

Introdução



- The management of non-lepidopteran pests remains a requirement for the sustainable deployment of Bt-cotton.
- Varieties of Bt cotton provide highly effective and selective control of major lepidopteran pests.
- * However, these varieties may have a differential impact on cotton aphid, Aphis gossypii Glover (Homoptera: Aphididae), one of the most important non-lepidopteran pests in cotton.
- Field studies about the impact of the Bt cotton on the biological performance of A. gossypii can contribute to the development of appropriate management strategies.

Introdução

- Hypothesis
 - ✓ Bt cotton does not affect the natural mortality of *A. gossypii*.
- Objective
 - \checkmark Evaluate the impact of Bt cotton Cry1Ac and RR on the biological performance of A. gossypii.



Material & methods

- ❖ Field experiment
 - ✓ UFV Experimental Station
 - ✓ Growing season 2012-2013



- Experimental design
 - ✓ RCBD, 12 replications
 - ✓ Treatments: NUOPAL (Bt) and FM910 (non-Bt)



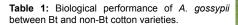


Material & methods

- Evaluation
 - ✓ A. gossypii and its mortality
 - ✓ Reproduction
 - ✓ Development
- Data analysis
 - ✓ Anova



Results





Biological parameters of A. gossypii	F _{1;22}	P < 0,05
Mortality of adults (%)	0.91	0.226
Total nymphal instar (%)	0.07	0.798
Nymphs produced / female	1.56	0.226
Winged produced	1.08	0.301
Duration of life cycle	0.23	0.633
Longevity of adults	1.73	0.202

Conclusions



- The performance of A. gossypii on both Bt and non-Bt cotton was similar.
- Therefore, the management of A. gossypii must be similar in both Bt and non-Bt transgenic cotton.

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