191.78 a	200.01 a	312.06 b	246.18 a	307.65 b	199.98 a	294.20	253.18
RWD2	101.78 a	186.73 b	122.42 a	106.95 a	125.36 a	97.40	136.00	107.11	109.45	112.63	128.65	112.52
RWD3	69.93 a	175.85 b	131.24 ab	109.20 a	112.88 ab	104.08 ab	159.84 b	95.61 a	115.61 ab	102.39 ab	119.82	115.51
RWD4	85.37 ab	146.81 b	115.22 ab	119.83 ab	81.30 a	86.27	138.75	87.94	108.49	77.30	109.71	99.75
RWD5	34.82 a	104.74 b	72.73 ab	76.45 b	33.51 a	76.80	81.87	65.92	87.86	56.35	64.45	73.76
RWD6	19.35 ab	58.74 c	35.22 abc	45.69 bc	18.58 a	37.58	44.99	53.64	59.31	42.62	35.52	47.63
RWD7	10.15 a	29.25 b	16.82 ab	29.73 b	11.39 a	9.81	21.89	29.64	37.62	24.45	19.47	24.68
RWD8	4.89	10.53	6.94	11.16	4.17	7.74	5.13	11.47	14.05	6.67	7.54	9.01
Θ 1	0.07	0.11	0.08	0.14	0.06	0.04	0.03	0.03	0.04	0.07	0.09	0.04
Θ 2	0.10 a	0.12 ab	0.11 a	0.16 ab	0.18 b	0.04	0.04	0.04	0.05	0.06	0.14	0.05
Θ 3	0.19	0.15	0.14	0.16	0.25	0.05	0.04	0.05	0.04	0.07	0.18	0.05
Θ 4	0.21	0.18	0.20	0.17	0.24	0.08 ab	0.05 a	0.07 ab	0.05 a	0.09 b	0.20	0.07
Θ 5	0.24	0.23	0.23	0.23	0.26	0.11	0.09	0.10	0.05	0.13	0.24	0.10
Θ 6	0.26 ab	0.26 ab	0.25 a	0.26 ab	0.28 b	0.17 b	0.13 ab	0.14 ab	0.08 a	0.19 b	0.26	0.14
Θ 7	0.26	0.27	0.28	0.26	0.31	0.23 b	0.16 ab	0.16 ab	0.09 a	0.16 ab	0.28	0.16
Θ 8	0.18	0.13	0.17	0.11	0.14	0.11 ab	0.08 ab	0.09 ab	0.04 a	0.12 b	0.15	0.09

The number following the acronym of the trait refers to the soil column depth where the trait was measured: 1 refers to 0-20 cm; 2 refers to 20-40 cm; 3 refers to 40-60 cm; 4 refers to 60-80 cm; 5 refers to 80-100 cm; 6 refers to 100-120 cm; 7 refers to 120-140 cm; and 8 refers to 140-160 cm. Genotypes means followed by different letters were significantly different ($P \leq 0.05$) by Tukey's HSD test. WW, well-watered plants; and WL, water-limited plants. For the WW and WL genotypes means, bold numbers represent significant differences according to the ANOVA analysis.