



Non-parametric analysis of pairwise dissimilarities (PERMANOVA results)

Source of variance	Df	SS	MS	F	R ²	P
Crop	1	0.15	0.15	7.22	0.03	0.001
Residuals	238	4.82	0.02		0.97	
Total	239	4.97			1	

Source of variance	Df	SS	MS	F	R ²	P
Soil Type (ST)	3	2.3	0.7	67.3	0.43	0.001
Habitat Type (HT)	1	0.1	0.1	8.2	0.02	0.001
Growth Stage (GS)	2	0.1	0.1	4.2	0.02	0.001
STxHT	3	0.1	0.2	1.7	0.01	0.059
STxGS	6	0.1	0.1	1.8	0.02	0.065
HTxGS	2	0.1	0.1	1.4	0.02	0.676
STxHTxGS	6	0.1	0.01	0.7	0.01	0.392
Residuals	216	2.7	0.01		0.47	
Total	239	5.3			1	

Crop was considered a random factor.

Abbreviations: Df, degrees of freedom; F, F-test statistic; MS, mean squares; P, proportion of randomization trials with more extreme values of F; R, variation explained; SS, sums of squares.

Supplementary data Fig. S6. PCoA of post-planting soil bacterial communities, using weighted UniFrac distances, and PERMANOVA tables. LB, Limpopo black; LR, Limpopo red; FN, Free State new; FO, Free State old. So, sorghum; Su, sunflower.