

Supplementary Material:

Figure S1. Overlapping representation of exclusive and shared vascular plant species among treatments in pre- (t_0) and post-burn (t_4) times. The numbers displayed in the diagrams correspond to species richness, considering: (a) total species, and (b) palatable species. NG = non-grazed, LS = low stocking rate, HS = high stocking rate.

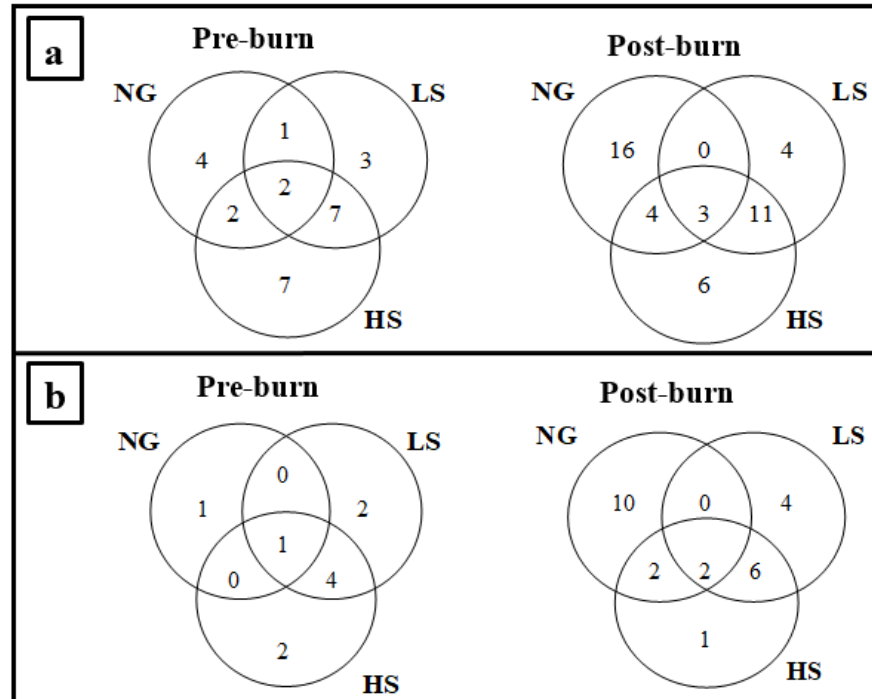


Table S1. Species list of vascular plants classified by life-form (graminoid, fern, forb and shrub) and taxonomic group (dicots, monocots and pteridophyta), showing code, origin (N = native, E = exotic), life-cycle (P = perennial, A = annual), palatability (NR = no-reported, L = low, M = middle, H = High) and presence in plots for the studied treatments (NG = non-grazed, LS = low stocking rate, HS = high stocking rate) in pre- (t_0), and post-burn (t_1 , t_2 , t_3 , t_4) times.

[illegible]

Table S1 (continued).

Life-form	CODE	Species	Origin	Life-cycle	Palatability	Presence														
						NG					LS					HS				
						t0	t1	t2	t3	t4	t0	t1	t2	t3	t4	t0	t1	t2	t3	t4
	PANO	<i>Paspalum notatum</i> Flügge	N	P	H				x	x										
	PAPA	<i>Paspalum parviflorum</i> Rohde	N	P	NR											x	x	x	x	
	PAPE	<i>Paspalum pectinatum</i> Nees	N	P	H						x		x	x						
	PAPL	<i>Paspalum plicatulum</i> Michx.	N	P	H				x	x										
	PAPR	<i>Paratheria prostrata</i> Griseb	N	A	H			x	x	x										
	PAVE	<i>Panicum versicolor</i> Doell	N	P	M	x	x	x	x											
	REAC	<i>Reimarochloa acuta</i> (Flüggé) Hitchc.	N	P	M			x	x	x										
	RHBA	<i>Rhynchospora barbata</i> (Vahl) Kunth	N	P	NR											x				
	RHGL	<i>Rhynchospora globosa</i> (Kunth) Roem. & Schult.	N	P	NR											x		x	x	
	RHYN	<i>Rhynchospora</i> sp.	N	P	NR											x				
	SOSE	<i>Sorghastrum setosum</i> (Griseb.) Hitchc.	N	P	M						x	x	x	x	x					
	SPJA	<i>Sporobolus jacquemontii</i> Kunth	N	P	M			x	x	x										
	TRPL	<i>Trachypogon plumosus</i> Nees	N	P	NR											x	x	x	x	
	TRVE	<i>Trachypogon vestitus</i> Andersson	N	P	L						x	x	x	x		x	x	x	x	
Ferns (Pteridophyta)	ADOB	<i>Adiantum obliquum</i> Willd.	N	P	NR			x	x	x										
Forbs (Dicots)	BOCA	<i>Borreria capitata</i> (Ruiz & Pav.) DC.	N	P	NR												x	x	x	
	CACE	<i>Calopogonium caeruleum</i> (Benth.) C. Wright	N	P	M			x	x	x						x	x	x	x	

Table S1 (continued).

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Table S2. Height (cm) of dominant species (>50% cover) for different treatments (NG = non-grazed, LS = low stocking rate, HS = high stocking rate) in pre- (*t*0) and post-burn (*t*1, *t*2, *t*3, *t*4) times.

Treatments	Species	<i>t</i> 0	<i>t</i> 1	<i>t</i> 2	<i>t</i> 3	<i>t</i> 4
NG	<i>Andropogon bicornis</i>	106	35	41	58	85
	<i>Bulbostylis junciformis</i>	11				
	<i>Clidemia rubra</i>	56				
	<i>Imperata brasiliensis</i>	69	29	40	49	66
	<i>Panicum laxum</i>		24	28	35	46
	<i>Panicum versicolor</i>		27	36	43	60
LS	<i>Andropogon bicornis</i>	84	27	32	40	54
	<i>Andropogon leucostachyus</i>	62	25	28	34	45
	<i>Axonopus purpusii</i>	39	17	20	24	28
	<i>Panicum laxum</i>	64	20	28	42	48
HS						
	<i>Andropogon bicornis</i>	68	20	26	30	35
	<i>Andropogon leucostachyus</i>	46	19	26	33	40
	<i>Axonopus purpusii</i>	42	13	20	26	32
	<i>Panicum laxum</i>	68				
	<i>Trachypogon vestitus</i>		12	17	22	27

Table S3. Multi-Response Permutation Procedures (MRPP) results evaluating differences among grazing treatments (NG = non-grazed, LS = low stocking rate, HS = high stocking rate) in pre- (t_0) and post-burn (t_4) times.

Group comparison	<i>T</i>	<i>A</i>	<i>P</i>
NG (t_0) vs. LS (t_0)	-5.882	0.703	0.002
NG (t_0) vs. HS (t_0)	-5.873	0.676	0.002
LS (t_0) vs. HS (t_0)	-5.794	0.622	0.002
NG (t_0) vs. NG (t_4)	-4.167	0.419	0.005
NG (t_0) vs. LS (t_4)	-5.858	0.608	0.002
NG (t_0) vs. HS (t_4)	-5.859	0.715	0.002
LS (t_0) vs. HS (t_4)	-5.595	0.553	0.002
LS (t_0) vs. LS (t_4)	-5.636	0.423	0.002
LS (t_0) vs. NG (t_4)	-5.111	0.452	0.002
HS (t_0) vs. HS (t_4)	-5.607	0.495	0.002
HS (t_0) vs. LS (t_4)	-5.468	0.342	0.002
HS (t_0) vs. NG (t_4)	-4.528	0.374	0.003
LS (t_4) vs. NG (t_4)	-4.399	0.271	0.003
HS (t_4) vs. LS (t_4)	-1.848	0.076	0.050
HS (t_4) vs. NG (t_4)	-5.129	0.397	0.002

T is the statistic of MRPP, *A* is the chance-corrected within-group agreement, *P* is the probability associated with *T*.