

APPENDIX 1.2.: TWINSPAN TABLES**Overview:****Table 26: TWINSPAN group 1:**

association 1	association 4
association 2	association 5
association 3	

Table 27: TWINSPAN group 2:

association 6	association 8
association 7	association 9

Table 28: TWINSPAN group 3:

association 10	association 12
association 11	

Table 29: TWINSPAN group 4:

association 13	association 14
----------------	----------------

On each table the diagnostic species groups for the different associations are indicated, as well as characteristic species for a combination of associations and common species of the entire group. Rare species with only 1 or 2 occurrences and a cover of < 0.1% within that TWINSPAN group were not listed here, but are listed on the synoptic tables (Appendix 1.1.). Detailed data sets with environmental data are available from the Ecology Section, National Botanical Research Institute.

Species heights are indicated behind species names as follows:

h1 = herb

s1 = high shrubs, 1-5 m

s2 = low shrubs, 30 cm - 1 m

sl = seedlings

t3 = low trees, 2-5 m

t2 = small trees, 5-10 m

Table 26
TWINSPLAN TABLE
association
Unique relevé nr.

Lycium eenii	-s2
Grewia flava	-s1
Evolvulus atninooides	-hl
Otoptera burchellii	-s2
Aristida congesta	-hl
Ptycholobium biflorum	-s2
Heliotropium steudneri	-s1
Schmidia pappophoroidea	-hl
Cleome rubella	-hl
Indigofera rautanenii	-s2
Aristida adscensionis	-hl
Chascanum pinnatifidum	-s2
Ipomoea sinensis	-hl
Chloris virgata	-hl
Eragrostis trichophora	-hl
Commillia benghalensis	-hl
Ipomoea obscura	-hl
Dichrostachys cinerea	-s1
Oxygonum sinuatum	-hl
Acacia hebecarpa	-s1
Lindheria clavata	-hl
Ocimum americanum	-hl
Catophractes alexandri	-s1
Phyllanthus maderaspatensis	-hl
Boscia albitrunca	-s2
Pupalia lappacea	-s2
Kyphocarpa angustifolia	-hl
Tragus berteronianus	-hl
Nidorella resedifolia	-hl
Barleria lanceolata	-s2
Hirpicium gorterioides	-hl
Geigeria ornativa	-hl
Pollicia campestris	-s2
Ehretia rigida	-s1
Dicomia tomentosa	-hl
Leucosphaera bainesii	-s2
Grewia flava	-s2
Lycium oxycarpum	-s1
Chamaesyce inaequilatera	-hl
Pavonia burchellii	-s2
Cleome monophylla	-hl
Phyllanthus pentandrus	-hl
Crotalaria heilmannii	-hl
Acacia reficiens	-s1
Acacia reficiens	-t3
Brachiaria deflexa	-hl
Limeum sulcatum	-hl
Cenchrus ciliaris	-hl
Melinis repens s. repens	-hl
Boscia albitrunca	-s1
Solanum incanum	-s2
Dichrostachys cinerea	-s2
Raphionacme lanceolata	-hl
Felicia smaragdina	-hl
Cyperus fulgens	-hl
Hermannia modesta	-hl
Geigeria acaulis	-hl
Indigofera hochstetteri	-hl
Hermastaelia odorata	-hl
Limeum fenestratum	-hl
Kohautia caespitosa	-hl
Eragrostis biflora	-hl
Acrotome fleckii	-hl
Ehretia rigida	-s2

Table 27

TWINSPAN TABLE

association

Unique relevé nr

Amaranthus thunbergii -hl	.	.	.	1.	.	1.	.	.	1.	.	.	1.	.	.	1.	.	1.	.	1.	.	1.	.	.		
Lotononis listii -hl	1.	1.	.	1.	.	1.	.	1.	1.	.	.	1.	.	.	1.	.	1.	.	1.	.	1.	.	.		
Platycarpa carlinoides -hl	.	.	1.	1.	.	1.	.	1.	1.	.	.	1.	.	.	1.	.	1.	.	1.	.	1.	.	.		
Dicoma capensis -hl	.	.	.	1.	.	1.	.	.	1.	.	.	1.	.	.	1.	.	1.	.	1.	.	1.	.	.		
Solanum dinteri -s2	.	.	.	.	.	1.	.	1.	.	.	.	1.	.	.	1.	.	1.	.	1.	.	1.	.	.	
Acacia hebecarpa -s2	.	.	.	.	.	.	.	.	.	.	.	1.	.	1.	1.	1.	1.	.	1.	1.	1.	.	.	
Panicum staphianum -hl	.	.	.	.	1.	1.	.	.	1.	1.	.	.	.	.	.	.	.	1.	1.	.	.	.	.
Craterostigm plantagineum -hl	.	.	.	.	.	1.	1.	1.	.	.	.	1.	.	.	1.	.	1.	1.	1.	1.	.	.	.	
Cymbopogon plurinodis -hl	.	.	.	.	.	.	.	.	.	.	.	1.	.	1.	.	.	1.	.	1.	.	.	.	.
Cyperus cuspidatus -hl	1.	1.	.	.	.	.	.	.	.	.	.	1.	.	1.	.	.	1.	.	1.	.	.	.	.
Solanum supinum -s2	.	1.	.	.	.	1.	1.	1.	.	.	.	1.	.	1.	.	.	1.	.	1.	.	1.	.	.		
Urochloa trichopus -hl	.	.	.	.	.	.	.	.	.	.	.	1.	.	1.	.	.	1.	.	1.	.	1.	.	.	
Andropogon chinensis -hl	.	.	.	.	.	1.	.	.	.	.	.	1.	.	1.	.	.	1.	.	1.	.	1.	.	.	
<i>characteristic spp ass 6 and 7</i>																									
Ondinea linearis -hl	1.	.	1.	5	1	1	1	2.	.	1	1	1	5	1	1.	.	1	1	1	1.	1	1	1.	.	
Blepharis obmitrata -s2	.	.	.	.	.	1	1	1.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Eragrostis echinochloidea -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Pelastostomum leucorrhizatum -hl	.	.	.	.	.	.	.	.	.	.	.	1.	.	1.	.	.	1.	.	1.	.	1.	.	.	.
Aristida meridionalis -hl	.	.	.	.	.	.	.	.	.	.	.	1.	.	1.	.	.	1.	.	1.	.	1.	.	.	.
<i>diagnostic spp association 8</i>																									
Acacia erioloba -t3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Asparagus africanus -s2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Neourautanina mitis -s2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Hermannia tomentosa -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Crotalaria podocarpa -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Eragrostis dinteri -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Harpagophytum procumbens -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Kouaoua cynanchica -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Ipomoea crassipes -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Rhigozum brevispinosum -s1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Helinus spartoides -s2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Requienia sphaerosperma -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Oxygonum alatum -hl	1.	1.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Sesamum capense -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Indigofera alternans -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tephrosia purpurea -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Eragrostis omahensis -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Terminalia sericea -t3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Limeum myosotis -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Crotalaria sphaeroarpa -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Terminalia sericea -s1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Zornia glachidata -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Bothriochloa radicans -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Acacia erioloba -s1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lycium bosciifolium -s1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Rhigozum brevispinosum -s2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Ipomoea hakeleana -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Tephrosia lupinifolia -hl	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Acacia erioloba -s2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Terminalia sericea -s2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<i>characteristic spp ass 6, 7 and 8</i>																									
Apstomum angustifolium -hl	.	1.	1.	1.	1.	1.	1.	.	.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	.	1.	5	1.	1.
Gisekia africana -hl	1.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
Felicia amherstia -s2	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
Crotalaria pisiformis -hl	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
Hibiscus fleckii -hl	1.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
Abutilon austro-africanum -s2	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
Ipomoea bolusiana -hl	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
Solanum burchellii -s2	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
Tarchonanthus camphoratus -s1	.	.	.	.	.	.	.	.	1.	1.	1.	1.	1.	.	1.	.	1.	1.	1.	1.	.	1.	1.	1.
Maerua juncea -s2	.	.	.	.	.	.	.	.	1.	1.	1.	1.	1.	.	1.	.	1.	1.	1.	1.	.	1.	1.	1.
Waltheria indica -hl	1.	1.	1.	1.	1.	1.	1.	.	1.	1.	1.	1.	1.	.	1.	.	1.	1.	1.	1.	.	1.	1.	1.	1.
Anthephora schinzii -hl	.	.	.	.	.	.	.	.	1.	.	.	.	.	.	.	.	1.	1.	5	1.	.	1.	2.	.

Lycium eenii	-s2
Grewia flava	-s1
Evolvulus alsinoides	-hl
Ottopera burchellii	-s2
Aristida congesta	-hl
Ptychosolium biforum	-s2
Heliotropium steudneri	-s2
Schmidia papophoroides	-hl
Cleome rubella	-hl
Indigofera rautahenii	-s2
Aristida adscensionis	-hl
Chascanum pinnatifidum	-s2
Ipomoea sinensis	-hl
Chloris virgata	-hl
Eragrostis trichophora	-hl
Commelinopsis benghalensis	-hl
Ipomoea obscura	-hl
Dichrostachys cinerea	-s1
Oxygonum sinutatum	-hl
Acacia hebecarpa	-s1
Lindneria clavata	-hl
Osmium americanum	-hl
Catophractes alexandri	-s1
Phyllanthus maderaspatensis	-hf
Boscia albitrunca	-s2
Pupalia lappacea	-s2
Kyphocarpa angustifolia	-hl
Tragus berteronianus	-hl
Nidorella resedifolia	-hl
Barleria lanceolata	-s2
Hippocratea gorterioides	-hl
Geigeria ornativa	-hl
Pollichia campestris	-s2
Ehretia rigida	-s1
Dicoma tomentosa	-hl
Leucosphaera bainesii	-s2
Grewia flava	-s2
Lycium oxyacarpum	-s1
Chamaesyce inaequilatera	-hl
Pavonia burchellii	-s2
Cleome monophylla	-hl
Phyllanthus pentandrus	-hl
Crotalaria heldmannii	-hl
Acacia reficiens	-s1
Acacia reficiens	-t3
Brachiaria deflexa	-hl
Limeum sulcatum	-hl
Cenchrus ciliaris	-hl
Melinis repens s. repens	-hl
Boscia albitrunca	-s1
Solanum incanum	-s2
Dichrostachys cinerea	-s2
Raphionacme lancolata	-hl
Felicia smaragdina	-hl
Cyperus fulgens	-hl
Hermannia modesta	-hl
Geigeria acaulis	-hl
Indigofera hochstetteri	-hl
Hermbstaedtia odorata	-hl
Limeum fenestratum	-hl
Kohautia caespitosa	-hl
Eragrostis biflora	-hl
Acromome fleckii	-hl
Ehretia rigida	-s2

Hermannia rautanenii	-s2
Acalypha indica	-hl
Aristida effusa	-hl
Setaria verticillata	-hl
Seddera suffruticosa	-s2
Lantana angolensis	-s2
Monetylrum luederitzianum	-hl
Hibiscus elliottiae	-s2
Jatropha erythropoda	-hl
Cyphostemma congestum	-s2
Ruellia damparensis	-hl
Xenostegia tridentata	-hl
Dactyloctenium aegyptium	-hl
Hibiscus calyphyllus	-s2
Kyllinga alba	-hl
Tarchonanthus camphoratus	-s2
Petalidium ramulosum	-s2
Blepharis leanderiae	-hl
Tribulus terrestris	-hl
Lapeirousia bainesii	-hl
Enneapogon scoparius	-hl
Hibiscus schinzii	-hl
Dactyliandra wehntschi	-hl
Citrullus lanatus	-hl
Cleome hirta	-hl
Boophane disticha	-hl
Chamaecrista absus	-hl
Monechma divaricatum	-s2
Acacia erubescens	-s1
Heteropogon contortus	-hl
Grewia flavescentia v. olukondae	-s2
Gossypium triphyllum	-s2
Mollugo cerviana	-hl
Bidens biternata	-hl
Pergularia daemia	-hl
Chamaecrista blenioides	-hl
Indigofera charrilliana	-hl
Acrotome inflata	-hl
Albizia anthelmintica	-t3
Erucastrum arabicum	-hl
Acacia tortilis	-s2
Ornithoglossum viride	-hl
Lycium bosciifolium	-s2
Hermannia quartiniana	-hl
Ophioglossum polyphyllum	-hl
Combretum imberbe	-t3
Heliotropium manifolium	-hl
Schmidia kalliharensis	-hl
Pechuel-Loeschea leubnitzae	-s2
Portulaca kermeina	-hl
Digitaria velutina	-hl
Sida ovata	-s2
Eragrostis superba	-hl
Merremia palmata	-hl
Rhus mariothii	-s1
Ozoroa paniculosa	-s2
Hibiscus palmatus	-hl
Schlumbergera pinnata	-hl
Ruellia sp nova	-hl
Raphionacme velutina	-hl
Corallocarpus wehntschi	-hl
Indigofera holubii	-hl
Crassula rhodesica	-hl
Sporobolus festivus	-hl

Table 27
TWINSPLAN TABLE

Lyium eeni	-s2
Grewia flava	-s1
Evolvulus alsinoides	-hl
Otoptera burchellii	-s2
Aristida congesta	-hl
Ptychosolium biflorum	-s2
Heliotropium steudneri	-s2
Schmidia pappophoroides	-hl
Cleome rubella	-hl
Indigofera rautanenii	-s2
Aristida adscensionis	-hl
Chascanum pinnatifidum	-s2
Ipomoea sinensis	-hl
Chloris virgata	-hl
Eragrostis trichophora	-hl
Commelinia benghalensis	-hl
Ipomoea obscura	-hl
Dichrostachys cinerea	-s1
Oxygonum sinutatum	-hl
Acacia hebecarpa	-s1
Lindneria clavata	-hl
Ocimum americanum	-hl
Catophractes alexandri	-s1
Phyllanthus maderaspatensis	-hl
Boscia albitrunca	-s2
Pupalia lapacea	-s2
Kyphocarpia angustifolia	-hl
Tragus berteroianus	-hl
Nidorella resedifolia	-hl
Barleria lanceolata	-s2
Hippocratea longituba	-hl
Geigeria ornativa	-hl
Pollicia campestris	-s2
Ehretia rigida	-s1
Dicoma tormentosa	-hl
Leucosphaera bainesii	-s2
Grewia flava	-s2
Lyium oxycarpum	-s1
Chamaesyce inaequilatera	-hl
Pavonia burchellii	-s2
Cleome monophylla	-hl
Phyllanthus pentandrus	-hl
Crotalaria heidmannii	-hl
Acacia reficiens	-s1
Acacia reficiens	-t3
Brachiaria deflexa	-hl
Limeum sulcatum	-hl
Cenchrus ciliaris	-hl
Molinia repens s. repens	-hl
Boscia albitrunca	-s1
Solanum incanum	-s2
Dichrostachys cinerea	-s2
Raphionacme lanceolata	-hl
Felicia smaragdina	-hl
Cyperus fulgens	-hl
Hermannia modesta	-hl
Geigeria acaulis	-hl
Indigofera hochstetteri	-hl
Hermastædia odorata	-hl
Limeum fenestratum	-hl
Kohautia caespitosa	-hl
Eragrostis biflora	-hl
Acrotome fleckii	-hl
Ehretia rigida	-s2

