TABLE 1
Phytosociologial table of the old field vegetation in the Namaqua National Park

Vegetation type*	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1
Altitude (m a.s.l.)	722	711	708	749	704	686	707	739	676	680	652	645	635	620
Land type†	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94
Community number	**1.1**								**1.2**					
Relevé number	22	20	23	21	18	24	19	2	1	25	28	27	41	33
Species group A														
Senecio arenarius	+		2a	1	+	+	+	2a						
Pelargonium cf. *nanum*	+	1	+	+	+	1	1	1		+				
Helichrysum cf. *hebelepis*	+	+	+	+		+	+							
Crotalaria excisa	+	+	+		1						+			
Oxalis namaquana	+	+	+	+										
Species group B														
Gymnodiscus linearifolia									+	+	2b	1	1	3
Lotononis pentaphylla										+	+	+	+	
Erodium moschatum									+			+		1
Species group C														
Manulea altissima						+			+	+	+	+	+	
Ehrharta longiflora	+									+				
Othonna pavonia										+	+	+	+	
Amellus alternifolius														+
Species group D														
Lotononis leptoloba	+	+	2a	2a	2b	2b		1	+	+	+			+
Pelargonium incrassatum	+		+	+	+	+		+	+		+		+	
Oxalis sp. 1	+	+	+	+			+	+	+				+	
Lessertia spinescens				+				+				+	+	
Hermannia disermifolia			+	+		+		+						+
Arctotis stoechadifolia								+	+					
Ornithogalum xanthochlorum	+	+				+								
Species group E														
Aspalatus cf. *pulicifolia*														
Searsia horrida														
Ballota africana														
Tetragonia microptera														
Passerina cf. *galpinii*														
Acanthopsis cf. *carduifolia*														
Chrysocoma coma-aurea														
Euclea tomentosa														
Struthiola leptantha														
Species group F														
Wahlenbergia prostrata														
Dorotheanthus bellidiformis												+	+	+
Rumex cf. *lativalvis*									+					
Pelargonium triste														
Wiborgia mucronata														
Tribolium utriculosum														
Lyperia tristis														
Tetragonia fruticosa														
Hemimeris racemosa														
Species group G														
Ursinia cakilefolia	2b	2a	2b	3	5	3	2a	3	3	2a	1		1	
Gazania leiopoda	+	+		+	+		+		+		+	1	+	
Felicia bergeriana		+	+	+	+	+	+	+	+			+		
Nylandtia spinosa					+			+				+	+	+
Dodonaea viscosa	+	+						+		+	+		+	1
Crotalaria humilis								+	+					+
Amphiglossa tomentosa										+				
Species group H														
Selago divaricata														
Lachenalia mutabilis			+											

Vegetation type*	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1
Altitude (m a.s.l.)	680	680	660	680	679	668	636	667	624	624	664	641	693	755	713	662	660
Land type†	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ag94	Ib235	Ib235	Ib235	Ib235	Ib235
Community number	**1.3**												**1.4**				
Relevé number	42	43	60	58	57	62	29	30	32	53	26	31	56	54	55	59	61
Species group A																	
Senecio arenarius										+							
Pelargonium cf. *nanum*																	
Helichrysum cf. *hebelepis*	+											+			+		
Crotalaria excisa																	
Oxalis namaquana																	
Species group B																	
Gymnodiscus linearifolia							1									+	
Lotononis pentaphylla	+	+									+						
Erodium moschatum	+																
Species group C																	
Manulea altissima	+		+	+		+				+							
Ehrharta longiflora	+	+	+			+	+		+								
Othonna pavonia		+					+	1	+								
Amellus alternifolius					+		+	+									
Species group D																	
Lotononis leptoloba				+			+	+				+					
Pelargonium incrassatum	+	+					+		+	+		+					
Oxalis sp. 1									+								
Lessertia spinescens	+	+				+	1	1	+	+		+					
Hermannia disermifolia	+				+	+	+	+	+	1	1					+	
Arctotis stoechadifolia						+		1				+					
Ornithogalum xanthochlorum							+	+									
Species group E																	
Aspalatus cf. *pulicifolia*													+	+		+	
Searsia horrida													+	+			+
Ballota africana														+	+	+	
Tetragonia microptera				+									+	+			+
Passerina cf. *galpinii*													+				+
Acanthopsis cf. *carduifolia*																1	+
Chrysocoma coma-aurea			+											+		+	
Euclea tomentosa														+	+		
Struthiola leptantha													+				1
Species group F																	
Wahlenbergia prostrata	2m	2m		+			+	2m			2m		+	2m			
Dorotheanthus bellidiformis					+			+	+		2m	2m	2m	2m	+	2m	+
Rumex cf. *lativalvis*			+	+		+		+	+	+		+		+		+	+
Pelargonium triste						+						+		+			+
Wiborgia mucronata		+				+										2a	1
Tribolium utriculosum	+	2m					+										
Lyperia tristis	+											+					+
Tetragonia fruticosa	+		+				+										
Hemimeris racemosa									+		+				+		
Species group G																	
Ursinia cakilefolia	+	2a	2m	2m	+	2m		+		+	+	2b	+			+	+
Gazania leiopoda	1	+	2b	2b		+	1	2b				2b		+		+	
Felicia bergeriana	1	+	1	+	+	+	2b	1	2a	+	+	+	+			+	+
Nylandtia spinosa	+		+	+		+	+	+	+	+	+	+	+	+		+	+
Dodonaea viscosa			+								+	+	4	+		+	2b
Crotalaria humilis	1		+	+	+	+							+			2m	+
Amphiglossa tomentosa	+										+	+					+
Species group H																	
Selago divaricata	+																
Lachenalia mutabilis																	

Vegetation type*	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1
Altitude (m a.s.l.)	566	554	705	483	699	676	659	645	659	686	657	548	488	477	473
Land type†	Fb154	Fb154	Ib235	Fb154	Ib235	Ib235	Fb154	Fb154	Fb154	Fb154	Fb154	Fb154	Fb154	Fb154	Fb154
Community number	**2.1**						**2.2**								
Relevé number	11	13	9	15	8	10	3	4	6	5	7	12	14	17	16
Species group A															
Senecio arenarius															
Pelargonium cf. *nanum*															
Helichrysum cf. *hebelepis*	+		+												
Crotalaria excisa															
Oxalis namaquana							+								
Species group B															
Gymnodiscus linearifolia															
Lotononis pentaphylla				+											
Erodium moschatum															
Species group C															
Manulea altissima	+	+										+			
Ehrharta longiflora	+						+					+			
Othonna pavonia															
Amellus alternifolius	+														
Species group D															
Lotononis leptoloba															
Pelargonium incrassatum															
Oxalis sp. 1															
Lessertia spinescens						+									
Hermannia disermifolia															
Arctotis stoechadifolia						+									
Ornithogalum xanthochlorum															
Species group E															
Aspalatus cf. *pulicifolia*															
Searsia horrida															
Ballota africana								+							
Tetragonia microptera															
Passerina cf. *galpinii*															
Acanthopsis cf. *carduifolia*															
Chrysocoma coma-aurea															
Euclea tomentosa															
Struthiola leptantha															
Species group F															
Wahlenbergia prostrata										+				+	
Dorotheanthus bellidiformis						+								+	
Rumex cf. *lativalvis*															
Pelargonium triste															
Wiborgia mucronata															
Tribolium utriculosum															
Lyperia tristis															
Tetragonia fruticosa															
Hemimeris racemosa															
Species group G															
Ursinia cakilefolia															
Gazania leiopoda															
Felicia bergeriana															
Nylandtia spinosa		+													
Dodonaea viscosa															
Crotalaria humilis															
Amphiglossa tomentosa	+														
Species group H															
Selago divaricata	+		+		+	+									
Lachenalia mutabilis					+	+									

Vegetation type*	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn1	Skn4	Skn4	Skn4	Skn4	Skn4	Skn4
Altitude (m a.s.l.)	599	557	573	518	517	570	484	477	622	264	294	257	335	312	327	306
Land type†	Ib124	Fb154	Ib124	Fb154	Ib124	Ib124	Ib124	Ib124	Fb154	Fb154	Ag96	Ag96	Ag96	Ag96	Ag96	Ag96
Community number	**3**									**4**						
Relevé number	46	47	44	49	48	45	50	51	52	40	35	39	38	36	34	37
Species group A																
Senecio arenarius		+														
Pelargonium cf. *nanum*																
Helichrysum cf. *hebelepis*																
Crotalaria excisa																
Oxalis namaquana											+					
Species group B																
Gymnodiscus linearifolia																
Lotononis pentaphylla																
Erodium moschatum					+											
Species group C																
Manulea altissima			+						+	+					+	+
Ehrharta longiflora										+						
Othonna pavonia									+							
Amellus alternifolius		+														
Species group D																
Lotononis leptoloba																
Pelargonium incrassatum																
Oxalis sp. 1																
Lessertia spinescens																
Hermannia disermifolia		+														
Arctotis stoechadifolia																
Ornithogalum xanthochlorum																
Species group E																
Aspalatus cf. *pulicifolia*																
Searsia horrida																
Ballota africana																
Tetragonia microptera		+	+								+					
Passerina cf. *galpinii*																
Acanthopsis cf. *carduifolia*																
Chrysocoma coma-aurea																
Euclea tomentosa																
Struthiola leptantha																
Species group F																
Wahlenbergia prostrata																
Dorotheanthus bellidiformis												+				
Rumex cf. *lativalvis*																
Pelargonium triste									+							
Wiborgia mucronata																
Tribolium utriculosum																
Lyperia tristis																
Tetragonia fruticosa															+	
Hemimeris racemosa																
Species group G																
Ursinia cakilefolia										2b						
Gazania leiopoda																
Felicia bergeriana	+	+		+	+				+			+				
Nylandtia spinosa															+	+
Dodonaea viscosa																
Crotalaria humilis		+							+							
Amphiglossa tomentosa																
Species group H																
Selago divaricata																
Lachenalia mutabilis																

TABLE 1 (Cont...)

Phytosociologial table of the old field vegetation in the Namaqua National Park

Species group I																																																												
Trichogyne glomerata															2m	2m	+	+	2m	2m	+					2m	+	2m	+	2m		+	+	+	2a	2m	+																									
Microloma sagittatum					+										+		+		+		+		+	+		+	+	+		+	+	+		+				+			+																					+
Wiborgia monoptera								+				+			+	+					+		+	+	2a	2a	+	+		1		+	+							+																+						
Phyllopodium collinum					+																1		2m							+		+	+	+	+		+				1			+													+			3		2b
Species group J																																																											
Pentaschistis tomentella	+	+	+	+	+	+	+	+	2a	+	+	2a	+	+	1	+	3	2b	+	+	+	+			2b	+	+	2b	+	+		+	+	1	+	2a	+										+								3						
Cotula barbata	+	+	+		+		+	1	+		+		+	+	2m	2m	+				2a	+	+	+		1	2m				+	+			+	+	+								+										1						
Chrysocoma ciliata	+	+	+	1			+	+	+	+		+								1					+			+				+	+								+														+						
Zaluzianskya peduncularis	2a		+								+							+			+		+			+						+		+																						+			+		
Babiana curviscapa	+	+						+		+			+			+							+	+								+		+																					+						
Species group K																																																											
Ornithogalum polyphyllum																																						+	+																						
Crassula muscosa																																						+	+																						
Plantago cafra																																			+			+	+																						
Cotula laxa																																							1																						
Species group L																																																											
Solanum giftbergense																+												+	+			+						+	+	+	+	+													+						
Oxalis purpurea																																							+	+	+	+																			
Nemesia versicolor																					+		1	+							+							+	+	+		+																			
Tylecodon wallichii																																							+	+	+																				
Euphorbia mauritanica																																					+			1		+																			
Manulea cheiranthus															+																							+		+																					
Species group M																																																											
Diascia tanyceras																													+					+	+	+				+	+	+																			
Pteronia divaricata																			+				+						+	+							+	+	+	+	+												+	+					+		
Species group N																																																											
Oxalis sp. 2												+		+			+				+	+	+			+					+			+	+		+			+	+			+																	
Pharnaceum lanatum																					+	+	1			+											+	+	+	+	+	1	2a																+		
Searsia undulata										+	+	+		1		+		+	+		+		+	1			+	+	+		+						+			+	+																				
Species group O																																																											
Lachenalia violacea														+																															+	+															
Atriplex semibaccata																																											+		+	+				+	+	+									
Ficinia nigrescens	+															+													3												+		+																		
Trichogyne sp.																																												2m	+		+								+						
Species group P																																																											
Pentaschistis airoides	+																					+																+	+	+	+	+	+		+		+														
Species group Q																																																											
Felicia australis													+																			2a	2a	3	2b	2b	+	3	1	1	2a	2a	+	2a	2b	+	+		+							+				+	
Ursinia nana																																			+							+																			
Hermannia sp.																																	+										+																		
Hebenstretia repens																																		+					+																						
Species group R																																																											
Lotononis falcata		+		+		+	+				+		+				+		+			+				+					+	+	+	+		+		+		+	+		+	+																	
Albuca canadensis	+	+		+		+				+					+	+				+			+	+				+							+					+		+	+																		
Eriocephalus microphyllus	+							+	+			+											2a	3						+	+	+	+	+		+	+		+	+	1	+		+		+															+
Crassula campestris	+					+		+	+	+																2b						+	+					+		+	+		+		+															+	
Species group S																																																											
Salsola kali																																															+	2a	2a	+	2b	2a			+						
Oxalis campylorrhiza																																															+	+	+	+	+	+		+							
Helichrysum oxybelium																				+									+																		1	1	+	+		1			1						
Rumex sagittatus																										+																					+	+	+	+	+	+									
Galenia meziana																																	+														+	+		+	+	+			+			+			
Pharnaceum dichotomum																																																+		+					+			+			
Hermannia stipitata																						+																											+			+		+	+						
Enneapogon scaber																																																		+	+										
Norlindhia amplectens																																																		+	+										
Manulea sp.																																																+	+	+		+									
Lepidium africanum																																																			+	+									
Lupinus angustifolius																																															+								+						
Species group T																																																											
Drosanthemum hispidum																													+									2b	1	+	+	1	+			2a	2a	+	+	1	+	+	3	+	+		+				
Oxalis pes-caprae																								+					+							+		1	+				+	+	+	+			+	+	+	+	+	+							
Phyllobolus oculatus	+			+																+		+		+								+						+		+		+		+	+	+	+			+	+	+			+						
Psilocaulon coriarium																																			+									1	+	+		+	+	+		+	+	+							
Species group U																																																											
Hermannia amoena																						+										+	1	+	+	+	+	+	2a	+	+	1	1	1	+	+		+		+		1	+			+					
Pentzia incana																								+											+				2a		+	+				+						+									
Senecio niveus																																+							+	+							2a	+				+			+						
Hermannia cuneifolia																																+	+										+							+				+							

TABLE 1 (Cont...)

Phytosociologial table of the old field vegetation in the Namaqua National Park

Species group V								
Arctotheca calendula	+ + + + + + + +	+ 1 + + + +	+ + +	+	+ + + + +	+ + 1 + + +	+ + + +	
Calobota sericea	+ + + + + + 1	+ +	+ + + + + 1	+ 1 +	+ + + + + + 2a	+ 3 + 1 +	+ + +	+
Erodium cicutarium	+ + 1	+ 1	+ + + + + + + 1	1 2m		+ + +	+ + +	
Senecio cardaminifolius	+	+ +	+ + +	+	+ +	+ + + + + + + + +	+ + +	2a
Helichrysum leontonyx	+ + 1 1 + + +	+ +	+ 2m		1 1	+ + + + 2a	+ 2b + 2m + + +	+
Pharnaceum aurantium	+	+ +	+ + + +	+ +	+ + +	+ +	+ + + + + 1	
Species group W								
Atriplex lindleyi						1 1 2b	2b 2a + +	+ + +
Galenia fruticosa						+ + +	+ + 2a 3 3	+ + + 1
Oncosiphon suffruticosum		+			+	+ + + +	+ + +	+ 2a
Species group X								
Fingerhuthia africana					1 + + +	+ + + +	+ + + + +	+ + + 2a
Hypertelis salsoloides					+	+ + + + +	+ + + 1 + 1 1 +	+ +
Leysera tenella	3				+ 1 +	+ + + 4 3	+ + + + +	+ +
Lycium ferocissimum			+		+ + +	+	+	+ + + +
Leipoldtia schultzei					+	+ +	+	+
Species group Y								
Zaluzianskya benthamiana	+ +	+ + +	+ + +	+	+ + + + +	2b + + + + + + +	+ 1 + 2m + 1 +	+ + +
Lapeirousia silenoides	+ + + + + + + +	+ + + + + 2a	+ + + + + 2a 1 + +		+ + +	+ + + + + + +	+	+ +
Limeum africanum	+ +	+ + + + + + +	+ + + + + + +	+ +	+ + + +	+ + + + + +	+	+ +
Aizoon canariense	1 + + + + + +	+ + + + +	+ + 2m + + + + +		+	+ + + + + +	+ + 2b + + 2b +	2m + +
Trachyandra falcata		+ +	+ + + + + + + +	+	+ + +	+ + + + + +	+ +	+ +
Diascia namaquensis		+ +	+ + +			+ + + + +	+	+
Crassula thunbergiana	+ +	2m	+ 2b	2m		+	+ +	+ +
Species group Z								
Oncosiphon grandiflorum					+			+ + 2b + + 1
Arctotis fastuosa		+				+ +		2a 1 2b 2a +
Lapeirousia arenicola								+ + + 1
Zygophyllum retrofractum								1 + + +
Tribolium echinatum						+ +		+ + +
Stipagrostis brevifolia					2b	+		+ + 2b
Zygophyllum morgsana						+ +		+ +
Ehrharta delicatula						+		+ +
Lasiospermum brachyglossum						+		+ +
Hermbstaedtia glauca								+ +
Species group AA								
Lotononis parviflora							+ + + + + +	1 + + 2a 1 1
Karroochloa schismoides			+				+ + + + + +	+ + 2b + + + +
Calobota halenbergensis							2b 4 1 2b 1	+ 2b + +
Melolobium canescens			+				+ +	1
Species group AB								
Hermannia trifurca	+	+	1 + + + + 2b 2a + 1	1 2a	2b 3 +	+ + + + + +	+ + + + + + +	1 + +
Manochlamys albicans			+ + + 1 + +		+ + + +	+ + + + + 1 +	1 1 + 1 + + +	+ + + + 1
Stipagrostis zeyheri	+		+ 2a + 1	+ 3 1 3	1 + + +	+ + +	+	1 + 2b 1
Gorteria diffusa	+	+	+ + + + + + +	+	+ + + 1 +	+ 1 + + +	+ +	1 1 + 2a
Bromus pectinatus			1 1 + + +		+ +	+ 1 1 + + + 2b	+ +	+ + +
Brunsvigia bosmaniae			+ +	+ +	+	+ +		+ + + +
Didelta spinosa			+ + + + + + +	+	1	+ +		+ +
Species group AC								
Heliophila variabilis	3 2b 2b 2b 1 2b 3 2a	1 2b 1 2a + +	+ + + + + + 2a 1 + + 2m	+ + + + +	+ + 1 + 1 1	+ 1 1 + 1 + 1 +	+ + + + + + +	+ 3 + + +
Leysera gnaphalodes	4 4 3 3 4 4 3	1 4 4 + + +	+ + + + 2a + + + +	+ + +	+ 2b + 2a	+ + + 3 +	+ + + + + + + 3	1 3 1 2b 2a
Galenia africana	+ + + +	1 + +	+ + + + + +	+ 3 +	2b + + 2b + 2a	3 2a 2b 3 4 2a 2b 2a +	2a 2a + 2b 2b + + + 1	1 + + + 2b + +
Dimorphotheca sinuata	+ + 1 + +	+ + + 1 + +	+ + + + + + 2m + 1	+ +	+ + 2a + 1 +	+ + + + + + +	+ + 1 + + 1 +	+ + 1 + + + +
Lessertia diffusa	+ + + + 1 1 + +	+ + + + +	+ + + + + + + +		+ + + + 1	+ + +	+ +	+ + 1 + +
Grielum humifusum	+ + + +	+ 1 + 2a	+ + + + 2m + 1 + 1	+ + +	1 1 + 2a 1 1	+ + + + + 1 +	+ + + + + +	1 + 2b 2a 3 1 2a
Conicosia elongata	+ + + + + + + +	+ + + + + +	+ 1 + + 1 + + 2a + 1 1	+ 1 + +	+ + + + + +	+ + + + + +	+	+ + + + +
Helichrysum tinctum	+ + + + + + +	2m + 2m +	+ +		+ 1 1 + + 2m	3 + 1 + 1 + +		1 + 2a 2a + +
Oxalis obtusa	+ + + 2a + +	2b + + +	+ + + + + + + + + + 1 +	+ 2m 2m + +	+ + + + + +	+ + + + + + +	+ + + +	+
Wahlenbergia annularis	2a 1 2a + + 1 + +	+ + + + +	+ + + + + + + +	+	+ + + + + +	1 + + + 1 + + + +	+ + + + + +	1 + +
Dischisma spicatum	+ + + + + + 1 +	+ + 1	+ + + + + + +	+	+ 1 2a +	+ + +	+	+ + + +
Cleretum papulosum	+ + + + + +	+ + + +	+ + + + 1 1 + 1	+ +	+ + + +	+ + + +	+ + +	+ + + +
Cyanella hyacinthoides	+ + + + +	+ + + +	+ + + + + + + + +	+	+			+ + + +
Ehrharta calycina	+ + + +	+ + +	+ + + + + + + + + +	+ +	+ +			+ + + +
Adenogramma glomerata	+	+ + +	2m + + + 2m		2m	2m + 3 2m +	+ + + + +	2m +
Trachyandra laxa	+ + +		+ + +		+ + +	+		+ + + + +
Monoculus hyoseroides	+	1 + 4	+ 1 2b	+	1		+	+ + +
Cysticapnos vesicaria			+			+ +		
Oxalis ambigua	+ +	+ + +	+					+ +
Amsinckia calycina	+ +		+ + +				+ +	

* According to Mucina *et al*. (2006)

†According to www.agis.agric.za