

TABLE S2. 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 2017 trials.

Trait	Mean (HSD-Tukey)										Mean	
	WW					WL					WW	WS
	Pantera-INIA	QUP2569	FONTAGRO98	QUP2529	FONTAGRO8	Pantera-INIA	QUP2569	FONTAGRO98	QUP2529	FONTAGRO8		
RWD1	161.71 a	351.94 c	226.56 b	240.27 b	185.01 a	118.45	207.32	200.20	197.02	214.07	233.10	187.41
RWD2	75.13 a	146.05 b	99.12 ab	115.91 ab	110.42 ab	73.50 a	118.53 b	90.74 ab	89.08 ab	104.62 ab	109.33	95.29
RWD3	77.36	138.83	92.50	111.52	128.82	61.35	92.36	80.49	68.85	101.64	109.81	80.94
RWD4	84.80	142.51	92.07	91.40	91.76	62.52	94.46	70.27	54.30	103.83	100.51	77.08
RWD5	64.03	101.62	83.51	100.62	101.45	53.36	116.39	76.34	94.71	94.57	90.25	87.08
RWD6	80.56	96.11	60.16	76.63	72.00	51.36	111.27	82.30	97.68	92.34	77.09	86.99
RWD7	34.12	91.60	60.46	43.41	80.22	26.84 a	75.49 ab	72.22 ab	77.70 ab	112.09 b	61.96	72.87
RWD8	39.29 a	69.23 ab	59.02 ab	84.17 b	47.22 a	16.45	57.45	56.43	60.79	38.67	59.79	45.96
Θ 1	0.08	0.07	0.08	0.06	0.06	0.06	0.07	0.04	0.03	0.02	0.07	0.05
Θ 2	0.10 b	0.06 a	0.08 ab	0.07 a	0.08 ab	0.07	0.04	0.04	0.05	0.05	0.08	0.05
Θ 3	0.12	0.06	0.08	0.09	0.10	0.09	0.06	0.06	0.06	0.06	0.09	0.07
Θ 4	0.11	0.10	0.11	0.14	0.12	0.10	0.08	0.06	0.08	0.08	0.12	0.08
Θ 5	0.13	0.12	0.13	0.14	0.15	0.14	0.06	0.08	0.09	0.09	0.13	0.09
Θ 6	0.21	0.15	0.13	0.17	0.19	0.17 b	0.05 a	0.08 a	0.11 ab	0.09 a	0.17	0.10
Θ 7	0.24	0.20	0.19	0.21	0.20	0.21 b	0.07 a	0.10 ab	0.12 ab	0.14 ab	0.21	0.13
Θ 8	0.19 b	0.21 b	0.20 b	0.23 b	0.11 a	0.10	0.05	0.09	0.10	0.05	0.19	0.08

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.