

**Evaluating Changes in Morphophysiological Traits of Plant Communities Over Time Post
Abandonment of mining in the coal region of Brazil**

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SUPPLEMENTARY MATERIAL

Supplementary material 2 Variables tested and final results of the analyses were Pearson's chi-square test for sample sizes greater than 10 and Fisher's test for sample sizes less than 10. It was analyzed whether the values of each category varied significantly from each other within each period.

Period (years)	Variables	Chi-squared test (Pearson/*Fisher)		
		p-value	X-squared	df
From 3 to 10	Origin ("Native", "Exotic")	< 2.2e-16	185.94	1
	Root ("Pivot", "Fasciculated")	8.811e-06	19.753	1
	*Life form ("Herb", "Shrub", "Tree", "Sub-shrub", "Liana")	4< 2.2e-16	355.73	4
	Photosynthetc mechanism ("C3", "C4")	< 2.2e-16	128.31	1
	Life cycle ("Perennial", "Annual")	< 2.2e-16	68.504	1
	*Pollination ("Entomophilia", "Anemophily", "Various", "Zoophilya", "Autophilya")	< 2.2e-16	151.27	4
	*Seed dispersal ("Anemochory", "Zoochory", "Autochory")	7.549e-13	59.492	3
From 11 to 25	Origin ("Native", "Exotic")	< 2.2e-16	135.67	1
	Root ("Pivot", "Fasciculated")	2.128e-09	35.852	1
	*Life form ("Herb", "Shrub", "Tree", "Sub-shrub", "Liana")	< 2.2e-16	82.055	4
	Photosynthetc mechanism ("C3", "C4", "CAM")	< 2.2e-16	219.83	2
	Life cycle ("Perennial", "Annual")			

	*Pollination ("Entomophilia", "Anemophily", "Various", "Zoophilya", "Autophilya")	< 2.2e-16	107.56	2
	*Seed dispersal ("Anemochory", "Zoochory", "Autochory")	7.878e-12	57.934	4
From 26 to 40	Origin ("Native", "Exotic")	< 2.2e-16	84.346	1
	Root ("Pivot", "Fasciculated")	3.58e-08	30.364	1
	*Life form ("Herb", "Shrub", "Tree", "Sub-shrub", "Liana")	3.07e-13	64.636	4
	Photosynthetc mechanism ("C3", "C4")	< 2.2e-16	81.66	1
	Life cycle ("Perennial", "Annual")	6.072e-14	56.348	1
	*Pollination ("Entomophilia", "Anemophily", "Various", "Zoophilya", "Autophilya")	1.864e-05	24.609	3
	*Seed dispersal ("Anemochory", "Zoochory", "Autochory")	< 2.2e-16	93.707	3