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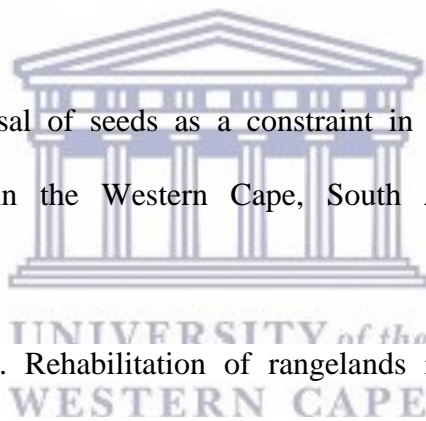
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Appendices

Appendix 1: List of plant species associated with *E. rhinocerotis* across all study sites in Namaqualand Granite Renosterveld. B= Burnt area and U=unburnt area.

Plant species	Hoorngaat (2000)		Skaaprivier (2001)		Xharras 2 (2002)		Die Vlak (2003)		Toringberg (2004)		Groenkloof (2005)	Xharras1 (2008)		Kliphoek (2009)		Populierskloof (2013)		Xharras 3 (late 2013)	
	B	UB	B	UB	B	UB	B	UB	B	UB	*B	B	UB	B	UB	B	UB	B	UB
<i>Anisodonteia bryoniifolia</i>			25								10		10			364		5	
<i>Anthospermum spathulatum</i>	2	5	1		18				69	7	1	21	6	2			18		19
<i>Arctotis fastuosa</i>			2	10			2									1			
<i>Aspalathus Spinosa</i>			29	1			2		28			6		4	1		3		1
<i>Chaetobromus involucratus</i>																		82	9
<i>Chrysocoma ciliata</i>		128	4	16		29	57	15		1	3	15	62	3	48	21	21		7
<i>Cliffortia ruscifolia</i>			3		2	31			26			6	6	2	12		7		
<i>Conicosia elongata</i>												6		6					
<i>Cotula barbata</i>			1				6									200	4	22	
<i>Crassula natans</i>						18	1								1	4		98	
<i>Crassula spp.</i>		2									1								
<i>Didelta spinosa</i>											6			2					
<i>Diosma acmaeophylla</i>	8				10	2		1	1								15		17
<i>Dodonea angustifolia</i>	4						1				1		24			1			
<i>Ehrharta calycina</i>		5		4				6				1	3	2		7			
<i>Elytropappus rhinocerotis</i>							11		9			35	9				10	52	5
<i>Eriocephalus brevifolius</i>									2										2
<i>Eriocephalus microphyllus</i>	30	7	1			54	1	4	15	15		5	5	3			32		88
<i>Euphorbia mauritanica</i>		12																	

<i>Euryops lateriflorus</i>	1			1	2		1	2	24					3	8		1		
<i>Felicia australis</i>								30									201		
<i>Ficinia indica</i>				108	8	2						5		26					
<i>Ficinia nigrescence</i>				38								14							
<i>Fingerhuthia africana</i>												5							
<i>Galenia africana</i>	4																		
Grass spp.		2		6	53						20	16	5		10	5	14		
<i>Haworthia arachnoidea</i>									1										
<i>Helichrysum hamulosum</i>	21	23	26	15	40	50	29	34	52	102	84	27	7	39	35	14	3	52	
<i>Helichrysum tinctum</i>																		20	
<i>Heliophila variabilis</i>																		2	
<i>Hermannia amoena</i>		6																10	
<i>Hermannia disermifolia</i>	3																		
<i>Hessea breviflora</i>											20								
<i>Hyobanche sanguinea</i>							1	12						1		1		1	
<i>Indigofera nigromontana</i>													10						
<i>Ischyrolepis gossypinus</i>	4							8	41				15	29		43		5	
<i>Karoochloa schismoides</i>		15	3										29	252	1		3	10	
<i>Lachenalia mutabilis</i>			1				1								10			2	
<i>Lachenalia violacea</i>																		1	2
<i>Leipoldtia</i> spp.														7					
<i>Leobordea digitata</i>		4			76	3			2	2		24	10		1	7			
<i>Leucospermum rodolentum</i>												3	18						
<i>Leysera gnaphalodes</i>														5	5				
<i>Lycium cinereum</i>					2									6					
<i>Massona depressa</i>				8					1			1						1	
<i>Mesembryanthemum crystallinum</i>														1	4			12	
<i>Moraea miniata</i>									7									42	
<i>Moraea serpentina</i>				1											1			1	



<i>Struthiola ciliata</i>					4						23		
<i>Struthiola leptantha</i>	4		36	10	3	3	16		3		2	19	
<i>Sutherlandia frutescens</i>	2							1					
<i>Tribolium utriculosum</i>	2	6						11				1	5
<i>Tripteris sinuata</i>		1						18					
<i>Viscum capense</i>	2	1							1		7		
<i>Wahlenbergia</i> spp.													4
<i>Wiborgia</i> spp.										22			
<i>Wildenowia incurvata</i>			23						204	1		9	

* No individuals of *E. rhinocerotis* were found in the unburnt vegetation at Groenkloof



Appendix 2: List of perennial species and their ecological status in the Kamiesberg. Asterisks reflect in which sites species were found: B= Burnt area, U=unburnt area, C= found in burnt and unburnt areas.

Ecological status	Burnt	Unburnt	Both
Decreaser species			
Perennial graminoids			
<i>Chaetobromus involucratus</i>			*
<i>Ehrharta calycina</i>			*
<i>Ficinia indica</i>			*
<i>Ficinia nigrescence</i>			*
<i>Fingerhuthia africana</i>	*		
<i>Schismus schismoides</i>			*
<i>Stipagrostis ciliata</i>			*
Perennial shrubs			
<i>Agathosma capensis</i>	*		
<i>Anthospermum spathulatum</i>			*
<i>Arctotis fastuosa</i>			*
<i>Aspalathus Spinosa</i>			*
<i>Chrysanthemoides monilifera</i>	*		
<i>Cliffortia ruscifolia</i>			*
<i>Didelta spinosa</i>			*
<i>Diosma acmaeophylla</i>			*
<i>Eriocephalus brevifolius</i>			*
<i>Eriocephalus microphyllus</i>			*
<i>Hermannia disermifolia</i>			*
<i>Indigofera nigromontana</i>			*
<i>Leobordea digitata</i>			*
<i>Muraltia spinosa</i>			*
<i>Passerina truncata</i>			*
<i>Pelargonium incrassatum</i>			*
<i>Pelargonium spp.</i>			*
<i>Polygala leptophylla</i>		*	
<i>Pteronia divaricata</i>	*		
<i>Pteronia glaborata</i>			*
<i>Struthiola ciliata</i>			*
<i>Struthiola leptantha</i>			*
<i>Sutherlandia frutescens</i>			*
<i>Triptaris sinuata</i>			*
<i>Wiborgia monoptera</i>	*		
Perennial succulents			
<i>Roepera morgsana</i>			*
<i>Ruschia robusta</i>			*



<i>Ruschia</i> spp.		*	
<i>Salsola kali</i>	*		
Increaser species			
Perennial graminoids			
sedge	*		
<i>Tribolium utriculosum</i>			*
<i>Ischyrolepis gossypina</i>			*
<i>Wildenowia incurvata</i>			*
Perennial shrubs			
<i>Anisodonteia bryoniifolia</i>			*
<i>Chrysocoma ciliata</i>			*
<i>Elytropappus rhinocerotis</i>			*
<i>Euryops lateriflorus</i>			*
<i>Galenia africana</i>		*	
<i>Helichrysum hamulosum</i>			*
<i>Helichrysum tinctum</i>	*		
<i>Hermannia amoena</i>	*		
<i>Lysera gnaphalodes</i>			*
<i>Monsonia spinosa</i>		*	
<i>Othonna</i> spp.			*
<i>Phylica rigidifolia</i>			*
<i>Pteronia incana</i>			*
<i>Pterygodium hallii</i>		*	
<i>Salvia dentata</i>			*
<i>Senecio cinerascens</i>			*
<i>Stachys rugosa</i>		*	
Perennial succulents			
<i>Euphorbia mauritanica</i>			
Perennial trees			
<i>Dodonea angustifolia</i>			*
Unknown status			
Perennial shrubs			
<i>Leipoldtia</i> spp.	*		
<i>Leucospermum rodolentum</i>			*
<i>Lycium cinereum</i>	*		
<i>Osteospermum</i> spp.			*
<i>Selago divaricata</i>			*
Perennial succulents			
<i>Haworthia arachnoidea</i>	*		



Appendix 3: The difference between growth forms in the burnt (B) and unburnt (UB) renosterveld sites. $N = 10$ for each site.

Growth forms	Mean	Std.Dv.	N	Mean diff.	Std.Dv. Diff.	<i>t</i> -value	df	<i>p</i> - value
B_Shrubs	12.0	3.3	10	-2.0	3.7	-1.7	9	0.12
UB_Shrubs	14.0	3.6						
B_Shrubs	12.0	3.3	10	9.8	2.8	11.0	9	0.00**
UB_Graminoids	2.2	1.0						
B_Shrubs	12.0	3.3	10	9.3	3.3	8.8	9	0.00**
UB_Succulents	2.7	1.9						
B_Shrubs	12.0	3.3	10	7.7	3.9	6.2	9	0.00**
UB_Herbs	4.3	1.9						
B_Shrubs	12.0	3.3	10	11.6	3.7	9.9	9	0.00**
UB_Trees	0.4	0.7						
B_Graminoids	1.9	0.9	10	-12.1	3.4	-11.3	9	0.00**
UB_Shrubs	14.0	3.6						
B_Graminoids	1.9	0.9	10	-0.3	0.8	-1.2	9	0.28
UB_Graminoids	2.2	1.0						
B_Graminoids	1.9	0.9	10	-0.8	1.9	-1.4	9	0.21
UB_Succulents	2.7	1.9						
B_Graminoids	1.9	0.9	10	-2.4	2.1	-3.7	9	0.01*
UB_Herbs	4.3	1.9						
B_Graminoids	1.9	0.9	10	1.5	1.3	3.7	9	0.00**
UB_Trees	0.4	0.7						
B_Succulents	1.8	1.9	10	-12.2	2.9	-13.1	9	0.00**
UB_Shrubs	14.0	3.6						
B_Succulents	1.8	1.9	10	-0.4	1.8	-0.7	9	0.49
UB_Graminoids	2.2	1.0						
B_Succulents	1.8	1.9	10	-0.9	1.5	-1.9	9	0.09
UB_Succulents	2.7	1.9						
B_Succulents	1.8	1.9	10	-2.5	2.8	-2.8	9	0.02***
UB_Herbs	4.3	1.9						
B_Succulents	1.8	1.9	10	1.4	2.3	1.9	9	0.08
UB_Trees	0.4	0.7						
B_Herbs	3.8	5.1	10	-10.2	4.4	-7.3	9	0.00**
UB_Shrubs	14.0	3.6						
B_Herbs	3.8	5.1	10	1.6	5.0	1.0	9	0.34
UB_Graminoids	2.2	1.0						
B_Herbs	3.8	5.1	10	1.1	5.2	0.7	9	0.52
UB_Succulents	2.7	1.9						
B_Herbs	3.8	5.1	10	-0.5	5.7	-0.3	9	0.79
UB_Herbs	4.3	1.9						

B_Herbs	3.8	5.1						
UB_Trees	0.4	0.7	10	3.4	5.3	2.0	9	0.07
B_Trees	0.9	0.7						
UB_Shrebs	14.0	3.6	10	-13.1	3.4	-12.3	9	0.00**
B_Trees	0.9	0.7						
UB_Graminoids	2.2	1.0	10	-1.3	1.2	-3.5	9	0.01*
B_Trees	0.9	0.7						
UB_Succulents	2.7	1.9	10	-1.8	1.8	-3.3	9	0.01*
B_Trees	0.9	0.7						
UB_Herbs	4.3	1.9	10	-3.4	2.1	-5.2	9	0.00**
B_Trees	0.9	0.7						
UB_Trees	0.4	0.7	10	0.5	0.7	2.2	9	0.05

Significance is shown at * $p < .01$, ** $p < .001$, *** $p < 0.05$



Appendix 4: List of species recorded in each 100 m² in the Kamiesberg. Species are arranged according to a) response to fire and b) growth forms. Asterisks reflect in which sites species were found: B= Burnt area, U=unburnt area, C= found in burnt and unburnt areas. The species recovery strategies (R= resprouter and S= seeder) after fire are included.

Species	B	U	C	Recovery strategy
Fire sensitive species				
Perennial dwarf shrubs				
<i>Chironia baccifera</i>	*			
<i>Hirpicium alienatum</i>		*		
Perennial graminoids				
<i>Pentaschistus</i> spp.	*			
<i>Stipa capensis</i>	*			S
<i>Stipagrostis ciliata</i>		*		
<i>Wildenowia incurvata</i>		*		
Perennial herbs				
<i>Albuca cooperi</i>	*			S
<i>Babiana dregei</i>			*	
<i>Ficinia indica</i>		*		
<i>Gazania leiopoda</i>	*			
<i>Hessea breviflora</i>		*		
<i>Hesperantha pauciflora</i>	*			S
<i>Lachenalia mutabilis</i>			*	
<i>Leysera gnaphalodes</i>		*		
<i>Moraea herrei</i>	*			S
<i>Moraea miniata</i>	*			S
<i>Moraea tortilis</i>				S
<i>Moraea schlechteri</i>		*		S
<i>Moraea serpentina</i>	*			S
<i>Moraea</i> spp.	*			S
<i>Oxalis</i> spp.			*	S
<i>Romulea citrina</i>	*			S
<i>Pelargonium incrassatum</i>		*		R
<i>Pelargonium</i> spp.		*		R
<i>Spiloxene serrata</i>		*		S
Perennial semi-parasite shrub				
<i>Viscum capense</i>			*	
Perennial shrubs				
<i>Anisodontea bryoniifolia</i>			*	S
<i>Asparagus</i> spp.			*	R
<i>Chrysanthemoides monilifera</i>			*	S
<i>Didelta spinosa</i>		*		
<i>Diospyros austro-africana</i>			*	R
<i>Eriocephalus brevifolius</i>		*		R
<i>Euryops lateriflorus</i>			*	S

<i>Gomphocarpus cancellatus</i>	*		
<i>Gomphocarpus fruticosus</i>	*		
<i>Haworthia arachnoidea</i>		*	
<i>Helichrysum hebelepis</i>			*
<i>Indigofera nigromontana</i>		*	
<i>Indigofera</i> spp.	*		
<i>Lebeckia sericea</i>		*	R
<i>Leipoldtia</i> spp.		*	
<i>Lessertia frutescens</i>	*		R
<i>Leucospermum rodolentum</i>			*
<i>Polygala leptophylla</i>	*		
<i>Pteronia</i> spp.	*		
<i>Salsola kali</i>		*	
<i>Salvia dentata</i>			*
<i>Selago divaricata</i>		*	S
<i>Senecio cinerascens</i>			*
<i>Seriphium plumosum</i>		*	S
<i>Struthiola ciliata</i>			*
<i>Tetragonia</i> spp.	*		S
<i>Tripteris sinuata</i>		*	S
Perennial trees			
<i>Searsia undulata</i>			*
Fire-tolerant species			
Perennial dwarf shrubs			
<i>Hermannia amoena</i>	*		S
<i>Hermannia disermifolia</i>		*	S
<i>Phylica rigidifolia</i>			*
<i>Selago divaricata</i>	*		
Perennial graminoids			
<i>Grass</i>		*	
<i>Ischyrolepis gossypina</i>		*	S
<i>Sedge</i>		*	S
Perennial herbs			
<i>Leobordea digitata</i>		*	S
<i>Massonia depressa</i>		*	
Perennial shrubs			
<i>Anthospermum spathulatum</i>		*	R
<i>Aspalathus spinosa</i>		*	R
<i>Chrysocoma ciliata</i>		*	R/S
<i>Cliffortia ruscifolia</i>		*	R
<i>Diosma acmaephylla</i>		*	
<i>Elytropappus rhinocerotis</i>		*	R
<i>Eriocephalus microphyllus</i>		*	R
<i>Helichrysum hamulosum</i>		*	R/S



<i>Nylandtia spinosa</i>		*	R
<i>Passerina truncate</i>		*	
<i>Pentzia incana</i>		*	
<i>Pteronia divaricata</i>		*	R
<i>Pteronia incana</i>		*	
<i>Stachys rugosa</i>		*	R/S
<i>Struthiola leptantha</i>			R
Perennial trees			
<i>Dodonea viscosa</i>	*		R/S
<i>Searsia pyroides</i>		*	R



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