

Supplementary data

Table S1. Results of the General Linear Mixed-Effects Models for understory percent cover and diversity, and ground-dwelling arthropod catches as affected by mounding treatment. Values in bold type indicate significance ($\alpha = 0.05$).

Response variable	Variance structure	F	num. df	den. df	P value	Contrasts	P value
Bryophyte cover	Treatment and Site	1947.2	3	12	<0.001	Reference - Untreated	0.400
						Reference - Top	<0.001
						Reference - Ground	<0.001
						Untreated - Top	<0.001
						Untreated - Ground	<0.001
						Top - Ground	<0.001
Forb cover	Treatment and Site	2.4	3	12	0.12	-	-
Graminoid cover	Site	6.2	3	12	0.009	Reference - Untreated	0.402
						Reference - Top	0.999
						Reference - Ground	0.010
						Untreated - Top	0.675
						Untreated - Ground	0.268
						Top - Ground	0.024
Shrub cover	Treatment and Site	5.8	3	12	0.011	Reference - Untreated	1.000
						Reference - Top	0.010
						Reference - Ground	0.386
						Untreated - Top	0.067
						Untreated - Ground	0.612
						Top - Ground	0.380
Understory cover	Treatment and Site	118.6	3	12	<0.001	Reference - Untreated	0.675
						Reference - Top	<0.001
						Reference - Ground	0.991
						Untreated - Top	<0.001
						Untreated - Ground	0.734
						Top - Ground	<0.001
Vascular plant richness	Site	25.3	3	12	<0.001	Reference - Untreated	<0.001
						Reference - Top	0.082
						Reference - Ground	0.066
						Untreated - Top	<0.001
						Untreated - Ground	0.826
						Top - Ground	0.001
	Site	4.3	3	12	0.027	Reference - Untreated	1.000

Response variable	Variance structure	<i>F</i>	num. df	den. df	<i>P</i> value	Contrasts	<i>P</i> value
Vascular plant diversity (exponential of Shannon's)						Reference - Top	0.130
						Reference - Ground	0.259
						Untreated - Top	0.172
						Untreated - Ground	0.310
						Top - Ground	0.017
Spider catch	None	6.1	2	8	0.025		
Rove beetle catch	Treatment	20.4	2	8	< 0.001	Untreated - Mounded	0.134
						Untreated - Reference	0.720
						Mounded - Reference	0.020
						Untreated - Mounded	0.198
						Untreated - Reference	0.699
Ant catch	None	4.7	2	8	0.045	Mounded - Reference	0.001
						Untreated - Mounded	0.052
						Untreated - Reference	0.054
						Mounded - Reference	0.504
Ground beetle catch	None	1.8	2	8	0.222	-	-