

Supplementary Information (SI)

Title: Photosynthetic machinery efficiency and water status are determinant for performance of semiarid-adapted cotton cultivars (*Gossypium hirsutum* L.) under drought

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Table of contents

Table S1. Soil analysis results collected from the 0-20 cm layer for filling the pots.....02

Table S2. Cotton cultivars grown in agricultural areas of the Brazilian cerrado and semi-arid regions.....02

Table S1. Soil analysis results collected from the 0-20 cm layer for filling the pots

pH	H+Al	Al	Ca	Mg	K	SB	T	P	K	S
H ₂ O				Cmol dm ⁻³				Mg dm ⁻³		
5,15	1,30	0,50	2,85	0,89	0,15	3,90	5,21	31,9	58	-
Micronutrientes										
B	Cu	Mn	Fe	Zn	V	m	M.O	Argila	Sílte	Areia
Mg dm ⁻³				%				g kg ⁻¹		
0,5	1,08	19,66	94	2,38	75,0	11,4	6,84	182	24	793

Table S2. Cotton cultivars grown in agricultural areas of the Brazilian cerrado and semi-arid regions

Cotton cultivars	Applicant	NCR Number	Registration date	Genetically modified event	Detailed adaptation region
FM 911 GLTP	BASF S/A	43554	31/12/19	1	BA
FM 912 GLTP RM	BASF S/A	44124	25/03/20	1	BA; CE; DF; GO; MA; MG; MS; MT; PB; PE; PI; PR; RN; RO; RR; SP; TO.
FM 970 GLTP RM	BASF S/A	44099	25/03/20	1	BA; CE; DF; GO; MA; MG; MS; MT; PB; PE; PI; PR; RN; RO; RR; SP; TO.
FM 974 GLT	BASF S/A	43543	31/12/19	2	BA
FM 978 GLTP RM	BASF S/A	45753	09/10/20	1	BA; CE; DF; GO; MA; MG; MS; MT; PB; PE; PI; PR; RN; RO; RR; SP; TO.
FM 985 GLTP	BASF S/A	36864	06/06/17	2	BA; CE; DF; GO; MA; MG; MS; MT; PB; PE; PI; PR; RN; RO; RR; SP; TO.

Source: National Cultivar Registry of the Ministry of Agriculture, Livestock, and Supply.

1- GHB614, T304-40, GHB119, COT102: Genetically modified cotton tolerant to glyphosate and ammonium glufosinate herbicides, and resistant to lepidopteran insects (GlyTol x TwinLink x COT102 Cotton).

2- GHB 614, T304-40, and GHB119: Genetically modified cotton tolerant to glyphosate and ammonium glufosinate herbicides.