

10.1071/CP18318\_AC

© CSIRO 2019

**Supplementary Material:** *Crop & Pasture Science*, 2019, **70**, 615–621.

**Adaptability of cotton (*Gossypium hirsutum*) genotypes analysed using a Bayesian AMMI model**

*Paulo Eduardo Teodoro<sup>A</sup>, Camila Ferreira Azevedo<sup>B</sup>, Francisco José Correia Farias<sup>C</sup>, Rodrigo Silva Alves<sup>B</sup>, Leonardo de Azevedo Peixoto<sup>B</sup>, Larissa Pereira Ribeiro<sup>B,D</sup>, Luiz Paulo de Carvalho<sup>C</sup> and Leonardo Lopes Bhering<sup>B</sup>*

<sup>A</sup>Federal University of Mato Grosso do Sul (UFMS/CPCS), 79560-000 Chapadão do Sul, MS, Brazil.

<sup>B</sup>Federal University of Viçosa (UFV), 36570-900 Viçosa, MG, Brazil.

<sup>C</sup>National Cotton Research Center, Embrapa Cotton (Embrapa - CNPA), 58428-095 Campina Grande, PB, Brazil.

<sup>D</sup>Corresponding author. Email: [larissa.uems@gmail.com](mailto:larissa.uems@gmail.com)

## Supplementary tables

**Table S1. Posteriori mean, standard deviation (Sd) and lower (LL) and upper (UL) limits of the credibility regions at 95% credibility for genotypic ( $\hat{\sigma}_g^2$ ) and environmental ( $\hat{\sigma}_e^2$ ) variances**

Estimate	Mean	Sd	LL	UL
Fiber yield				
$\hat{\sigma}_g^2$	0.0692	0.0048	0.0597	0.0783
$\hat{\sigma}_e^2$	0.0228	0.0107	0.0080	0.0446
Fiber length				
$\hat{\sigma}_g^2$	0.5838	0.0433	0.5021	0.6701
$\hat{\sigma}_e^2$	0.2219	0.1012	0.0760	0.4163
Fiber strength				
$\hat{\sigma}_g^2$	2.8675	0.1910	2.5109	3.2461
$\hat{\sigma}_e^2$	0.3702	0.2001	0.0782	0.7478

**Table S2. Posteriori mean, standard deviation (Sd) and lower (LL) and upper (UL) limits of the credibility regions at 95% credibility for singular values**

Estimate	Mean	Sd	LL	UL
<b>Fiber yield</b>				
$\hat{\lambda}_1$	1.0471	0.1475	0.7589	1.3334
$\hat{\lambda}_2$	0.1447	0.2000	0.0000	0.5809
$\hat{\lambda}_3$	0.0162	0.0470	0.0000	0.0964
$\hat{\lambda}_4$	0.0020	0.0091	0.0000	0.0073
$\hat{\lambda}_5$	4.0E-4	0.0015	0.0000	0.0014
$\hat{\lambda}_6$	1.0E-4	4.0E-4	0.0000	5.0E-4
$\hat{\lambda}_7$	1.0E-4	1.0E-4	0.0000	2.0E-4
<b>Fiber length</b>				
$\hat{\lambda}_1$	1.3478	0.9400	0.0000	2.6339
$\hat{\lambda}_2$	0.1927	0.3987	0.0000	1.2067
$\hat{\lambda}_3$	0.0163	0.0734	0.0000	0.0739
$\hat{\lambda}_4$	0.0017	0.0107	0.0000	0.005
$\hat{\lambda}_5$	3.0E-4	0.0013	0.0000	0.0011
$\hat{\lambda}_6$	1.0E-4	3.0E-4	0.0000	4.0E-4
$\hat{\lambda}_7$	0.0000	1.0E-4	0.0000	2.0E-4
<b>Fiber strength</b>				
$\hat{\lambda}_1$	0.6592	1.0888	0.0000	3.2399
$\hat{\lambda}_2$	0.0499	0.2006	0.0000	0.2312
$\hat{\lambda}_3$	0.0040	0.0309	0.0000	0.0115
$\hat{\lambda}_4$	6.0E-4	0.0035	0.0000	0.0018
$\hat{\lambda}_5$	2.0E-4	6.0E-4	0.0000	6.0E-4
$\hat{\lambda}_6$	1.0E-4	2.0E-4	0.0000	3.0E-4
$\hat{\lambda}_7$	0.0000	1.0E-4	0.0000	1.0E-4