

Herbivory form	Response Variable		Spatial autocorrelation	Model			Result (anova)	Observations
	Analysis level	Herbivory level	Moran's <i>I</i>	Predictor	Random factors	Selected error distribution		
Chewing	Stem	Incidence	Non-sig (p= 0.6326)	~ Forest disturbance class (4-level categorical variable)	Site	Binomial (glmer)	Non-sig	We modeled the number of chewing-inflicted units in the total number of leaf blades sampled in that stem (chewing incidence) and the proportion of chewing inflicted area in damaged leaves (chewing severity) in that stem as a function of plot forest class. The final model contained site, plant family and species as random factors. Due to overdispersion we also added stem id as an observation level random factor (ORLE).
					Species			
		Family						
	Stem id (OLRE)	Tweedie (glmmTMB)	Significant (p≤ 0.01)					
	Site							
	Species							
Plot	Severity	Non-sig (p= 0.7515)	Family	Gaussian	Non-sig			
			Stem id (OLRE)					
Mining	Stem	Incidence	Non-sig (p= 0.9139)	Site	Binomial (glmer)	Non-sig	As for chewing levels, we modeled mining incidence and severity as a function of plot forest class, with site, plant family and species as random factors. To deal with overdispersion we also added stem id as an observation level random factor (ORLE).	
				Species				
		Family						
	Stem id (OLRE)	Tweedie (glmmTMB)	Non-sig					
	Site							
	Species							
Plot	Severity	Non-sig (p= 0.4301)	Family	Gaussian	Non-sig			
			Stem id (OLRE)					
Galling	Stem	Incidence	Non-sig (p= 0.6558)	-	Gaussian	Non-sig	Regular linear model containing plot-level weighted mining severity as a function of forest class.	
				Severity				
		Plot	Non-sig (p= 0.8803)	-				
	Stem	Incidence	Non-sig (p= 0.9769)	Site	Binomial (glmer)	Non-sig		As for chewing and mining, we modeled galling incidence and severity as a function of plot forest class, with site, plant family, species and stem id as random factors.
				Species				
		Family						
Plot	Severity	Non-sig (p= 0.5133)	Stem id (OLRE)	Tweedie (glmmTMB)	Non-sig			
			Site					
Plot	Incidence	Non-sig (p= 0.07187)	-	Gaussian	Non-sig			
			Severity			Non-sig (p= 0.1116)	-	