

Table S3. The output of the generalized linear mixed model (GLMM) with Poisson distribution, comparing the average number of ARM among states and cultivars.

Fixed effects	X ²	D.F.	p-value	
States	7.46	2	0.02	
Cultivars	9.02	2	0.01	
	Estimate	Std. Error	z-value	p-value
Rio Grande do Sul – Paraná == 0	-1.720	0.572	-3.008	0.007
Santa Catarina – Paraná == 0	-0.871	0.494	-1.761	0.156
Santa Catarina – Rio Grande do Sul == 0	0.849	0.495	1.714	0.156
	Estimate	Std. Error	z-value	p-value
Fuji – Eva == 0	0.873	0.625	1.397	0.325
Gala – Eva == 0	-0.141	0.622	-0.228	0.820
Gala – Fuji == 0	-1.015	0.380	-2.666	0.023
Random effect	Variance	Std. Dev.	N	
Sampling locations	1.949	1.396	66	
Municipalities	0.00	0.00	17	
Model selection	AICc ¹	dAICc ²	Df ³	Weight ⁴
GLMM Poisson	-249.6	0.0	7	0.78
GLMM negative binomial	-249.6	2.5	8	0.22

ARM – Apple Rust Mites. *Std. Error*: Standard Error; *z-value*: Standard score, i.e. standard deviations from their means. Negative values when raw score is below the mean, positive when above; *p-value*: probability to find z-scores by chance. ¹ - computation of AIC; ² - differences among AICs; ³ - degree of freedom; ⁴ - weight of AICs