

Supplementary Information

The composition of the soil seedbank and its role in ecosystem dynamics and rehabilitation potential in the arid Tankwa Karoo Region, South Africa

Manam WB Saaed, Shayne M Jacobs, Mmoto L Masubelele, Igshaan Samuels, Lesego Khomo and Yacoub M El-Barasi

African Journal of Range & Forage Science 2018, 35(3&4): 351–361.

<https://doi.org/10.2989/10220119.2018.1526824>

Appendix S1: Correlation coefficients between the different soil seedbank characteristics and the first 14 PCOs

	Species richness	Shannon index	Evenness	Therophytes	Chamaephytes	Cryptophytes	Nano-phanerophytes	Seed density	Seed viability
PCO1 (30.3% of total variation)	0.299172173	0.515403201	0.460283902	0.066296674	-0.219126364	0.502188115	0.29264959	-0.049531863	-0.53654485
PCO2 (23.2% of total variation)	0.730956124	0.584566596	0.109181516	0.652622041	-0.463246121	0.238209756	0.341196601	0.376623377	0.510268801
PCO3 (10.7% of total variation)	0.254463059	0.077771066	-0.157505285	-0.457885001	0.682447994	0.288848057	0.11384616	0.552250076	0.244941105
PCO4 (9.3% of total variation)	0.320541613	-0.064784053	-0.518121413	0.589874278	-0.536112055	0.166597012	0.362222243	0.49154334	0.302023558
PCO5 (7.6% of total variation)	-0.273256042	0.022651767	0.398671096	-0.251217579	0.178729188	-0.125846664	0.441709428	-0.650407732	0.163696768
PCO6 (5.8% of total variation)	0.187854057	0.077167019	0.106312292	-0.159323442	-0.057386643	0.476719147	-0.067521371	-0.21564482	-0.153881003
PCO7 (3.6% of total variation)	0.151859431	-0.060857747	-0.382059801	0.09468796	0.098010345	-0.301732358	0.306666685	0.295832075	-0.364542434
PCO8 (2.8% of total variation)	-0.229001597	-0.080791302	0.08909695	0.168006947	-0.053384679	-0.050937935	-0.070085474	-0.017064331	0.228027786
PCO9 (2.5% of total variation)	-0.303567306	-0.202506796	0.02627605	-0.084720806	-0.186959641	0.195661599	0.161880351	0.076109937	-0.037752945
PCO10 (1.9% of total variation)	-0.035236844	-0.156448203	-0.104953186	0.18937592	0.05572545	0.200755392	-0.095213681	-0.06115977	-0.107671398
PCO11 (0.9% of total variation)	0.049558916	-0.050739958	-0.081546361	0.0958961	0.166421263	0.008689412	-0.040512823	0.015705225	0.004530353
PCO12 (0.8% of total variation)	0.09138846	0.123225612	0.100875868	-0.055347907	-0.054290784	-0.114160902	-0.018290599	-0.091513138	0.064028994
PCO13 (0.5% of total variation)	-0.020914772	-0.112805799	-0.02461492	0.115226338	0.096047118	0.053934284	0.102393168	-0.030806403	-0.008607671
PCO14 (0.1% of total variation)	-0.09305558	0.129115071	-0.014799154	0.001585684	-0.081775966	0.080601792	-0.053846157	0.057384476	-0.041679251