Grazing Potential Assessment for the development of a 400 MW Solar Photovoltaic (PV) facility and associated infrastructure (Phase 3) on the Remainder of Farm Goede Hoop 26C, Portion 3 of Farm Goede Hoop 26C and other properties, between De Aar & Hanover, Emthanjeni Local Municipality, Pixley Ka Seme District Municipality, Northern Cape Province, South Africa.

Soventix Project 2022



by Francois de Wet and Shobie Arnoldi



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EXECUTIVE SUMMARY

Soil based ecological units have been delineated by Van den Berg for several portions of farms within the Hanover District. Potential grazing capacity, as a broader concept, is a guideline of the grazing potential within the study area, but in the context of dryer years, or of higher rainfall years, a variation in grazing potential is envisaged. Specific guidelines at each of the ecological units represented at the study area are provided, each with a variation envisaged, potential grazing capacity ranging from dry to wetter conditions.

It is important to be cautious and to state that the grazing capacity cannot stand alone as a single guideline – it goes hand in hand with the grazing strategy being followed. The grazing capacity estimated should be adapted as soon as dryer conditions return, or when higher rainfall conditions are experienced. Adaptive management should therefore be kept in mind. As grazing capacity strongly relates to rainfall, other factors are important drivers as well, e.g., the geology, soils, and veld condition, which is a function of historical and recent grazing management.

The potential grazing capacity from the first year of veld condition assessments (2017) related to the dryer conditions experienced at that time. The grazing capacity from the 2017 study (De Wet, 2017) is more conservative than the current grazing capacity, estimated in 2022, affected by recent higher rainfall compared to the months before the 2017 study. As there has already been a variation of grazing capacity to allow for rainfall built into potential grazing capacity (De Wet, 2017) the range of the potential grazing capacity for the 2022 study area could be linked to the spatial representation of potential grazing capacity illustrated spatially in the 2017 grazing capacity map. The potential grazing capacity was estimated from using the Veld Condition Index method, (Du Toit, 1997). The results from the grass layer (*excluding bossies*) are presented in the report within ecological categories of "Increasers" and "Decreasers" (from Tainton, 1999). Veld condition assessments in 2022 also *included the contribution of bossies* (Trollope et al, 1990, in Esler et al (2010) as both components should be considered in the context of an area where the brittleness in the environment is high. In such brittle environments unplanned withdrawal of areas from grazing will result in rapid degradation, deterioration and soil erosion.

Veld condition at the study area is characterised by a dominant Karoo-bossie component, an abundance of bare ground and a sparse grass component. Stocking rates for sheep under the last few years of relative dry years correlated well to guidelines provided by the Department of Agriculture. The more recent higher rainfall would have undoubtedly affected grazing capacity in a positive way. Further improvement in grazing capacity can be envisaged if specific grazing management guidelines, as provided in this report, are followed. Long term annual monitoring is recommended, for it will provide a range of fluctuations envisaged in veld condition and grazing capacity and will improve our understanding of the potential grazing capacity, and therefore also on how to achieve rainfall linked best practice management.

1. INTRODUCTION

1.1. Terms of Reference

Enviropulse CC (Francois de Wet) and Topveld CC (De Villiers Arnoldi) was tasked to provide:

- Grazing potential within the study area, which provides guidelines for development on the distribution of sensitive areas, based on information from soil mapping and classification by Van den Berg & Botha (2022) and
- Grazing management guidelines, based on veld condition.

1.2. Study Area – Soventix Proposed Solar Installation

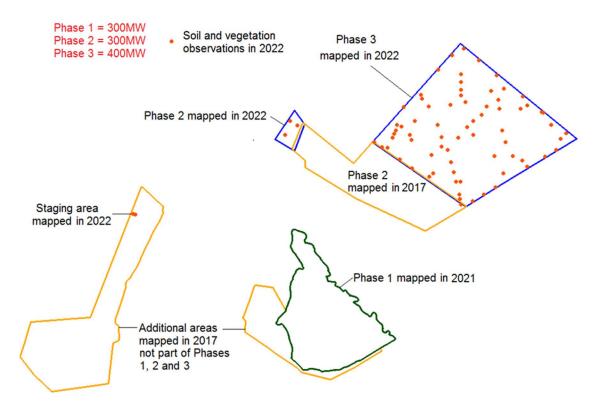
Location

The study area is in the Northern Cape, approximately 32 km from De Aar and 22 km from Hanover, directly northeast of the N10 highway.

Three potential development footprints of approximately same size, minimum of 450 ha each, were illustrated as three alternative development areas in the soil report of IRIS International (Van den Berg, 2017). Some of these areas form part of Phase 1 and Phase 2. In 2021 additional assessment and mapping was done to cover the full footprint of Phase 1 (now approved).

On these a total of 12 ecological units were delineated. Bottomlands with ephemeral drainage lines were noted then, but in April 2022 a vegetation survey on that part was conducted for the first time. The Figure below illustrates the three areas mapped in 2017 in relation to Phase 1, 2 and 3, the staging area and the extension of Phase 2. The Figure also indicates in addition to the areas mapped in 2017 the area mapped in 2021 (Phase 1) and the areas mapped in 2022.

Vegetation surveys in 2022 focussed on the 400MW Phase 3 footprint area. One survey point, however, is within an extension of the 300MW Phase 2 footprint area. The illustration below was done by IRIS International (Van den Berg and Botha, 2022).



Geology and Soils

From the soil initial study of the Soventix SA Solar PV project at various study areas by Van den Berg (2017), as shown by the above map, followed by soil surveys in 2021 and 2022 (Van den Berg and Botha, 2022) the following information has become available.

A total of 12 ecological units have been identified, based on geology, soil texture and depth. These were:

- 1. Class 1. Sandstone outcrops,
- 2. Class 2. Dolerite outcrops,
- 3. Class 3. Very shallow yellow brown loamy soils,
- 4. Class 4. Very shallow yellow brown clayey soils,
- 5. Class 5. Very shallow red loamy soils,
- 6. Class 6. Very shallow red clayey soils,
- 7. Class 7. Shallow to medium deep yellow brown loamy soils,
- 8. Class 8. Shallow to medium deep yellow brown clayey soils,
- 9. Class 9. Shallow to medium deep red loamy soils,
- 10. Class 10. Shallow to medium deep red clayey soils,
- 11. Class 11. Structured shallow soils.
- 12. Class 12. Structured medium deep soils.

It must be noted that the Bottomlands with ephemeral drainage lines did not form part of the previous two studies (2017 and 2021) but this ecological unit is included in the 2022 study. So, another ecological unit is now also applicable, i.e.: 13. Bottomlands with ephemeral drainage lines.

Vegetation and Veld Condition

The vegetation at the study area (Phase 2 and 3) is classified as Northern Upper Karoo - Vegetation unit NKu 3, Mucina and Rutherford (2006). According to Acocks (1988) it is in Veld Type 36, i.e., False Upper Karoo. This is described as flat and gently sloping plains, interspersed with hills and rocky areas, with grasses such as *Aristida* and *Eragrostis* species that dominate.

Five easily recognisable veld condition states (Trollope et al, 1990 in Esler, 2010) are described for the Karoo – severely degraded, poor, intermediate, good and excellent (Esler *et al*, 2010). In the 2017 and 2021 studies the two extreme states, i.e., severely poor, and excellent, have been under-represented.

2. METHODS

A total of 13 fixed points (illustrated as red bullet points) were stratified within the study area for the evaluation for grass composition and grass basal cover (as reflected from point to tuft distance). These veld condition assessment sites were envisaged to represent the general variation with veld condition, which are stratified to be within the 400MW Phase 3 project, except for one point, Site 38, that is within the 300MW Phase 2 project. This stratification was for the purpose of providing grazing management guidelines.



Locality of the 2022 veld condition assessment points (zoomed out, in red) north of Hanover and southeast of De Aar, Northern Cape, SA.



Distribution of 2022 veld condition assessments (Sites 26-37) within the 400MW Phase 3 project. Site 38 is within the 300MW Phase 2 project.



Distribution of veld condition assessment points as illustrated in 2017 and 2021 reports, now covering three different years:

The south-western part of the map represents assessments in 2017 (Sites 1-20) and 2021 (Sites 21-25).

The north-eastern side of the map represent adjacent assessments of 2022 (Sites 26-38).

<u>Note</u>: Precise delineation and amendments of the three phases has since been updated, as provided in the figure inserted at Par 1.1 above of this report.

Soil classification by Van den Berg & Botha (2022) followed the Taxonomic Classification System, to soil form level, for each grazing assessment (MacVicar CN (ed.) (1991)).

Point sampling followed the method of Du Toit (1997) of all plant species along 50-meter lines. Bossie density assessments were within plots of 50m x 2m. Line transects formed the basis to document species lists of grasses and bossies, frequency abundance of perennial grasses and bossies and the bossie canopy cover (%). Total counts of density were within the 100m² area at each site. The grazing index value and veld condition index was determined. Grazing capacity relied on information from the veld condition index method. Annual and perennial grass tuft distance observations formed the basis of estimation of basal cover.

Sampling for grass composition, tuft distances and species richness were at one-meter intervals (nearest perennial tuft distance to monitoring rod).

A photo of the veld at each veld condition assessment point is available representing the condition at each assessment (See appended site reports).

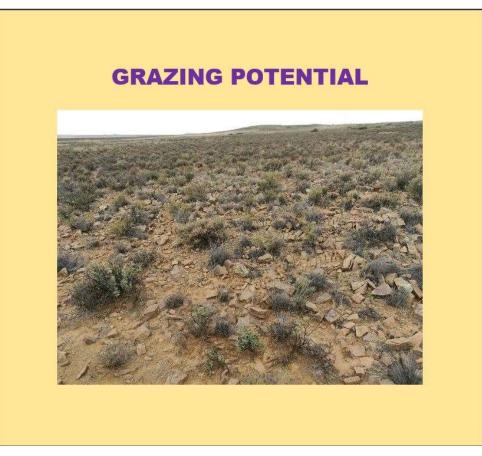
It illustrates the condition at the monitoring point at the time when the survey was conducted for each of the 13 survey points.

The detailed results are available in the appended tables, showing frequency abundance and density of the non-grass component and the proportions of grass species in the survey within Decreasers and Increaser categories (Tainton, 1988 and Tainton, 1999), as well as on a degradation axis of the Integrated System of Plant Dynamics (Bosch and Booysen, 1992). The grazing gradient on the ISPD axis will be valuable for longer term monitoring purposes, to reflect future trends in veld condition. Veld condition trends include the composition and abundance of the grass layer component, as well as that of the bossie component. ISPD Grazing models had been refined since the previous assessments in 2017.

Management and veld condition will over time therefore be linked by following the trends on an ISPD grazing gradient (or degradation axis) (Bosch (1989) and Bosch and Gaugh (1991).

3. RESULTS AND DISCUSSION

3.1. Grazing Potential



Rainfall is not only the only factor affecting vegetation quantity and composition (Esler et al, 2010). Large fluctuations in veld condition and therefore also in grazing capacity can be expected over years. Differences in grazing capacity have been observed also on a spatial level within the study area. Even within similar topography and soil conditions the veld condition would be envisaged to differ within the same veld condition assessment of January 2017.

Results from De Wet (2017) and Van den Berg (2017) were studied and applied to obtain ecological and grazing units*. The 2022 information from geology, soils and land terrain have been applied to the baseline study in 2017. Grazing management guidelines will therefore consider the soil as an important basis. Rainfall drives species dynamics and veld condition, and it is important and has been considered.

Geology and land terrain position, together with soil depth and texture affect grazing potential.

The following follows directly from the soil map which is now available for the study area (Van den Berg, 2017): For <u>grazing potential</u> purposes, the landscape at the study area represents five main ecological zones., i.e.:

- GRAZING UNIT I: (Sites 21, 29 & 30). Medium deep soils at lower parts of the catena, including soils with lime present (i.e., Hutton, Oakleaf, Gamoep, Addo, Augrabies soils. It also includes Valsrivier soils).
- GRAZING UNIT II: (Assessed in 2017): Shallow to slightly deeper structured soils (i.e., unit dominated by Swartland soils). Unfortunately, no surveys were done in 2022 representing this specific grazing unit.
- GRAZING UNIT III: (Sites 27, 30, 33, 35, 36 & 38). Shallow soils (i.e., Mispah and Glenrosa soils).
- GRAZING UNIT IV: (Sites 26 & 33). Koppies of sandstone and dolerite. (i.e., outcrops and Mispah soils).
- GRAZING UNIT V: (Sites 28 & 37). Bottomlands with ephemeral drainage lines.

	GRAZING UNITS	GRAZING CAPACITY RANGE	2022 GRAZING CAPACITY	MEDIAN GRAZING CAPACITY
1.	G.U. I (Soils at lower part of catena)	5-25 ha/LSU	13.1 ha/LSU	15 ha/LSU
2.	G.U. II (Structured / Swartland soils)	10-30 ha/LSU	Not assessed	20 ha/LSU
3.	GRAZING UNIT III (Shallow soils)	15-55 ha/LSU	18.6 ha/LSU	35 ha/LSU
4.	GRAZING UNIT IV (Koppies)	20-90 ha/LSU	19.8 ha/LSU	55 ha/LSU
5.	GRAZING UNIT V (Bottomlands with ephemeral drainage lines)	10-25 ha/LSU	16.9 LSU	17 ha/LSU

Note: The *mean* (average) grazing capacity, as illustrated by the "2022 Grazing Capacity" in the table above, is found by adding all the grazing capacity figures in the data set (in this case the grazing unit) and dividing it by the number of sites assessed (in the grazing unit). The *median* is the middle value from a data set sorted from smallest to greatest.

The "Grazing Capacity Range" in the table above provides extreme limits in potential grazing capacity based on rainfall variability. In the long term these limits must be refined from more quantitative data.

In the baseline data set of 2017 the range was determined for each of the grazing units, using guidelines from the Department of Agriculture and subjective knowledge (personal experience and consulting to neighbouring farmers).

A general guide on stocking rate from the Department of Agriculture is provided and was taken into account (see figures with info on grazing capacity provided on p.17 and p.21 in this report).

The grazing capacity range is based on *mean* values, determined from veld condition data from that below average rainfall year, but projected then already in 2017, to make provision for better rainfall years.

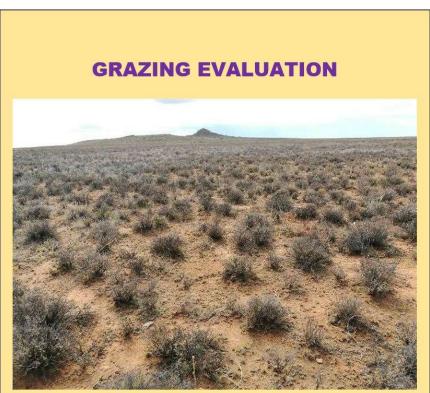
- 10 ha/LSU was used as a variation from the mean with Grazing Unit I;
- 20 ha/LSU for Units II and III and
- 30 for Grazing Unit IV.
- Grazing Unit V had been provided an almost similar projection in range as estimated for Grazing Unit II after 2022 field data was sampled.

Median grazing capacity values have been applied to the ecological units, or broader patterns delineated on the maps from Van den Berg (2017) that considers geology, soils, and landscape position. These are:

- Grazing Unit I, with medium deep soil at lower parts of the catena, has a median grazing capacity of 15 ha/LSU.
- Grazing Unit II, with shallow to slightly deeper structured soils, has a median grazing capacity of 20 ha/LSU.
- Grazing Unit III, with shallow soils has a median grazing capacity of 35 ha/LSU.

- Grazing Unit IV, of the koppies of sandstone and dolerite, has a median grazing capacity of 55 ha/LSU. The
 mean grazing capacity for this grazing unit is slightly below the proposed minimum range, which suggest
 adaption on the range may be required in near future, but that said, the recent rains were of the highest
 recorded in a long time.
- Grazing Unit V, Bottomlands with ephemeral drainage lines, has a median grazing capacity of 17 ha/LSU.
- <u>Bottomlands with ephemeral drainage lines have been included with the 2022 grazing evaluation.</u> Two sites (Sites 28 & 37 represented by Valsrivier and Tukulu soils, ranging between 10 and 25 ha/LSU.)

A large variation in veld condition is observed within the above-mentioned grazing units. The number of veld condition assessment points do not cover all the variation envisaged within a given time. A spatial illustration of veld condition within the grazing management units is therefore not possible. Although the classification within the five grazing management units considers soil form and terrain, it may include sampling points outside the classification (a rare deviation), with sub-dominant soils classified and lumped into the grazing units. ISPD-models (illustrated within the appended Site Reports) are more specific to include data sets of similar soils. It follows the ecological units more strictly though.



3.2. Grazing Evaluation

Bossies and grasses:

The results of the findings for specific points or sites are available in the appended site reports, which have photos taken from the assessment point and Google Earth images. The detailed info of the vegetation (grass and bossies) is available on appended tables, reflecting grass and Karoo plant composition and cover. Grazing capacity and management recommendations are included.

The veld condition index values obtained from the results were overlain on Landsat images for the study area. The veld condition index zones have been illustrated on the appended on a map in 2017 into three classes, i.e., "Good" (median range 185-238), "intermediate" (median range 105-187) and "poor" (median range 66-147), with a classification reflecting good, intermediate, and poor values relative to the results of the 2017 assessment, not relative to the potential. However, two more veld condition states, severely degraded (median range less than 66) and excellent (median range more than 238) have not yet been included but is now included in the 2022 study.

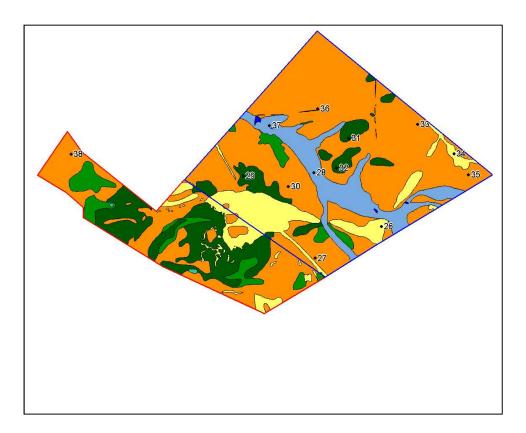
It must be born in mind that veld condition reflects both rainfall and current management (and other factors discussed above). Veld condition classes from Trollope (1990) and Tainton (1988) are compared to the Ecological Index (Du Toit, 1997). The methods from Trollope / Tainton exclude the bossie component, but the ecological index *includes* the bossie component, as an important factor with forage availability and is therefore applied to the grazing units.

Site number	Ecological Index	Ecological Index range (Du Toit, 1997)	Trollope et al (1990)	Tainton (1988)
26.	266.2	>238 = Excellent	Intermediate	Overgrazed
27.	201.4	185-238 = Good	Intermediate	Overgrazed
28.	229.8	185-238 = Good	Intermediate	Overgrazed
29.	174.2	105-187 = Intermediate	Poor	Overgrazed
30.	334.6	>238 = Excellent	Intermediate	Overgrazed
31.	221.1	185-238 = Good	Intermediate	Overgrazed
32.	205.4	185-238 = Good	Intermediate	Overgrazed
33.	236.9	>238 = Excellent	Intermediate	Overgrazed
34.	136.9	66-147 = Poor	Poor	Overgrazed
35.	234.0	>238 = Excellent	Intermediate	Overgrazed
36.	198.5	185-238 = Good	Poor	Overgrazed
37.	195.9	185-238 = Good	Poor	Overgrazed
38.	103.6	66-147 = Poor	Severely degraded	Severely overgrazed

No.	VELD CONDITION Zone	Grazing Units 2022 & Ecological Index	Ecological Index Range	Median Ecological Index
1.	EXCELLENT	Most of G.U.3 (Phase 3)	>238	254.0
2.	GOOD	G.U. 1 and 3 (Phase 3)	185-238	211.5
3.	INTERMEDIATE	Grazing Unit 1 (Phase 3)	105-187	146.5
4.	POOR	G.U. 3 (Phase 2) G.U. 4 (Phase 3)	66-147	106.9
5.	SEVERELY DEGRADED	None	<66	32.5

The results from April 2022 reflect veld conditions reflected relative better conditions than what were observed in 2017, mostly from the lusher vegetation and an abundance of flowering plants observed in April 2022, which were due to good rains received. Bare ground, however, was still present (but annual grasses started to fill these bare ground areas). The grass species richness was still low. Veld condition should include bossies, but without the bossie contribution, the veld condition of the grass layer itself is mostly intermediate at the best, although poor and severely degraded conditions have been observed.

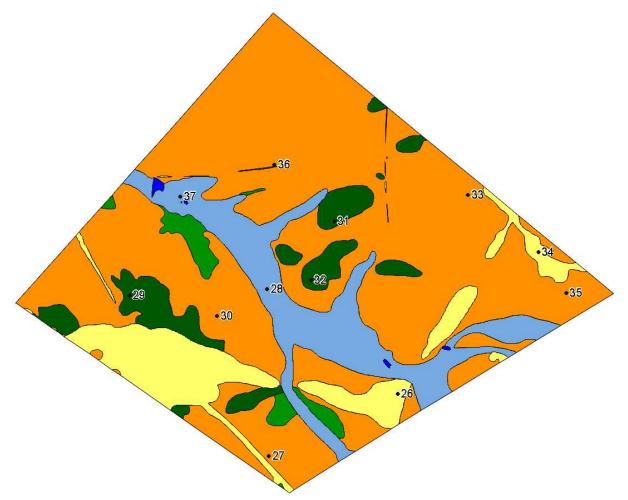
Grazing units, as prepared by Van den Berg and Botha (2022) are spatially illustrated within Phase 2 and 3 development areas on the map below. The Phase 3 area is delineated by the blue boundary and the Phase 2 area by the red delineation. VCA sites are indicated as black dots.



Legend

COLOUR	NO	GRAZING UNITS
	1	G.U. I (Soils at lower part of catena)
	2	G.U. II (Structured / Swartland soils)
	3	GRAZING UNIT III (Shallow soils)
	4	GRAZING UNIT IV (Koppies)
	5	GRAZING UNIT V (Bottomlands with ephemeral drainage lines)
	6	Permanent wetland - artificial
	7	Water

The map below shows only the grazing units of the Phase 3 area. VCA sites are indicated as black dots. The map below was also distributed inside an A0 map composition together with the other A0 maps from the soils report. The updated grazing units of Phase 2 (the inclusion of the extension area) and the Phase 3 grazing units were distributed with the GIS data of the soils report (Van den Berg & Botha (2022)).



Legend

COLOUR	NO	GRAZING UNITS
	1	G.U. I (Soils at lower part of catena)
	2	G.U. II (Structured / Swartland soils)
	3	GRAZING UNIT III (Shallow soils)
	4	GRAZING UNIT IV (Koppies)
	5	GRAZING UNIT V (Bottomlands with ephemeral drainage lines)
	6	Permanent wetland - artificial
	7	Water

Area calculation of map units for Phase 2.

NO	GRAZING UNITS	GRAZING CAPACITY RANGE	2022 GRAZING CAPACITY	%	AREA (ha)
1	G.U. I (Soils at lower part of catena)	5-25 ha/LSU	13.1 ha/LSU	32.9	180.2
2	G.U. II (Structured / Swartland soils)	10-30 ha/LSU	Not assessed	12.3	67.5
3	GRAZING UNIT III (Shallow soils)	15-55 ha/LSU	18.6 ha/LSU	44.8	245.4
4	GRAZING UNIT IV (Koppies)	20-90 ha/LSU	19.8 ha/LSU	9.8	53.7
5	GRAZING UNIT V (Bottomlands with ephemeral drainage lines)	10-25 ha/LSU	16.9 LSU	0.0	0.0
6	Permanent wetland			0.2	1.2
7	Water			0.0	0.0
	Total			100.0	548.0

Area calculation of map units for Phase 3.

NO	GRAZING UNITS	GRAZING CAPACITY RANGE	2022 GRAZING CAPACITY	%	AREA (ha)
1	G.U. I (Soils at lower part of catena)	5-25 ha/LSU	13.1 ha/LSU		
				6.7	79.1
2	G.U. II (Structured / Swartland soils)	10-30 ha/LSU	Not assessed		
				2.2	25.7
3	GRAZING UNIT III (Shallow soils)	15-55 ha/LSU	18.6 ha/LSU	65.9	774.9
4	GRAZING UNIT IV (Koppies)	20-90 ha/LSU	19.8 ha/LSU	11.4	134.0
5	GRAZING UNIT V (Bottomlands with	10-25 ha/LSU	16.9 LSU		
	ephemeral drainage lines)			13.6	160.2
6	Permanent wetland			0.0	0.0
7	Water			0.1	1.6
	Total			100.0	1175.5

Bossies (excluding grasses):

Information on the abundance and density of all species over all the 13 sites. The information derived was relative measures, i.e., abundance of any individual species expressed as a percentage of the total number of species present in the community. In the assessment of frequency, the sampling of abundance of species focussed on the individual of species counted, instead of noting their presence of absence.

The abundant species are, in order of *abundance*:

	Bossies (Name of the plant species)	
1	Pentzia incana Ankerkaroo	
2	Pentzia globosa Vaalkaroo	
3	Eriocephalus ericoides Kapokbos	
4	Pteronia cf glauca Geelboegoekaroo	
5	Felicia muricata Bloublommetjie	
6	Phymaspermum parvifolium Witheuningkaroo	
7	Ruschia intricata (Eberlanzia ferox) Doringvygie	
8	Eriocephalus spinescens Doringkapok	
9	Caroxylon tuberculatum (Salsola tuberculata) Blomkoolganna	
10	Asparagus glauca Bloukatdoring	
11	Oedera humilis (Rosenia humilis) Perdekaroo	
12	Amphiglossa triflora (Pterothrix spinescens) Voeltjie-kan-nie-sit-nie	
13	Roepera incrustata Witkriedoring	
14	Moraea pallida Yellow Tulp / Geel Tulp	
15	Euryops asparagoides Bultdraaibos	
16	Lycium cinereum Kriedoring	
17	Gorteria alienata (Hirpicium alienatum) Haarbossie	
18	Selago geniculata Persaar	
19	Berkheya spinosa Vlaktedissel	
20	Lycium sp.	
21	Helichrysum lucillioides Kerriebos	
22	Unidentified (Vygie species)	
23	Monsonia salmoniflora Boesmanskers	
24	Pteronia sordida Swartboegoe	
25	Boophane disticha (Gifbol)	
26	Phaeoptilum spinosum Brosdoring	
27	Unidentified species (Bossie 1)	

The species below are listed in order of high, to low *density*:

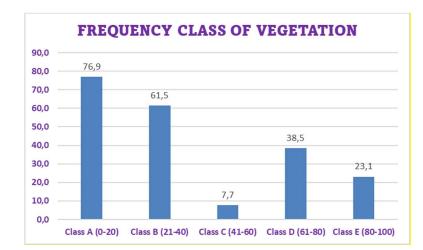
	Bossies (Name of the plant species)			
1	Pentzia incana Ankerkaroo			
2	Eriocephalus ericoides Kapokbos			
3	Ruschia intricata (Eberlanzia ferox) Doringvygie			
4	Felicia muricata Bloublommetjie			
5	Phymaspermum parvifolium Witheuningkaroo			
6	Pentzia globosa Vaalkaroo			
7	Eriocephalus spinescens Doringkapok			
8	Asparagus glauca Bloukatdoring			
9	Pteronia cf glauca Geelboegoekaroo			
10	Caroxylon tuberculatum (Salsola tuberculata) Blomkoolganna			
11	Roepera incrustata Witkriedoring			
12	Moraea pallida Yellow Tulp / Geel Tulp			
13	Oedera humilis (Rosenia humilis) Perdekaroo			
14	Selago geniculata Persaar			
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24	Monsonia salmoniflora Boesmanskers			
25	Boophane disticha (Gifbol)			
26	Phaeoptilum spinosum Brosdoring			
27	Unidentified species (Bossie 1)			

Raunkier's Test for heterogeneity: The results from study show that vegetation is not heterogeneous in nature from the class frequency pattern suggested by Raunkier*. It does not fit the formula of Raunkier. See frequency classes of bossie vegetation, as illustrated below:

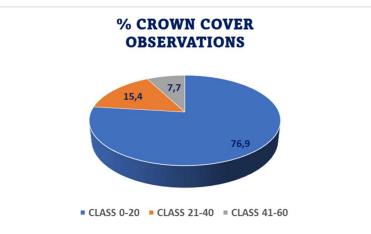
* Raunkier's value: Frequency class A = 53%; Frequency class B = 14%; Frequency class C = 9%; Frequency class D = 8% and Frequency class E = 16% (from Fatima, 2017).

With Raunkier's Formula A>B>C<D<E.

	Class values	2022	Raunkier's value
Α	Class A (0-20)	76,9	53
В	Class B (21-40)	61,5	14
С	Class C (41-60)	7,7	9
D	Class D (61-80)	38,5	8
Е	Class E (80-100)	23,1	16

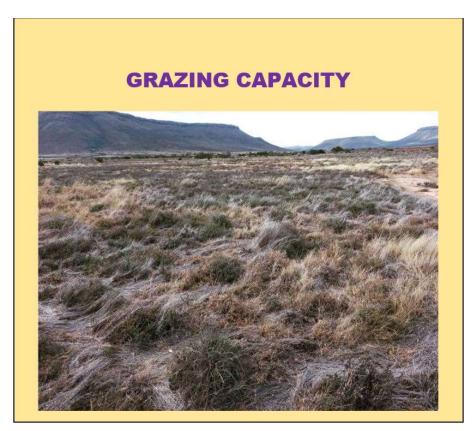


Crown Cover:

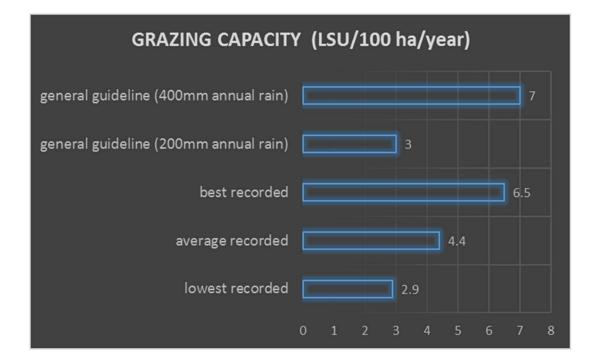


76.9% of the observations of vegetation crown cover recorded were within the percentage cover class below 20% cover. 15.4% of the of observations were in crown cover of 21-40%. A smaller percentage of observations were within the 41-60% crown cover class.

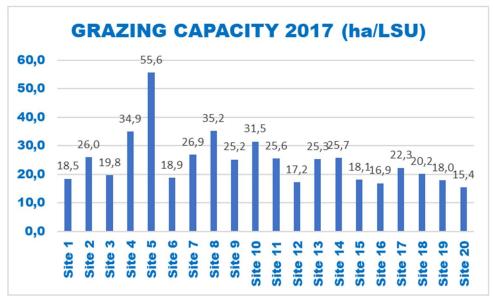
3.3. Grazing Capacity



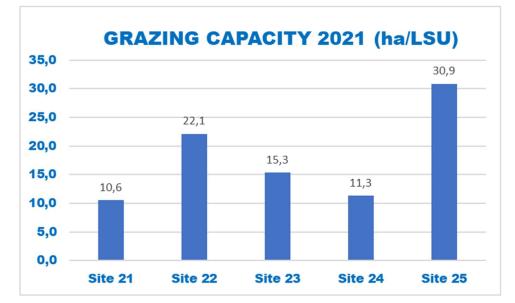
Current grazing capacity is expressed as LSU/100ha/year below. It is based on the results from the evaluation of an earlier study on the general area (on the farm Goedehoop (De Bad) of this study area (De Wet, 2017).





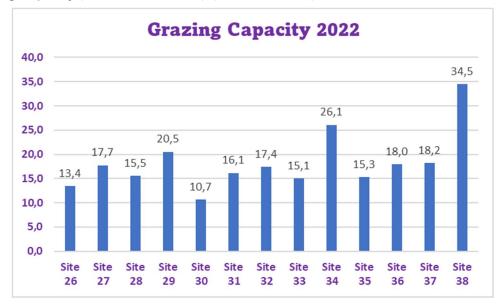


A grazing capacity illustrated above applies to below-average rainfall conditions in 2017. The grazing capacity related to between 15 and 17 ha/LSU at better veld conditions, or an average of just less than 23 ha/LSU over all veld conditions in the study area in 2017.



2021 Grazing Capacity (this is applicable to the Phase 1 area):

The grazing capacity for 2021 varied between 10.6 and 30.9 ha/LSU. The average grazing capacity for the area studied in 2021 was 18.04 ha/LSU. It was an <u>improvement</u> compared to the 2017 assessments. It must be noted that rainfall was significantly higher in 2020 and 2021 compared to 2017.



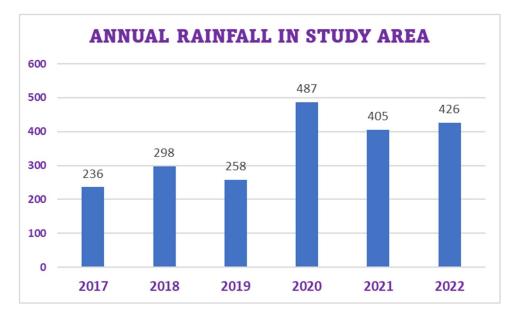
2022 Grazing Capacity (Phase 3 – Sites 26-37); (Phase 2 – Site 38):

The average grazing capacity for the 13 assessments of the area studied in 2022 is 18 (17.6) ha/LSU.

Within the Grazing Units, more specifically in 2022, the average grazing capacity is

- 13.1 ha/LSU at Lower parts of the catena at Grazing Unit 1,
- 18.6 ha/LSU at Shallow soils of slopes at Grazing Unit 3,
- 19.8 ha/LSU at Koppies, represented by Grazing Unit 4 and
- 16.9 ha/LSU at the Bottomlands with ephemeral drainage lines, represented by Grazing Unit 5.

Rainfall in study period (2017-2022)



Rainfall figures above reflect precipitation for the larger study area over the period 2017-2022 for May previous year to April current year. These have been made available by Mr Willem Retief, from the farm De Bad (Goedehoop).

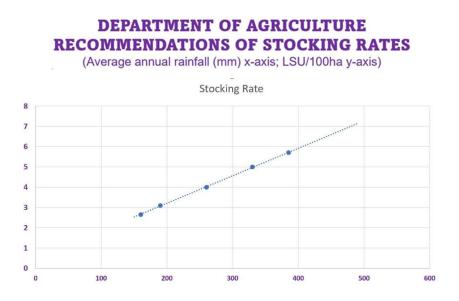
The study in 2022 represent an area adjacent to the area studied in 2017 and is based on vegetation responses from higher rainfall received within this area.

However, under drier conditions the following quantitative information would be applicable:

A grazing capacity as reflected for below average rainfall conditions in 2017, was between 15 and 17 ha/LSU at better veld conditions, or an average of just less than 23 ha/LSU over all veld conditions in the study area in 2017. This is slightly less conservative than recommended by Department of Agriculture, for a stocking rate correlating to a grazing capacity of 28 ha/LSU would have been applicable.

A potential grazing capacity for the general area within all the areas assessed (Phase 1, 2 and 3): If sheep were the only grazers animal included in the estimation of stocking rates, it would have translated (for drought conditions) into less than 20 sheep on 100ha, or an average of approximately 4 LSU/100ha, i.e., applicable for below average rainfall conditions (i.e., 250mm per annum).

The stocking rates for sheep proposed in 2017 corresponded well (although being slightly less conservative) with the guidelines (from Esler et al, 2010) recommended by the Department of Agriculture. See figure below.



A rainfall of 426mm in 2022 allows for a 56.5% increase in the stocking rate (6.2 LSU/100ha/Year) since 2017, but it must be kept in mind the comparison is not of the same survey points (2017 study in adjacent part of the farm Goedhoop (De Bad)).

3.4. Grazing management recommendations



Sheep currently mostly utilizes the grazing. However, all grazers present on the study area should be included when the current grazing capacity is applied.

Regenerative grazing management is strongly recommended. This will improve the grass basal cover, improve the water cycle, ensure organic accumulation on soil surface that will enhance the mineral cycle and improve the water holding capacity of the soil, ensure minimal temperature fluctuations in the soil and improve the grass composition and forage production potential of the grass layer. The controlled impact of hooves will ensure improvement of the Carbon cycle, also from trampling grasses in moribund state ("taller unpalatable, woody grasses, with vertical growth form and unfavourable structure for grazers will become beneficial to cover bare ground through ultra-high density grazing strategies.

Grazing management should be including the strict use of holistic management grazing charts, where the number of animal days per camp are estimated, based on the grazing capacity at each camp. Removal of sheep at the critical time, before end of winter should be included in the grazing management to prevent deterioration in animal condition and to allow time to reassess herd composition, based on the productivity from the past months. Overgrazing or continuous grazing in areas should be prevented by planned resting. Time management per camp is essential.

In addition to removing grazers when available forage reserves become low, towards the end of winter, it is also recommended to include resting of camps for periods up to 12 months, at a frequency of once every four years. This will assist to improve recovery of forage reserves and allow for grass seeding and establishment of Decreaser grasses, which will result in an improvement in grass production potential. Sound management will improve the grass and bossie components with important forage species.

This recommendation applies to all the camps. Planned resting should be carefully controlled while monitoring veld condition. It is especially important not to let any area be excluded from grazing as this will inevitably result in degradation in veld condition and in soil erosion.

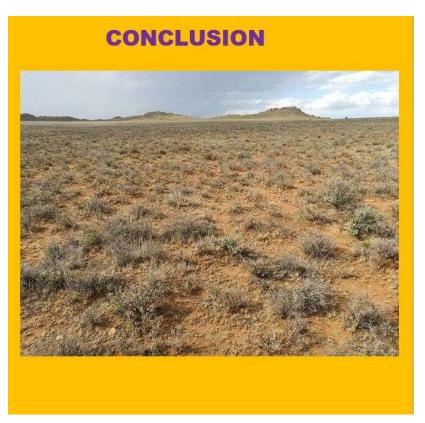
MANAGEMENT	IMPACT ENVISAGED	ASSOCIATED MITIGATION & NOTES
CHALLENGES		
Well managed areas	Minimal negative impacts - Grass in Phase 2	Minimal. Use regenerative grazing management
	stage.	plans – implement scheduled grazing days and
		strategic removal of grazers **.
All veld conditions	Various	Apply annual monitoring of veld condition and veld
		condition trends, estimate current grazing capacity
		and adapt grazing management accordingly.
Under grazing	Phase 3 growth stage*	Ultra-high density grazing & kraaling at selected
	(Woody / unpalatable grass).	areas, followed by controlled recovery periods.
Under grazing	Absence/ low organic material layer on soil	Ultra-high density grazing & kraaling at selected
	surface due to* relative tall grass structure.	areas, followed by controlled recovery periods.
Under grazing	Shading effect from* relative tall unpalatable	Ultra-high density grazing & kraaling at selected
	grass (Phase 3 grass growth stage).	areas, followed by controlled recovery periods.
Under grazing	Poor grass basal cover (deterioration from	Ultra-high density grazing & kraaling at selected
	under grazing).	areas, followed by controlled recovery periods.
Under grazing	Sheet erosion (onset of poor veld condition)	Regenerative grazing.
	from larger perennial tuft distances from* a	
	dominance of vegetation in Phase 3 growth	
	stage.	
Over/under grazing	Donga erosion (severely degraded) –	Fix increased origin/ water run-off at upper slopes,
	mismanagement from passive management/	where drainage starts & apply kraaling (i.e., short
	overprotection (incl. poor time control with	duration trampling & over-night occupancy/patches
	overgrazing).	allow depositions of manure & grass seed).
Under grazing	Desertification (severely degraded).	Kraaling (Short duration trampling & over-night
		occupancy of patches to allow depositions/manure
		and grass seed).
	Soil capped/ hard surface layer.	Kraaling (Short duration trampling & over-night
		occupancy of patches to allow depositions/manure
		and grass seed).
	-	

Overgrazing	Grass in Phase 1 growth stage – very low	Improve time control with grazing by shortening
	grass cover and dominance of bossies. A	grazing period whilst allowing for relative high
	change in grass species composition to a	stocking rates, followed by controlled recovering
	dominance of annual grasses envisaged.	periods.
	Decrease/ forage production by relative low	Improve time control with grazing by shortening
	abundance of perennial grasses.	grazing period whilst allowing for relative high
		stocking rates, followed by controlled recovering
		periods.
	Minimal organic material on soil surface.	Improve time control with grazing by shortening
		grazing period, whilst allowing for relative high
		stocking rates, followed by controlled recovering
		periods.
	Poor grass basal cover/ erosion.	Improve time control with grazing by shortening
		grazing period whilst allowing for relative high
		stocking rates, followed by controlled recovering
		periods.
	Abundance non-grass component increase:	In addition to above (time control), apply UHDG
	bossies / weedy forbs.	(kraaling & trampling) followed by controlled rest.

** More information available from grazing management courses at the **Herding Academy**, Graaf-Reinet

(Roland Kroon & Johan Bouwer - Roland +27 82 883 2710 / Johan +27 82 776 0257).

3.5. Conclusion



- 1. The grazing capacity and veld condition based grazing management guidelines are provided, applicable to the boundaries within the 2022 study area.
- 2. From the two studies, i.e., therefore within the period 2017 (covering most of Phase 2) to 2022 (Phase 3 and the extension area of Phase 2), there could be a quest to make a comparison in veld condition over this time and to make the conclusion that there has been improvement in the grazing capacity. However, this can strictly speaking not be done unless the same areas are compared in 2017 and in 2022, which was not done, for reasons highlighted below.
 - It is essential to note that the 2017 grazing assessments reflected drought conditions (rainfall below- average recorded; *pers. comm* Willem Retief, landowner) and the points where the grazing capacity had been assessed differ from the points where the grazing capacity was assessed in 2022 (although, just one point of the 2017 survey falls in the Phase 2 area). It did therefore not include the Phase 3 area in 2017, which then were evaluated later, in 2022.
 - Similarly, the 2022 grazing assessments did not cover the same area which was covered in 2017 and the veld condition reflected in 2022 a response of the vegetation on higher rainfall compared to the 2017 assessments (rainfall figures of 2017 to 2022 provided in this report).
- 3. A reasonable and very general conclusion could be made that the grazing capacity improved when the rainfall improved, but then again, there is no linear correlation that would enable one to generalize or to merely extrapolate due to soils and the different response of vegetation envisaged to rainfall (and grazing) on different soils. E.g.:
 - On deeper clayey soils (e.g., veld underlain by Pedocutanic clays, i.e., the Swartland soil form) resilience of the veld could be higher (if there had not already been topsoil erosion), so it is envisaged that the recovery in veld condition and improved grazing capacity with the application of rest and under higher rainfall conditions would be faster.
 - On shallow and sandy loam soils (i.e., shallow rocky soils) the recovery is envisaged to be slower, and the resilience is therefore not expected to be as good as that of the deeper clayey soils. It is therefore essential to

follow management guidelines in this report, to prevent loss in vegetation cover (grass basal cover) and consequently accelerated soil erosion.

4. When using geology and soils over the whole study area, regardless the before-mentioned points, representing the average grazing capacity for the study area, the following very general guidelines would apply to:

zones., i.e.:

- GRAZING UNIT Т = Medium deep soils at lower parts of the catena. including soils with lime present (i.e., Hutton, Oakleaf, Gamoep, Addo, Augrabies soils. It also includes Valsrivier soils). The average (mean) grazing capacity was 13.1 ha/LSU and varied between 5.8 ha/LSU to 17.4 ha/LSU (three points assessed in 2022).
- GRAZING UNIT II = Shallow to slightly deeper structured soils (i.e., unit dominated by Swartland soils). Unfortunately, no surveys were done in 2022 representing this specific grazing unit. From 2017 it was concluded that the grazing capacity varies between 10 and 30 LSU/ha.
- GRAZING UNIT III = Shallow soils (i.e., Mispah and Glenrosa soils). The average grazing capacity was 18.55 ha/LSU and varied between 10.7 ha/LSU to 34.5 ha/LSU (six points assessed in 2022).
- GRAZING UNIT IV = Koppies of sandstone and dolerite. (i.e., outcrops and Mispah soils). The average grazing capacity
 was 19.75 ha/LSU and varied between 13.4 ha/LSU to 26.1 ha/LSU (two points assessed in 2022; three points were
 assessed in 2017, with a much larger variation in drought, that ranged up to 90 ha/LSU).
- GRAZING UNIT V = Bottomlands with ephemeral drainage lines. The grazing capacity was 16.9 ha/LSU (two points assessed in 2022).

Agricultural Compliance

From a grassland ecological perspective, the opinion is that the current planned development (and the cumulative effect of 30km from other PV-projects), will not have a significant impact on the determined potential grazing potential, reflected from the baseline study in 2017 and not from the current grazing capacity reflected from the 2022 study. This opinion comes with an important condition, that the above-mentioned guidelines are applied. Furthermore, of the management guidelines are not followed in this report, it is envisaged that further deterioration in grass basal cover will occur, associated with increased bare ground and accelerated soil erosion, and it is envisaged that the potential impact from the planned development would then also need to be considered and be mitigated for. The effects of enhanced soil erosion in the case of rangeland mismanagement and the effects of increased runoff and sediment load downstream, in relation with other PV developments within 30km downstream, are quantified in the soil report (Van den Berg and Botha, 2022).

No significantly negative impact on the grazing potential and production potential of forage is envisaged from the sun panels itself. This includes development at all the phases (i.e., Phase 2 and 3) if the presence of structures won't exclude grazing and active grazing management.

In the context of the development being in the Karoo, which is known to be in a brittle environment, the exclusion from grazing by grazers (i.e., unplanned resting or the removal of sheep and cattle) will result in desertification, for it will have a negative effect on grass basal cover, which would result in erosion, with a subsequent loss in grass production, grass species richness and plant diversity.

Please note:

It is known that the total exclusion of grazers in such environments will be detrimental to maintaining important ecological processes such as the energy cycle, mineral cycle, and water cycle.

Mismanagement through selective grazing and uncontrolled grazing and resting will affect Agricultural potential negative though.

There are examples of veld improvement and the restoration of degraded veld under holistic or regenerative grazing under the following management, where high stocking densities are applied within short periods, followed by planned rest (under time control).

The following recommendations are made:

- 1. The grazing management should therefore be allowed with the solar Photovoltaic facility construction at all the camps affected through this development.
- 2. With the construction and preparation to erect the solar panels, special care should be to maintain current vegetation undisturbed, as far as possible, i.e., not to disturb the topsoil surface due to erosion risk and to maintain vegetation cover as far as possible. This recommendation applies to all phase developments.
- 3. Follow-up grazing assessments and annual monitoring of veld condition is recommended to record veld condition and grazing capacity under different rainfall conditions.

4. ACKNOWLEDGEMENTS

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- Roland Kroon and Johan Bouwer, from the Herding Academy at Graaf-Reinet for illustrating the implementation of regenerative grazing relative to arid and brittle environments present in the context of grazing management in the Karoo.

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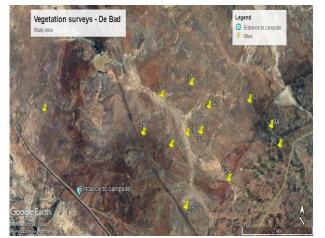
APPENDIX A

Site Reports

(summary from veld condition tables below, including photo of terrain, position on Google Earth image, veld condition and forage quality as projected on a degradation axis (ISPD-model).



VELD CONDITION ASSESSMENT SITE REPORT – 2022 (SEE ATTACHED TABLE)



GOOGLE IMAGE OF THE FOCUS AREA



GOOGLE IMAGE OF THE SITE 30° 50' 37,8" 24° 22' 10.8"

		24° 22' 10,8"
AREA	De Bad - Soventix	
AREA NUMBER GRAZING UNIT NUMBER	Phase 3 GU-4	The second secon
SITE NUMBER	Site 26	The second se
VELD TYPE – ACOCKS	VT 36 - False Upper Karoo	a start and the second start and the
VELD TYPE – MUCINA & RUTHERFORD	Nku 3 - Northern Upper Karoo	
GEOLOGY AND SOIL FORM	Dolerite - Glenrosa	
DATE VISITED	10/04/2022	10/04/2022
GRASS SPECIES RICHNESS ((Number of grass species per 100 m ²): High is = >15 spp, Low< 10 species)		5 species (7 incl. <1% species) = Low
DOMINANT GRASS SPECIES (FREQUENCY ABUNDANCE) (% on total grasses)		 Eragrostis lehmanniana (Lehmann's Love Grass) – 76% Aristida adscensionis (Eenjarige steekgras) – 16% Aristida diffusa (Iron Grass) – 6%
AVERAGE GRASS TUFT DISTANCE (Soil erosion potential: Low is ≤5 cm, Medium >5-10 cm & High > 10cm)		5.9 cm = Low
VEGETATION CROWN COVER (% Soil covered)		11 - 20%
DOMINANT BOSSIE SPECIES (contributing to above)		Geelboegoekaroo (25%) & Ankerkaroo (17%)
PLANT SPECIES RICHNESS ((Number of bossies and grass species per 2500 m ²) High is = >60 spp, Low< 20 species)		13 species (15 incl. <1% species) = Low
VELD CONDITION (according to Trollope, et.al. 1990)		INTERMEDIATE
VELD CONDITION (according to Tainton, 1988)		OVERGRAZED
VELD CONDITION TREND		This is baseline data, no trend can be established yet.
VELD CONDITION INDEX TOTAL / ECOLOGICAL INDEX		2.02 / 266.2 (EXCELLENT)
GRAZING CAPACITY in ha/LSU (Du Toit Method) = 500/VCI Total x Regression value (7.14)		13.4 ha/LSU

APPLY REGENERATIVE GRAZING PRINCIPLES ACCORDING TO STOCKING GUIDELINES AND SCHEDULES OF ANIMAL GRAZING DAYS AT GRAZING CHARTS FOR EACH CAMP. TAKE INTO ACCOUNT THE TIMEOUS REMOVAL OF SHEEP BEFORE AVAILABLE FORAGE REACHES CRITICAL LEVELS AND PLANNED REST OVER DRY MONTHS



ISPD FIGURE – POSITION OF RED VERTICAL ARROW ILLUSTRATES THE CONDITION ON A DEGRADATION AXIS AND THE DIRECTION OF THE TREND CAN BE OBSERVED FROM FOLLOWING THE ORDER OF THE ASSESSMENTS (i.e. Run 1 = Year 1, Run 2 = Year 2 etc.). THIS IS BASELINE DATA, NOT TREND CAN BE ESTABLISHED

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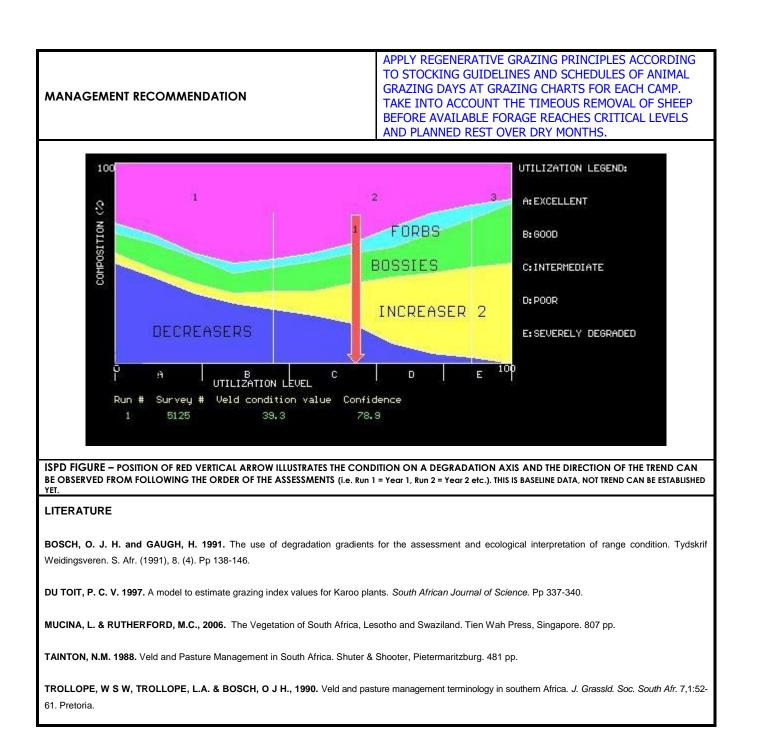
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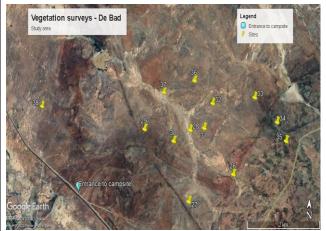
VELD CONDITION ASSESSMENT SITE REPORT – 2022 (SEE ATTACHED TABLE)

<image/>		Z7 GOOGLE IMAGE OF THE SITE 30° 50' 58,6" 24° 21' 24,7"
AREA	De Bad - Soventix	
AREA NUMBER GRAZING UNIT NUMBER	Phase 3 GU-3	a stream and the second of
SITE NUMBER	Site 27	
VELD TYPE – ACOCKS	VT 36 - False Upper Karoo	the second secon
VELD TYPE – MUCINA & RUTHERFORD	Nku 3 - Northern Upper Karoo	and the second sec
GEOLOGY AND SOIL FORM	Shale/Dolerite - Mispah	at the second
DATE VISITED	10/04/2022	10/04/2022
GRASS SPECIES RICHNESS ((Number of grass species per 100 m ²): High is = >15 spp, Low< 10 species)		3 species = Low
DOMINANT GRASS SPECIES (FREQUENCY ABUNDANCE) (% on total grasses)		 Enneapogon desvauxii (Kalkgras) – 35% Aristida adscensionis (Eenjarige Steekgras) – 8% Tragus koelerioides (Creeping Carrot-seed Grass) – 9%
AVERAGE GRASS TUFT DISTANCE (Soil erosion potential: Low is ≤5 cm, Medium >5-10 cm & High > 10cm)		6.5 cm = Low
VEGETATION CROWN COVER (% Soil covered)		11 - 20%
DOMINANT BOSSIE SPECIES (contributing to above)		Ankerkaroo (45%) & Kapokbos (12%)
PLANT SPECIES RICHNESS ((Number of bossies and grass species per 2500 m ²) High is = >60 spp, Low< 20 species)		10 species (13 incl. <1% species) = Low
VELD CONDITION (according to Trollope, et.al. 1990)		INTERMEDIATE
VELD CONDITION (according to Tainton, 1988)		OVERGRAZED
VELD CONDITION TREND		This is baseline data, no trend can be established yet.
VELD CONDITION INDEX TOTAL / ECOLOGICAL INDEX		3.97 / 201.4 (GOOD)
GRAZING CAPACITY in ha/LSU (Du Toit Method) = 500/VCI Total x Regression value (7.14)		17.7 ha/LSU

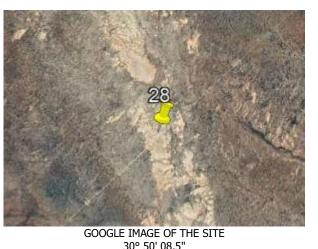




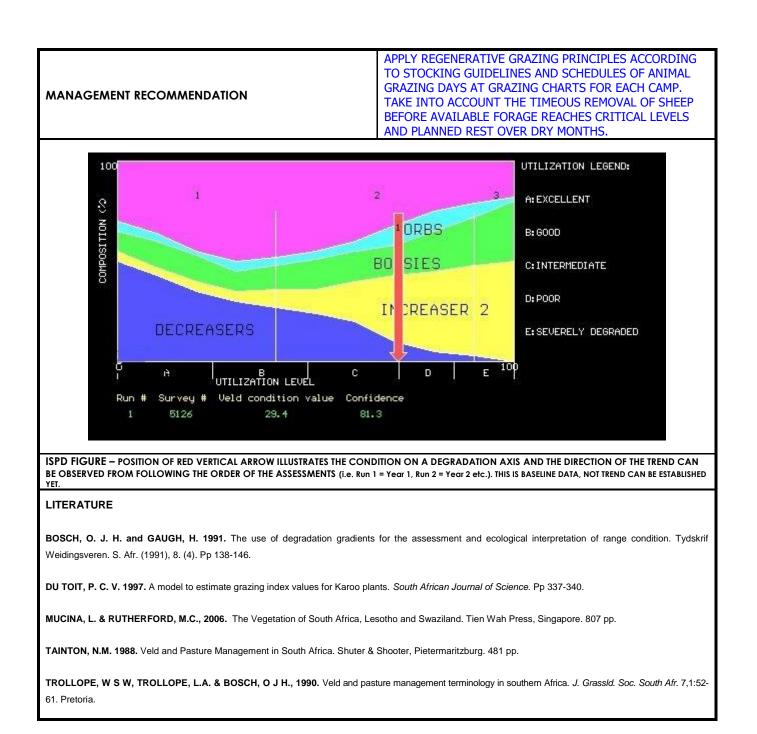
VELD CONDITION ASSESSMENT SITE REPORT – 2022 (SEE ATTACHED TABLE)



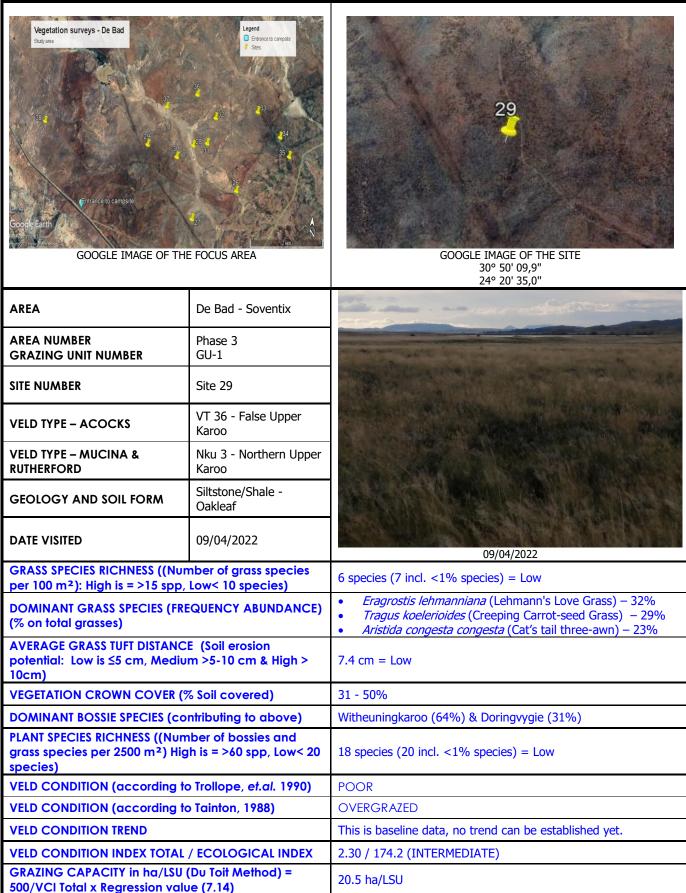
GOOGLE IMAGE OF THE FOCUS AREA

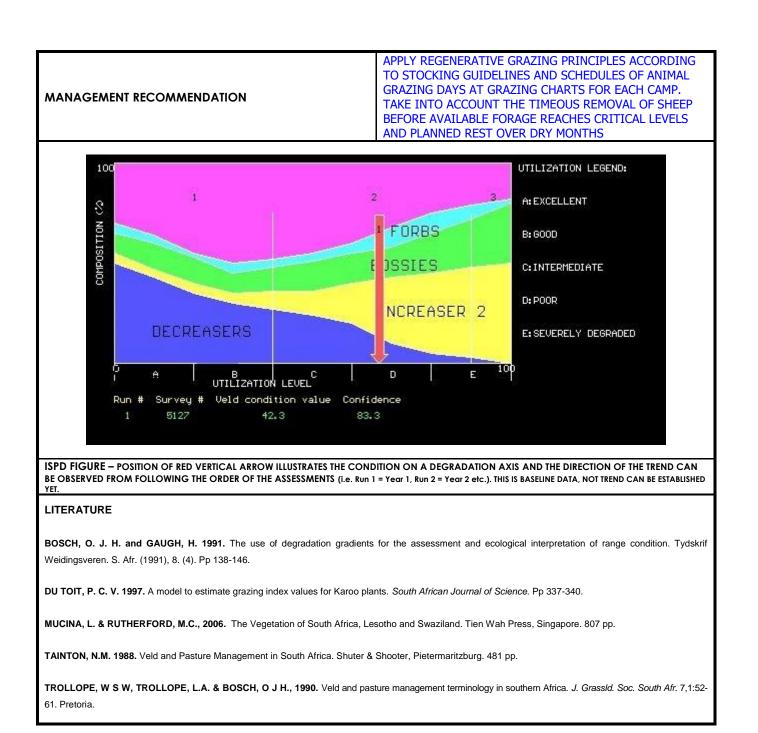


		30° 50' 08,5" 24° 21' 24,1"
AREA	De Bad - Soventix	
AREA NUMBER GRAZING UNIT NUMBER	Phase 3 GU-1	
SITE NUMBER	Site 28	The first and the gas and a set
VELD TYPE – ACOCKS	VT 36 - False Upper Karoo	A State of the sta
VELD TYPE – MUCINA & RUTHERFORD	Nku 3 - Northern Upper Karoo	
GEOLOGY AND SOIL FORM	Siltstone/Shale Valsrivier	
DATE VISITED	09/04/2022	09/04/2022
GRASS SPECIES RICHNESS ((Number of grass species per 100 m ²): High is = >15 spp, Low< 10 species)		9 species = Low
DOMINANT GRASS SPECIES (FREQUENCY ABUNDANCE) (% on total grasses)		 Eragrostis obtusa (Dew Grass) – 34% Sporobolus discosporus (Disc Dropseed) – 22% Cynodon hirsutus (Cynodon) – 21%
AVERAGE GRASS TUFT DISTANCE (Soil erosion potential: Low is ≤5 cm, Medium >5-10 cm & High > 10cm)		8.8 cm = Low
VEGETATION CROWN COVER (% Soil covered)		11 - 20%
DOMINANT BOSSIE SPECIES (contributing to above)		Blomkoolganna (16%) & Ankerkaroo, Bloukatbos (12% each)
PLANT SPECIES RICHNESS ((Number of bossies and grass species per 2500 m ²) High is = >60 spp, Low< 20 species)		20 species (22 incl. <1% species) = Low
VELD CONDITION (according to Trollope, et.al. 1990)		INTERMEDIATE
VELD CONDITION (according to Tainton, 1988)		OVERGRAZED
VELD CONDITION TREND		This is baseline data, no trend can be established yet.
VELD CONDITION INDEX TOTAL / ECOLOGICAL INDEX		2.28 / 229.8 (GOOD)
GRAZING CAPACITY in ha/LSU (Du Toit Method) = 500/VCI Total x Regression value (7.14)		15.5 ha/LSU











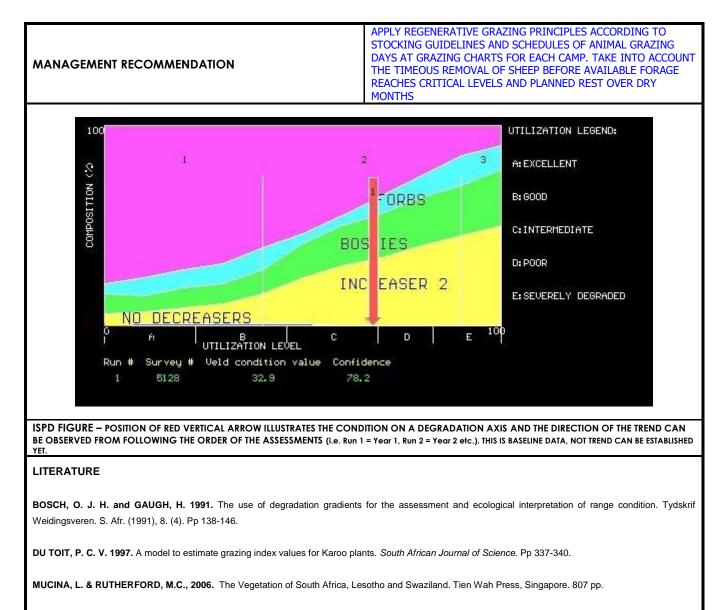


GOOGLE IMAGE OF THE FOCUS AREA



GOOGLE IMAGE OF THE SITE 30° 50' 17,1" 24° 21' 06.7"

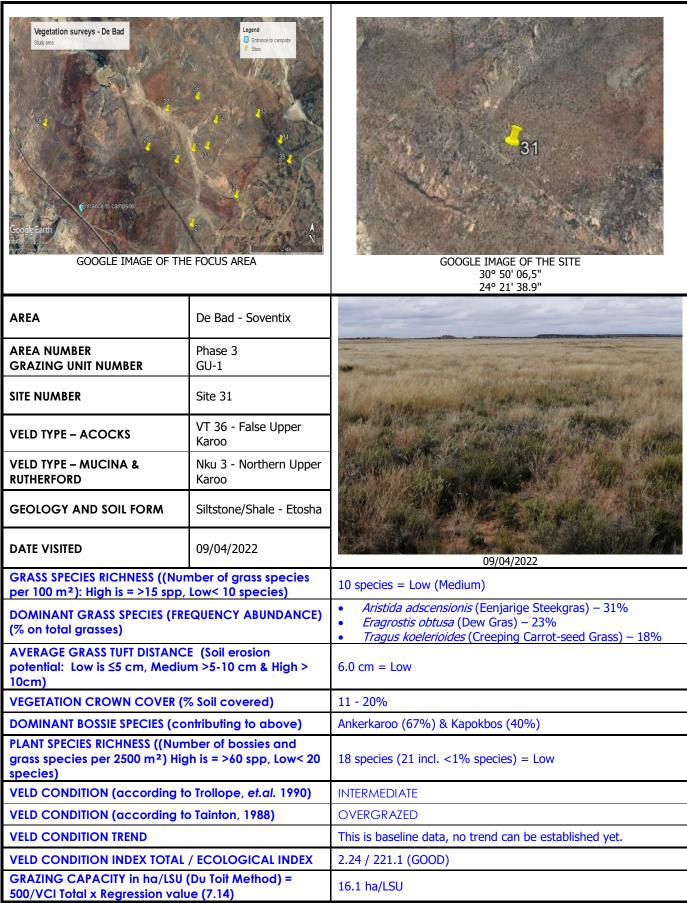
		24° 21' 06,7"
AREA	De Bad - Soventix	
AREA NUMBER GRAZING UNIT NUMBER	Phase 3 GU-4	
SITE NUMBER	Site 30	A CARLES AND A CARLES AND A CARLES
VELD TYPE – ACOCKS	VT 36 - False Upper Karoo	Contraction of the second s
VELD TYPE – MUCINA & RUTHERFORD	Nku 3 - Northern Upper Karoo	The second second second second second
GEOLOGY AND SOIL FORM	Sandsteen - Mispah	A THE MAN AND AND AND AND AND AND AND AND AND A
DATE VISITED	09/04/2022	09/04/2022
GRASS SPECIES RICHNESS ((Nur per 100 m ²): High is = >15 spp,		7 species = Low
DOMINANT GRASS SPECIES (FRI (% on total grasses)	EQUENCY ABUNDANCE)	 Aristida adscensionis (Eenjarige steekgras) – 54% Eragrostis lehmanniana (Lehmann's Love Grass) – 21% Tragus koelerioides (Creeping Carrot-seed Grass) – 15%
AVERAGE GRASS TUFT DISTANC potential: Low is ≤5 cm, Mediu 10cm)		5.9 cm = Low
VEGETATION CROWN COVER (%	% Soil covered)	21 - 30%
DOMINANT BOSSIE SPECIES (co	ntributing to above)	Kapokbos (52%) + Ankerkaroo & Doringkapok (21% each)
PLANT SPECIES RICHNESS ((Num grass species per 2500 m ²) Hig species)		18 species (22 incl. <1% species) = Low
VELD CONDITION (according to	o Trollope, et.al. 1990)	INTERMEDIATE
VELD CONDITION (according to	o Tainton, 1988)	OVERGRAZED
VELD CONDITION TREND		This is baseline data, no trend can be established yet.
VELD CONDITION INDEX TOTAL		3.13 / 334.6 (EXCELLENT)
GRAZING CAPACITY in ha/LSU 500/VCI Total x Regression valu		10.7 ha/LSU

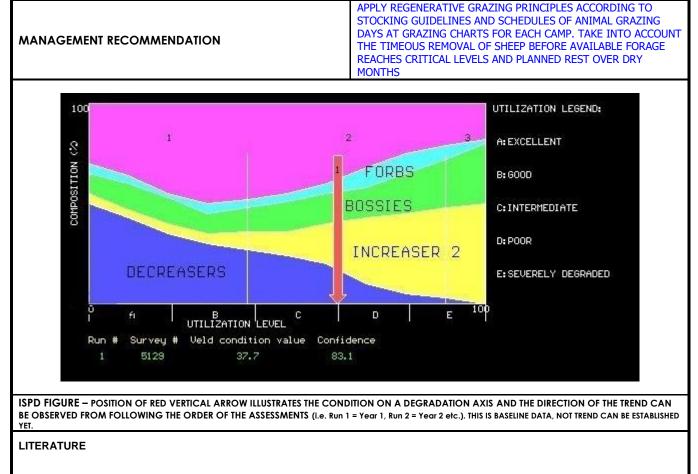


TAINTON, N.M. 1988. Veld and Pasture Management in South Africa. Shuter & Shooter, Pietermaritzburg. 481 pp.

TROLLOPE, W S W, TROLLOPE, L.A. & BOSCH, O J H., 1990. Veld and pasture management terminology in southern Africa. J. Grassld. Soc. South Afr. 7,1:52-61. Pretoria.







BOSCH, O. J. H. and GAUGH, H. 1991. The use of degradation gradients for the assessment and ecological interpretation of range condition. Tydskrif Weidingsveren. S. Afr. (1991), 8. (4). Pp 138-146.

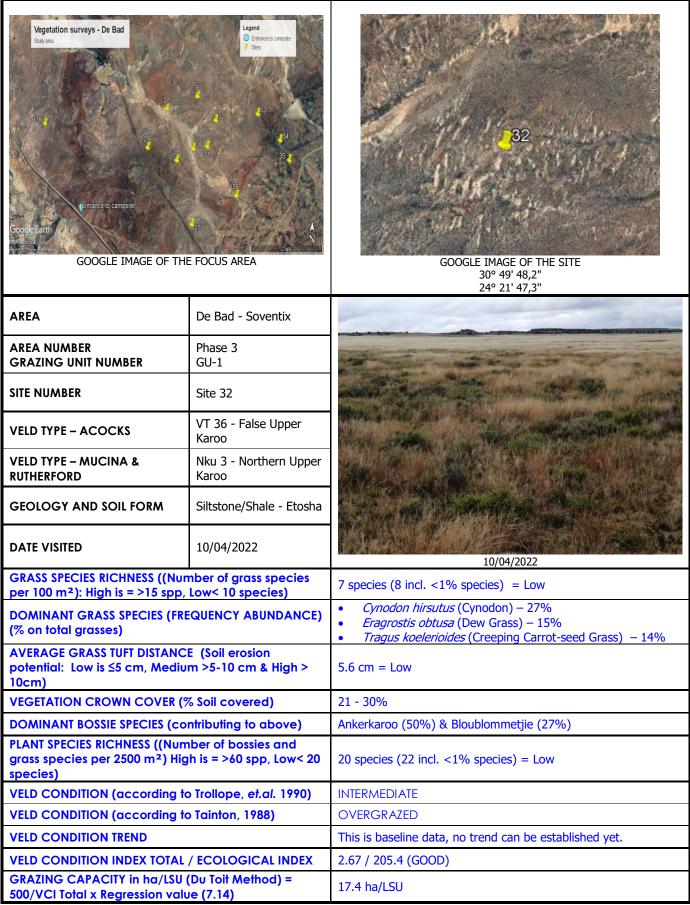
DU TOIT, P. C. V. 1997. A model to estimate grazing index values for Karoo plants. South African Journal of Science. Pp 337-340.

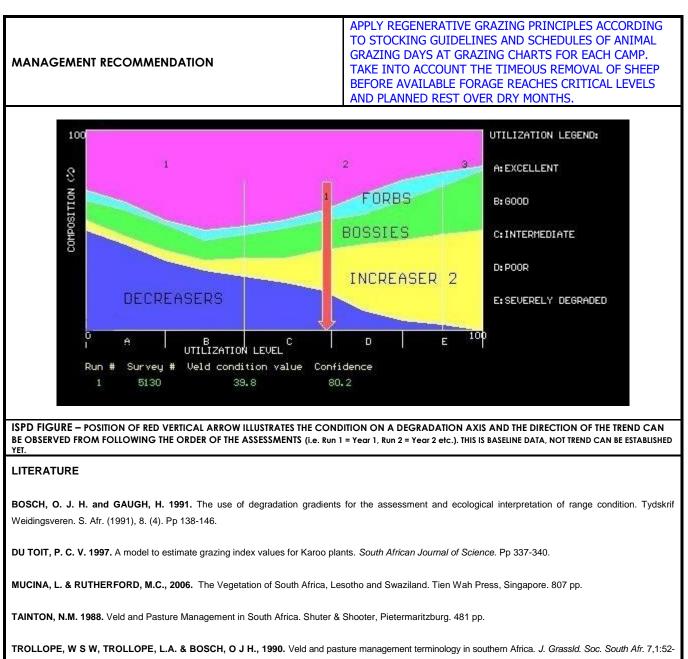
MUCINA, L. & RUTHERFORD, M.C., 2006. The Vegetation of South Africa, Lesotho and Swaziland. Tien Wah Press, Singapore. 807 pp.

TAINTON, N.M. 1988. Veld and Pasture Management in South Africa. Shuter & Shooter, Pietermaritzburg. 481 pp.

TROLLOPE, W S W, TROLLOPE, L.A. & BOSCH, O J H., 1990. Veld and pasture management terminology in southern Africa. J. Grassld. Soc. South Afr. 7,1:52-61. Pretoria.

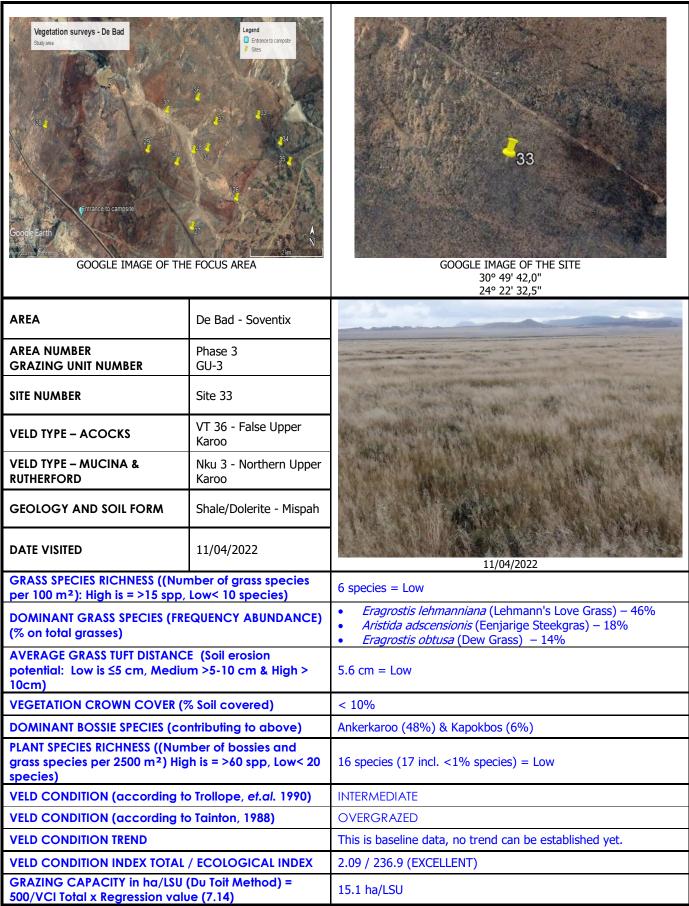


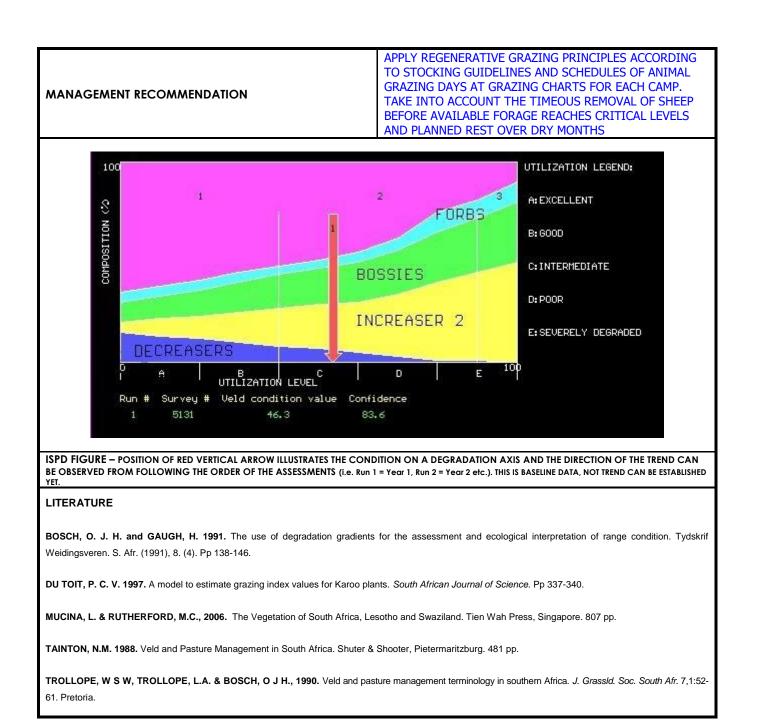




61. Pretoria.









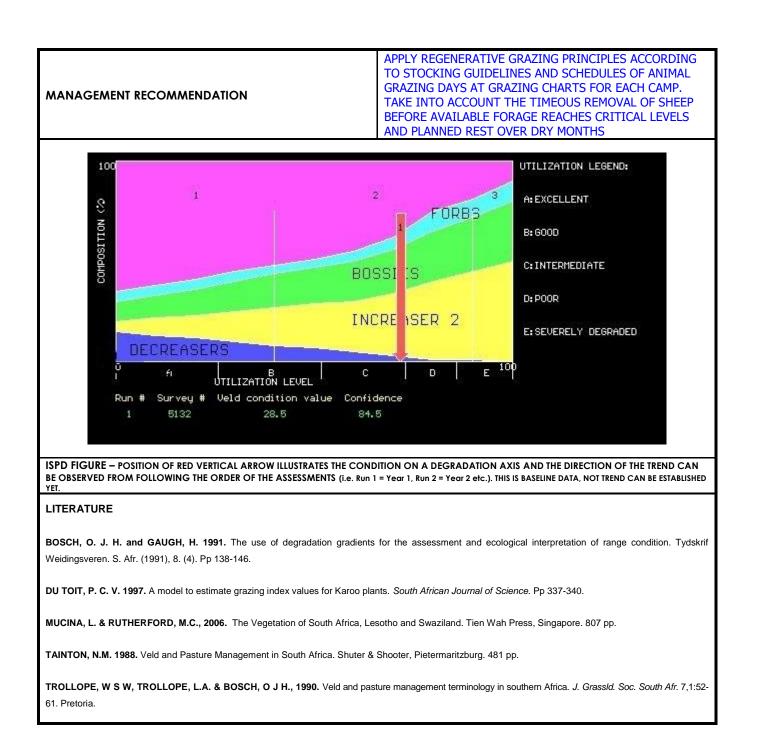


GOOGLE IMAGE OF THE FOCUS AREA



GOOGLE IMAGE OF THE SITE 30° 49' 59,0" 24° 22' 56,4"

		24° 22' 56,4"
AREA	De Bad - Soventix	A CONTRACTOR
AREA NUMBER GRAZING UNIT NUMBER	Phase 3 GU-3	A CONTRACTOR OF THE OWNER
SITE NUMBER	Site 34	
VELD TYPE – ACOCKS	VT 36 - False Upper Karoo	Canada
VELD TYPE – MUCINA & RUTHERFORD	Nku 3 - Northern Upper Karoo	AND
GEOLOGY AND SOIL FORM	Sandsteen -	
DATE VISITED	11/04/2022	11/04/2022
GRASS SPECIES RICHNESS ((Nur per 100 m ²): High is = >15 spp,		7 species = Low
DOMINANT GRASS SPECIES (FRI (% on total grasses)	EQUENCY ABUNDANCE)	 Aristida adscensionis (Eenjarige Steekgras) – 66% Enneapogon desvauxii (Kalkgras) – 14% Cynodon hirsutus (Cynodon) – 7%
AVERAGE GRASS TUFT DISTANC potential: Low is ≤5 cm, Mediu 10cm)		4.9 cm = Low
VEGETATION CROWN COVER (9	% Soil covered)	21 - 30%
DOMINANT BOSSIE SPECIES (co	ntributing to above)	Kapokbos (56%) & Ankerkaroo (7%)
PLANT SPECIES RICHNESS ((Num grass species per 2500 m ²) Hig species)		12 species (12 incl. <1% species) = Low
VELD CONDITION (according to	o Trollope, et.al. 1990)	POOR
VELD CONDITION (according to	o Tainton, 1988)	OVERGRAZED
VELD CONDITION TREND		This is baseline data, no trend can be established yet.
VELD CONDITION INDEX TOTAL		3.70 / 136.9 (POOR)
GRAZING CAPACITY in ha/LSU 500/VCI Total x Regression value		26.1 ha/LSU





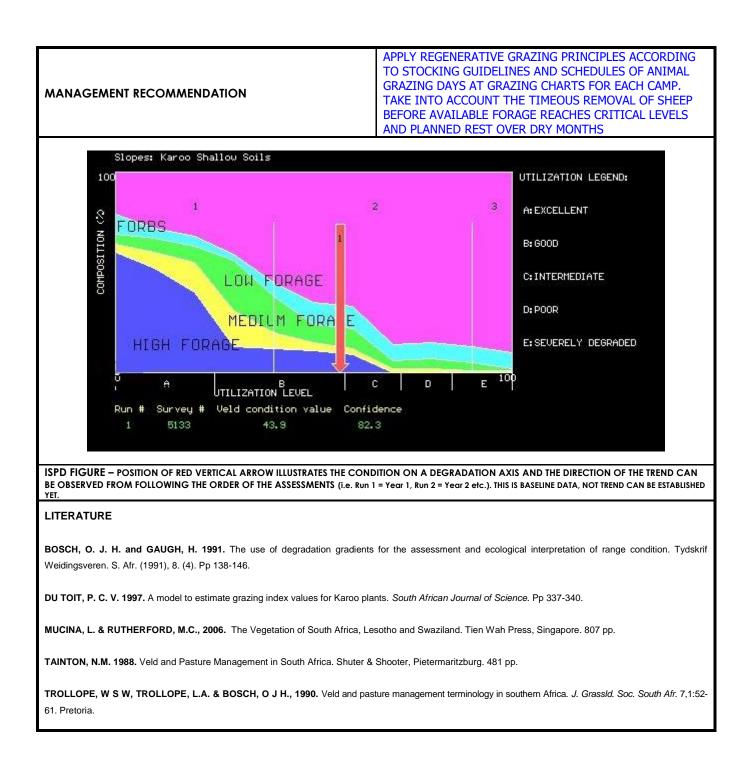


GOOGLE IMAGE OF THE FOCUS AREA

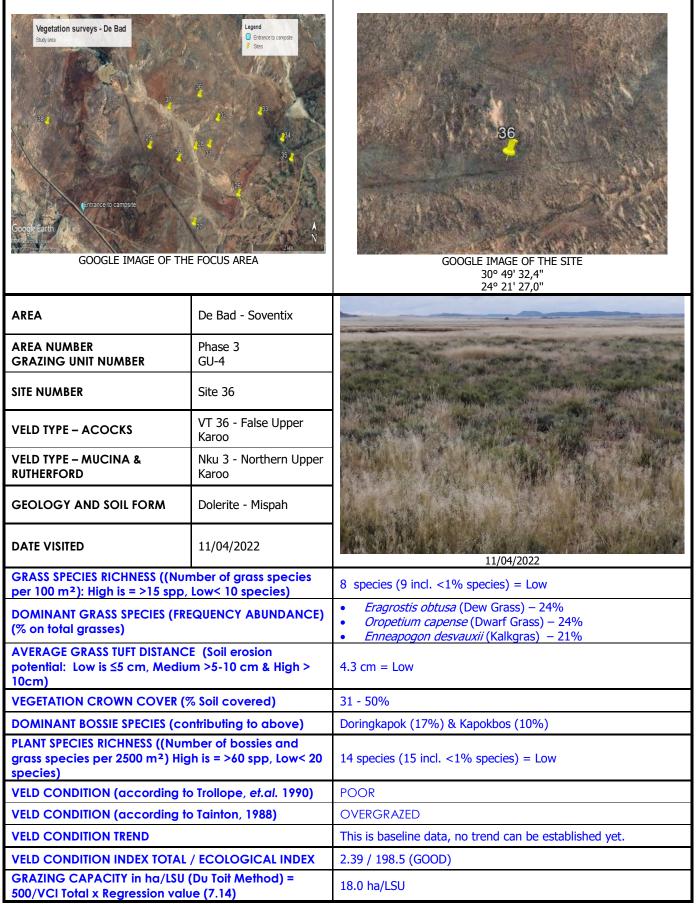


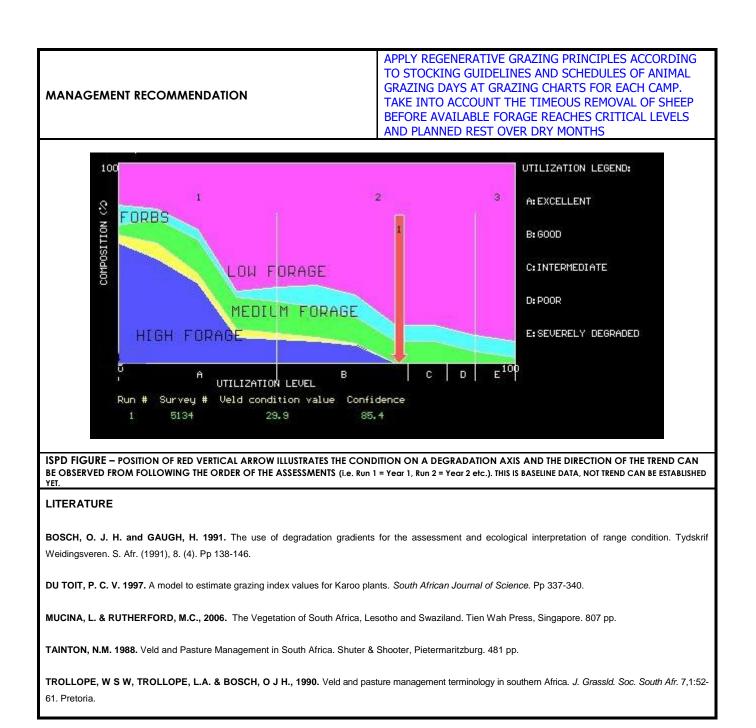
GOOGLE IMAGE OF THE SITE 30° 50' 12,0" 24° 23' 06,0"

		24° 23° 06,0°
AREA	De Bad - Soventix	
AREA NUMBER GRAZING UNIT NUMBER	Phase 3 GU-3	
SITE NUMBER	Site 35	
VELD TYPE – ACOCKS	VT 36 - False Upper Karoo	
VELD TYPE – MUCINA & RUTHERFORD	Nku 3 - Northern Upper Karoo	
GEOLOGY AND SOIL FORM	Siltstone/Shale - Mispah	
DATE VISITED	11/04/2022	11/04/2022
GRASS SPECIES RICHNESS ((Nur per 100 m ²): High is = >15 spp,		6 species (11 incl. <1% species) = Low
DOMINANT GRASS SPECIES (FRE (% on total grasses)	EQUENCY ABUNDANCE)	 Eragrostis lehmanniana (Lehmann's Love Grass) – 69% Cynodon hirsutus (Cynodon) – 24% Eragrostis obtusa (Dew Grass) – 4%
AVERAGE GRASS TUFT DISTANC potential: Low is ≤5 cm, Mediu 10cm)		6.4 cm = Low
VEGETATION CROWN COVER (%	% Soil covered)	21 - 30%
DOMINANT BOSSIE SPECIES (co		Doringvygie (36%) & Ankerkaroo (26%)
PLANT SPECIES RICHNESS ((Num grass species per 2500 m ²) Hig species)		15 species (22 incl. <1% species) = Low
VELD CONDITION (according to	o Trollope, et.al. 1990)	INTERMEDIATE
VELD CONDITION (according to	o Tainton, 1988)	OVERGRAZED
VELD CONDITION TREND		This is baseline data, no trend can be established yet.
VELD CONDITION INDEX TOTAL		2.13 / 234.0 (EXCELLENT)
GRAZING CAPACITY in ha/LSU 500/VCI Total x Regression valu		15.3 ha/LSU











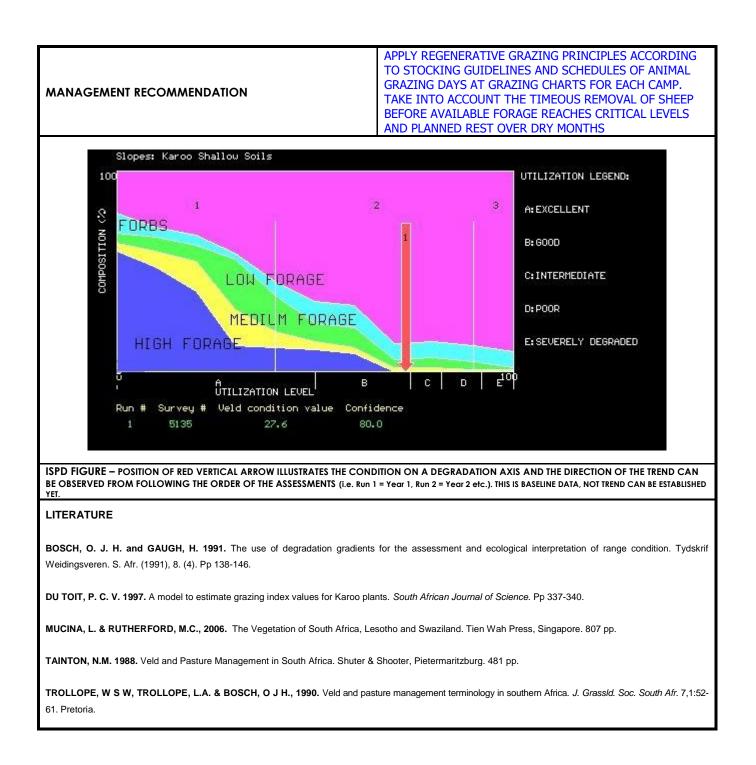


GOOGLE IMAGE OF THE FOCUS AREA

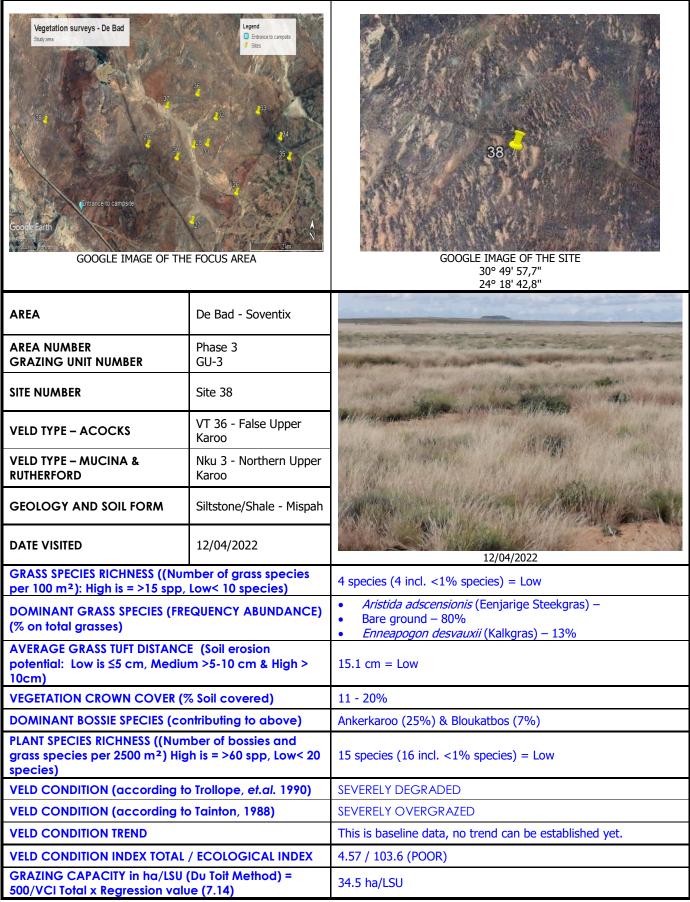


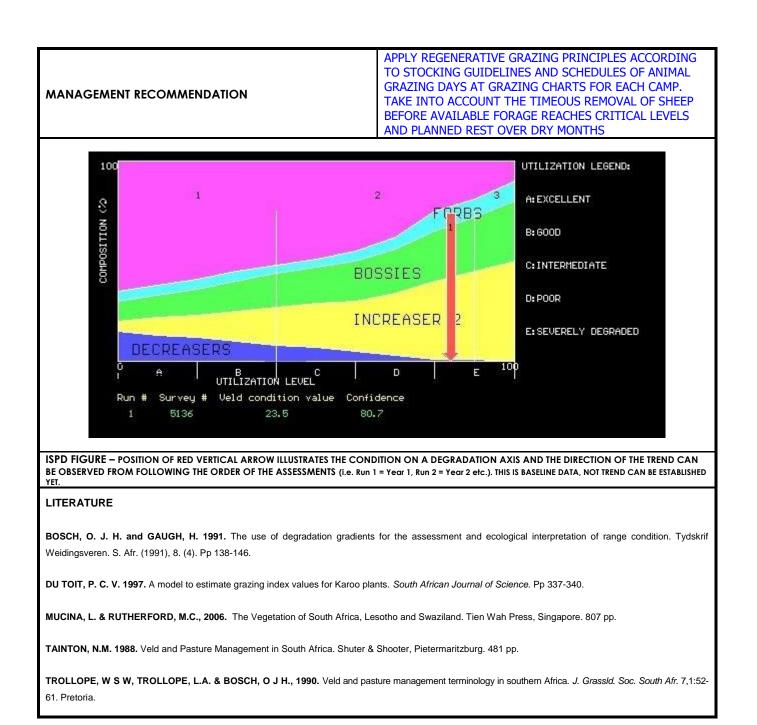
GOOGLE IMAGE OF THE SITE 30° 49' 42,0" 24° 20' 54,3"

		24° 20' 54,3"
AREA	De Bad - Soventix	
AREA NUMBER GRAZING UNIT NUMBER	Phase 3 GU-5	
SITE NUMBER	Site 37	a server a server
VELD TYPE – ACOCKS	VT 36 - False Upper Karoo	
VELD TYPE – MUCINA & RUTHERFORD	Nku 3 - Northern Upper Karoo	
GEOLOGY AND SOIL FORM	Siltstone/Shale - Tukulu	
DATE VISITED	12/04/2022	12/04/2022
GRASS SPECIES RICHNESS ((Nur per 100 m ²): High is = >15 spp,		5 species (7 incl. <1% species) = Low
DOMINANT GRASS SPECIES (FR (% on total grasses)	EQUENCY ABUNDANCE)	 <i>Eragrostis sp.</i> (Eragrostis) – 59% <i>Cynodon hirsutus</i> (Cynodon) – 34% <i>Eragrostis obtusa</i> (Dew Grass) – 5%
AVERAGE GRASS TUFT DISTANC potential: Low is ≤5 cm, Mediu 10cm)		4.2 cm = Low
VEGETATION CROWN COVER (S	% Soil covered)	11 - 20%
DOMINANT BOSSIE SPECIES (co	ntributing to above)	Ankerkaroo (57%) & Geeltulp (13%)
PLANT SPECIES RICHNESS ((Nun grass species per 2500 m ²) Hig species)		10 species (14 incl. <1% species) = Low
VELD CONDITION (according to	o Trollope, et.al. 1990)	POOR
VELD CONDITION (according to	o Tainton, 1988)	OVERGRAZED
VELD CONDITION TREND		This is baseline data, no trend can be established yet.
VELD CONDITION INDEX TOTAL		2.57 / 195.9 (GOOD)
GRAZING CAPACITY in ha/LSU 500/VCI Total x Regression value		18.2 ha/LSU









APPENDIX B Tables

(Detailed information on grass species and bossie frequency abundance and crown densities of bossies and classification of species within ecological categories of Decreasers and Increasers. It also includes grass tuft distances, bossie density, grass phytomass, veld condition, grazing capacity and management recommendations as provided in the Site Reports).

	shrub spec			eempee.		_		· · ·
DE BAD	- SOVENTI)	(FOOTSLOPE (Convex) 3,1 Shale dominant DOLERITE incl.
								SITE - 26
SITE - 26 (G								Excl. Sedges & Forbs April 2022
TUFT DISTANCES (in cm): Low is PHYTOMASS /			& High > 1	10 cm				5,9 1901
	INATES: South	kg/na)						30° 50' 37,8"
DIRECTIO	East N OF TRANSEC	т						24° 22' 10,8" 275°
HEIGHT ABC	VE SEA LEVEL	(m)						1 275
SOIL FORM VELD TYPE (Mut	1 (Macvicar, 199							Glenrosa Nku 4 - Eastern Upper Karoo
	Grazing	Palatable	Less	Unpalatable	Low produ	ction Grass	Toxic	Niku 4 Eastern Opper Naroo
GRASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	Falatable	Palatable	onpalatable	Low produ	cuon orass	TOXIC	
DECREASERS		T	T.	T			1	% on Grand Total
No Decreaser species recorded SUBTOTAL (Decreaser category):								0
NCREASERS I	Ι	T	T	I	I		1	
No Increaser I species recorded SUBTOTAL (Increaser I category):								0
NCREASERS II		1	1		I		1	
Aristida adscensionis Eenjarige Steekgras Aristida congesta subsp. congesta Cat's tail Three-awn	1,08	**		•				9 1
Aristida diffusa Iron Grass	3,18	***						3
Enneapogon desvauxii Kalkgras Eragrostis lehmanniana Lehmann's Love Grass	2,07 3,24	***	**					1 43
Fragrostis obtusa Dew Grass / Douvatgras	2,94	***		1				**
Eragrostis sp. Eragrostis Bare Ground	1,5		**					** 0
SUBTOTAL (Increaser II category):								57
OTAL (Grasses):								57
SHRUBS (BOSSIES)				COVER				
		1		ontribution	Low	ĺ	60 Cover	
GHRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	production Shrub	Toxic	(%)	% on Grand Total
Eriocephalus spinescens Doringkapok Felicia muricata Bloublommetjie	2,12		**				0,1 0,5	1 9
Gorteria alienata (Hirpicium alienatum) Haarbossie	3,16	****					0,5	2
Pentzia incana Ankerkaroo	2,88	***					3	10
Phymaspermum parvifolium Witheuningkaroo Pteronia cf glauca Geelboegoekaroo	3,38 1,89			•			0,3 6	2 14
Ruschia intricata (Eberlanzia ferox) Doringvygie	1,54		**				2	5
Jnidentified (Vygie species) TOTAL (Shrubs / Bossies):	1,5			*			0,01	1
								43
OTAL (Grasses + Shrubs / Bossies)								43 100
* Less than 1% of species recorded at site	tion from T	abla 1 1						
	tion, from T	able 1.1	I					
* Less than 1% of species recorded at site				THOD)	_	_	_	100 FOOTSLOPE (Convex) 3,1 SITE - 26
* Less than 1% of species recorded at site Fable 1.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY	OF TREND (THOD)				100 FOOTSLOPE (Convex) 3,1
* Less than 1% of species recorded at site Fable 1.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY Ci	OF TREND (THOD)				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 %
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY C: Decre Increa	OF TREND (ategories aser species ser I species			THOD)				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species compositive VELD CONDITION SUMMARY CC Decre Increa Increa	OF TREND (ategories aser species ser I species ser Il species			THOD)				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY Ci Decre Increa Unider Bat	OF TREND (ategories aser species ser I species ser I species tified species e Ground			THOD)				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY Ci Decre Increa Unider Bat	OF TREND (ttegories aser species ser I species ser Il species tified species e Ground os /Bossies			THOD)				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 57 0 0 43
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY Ci Decre Increa Unider Bat	OF TREND (itegories aser species ser l species ser li species tified species e Ground ss /Bossies Total	TAINTC	DN'S ME	THOD)				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species compositive VELD CONDITION SUMMARY CC Decre Increa Unider Bar Shru Veld Condition (Trolloper)	OF TREND (ategories aser species ser I species ser I species tifed species	TAINTC	thod)					100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 0 43 100
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species compositive VELD CONDITION SUMMARY CC Decre Increa Unider Bat Shru Veld Condition (Trolloper Veld Condition (Trolloper Increase visco species which decrease when Increase visco species which increase visco species which increase when Increase visco species which increase when	OF TREND (tegories aser species ser I species ser I species tifled species tifled species total total total n veld is under-utilit an veld is under-utilit	TAINTC	thod)	equently				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 0 43 100
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species compositive VELD CONDITION SUMMARY CC Decre Increas Unider Ba Shru Veld Condition (Trollopt Veld Condition (Trollopt Exercises - Grass and herbaceous species which increase when Increase of Species - Grass and herbaceous species which increase when Increase of Species - Grass and herbaceous species which increase when Increase of Species - Grass and herbaceous species which increase when Increase of Species - Grass and herbaceous species which increase when Increase of Species - Grass and herbaceous species which increase when Increase of Species - Grass and herbaceous species which increase when	OF TREND (tegories aser species ser I species ser I species tifled species tifled species total total total n veld is under-utilit an veld is under-utilit	TAINTC	thod)	equently				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 0 43 100
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species compositive VELD CONDITION SUMMARY CC Decre Increa Unider Bat Shru Veld Condition (Trolloper Veld Condition (Trolloper Increase visco species which decrease when Increase visco species which increase visco species which increase when Increase visco species which increase when	OF TREND (tegories aser species ser I species ser I species tifled species tifled species total total total n veld is under-utilit an veld is under-utilit	TAINTC	thod)	equently				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 0 43 100
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species compositive VELD CONDITION SUMMARY C Decre Increa Increa Unider Bat Shrut Veld Condition (Trolloph Increaser I species - Grass and herbaceous species which increase when Increase rispecies - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increaser I species - Grass and herbaceous species which increaser I species - Grass and herbaceous species - Grass and herbaceous species when Increaser I species - Grass and h	OF TREND (tegories aser species ser I species ser I species tifled species tifled species total total total n veld is under-utilit an veld is under-utilit	TAINTC	thod)	equently				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 43 100 INTERMEDIATE / OVERGRAZED FOOTSLOPE (Convex) 3,1 SITE - 26
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species compositive VELD CONDITION SUMMARY C Decre Increa Increa Unider Bat Shrut Veld Condition (Trolloph Increaser I species - Grass and herbaceous species which increase when Increase rispecies - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increaser I species - Grass and herbaceous species which increaser I species - Grass and herbaceous species - Grass and herbaceous species when Increaser I species - Grass and h	OF TREND (aser species ser I species ser I species ser Il species tifled species tifled species os /Bossies Total rotal veld is under-utiliz veld is over-utiliz	TAINTC	thod)	equently				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 0 0 0 0 43 100 INTERMEDIATE / OVERGRAZED
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composi- VELD CONDITION SUMMARY CC Decre Increas Unider Ba Shru Veld Condition (Trollopt Shru Veld Condition (Trollopt Shru Veld Condition (Trollopt Shru	OF TREND (aser species ser I species ser I species ser Il species tifled species tifled species os /Bossies Total rotal veld is under-utiliz veld is over-utiliz	TAINTC	thod)	equently				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 43 100 INTERMEDIATE / OVERGRAZED FOOTSLOPE (Convex) 3,1 SITE - 26 ISPD 5124 April 2022 5,9
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY CC Decre Increa Increa Unider Bat Shrut Veld Condition (Trolloph Norceaser species - Grass and herbaceous species which increase when Increase via pacies - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase I species - Grass and herbaceous species which increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase I species - Grass and herbaceous species which increase I species - Grass and herbaceous species - Grass and herbaceous species - Grass and herbaceous - Grass - Gras	OF TREND (aser species ser I species ser I species ser Il species tifled species tifled species os /Bossies Total rotal veld is under-utiliz veld is over-utiliz	TAINTC	thod)	equently				100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 43 100 INTERMEDIATE / OVERGRAZE(INTERMEDIATE / OVERGRAZE(SITE - 26 ISPD 5124 April 2022 5,9 Medium
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* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY CC Decre Increa Increa Unider Bat Stru Veld Condition (Trollope CC Veld Condition (Trollope Segend: Decreaser species - Grass and herbaceous species which decrease when Increaser I species - Grass and herbaceous species which decrease when Increaser of species - Grass and herbaceous species which decrease when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of species - Grass and herbaceous species which increase when Increaser of the species - Grass and herbaceous species which increase when Increaser of the species - Grass and herbaceous species which increase when Increaser of the species - Grass and herbaceous species when the decrease when Increaser of the species - Grass Species - Grass Species - Grass Species - Grass - G	OF TREND (ittegories aser species ser I species ser I species e Ground ss /Bossies Total 's Method / Tail an veld is over-util veld is over-util MMARY es) ies)	TAINTC	thod) thod) med too fr burned in too h	equently high enough igh frequence	bossie crov	/n cover rea	zorded: 'Gee	100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 43 100 INTERMEDIATE / OVERGRAZED FOOTSLOPE (Convex) 3,1 SITE - 26 ISPD 5124 April 2022 5,9 Medium 1901 Low 5 (7) Low 8 (8) Low 8 (8) Low 13 (15) Low
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* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY CC Decre Decre CC Decre Decre Swhich decre Swhich decr	OF TREND (ittegories aser species ser I species ser I species e Ground ss /Bossies Total 's Method / Tail an veld is over-util veld is over-util MMARY es) ies)	TAINTC	thod) thod) med too fr burned in too h	equently high enough igh frequenc	bossie crov	/n cover rea	corded: 'Ge	100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 43 100 INTERMEDIATE / OVERGRAZED FOOTSLOPE (Convex) 3,1 SITE - 26 ISPD 5124 April 2022 5,9 Medium 1901 Low 5 (7) Low 8 (8) Low 13 (15) Low 13 (15) Low 12,11% (within range of 11 - 20%) elboegoekaroo (48.3% of total),
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* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY CC Decre Increas Unider Bai CC Decre Unider Bai CC Decre Unider Bai CC Decre Unider Bai Celd Condition (Trollope Celd Condition (Trollope Celd Condition (Trollope Celd Condition (Trollope Celd Condition (Trollope Celd Condition (Trollope Cell Condition (Cell Cell Cell Condition (Cell Cell Condition (Cell Cell Cell Condition (Cell Cell Cell Cell Condition (Cell Cell Cell Cell Cell Cell Cell Cell Cell Cell Cel	OF TREND (tegories aser species ser I species ser I species e Ground ss /Bossies Total 's Method / Tail an veld is over-utiliz wid is over-utiliz MMARY ess) These spec Ankerkaroo	TAINTC	thod) thod) rmed too fr burned in too h ed in too h	equently high enough igh frequenc	bossie crov	/n cover rea	corded: 'Ge	100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 43 100 INTERMEDIATE / OVERGRAZED FOOTSLOPE (Convex) 3,1 SITE - 26 ISPD 5124 April 2022 5,9 Medium 1901 Low 5 (7) Low 8 (8) Low 13 (15) Low 14 (within range of 11 - 20%) elboegoekaroo (48.3% of total), 3 42.9 High
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY CC CC Decre Increa Increa Increa Unider Bai Shrub Veld Condition (Trollope Second States and herbaceous species which decrease when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which decrease when Increaser I species - Grass and herbaceous species which decrease when Increaser I species - Grass and herbaceous species which decrease when Increaser I species - Grass and herbaceous species which decreases when Increase I (Inghi I = >15 Spp. Low - 10 gecies) Souther of Grass species present per 100 m² (excl. and incl. <1% of species) Number of bossies and grass species per 100 m² (excl. and incl. <1% of species) Informant Bossies cover (%) Summart Bossies cover (%) Sumber of palatable grasses Talatabity (potential) % Good grazing grasses % Grage value (Grasses only) (eld Condition Index Total Ordential grazing capacity of the agricultural district (for an average annual rai Condition on ISD Degradation Axis (%) - Norm between 60% and 80% SPD Veld Condition Axis (%) - Norm between 60% and 80%	OF TREND (tegories aser species ser I species ser I species e Ground ss /Bossies Total 's Method / Tail an veld is over-utiliz wid is over-utiliz MMARY ess) These spec Ankerkaroo	TAINTC	thod) thod) rmed too fr burned in too h ed in too h	equently high enough igh frequenc	bossie crov	/n cover rea	corded: 'Ge	100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 43 100 INTERMEDIATE / OVERGRAZED FOOTSLOPE (Convex) 3,1 SITE - 26 ISPD 5124 April 2022 5,9 Medium 1901 Low 5 (7) Low 5 (7) Low 8 (8) Low 13 (15) Low 13 (12) 43,2 High 2,002 20,12
* Less than 1% of species recorded at site Table 1.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY CC Decre Increas Increas Unider Increas Unider Bai Shrub Veld Condition (Trollope egend: Decreaser species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which decrease when Increaser I species - Grass and herbaceous species which decrease when Increaser I species - Grass and herbaceous species which decrease when Increaser I species - Grass and herbaceous species which decrease when Increase of the species - Grass species present per 1500 m ² (excl. and incl. <1% of species) Grass Species Richness (High is = >15 spp, Low< 10 species) Jumber of Dossies and grass species per 100 m ² (excl. and incl. <1% of species) Dominant Bossie cover (% soil covered) Dominant Bossie cover (% soil covered) Dominant species contributing to crown cover (%) Aumber of palatable grasses Palatability (potential) % Dood grazing capacity of the agricultural district (for an average annual rai Condition on (SPD Degradation Axs (%) - Norm between 60% and 80%	OF TREND (tegories aser species ser I species ser I species e Ground s /Bossies Total 's Method / Tail an veld is over-utilit veld is over-utilit MMARY es) tess These spec Ankerkaroo	TAINTC	thod) thod) med too fr burned in too h ed in too h	equently high enough igh frequenc tal 88.6% to d Doringvyg	bossie crov	n cover re- total.		100 FOOTSLOPE (Convex) 3,1 SITE - 26 Excl. Sedges & Forbs April 2022 % 0 0 0 57 0 0 43 100 INTERMEDIATE / OVERGRAZED FOOTSLOPE (Convex) 3,1 SITE - 26 ISPD 5124 April 2022 5,9 Medium 1901 Low 5,77 Low 8 (8) Low 13 (15) Low 13,1 SITE - 26% 14,1 SITE - 26% 14

Table 2.1: Veld condition assessment table: Grass and s	hrub spec	ies cov	er and o	composit	tion at D	e Bad -	Soventix	(2022).
DE BAD -	SOVENTIX	(FOOTSLOPE (Convex) 3,1 Shale / Dolerite SITE - 27
SITE - 27 (GR		IT 1)						SITE - 27 Excl. Sedges & Forbs
			& High >	10 cm				April 2022 6,5
TUFT DISTANCES (in cm): Low is ≤ PHYTOMASS / FU			i ar nyn >	10 011				973
	ATES: South	5 .7						30° 50' 58,6"
DIDECTION	East	-						24° 21' 24,7"
HEIGHT ABOVI	OF TRANSEC							138° 1 280m
SOIL FORM (Mispah
VELD TYPE (Mucin	a & Rutherford	l, 2006)	1				1	Nku 4 - Eastern Upper Karoo
RASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low produ	ction Grass	Toxic	
DECREASERS		1			1			% on Grand Total 0
UBTOTAL (Decreaser category):								0
NCREASERS I		1	1	1	1		1	
o Increaser I species recorded UBTOTAL (Increaser I category):								0 0
ICREASERS II	-							
ristida adscensionis Eenjarige Steekgras	1,08			*				9
ristida congesta subsp. congesta Cat's tail Three-awn	2,07		**					** 35
inneapogon desvauxii Kalkgras iragrostis lehmanniana Lehmann's Love Grass	2,07	***						35
ragrostis obtusa Dew Grass / Douvatgras	2,94	***					1	**
ragrostis sp. Eragrostis	1,5		**			-		**
ragus koelerioides Creeping Carrot-seed Grass are Ground	0,84	1	L	**			1	8
UBTOTAL (Increaser II category):								56
OTAL (Grasses):								56
				COVER				
SHRUBS (BOSSIES)	D	ominant I	bossies c	ontribution	to cover (%)	65	
	Grazing	Palatable	Less	Unpalatable	Low		Cover	% on Grand Total
HRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	ralatable	Palatable	unpalatable	production Shrub	Toxic	(%)	,
mphiglossa triflora (Pterothrix spinescens) Voeltjie-kan-nie-sit-nie Friocephalus ericoides Kapokbos	1,31 2,43	***	**				0,02	1
Eriocephalus spinescens Doringkapok	2,43		**				2	6
lelichrysum lucillioides Kerriebos	0,94			*			0,01	1
Pentzia incana Ankerkaroo	2,88	***					8,5	25
Roepera incrustata Witkriedoring	1,5		**	*			0,2	1 4
Ruschia intricata (Eberlanzia ferox) Doringvygie OTAL (Shrubs / Bossies):	1,54						0,5	4 44
OTAL (Grasses + Shrubs / Bossies)								100
* Less than 1% of species recorded at site	· -							
Table 2.2: Trends in grass and shrub species composition	on, from Ta	able 2.1	•					FOOTSLOPE (Convex)
VELD CONDITION SUMMARY C								SITE - 27
VEED CONDITION COMMANY C				11100)				Excl. Sedges & Forbs
Cate	gories							April 2022 %
	er species							0
	r I species							0
	II species							56
	ed species Ground							0
	/Bossies							44
	otal							100
Veld Condition (Trollope's	Method / Tai	nton's Me	ethod)					INTERMEDIATE / OVERGRAZE
egend: Decreaser species - Grass and herbaceous species which decrease when Increaser I species - Grass and herbaceous species which increase when Increaser II species - Grass and herbaceous species which increase when Increaser II species - Grass and herbaceous species which increase when Table 2.3: Summary.	veld is under-u	tilized or r	not burned	in high enou	ugh frequen Iencies	cies		
								FOOTSLOPE (Convex) SITE - 27
SUM	MARY							ISPD 5125
uff distance (cm)								April 2022
uft distance (cm) oil erosion potential (Low is ≤5 cm, Medium >5-10 cm & High > 10cm)								6,5 Medium
uel load (4 tons per ha = threshold for burning)								973
uel load potential								Low
lumber of Grass species present per 100 m ² (excl. and incl. <1% of species)								4 (7)
rass Species Richness (High is = >15 spp, Low< 10 species) umber of Bossies species present per 2500 m ² (excl. and incl. <1% of specie	es)							Low 6 (6)
ossie Species Richness (High is = >15 spp, Low< 10 species)	- 1							Low
umber of bossies and grass species per 100 m ² (excl. and incl. <1% of spec	ies)							10 (13)
lant Species Richness (High is = >60 spp, Low< 20 species)		_	_					Low
ominant Bossie cover (% soil covered)	These spec	cies contri	buted in to	otal 94.9% to	bossie cro	WD COVER P	ecorded: 'A	14,23% (within range of 11 - 20% hkerkaroo (59,8% of total), Kapokbo
ominant species contributing to crown cover (%)				ook 14.1% o		307011		
umber of palatable grasses								2
alatability (potential) % ood grazing grasses %								28,6 3
orage value (Grasses only)								Low
eld Condition Index Total								3,97
Potential grazing capacity of the agricultural district (for an average annual ra	nfall of 300 m	m = 3 LSI	U/100 ha/y	/ear)				28,31
Condition on ISPD Degradation Axis (%) - Norm between 60% and 80%								39,3
								INTERMEDIATE
SPD Veld Condition Assessment lotes								

DE BAD -	SOVENTI	(FOOTSLOPE (Convex) 5 Siltstone / Shale
	ooven n	•						SITE - 28
SITE - 28 (GR	AZING UN	IT 1)						Excl. Sedges & Forbs April 2022
TUFT DISTANCES (in cm): Low is ≤5			& High > '	0 cm				8,8
PHYTOMASS / FU CO-ORDIN	EL LOAD (in I ATES: South	kg/ha)						1450 30° 50' 08,5"
	East							24° 21' 24,1"
DIRECTION (HEIGHT ABOVE								008°
SOIL FORM (I								1 262m Valsrivier
VELD TYPE (Mucina	a & Rutherford	, 2006)	1					Nku 4 - Eastern Upper Karo
RASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low produ	ction Grass	Toxic	
ECREASERS								% on Grand Total
Panicum coloratum (Small Buffalo Grass / Witbuffelsgras)	5,22	***						1
porobolus fimbriatus Bushveld Dropseed / Bosveldfynsaadgras UBTOTAL (Decreaser category):	7,03	****						** 1
NCREASERS I								
lo Increaser I species recorded								0
UBTOTAL (Increaser I category):								0
ristida adscensionis Eenjarige Steekgras	1,08			*				1
Chloris virgata Feather-top Chloris / Kwasgras	0,78					*		3
ynodon hirsutus Cynodon iragrostis chloromelas Curly-leaf Lovegrass / Fynkrulblaar-Eragrostis	1,5 3,24		**					12
ragrostis chiorometas Curly-tear Lovegrass / Fyrikrutiblaar-Eragrostis	3,24	***						1
ragrostis obtusa Dew Grass / Douvatgras	2,94	***	**					19
ragrostis sp. Eragrostis porobolus discosporus Disc Dropseed / Oortijesgras	1,5 3,47	***	**					2 12
ragus koelerioides Creeping Carrot-seed Grass	0,84			**				1
are Ground UBTOTAL (Increaser II category):								4
OTAL (ficteaser il category): OTAL (Grasses):								55
				COVER				
HRUBS (BOSSIES)	D	ominant	bossies c	ontribution	to cover (%	6)	65	
****	Grazing	Palatable	Less	Unpalatable	Low	Toxic	Cover	% on Grand Total
HRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	Tulutuble	Palatable **	onpulatable	Shrub	TOXIC	(%) 1	7 7
sparagus glauca Bloukatdoring aroxylon tuberculatum (Salsola tuberculata) Blomkoolganna	3,5	***					2	9
riocephalus ericoides Kapokbos	2,43	***					2	6
elicia muricata Bloublommetjie	1,5 0,5		**		*		0,5	4
oraea pallida Yellow Tulp / Geel Tulp entzia globosa Vaalkaroo	4,8	***					0,01	2
entzia incana Ankerkaroo	2,88	***					2	7
hymaspermum parvifolium Witheuningkaroo boepera incrustata Witkriedoring	3,38 1,5	****		*			0,01 5	1 6
oepera incrustata witknedoring								
uschia intricata (Eberlanzia ferox) Doringvygie	1,54		**				3	3
blago geniculata Persaar DTAL (Shrubs / Bossies): DTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site	1,5	able 3.		÷			3 0,01	3 ** 44 100
elego geniculata Persaar OTAL (Grasses + Shrubs / Bossies) OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 3.2: Trends in grass and shrub species compositi	1,5 on, from 1		1.	* THOD)				++ 44 100 FOOTSLOPE (Convex) SITE - 28
lelago geniculata Persaar OTAL (Ghrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) ' Less than 1% of species recorded at site	1,5 on, from 1		1.	· HOD)				
elego geniculata Persaar OTAL (Ghrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 3.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C	1,5 on, from 1 F TREND (gories		1.	· ·HOD)				•• 44 100 FOOTSLOPE (Convex) SITE - 28 Excl. Sedges & Forbs April 2022 %
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belgo geniculate Person OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 3.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY O Cate Cate Decrease Increase Inc	1,5 on, from 1 F TREND (gories er species I species II species ed species Ground		1.	HOD)				** 44 100 FOOTSLOPE (Convex) SITE - 28 Excl. Sedges & Forbs April 2022 % 1 0 51 0 4
Cate Decrease Increase Unidentifi Bare (Shrubs Tr	1,5 on, from 1 F TREND (gories r species r species d species Ground Bossies Sround	TAINTO	1. N'S MET	HOD)				** 44 100 FOOTSLOPE (Convex) SITE - 28 Excl. Sedges & Forbs April 2022 % 1 0 51 0
	1,5 on, from 1 F TREND (gories r species r species d species Ground Bossies Sround	TAINTO	1. N'S MET	HOD)				** 44 100 FOOTSLOPE (Convex) SITE - 28 Excl. Sedges & Forbs April 2022 % 1 0 51 0 4 44 100
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	SOVENTI	/						MIDSLOPE (Convex) Siltstone / Shale
DE BAD -	SOVENID	•						Siltstone / Shale SITE - 29
SITE - 29 (GR	AZING UN	IIT 1)						Excl. Sedges & Forbs
TUFT DISTANCES (in cm): Low is ≤			& High >	10 cm				April 2022 7,4
PHYTOMASS / FU			s ngt ≥	i o oill				2604
CO-ORDIN	ATES: South							30° 50' 09,9"
DIRECTION	East DF TRANSEC	т						24° 20' 35,0" 335°
HEIGHT ABOV								1 267m
SOIL FORM (Macvicar, 199	1)						Oakleaf
VELD TYPE (Mucin		1, 2006)						Nku 4 - Eastern Upper Kard
ASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low produ	ction Grass	Toxic	
CREASERS	-							% on Grand Total
Decreaser species recorded								0
BTOTAL (Decreaser category): CREASERS I								0
Increaser I species recorded								0
BTOTAL (Increaser I category):	ASERS II							0
stida congesta subsp. congesta Cat's tail Three-awn	3,36	**	**	1		1		7
istida diffusa Iron Grass	3,18	***						1
neapogon desvauxii Kalkgras	2,07	***	**					0
agrostis lehmanniana Lehmann's Love Grass agrostis obtusa Dew Grass / Douvatgras	3,24 2,94	***	<u> </u>					10 3
orobolus africanus Ratstail Dropseed / Taaipol	3,47	***						**
agus koelerioides Creeping Carrot-seed Grass	0,84			**				9
re Ground BTOTAL (Increaser II category):								1 32
TAL (Grasses):								32 32
				COVER				
IRUBS (BOSSIES)		ominant	bossies	ontribution	to cover (%)	60	
	Grazing	1	Less	1	Low	<u> </u>	Cover	ø/
RUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	Palatable	Palatable	Unpalatable	production Shrub	Toxic	(%)	% on Grand Total
nphiglossa triflora (Pterothrix spinescens) Voeltjie-kan-nie-sit-nie rkheya spinosa Vlaktedissel	1,31 0,68	***	**				0,5 0,1	3
rkheya spinosa Vlaktedissel ocephalus ericoides Kapokbos	2,43	***	<u> </u>				0,1	<u>1</u> 5
ocephalus spinescens Doringkapok	2,12		**				4	8
licia muricata Bloublommetjie	1,5	<u> </u>	**				0,5	4
edera humilis (Rosenia humilis) Perdekaroo ntzia globosa Vaalkaroo	1,77	***					0,5 2	5 4
ntzia incana Ankerkaroo	2,88	***					3	6
ymaspermum parvifolium Witheuningkaroo	3,38	****					8,5	21
eronia sordida Swartboegoe epera incrustata Witkriedoring	1,89 1,5			•			0,01 0,5	0
schia intricata (Eberlanzia ferox) Doringvygie	1,54		**				3	10
lago geniculata Persaar	1,5			*			0,01	**
TAL (Shrubs / Bossies):								68
TAL (Grasses + Shrubs / Bossies)								100
TAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site								100
	on, from T	fable 4.	1.					100
ess than 1% of species recorded at site	on, from T	fable 4.	1.					MIDSLOPE (Convex)
ess than 1% of species recorded at site				THOD)				MIDSLOPE (Convex) SITE - 29
Less than 1% of species recorded at site ible 4.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C	OF TREND (THOD)				MIDSLOPE (Convex) SITE - 29 Excl. Sedges & Forbs April 2022
Less than 1% of species recorded at site able 4.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C Cate	OF TREND ([HOD)				MIDSLOPE (Convex) SITE - 29 Excl. Sedges & Forbs April 2022 %
Less than 1% of species recorded at site able 4.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C Cate Decreas	DF TREND (egories er species			THOD)				MIDSLOPE (Convex) SITE - 29 Excl. Sedges & Forbs April 2022 % 0
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Less than 1% of species recorded at site ible 4.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C Cate Decreas Increase Unidentif	DF TREND (egories er species r I species r II species ied species			THOD)				MIDSLOPE (Convex) STE - 29 Excl. Sedges & Forbs April 2022 % 0 0 32 0
Less than 1% of species recorded at site ble 4.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C Cat Decreas Increase Unidentif Bare	DF TREND (egories er species r I species r II species ed species Ground			rhod)				MIDSLOPE (Convex) SITE - 29 Excl. Sedges & Forbs April 2022 % 0 0 32 0 1
Less than 1% of species recorded at site able 4.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C Cate Decrease Increase Increase Unidenti Bare Strubs	DF TREND (egories er species r I species r II species ied species			THOD)				MIDSLOPE (Convex) STE - 29 Excl. Sedges & Forbs April 2022 % 0 0 32 0
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Less than 1% of species recorded at site bld 4.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY (Cat Decrease Increase	PF TREND (gories er species r I species r I species r I species Ground Resosies stal Method / Tai edd is over-utilize MARY s) s) These species These species	TAINTO	bited in to	quently ligh enough gh frequenc	ies	WN COVER LE		MIDSLOPE (Convex) SITE - 29 Excl. Sedges & Forbs April 2022 % 0 0 32 0 1 68 100 POOR / OVERGRAZED MIDSLOPE (Convex) SITE - 29 ISPD 5127 April 2022 7.4 Medium 2604 Medium 6 (7) Low 12 (13) Medium 18 (20) Low (medium) 26.6% (within range of 21 - 3) April 2023
Less than 1% of species recorded at site bible 4.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY (Cat Decrease Increas	PF TREND (gories er species r I species r I species r I species Ground Resosies stal Method / Tai edd is over-utilize MARY s) s) These species These species	TAINTO	bited in to	quently ligh enough gh frequenc	ies	WN COVER LE		MIDSLOPE (Convex) SITE - 29 Excl. Sedges & Forbs April 2022 % 0 0 32 0 1 68 100 POOR / OVERGRAZED MIDSLOPE (Convex) SITE - 29 ISPD 5127 April 2022 7,4 Medium 2604 Medium 6 (7) Low 12 (13) Medium 26.6% (within range of 21-3) Low (medium) 26.6% (within range of 21-3)% of total), gygie, 11.3% each of total.
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DE BAD -	SOVENTI	(FOOTSLOPE (Convex) SANDSTEEN
								SITE - 30 Excl. Sedges & Forbs
SITE - 30 (GF								April 2022
TUFT DISTANCES (in cm): Low is ≤ PHYTOMASS / FI			& High >	IU CM				5,9 2080
CO-ORDIN	ATES: South							30° 50' 17,1"
DIRECTION	East OF TRANSEC	т						24° 21' 06,7" 246°
HEIGHT ABOV	E SEA LEVEL	(m)						1 347m
SOIL FORM VELD TYPE (Mucir	Macvicar, 199							Mispah Nku 4 - Eastern Upper Kar
	Grazing	Palatable	Less	Unpalatable	Low produ	ation Grass	Toxic	NKU 4 - Lastern Opper Kar
RASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	T diddoic	Palatable	onpulatione	Low produ	cuon orass	TOXIC	% on Crond Total
o Decreaser species recorded				1				% on Grand Total 0
UBTOTAL (Decreaser category): ICREASERS I								0
o Increaser I species recorded								0
UBTOTAL (Increaser I category): ICREASERS II								0
ristida adscensionis Eenjarige Steekgras	1,08			*				24
ristida congesta subsp. congesta Cat's tail Three-awn	3,36	**						**
inneapogon desvauxii Kalkgras	2,07	***	**					1 9
ragrostis lehmanniana Lehmann's Love Grass ragrostis obtusa Dew Grass / Douvatgras	2,94	***						2
ragrostis sp. Eragrostis	1,5		**					0
Pentameris montana ragus koelerioides Creeping Carrot-seed Grass	1,5 0,84			**	,	*		0 7
nidentified species	1,5					*		1
are Ground UBTOTAL (Increaser II category):								1
UBTOTAL (Increaser II category): OTAL (Grasses):								45 45
				COVER				
HRUBS (BOSSIES)	D	ominant	bossies c	ontribution	to cover (%	6)	65	
	Grazing	Palatable	Less	Unpalatable	Low production	Toxic	Cover	% on Grand Total
HRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	. Sincapie	Palatable **	purutabre	Shrub	I UNIC	(%) 0,1	0
sparagus glauca Bloukatdoring erkheya spinosa Vlaktedissel	0,68	***					0,1	0
riocephalus ericoides Kapokbos	2,43	***					10	23
riocephalus spinescens Doringkapok	2,12		**				3 0.01	9
elicia muricata Bloublommetjie lelichrysum lucillioides Kerriebos	0,94			*			0,01	1
ycium cinereum Kriedoring	1,63						0,1	0
lentzia globosa Vaalkaroo	4,8	***					1	2 9
entzia incana Ankerkaroo teronia sordida Swartboegoe	2,88			*			3 0.01	**
oepera incrustata Witkriedoring	1,5			*			1	3
luschia intricata (Eberlanzia ferox) Doringvygie	1,54						3	8
	4.5						0.04	
elago geniculata Persaar OTAL (Shrubs / Bossies):	1,5			*			0,01	** 55
OTĂL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies)	1,5			*			0,01	**
OTĂL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site		able 5	1	*			0,01	** 55
OTĂL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies)		able 5.	1.	×			0,01	** 55
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 5.2: Trends in grass and shrub species composit	ion, from 1			* THOD)			0,01	55 100 FOOTSLOPE (Convex) SITE - 30
OTĂL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site	ion, from 1			· ·HOD)			0,01	
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 5.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY (ion, from 1			· THOD)			0,01	55 100 FOOTSLOPE (Convex) SITE - 30
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 5.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY (Cat Decrea	ion, from 1 DF TREND (egories er species			- THOD)			0,01	** 55 100 FOOTSLOPE (Convex) SITE - 30 Excl. Sedges & Forbs April 2022 % 0
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 5.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY (Cat Decrease Increase	ion, from 1 DF TREND (egories er species rr I species			- THOD)			0,01	** 55 100 FOOTSLOPE (Convex) SITE - 30 Excl. Sedges & Forbs April 2022 % 0 0 0
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 5.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY (Cat Decreas Increase Increase	ion, from 1 DF TREND (egories er species			- THOD)			0,01	** 55 100 FOOTSLOPE (Convex) SITE - 30 Excl. Sedges & Forbs April 2022 % 0
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 5.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY (Cat Decreas Increase Unidenti Bare	ion, from 1 DF TREND (agories er species er l species ir l species ied species Ground			- THOD)			0,01	** 55 100 FOOTSLOPE (Convex) SITE - 30 Excl. Sedges & Forbs April 2022 % 0 0 0 44 0 1
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orTAL (Shrubs / Bossies): OrTAL (Grasses + Shrubs / Bossies): Less than 1% of species recorded at site Table 5.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY (Cat Decrease Increase Unidenti Bare Strubione Strubione Cat Cat Decrease + Strubione Cat Cat Decrease + Strubione Strubione Strubione Tecrease + Species - Grass and herbaceous species which decrease when Increase when Increase which decrease when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase when Increase + Species - Grass and herbaceous species which increase + Species - Grass + Species + Grass + Species + Species + Species - Grass + Species	ion, from 1 OF TREND (agories er species er species er l species Ground /Bossies otal Method / Tai ved is over-ute el is under-ute	TAINTO	N'S MET	requently			0,01	** 55 100 FOOTSLOPE (Convex) SITE - 30 Excl. Sedges & Forbs April 2022 % 0 0 44 0 1 55 100 INTERMEDIATE / OVERGR/ FOOTSLOPE (Convex) SITE - 30 ISPD 5128 April 2022 5,9 Medium
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DTĂL (Brubs / Bossies): DTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 5.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY (Cat Decrease Increase Unidenti Bare Structure Structure Cat Decrease Unidenti Bare Structure Structure Structure Structure Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass and herbaceous species which decrease when Increase I species - Grass prover 100 m2 (excl. and incl1% of species) unber of Grass species present per 100 m2 (excl. and incl1% of species) umber of Dossies species present per 2500 m2 (excl. and incl1% of species) Inter Species Richness (High is = >15 spp. Low-10 species) unber of Dossies and grass species per 100 m2 (excl. and incl1% of species) Inter Species Richness (High is = >15 spp. Low-20 species) Inter Species Richness (High is = >15 spp. Low-20 species) Inter Species Richness (High is = >15 spp. Low-20 species) Inter Species Richness (High is = >15 spp. Low-20 species) Inter Species Richness (High is = >15 spp. Low-20 species) Inter Species Richness (High is = >15 spp. Low-20 species) Inter Species Richness (High is = >15 spp. Low-20 species) Inter Species Richness (High is = >15 spp. Low-20 species) Inter Species Richness	ion, from 1 pF TREND (gories er species rl species ied species ied species otal Method / Tai Veld is over-util s) s) These spec and Doring	TAINTO	N'S MET	requently high enough high frequer	cies	vn cover re		** 55 100 55 100 FOOTSLOPE (Convex) SITE - 30 Excl. Sedges & Forbs April 2022 % 0 0 44 0 1 55 100 INTERMEDIATE / OVERGR/ FOOTSLOPE (Convex) SITE - 30 ISPD 5128 April 2022 5.9 Medium 2080 Medium 8 (9) Low 10 (13) Low (medium) 18 (22) Low 21.4% (within range of 21 - 3(okbos (46,7% of total). Ankert 2 22.2 11.1 Low 3.13 22.33
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								ix (2022). FOOTSLOPE (Concave)
DE BAD -	SOVENTIX	(Siltstone / Shale
		_						SITE - 31 Excl. Sedges & Forbs
SITE - 31 (GR								April 2022
TUFT DISTANCES (in cm): Low is ≤5 PHYTOMASS / FU	EL LOAD (in k		& High > 1	U CM				6,0 2208
CO-ORDIN/	ATES: South East							30° 50' 06,5"
DIRECTION	DF TRANSEC	г						24° 21' 38.9" 078°
HEIGHT ABOVE SOIL FORM (I								1 275m
VELD TYPE (Mucina								Etosha Nku 4 - Eastern Upper Kard
RASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing	Palatable	Less Palatable	Unpalatable	Low produ	ction Grass	Toxic	
ECREASERS	Index Value		Palatable					% on Grand Total
anicum coloratum Small Buffalo Grass / Witbuffelsgras	5,22	***						**
JBTOTAL (Decreaser category): CREASERS I								0
D Increaser I species recorded								0
JBTOTAL (Increaser I category): CREASERS II								0
istida adscensionis Eenjarige Steekgras	1,08			*				9
ristida congesta subsp. barbicollis Spreading Three-awn	1,04		**			*		**
hloris virgata Feather-top Chloris / Kwasgras nneapogon desvauxii Kalkgras	0,78 2,07		**					3
agrostis lehmanniana Lehmann's Love Grass	3,24	***						5
agrostis obtusa Dew Grass / Douvatgras agrostis sp. Eragrostis	2,94 1,5	***	**					7
icrochloa caffra Pincushion Grass	1,24		1		,	*		1
agus koelerioides Creeping Carrot-seed Grass are Ground	0,84	I	L	**			I	6
JBTOTAL (Increaser II category):								32
DTAL (Grasses):								32
IRUBS (BOSSIES)				COVER				
		ominant	1	ontribution	to cover (%	6)	80	
HRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	production Shrub	Toxic	Cover (%)	% on Grand Total
paragus glauca Bloukatdoring	1 0.68	***	**				3 0,01	11 0
irkheya spinosa Vlaktedissel iocephalus ericoides Kapokbos	2,43	***					20	13
licia muricata Bloublommetjie							3	9
oraea paliida Yellow Tulp / Geel Tulp entzia incana Ankerkaroo	0,5 2,88	***			*		0,01 18	0 21
entzia globosa Vaalkaroo	4,8	***					10	10
hymaspermum parvifolium Witheuningkaroo	3,38	****					1	2
oepera incrustata Witkriedoring uschia intricata (Eberlanzia ferox) Doringvygie	3,38 1,54						0,1 3	0 2
elago geniculata Persaar	1,5			*			0,01	0
DTAL (Shrubs / Bossies): DTAL (Grasses + Shrubs / Bossies)								68 100
Less than 1% of species recorded at site								
able 6.2: Trends in grass and shrub species compositi	on, from T	able 6	.1.					FOOTSLOPE (Concave)
VELD CONDITION SUMMARY O				HOD)				SITE - 31
								Excl. Sedges & Forbs April 2022
	gories							%
	er species r I species							0
	II species							32
	ed species							0
	Ground /Bossies							0 68
Τα	otal							100
Veld Condition (Trollope's	Method / Tair	nton's Me	ethod)					INTERMEDIATE / OVERGRAZ
<u>spend:</u> Decreaser species - Grass and herbaceous species which decrease when Increaser / species - Grass and herbaceous species which increase when w Increaser II species - Grass and herbaceous species which increase when we Increase II species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase in the species - Grass and herbaceous species which increase when we increase we herbaceous species which increase when we herbaceous species which increase when we herbaceous species which increase we herbaceous species we herbaceous species which increase we herbaceous species which increase we herbaceous species we herbaceous species we herbaceous species we herbaceous species which increase we herbaceous species we he	eld is under-util	ized or no	ot burned in	high enoug	h frequencie ncies	IS		
able 6.3: Summary.								
	MARY							FOOTSLOPE (Concave) SITE - 31
SUM	MARY							ISPD 5129
ft distance (cm)								April 2022 6,0
il erosion potential (Low is ≤5 cm, Medium >5-10 cm & High > 10cm)								Medium
el load (4 tons per ha = threshold for burning) el load potential								2208 Medium
mber of Grass species present per 100 m ² (excl. and incl. <1% of species)								7 (10)
ass Species Richness (High is = >15 spp, Low< 10 species) mber of Bossies species present per 2500 m ² (excl. and incl. <1% of species								Low 11 (11)
ssie Species Richness (High is = >15 spp, Low< 10 species)	2)							11 (11) Low
mber of bossies and grass species per 100 m ² (excl. and incl. <1% of specie	es)							18 (21)
ant Species Richness (High is = >60 spp, Low< 20 species) minant Bossie cover (% soil covered)								Low 58.1% (within range of >50%
minant species contributing to crown cover (%)								: 'Kapokbos (34.4% of total),
minimum species commuting to crown cover (76)	Anker	karoo (31	.0%), Vaall	karoo (17.0%	% of total);E	lloukatdoor	n, Bloublorr	metjie and Doringvygie each 2
latability (potential) %								22,2
ood grazing grasses %								12,0
orage value (Grasses only) eld Condition Index Total								Low 2,24
ptential grazing capacity of the agricultural district (for an average annual rain	fall of 300 mm	i = 3 LSU	/100 ha/ye	ar)				15,96
ondition on ISPD Degradation Axis (%) - Norm between 60% and 80%								37,7
PD Veld Condition Assessment								INTERMEDIATE
PD Veld Condition Assessment stes								
								ING GUIDELINES AND ACH CAMP. TAKE INTO

Cable 7.1: Veld condition assessment table: Grass and	Sin up ope							
DE BAD	SOVENTI	(PAN ECOTONE (Concave Siltstone / Shale
								SITE - 32 Excl. Sedges & Forbs
SITE - 32 (GI								April 2022
TUFT DISTANCES (in cm): Low is a PHYTOMASS / F	UEL LOAD (in		& High > 1	10 cm				5,6 2040
	NATES: South East							30° 49' 48,2" 24° 21' 47,3"
	OF TRANSEC							120°
HEIGHT ABO SOIL FORM	/E SEA LEVEL (Macvicar, 199							1 283m Etosha
VELD TYPE (Muci	na & Rutherford							Nku 4 - Eastern Upper Karo
RASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low produ	ction Grass	Toxic	
lo Decreaser species recorded								% on Grand Total 0
UBTOTAL (Decreaser category): ICREASERS I								0
o Increaser I species recorded		[I		[0
UBTOTAL (Increaser I category): ICREASERS II								0
ristida adscensionis Eenjarige Steekgras hloris virgata Feather-top Chloris / Kwasgras	1,08			*				9
Cynodon hirsutus Cynodon	2,5				*	*		14
nneapogon desvauxii Kalkgras ragrostis obtusa Dew Grass / Douvatgras	2,07	***	**					0 7
Propetium capense Dwarf Grass / Haasgras	1,04		**					3
porobolus discosporus Disc Dropseed / Oortjiesgras	3,47 0,84	***		**				2 5
are Ground								2
UBTOTAL (Increaser II category): OTAL (Grasses):								41 41
HRUBS (BOSSIES)				COVER				
	Grazing	1	bossies co	1	to cover (%		80 Cover	
HRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	Palatable	Palatable	Unpalatable	production Shrub	Toxic	(%)	% on Grand Total
Isparagus glauca Bloukatdoring Boophane disticha (Gifbol)	1 0,68		**			***	0,1 0,01	4
Caroxylon tuberculatum (Salsola tuberculata) Blomkoolganna	3,5	***					0,5	3
Eriocephalus ericoides Kapokbos Eriocephalus spinescens Doringkapok	2,43 2,12	***	**				4	7
elicia muricata Bloublommetjie	1,5		**				0,1	11
ycium sp. Dedera humilis (Rosenia humilis) <mark>Perdekaroo</mark>	1,63		**				0,1 0,01	0
Pentzia incana Ankerkaroo	2,88	***					9	21
Phymaspermum parvifolium Witheuningkaroo Pteronia cf glauca Geelboegoekaroo	3,38	****		*			1 0.01	6
Pteronia sordida Swartboegoe	1,89		**	*			0,01	0
Ruschia intricata (Eberlanzia ferox) Doringvygie Selago geniculata Persaar	1,54 1,5			*			0,1 0,01	2
OTAL (Shrubs / Bossies):								59
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site								59 100
OTAL (Grasses + Shrubs / Bossies)	tion, from 1	fable 7.	.1.					100
OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Fable 7.2: Trends in grass and shrub species composi				HOD)				100
OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site				HOD)				100 PAN ECOTONE (Concave SITE - 32 Excl. Sedges & Forbs
OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 7.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY Ca	OF TREND ('HOD)				100 PAN ECOTONE (Concave SITE - 32
OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 7.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY Ca Decrea	OF TREND (legories ser species			'HOD)				100 PAN ECOTONE (Concave SITE - 32 Excl. Sedges & Forbs April 2022 % 0
OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 7.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY Ca Decrea Increas Increas	OF TREND (legories ser species er I species er II species			HOD)				100 PAN ECOTONE (Concave SITE - 32 Excl. Sedges & Forbs April 2022 % 0 0 39
OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 7.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY Ca Decrea Increas Unicees Unident Unident	OF TREND (legories ser species er I species er II species fied species			HOD)				100 PAN ECOTONE (Concave SITE - 32 Excl. Sedges & Forbs April 2022 % 0 0 0 39 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 7.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY Ca Decrea Increas Unident Bare Shrub	OF TREND (legories ser species er I species r Il species fied species ground s /Bossies			HOD)				100 PAN ECOTONE (Concave SITE - 32 Excl. Sedges & Forbs April 2022 % 0 0 39 0 2 59
OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 7.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY Ca Decrea Increas Unident Bare Shrub	OF TREND (legories ser species er I species er II species filed species is Ground s /Bossies Total	TAINTO	IN'S MET	'HOD)				100 PAN ECOTONE (Concave SITE - 32 Excl. Sedges & Forbs April 2022 % 0 0 0 39 0 2 59 100
OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 7.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY Ca Decrea Increas Unident Bare Shrub Veld Condition (Trollope)	OF TREND (regories ser species er I species er Il species fied species of oround s /Bossies fotal s Method / Taii	TAINTO	thod)					100 PAN ECOTONE (Concave SITE - 32 Excl. Sedges & Forbs April 2022 % 0 0 0 39 0 2 59 100
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OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 7.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY VELD CONDITION SUMMARY Ca Decrea Increas Unident Bar Shrub Veld Condition (Trollope) Veld Condition (Trollope) egend: Decreaser species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase I species - Grass and herbaceous species when Increase I species - Grass and herbaceous species which increase I species - Grass and herbaceous species when Increase I species - Grass and herbaceous species when Increase I species - Grass and herbaceous species when Increase I species - Grass and herbaceous species when Increase I species - Grass and herbaceous species when Increase I species - Grass and herbaceous species I species - Grass and herbaceous species I species - Grass I s	OF TREND (legories ser species er Il species er Ground s /Bossies Fotal s Method / Tail n veld is over-utt	TAINTO	thod)	requently		S		100 PAN ECOTONE (Conceave SITE - 32 Excl. Sedges & Forbs April 2022 % 0 0 39 0 2 59 100 INTERMEDIATE / OVERGRAZ
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OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 7.2: Trends in grass and shrub species composite VELD CONDITION SUMMARY Ca Decrea Increase Increase Unident Bard Veld Condition (Trollope') Veld Condition (Trollope') Veld Condition (Trollope') eegend: Decreaser species - Grass and herbaceous species which decrease when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass and herbaceous species which increase when Increase I'l species - Grass is present per 100 m² (excl. and incl. <1% of species)	DF TREND (legories ser species er I species field species Ground s /Bossies Ground s Method / Tail a Method	TAINTO	ethod)	requently high enoug			corded: 'Ka	100 PAN ECOTONE (Concave SITE - 32 Eccl. Sedges & Forbs April 2022 % 0 0 0 2 59 0 0 2 59 100 INTERMEDIATE / OVERGRAZ PAN ECOTONE (Concave SITE - 32 ISPD 5130 April 2022 5,6 Medium 2040 Medium 7 (8) Low 13 (14) Low 20 (22) Low
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								FOOTSLOPE (Convex)
DE BAD -	SOVENTIX	(Siltstone / Shale
								SITE - 33 Excl. Sedges & Forbs
SITE - 33 (GR								April 2022
TUFT DISTANCES (in cm): Low is ≤ PHYTOMASS / FU			& High > 1	10 cm				5,6 2649
	ATES: South	kg/na)						30° 49' 42,0"
	East	_						24° 22' 32,5"
DIRECTION (HEIGHT ABOVI	OF TRANSEC							339° 1 282m
SOIL FORM (Mispah
VELD TYPE (Mucin	a & Rutherford	l, 2006)		1				Nku 4 - Eastern Upper Kar
RASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low produ	ction Grass	Toxic	
ECREASERS								% on Grand Total
ingerhithia africana Vingerhoedgras / Thimble grass	2,07		**					3
UBTOTAL (Decreaser category): ICREASERS I								3
o Increaser I species recorded			1					0
UBTOTAL (Increaser I category):								0
ICREASERS II ristida adscensionis Eenjarige Steekgras	1,08	1	1	•			1	10
nneapogon desvauxii (Kalkgras)	2,07		**					5
ragrostis lehmanniana Lehmann's Love Grass	3,24	***						26
ragrostis obtusa Dew Grass / Douvatgras ragus koelerioides Creeping Carrot-seed Grass	2,94 0,84	***		**				8 4
agus koelerioides Creeping Carrot-seed Grass	0,04	1	1	1	I		1	0
JBTOTAL (Increaser II category):								53
OTAL (Grasses):								56
HRUBS (BOSSIES)				COVER				
	D	ominant	bossies c	ontribution		6)	60	
HRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low production	Toxic	Cover	% on Grand Total
sparagus glauca Bloukatdoring	1		**		Shrub		(%) 0,5	3
erkheya spinosa Vlaktedissel	0,68	***		1			0,1	1
Coophane disticha (Gifbol)	0,68 3,5	***	<u> </u>			***	0,01	**
aroxylon tuberculatum (Salsola tuberculata) Blomkoolganna iriocephalus ericoides Kapokbos	2,43	***					0,1 0,5	3
riocephalus spinescens Doringkapok	2,12		**				1	3
uryops asparagoides Bultdraaibos	1,51	***		*			1	3
entzia incana Ankerkaroo	2,88	****					9	27
hymaspermum panyifolium Witheupingkaroo	3.38							
Phymaspermum parvifolium Witheuningkaroo Ruschia intricata (Eberlanzia ferox) Doringvygie	3,38 1,54		**				0,1 0,5	1
Ruschia intricata (Eberlanzia ferox) Doringvygie Relago geniculata Persaar			**	*				1 2
uschia intricata (Eberlanzia ferox) Doringvygie Nelago geniculata Persaar OTAL (Shrubs / Bossies):	1,54		**	*			0,5	1 2 44
	1,54		**	*			0,5	1 2
Ruschia intricata (Eberlanzia ferox) Doringvygie Belgo geniculata Persaar OTAL (Shrubs / Bossies): OTAL (Grubs / Bossies): OTAL (Grusses + Shrubs / Bossies)	1,54 1,5	able 8.1		*			0,5	1 2 44 100
Ruschia intricata (Eberlanzia ferox) Doringvygie Jelago geniculata Persaar OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Fable 8.2: Trends in grass and shrub species composition	1,54 1,5		1.	*			0,5	1 2 44 100 FOOTSLOPE (Convex)
Ruschia intricata (Eberlanzia ferox) Doringvygie Jelago geniculata Persaar OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site	1,54 1,5		1.	THOD)			0,5	1 2 44 100
Ruschia intricata (Eberlanzia ferox) Doringvygie Belago geniculata Persaar OTAL (Shrubs / Bossies): OTAL (Grubs / Bossies): OTAL (Grubs / Bossies) * Less than 1% of species recorded at site fable 8.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C	1,54 1,5 Dn, from Ta		1.	THOD)			0,5	1 2 44 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022
Ruschia intricata (Eberlanzia ferox) Doringrygie Belago geniculata Persaar OTAL (Strube J Bossies): OTAL (Grube J Bossies): Tess than 1% of species recorded at site Table 8.2: Trends in grass and shrub species compositii VELD CONDITION SUMMARY C Cate	1,54 1,5 Don, from Ta		1.	THOD)			0,5	1 2 44 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022 %
Ruschia intricata (Eberlanzia ferox) Doringvygie elego genicultat Persaar OTAL (Shrubs / Bossies): OTAL (Grubs / Bossies): OTAL (Grubs / Bossies) Less than 1% of species recorded at site Table 8.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C Cate Decreas	1,54 1,5 Dn, from Ta		1.	THOD)			0,5	1 2 44 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022
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Ruschia intricata (Eberlanzia ferox) Doringvygie Belgo geniculata Persaar OTAL (Shrubs / Bossies): OTAL (Grubs/ Bossies): OTAL (Grubs/ Bossies): Table 8.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C Cate Cate Decreas Increase Unidentifi	1,54 1,5 Don, from Ta DF TREND (gories er species r I species el species ed species		1.	· THOD)			0,5	1 2 44 100 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022 % 3 0 533 0 0 533 0
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Ruschia intricata (Eberlanzia ferox) Doringvygie Belago geniculata Persaar OTAL (Strubs/ Bossies): OTAL (Grubs/ Bossies): OTAL (Grubs/ Bossies): Table 8.2: Trends in grass and shrub species compositie VELD CONDITION SUMMARY C Cate Decreas Increase Increase Unidentifi Bare Shrubs To	1,54 1,5 F TREND (gories er species rl species el species d'apecies d'apecies d'apecies d'apecies d'apecies d'apecies d'apecies d'apecies d'apecies	TAINTO	I. DN'S ME	THOD)			0,5	1 2 44 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022 % 3 0 3 0 53 0 0 44 100
Ruschia intricata (Eberlanzia ferox) Doringvygie Belago geniculata Persaar OTAL (Strubs/ Bossies): OTAL (Strubs/ Bossies): OTAL (Strubs/ Bossies): Table 8.2: Trends in grass and shrub species compositie VELD CONDITION SUMMARY C Cate Cate Decreas Increase Unidentifi Bare Shrubs Shrubs Table Condition (Trollope's	1,54 1,5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	TAINTO nton's Me	I. DN'S ME				0,5	1 2 44 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022 % 3 0 53 0 0 444
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Auschia intricata (Eberlanzia ferox) Doringvygie Belago geniculata Persaar OTAL (Strubs / Bossies): OTAL (Strubs / Bossies): DTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 8.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C Cate Cate Cate Cate Cate Cate Cate Cat	1,54 1,5 F TREND (gories F TREND (gories r species r1 species r1 species ed species Ground Rossies Rossies Rossies tal Method / Tai welto d ver-util	TAINTO	I. DN'S ME	equently high enough			0,5	1 2 44 100 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022 % 3 0 3 0 0 53 0 0 44 100
Ruschia intricata (Eberlanzia ferox) Doringrygie Belago geniculata Persaar OTAL (Strubs / Bossies): OTAL (Grubs / Bossies): Less than 1% of species recorded at site Table 8.2: Trends in grass and shrub species compositi VELD CONDITION SUMMARY C Catte Catte Catte Decrease Increase Unidentifi Bare Shrubs Tr Veld Condition (Trollope's egend: Decrease when we Increase r species - Grass and herbaceous species which increase when we Increase r I species - Grass and herbaceous species which increase when we Increase r I species - Grass and herbaceous species which increase when we Increase r I species - Grass and herbaceous species which increase when we Increase r I species - Grass and herbaceous species which increase when we	1,54 1,5 F TREND (gories F TREND (gories r species r1 species r1 species ed species Ground Rossies Rossies Rossies tal Method / Tai welto d ver-util	TAINTO	I. DN'S ME	equently high enough			0,5	1 2 44 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022 % 3 0 53 0 44 100 INTERMEDIATE / OVERGRA FOOTSLOPE (Convex)
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Iuschia intricata (Eberlanzia ferox) Doringvygie lelago geniculata Persaar OTAL (Struks Possies): OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site able 8.2: Trends in grass and shrub species compositions VELD CONDITION SUMMARY O Cata Decrease Increase Increase Unidentifi Bare Shrubs Tr Veld Condition (Trollope's Segend: Decreaser species - Grass and herbaceous species which increase when ve Increase when ve Increase and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Trable 8.3: Summary.	1,54 1,5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	TAINTO	I. DN'S ME	equently high enough			0,5	1 2 44 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022 % 3 0 53 0 44 100 INTERMEDIATE / OVERGRA FOOTSLOPE (Convex)
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Auschia intricata (Eberlanzia ferox) Doringvygie elago geniculata Persaar OTAL (Struks Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site able 8.2: Trends in grass and shrub species compositin VELD CONDITION SUMMARY C Cata Cata Cata Cata Decreas Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase I species - Grass and herbaceous species which increase when ve Increase Species Richness (High is = >15 spp, Low<10 species) Inmber of Bossies and grass species present per 2500 m² (excl. and incl. <1% of species Inmber of bossies and grass species present per 2500 m² (excl. and incl. <1% of species Inmber of palatable grasses Intatability (potential) Inder of palatabe grasses Intatability (potential) Inder of palatabe grasses Intatability (potential) Inder of palatabe grasses solicover (% soli covered) Inmit	1,54 1,5	TAINTC	I. PN'S ME thod) thod) rred too fr burned in too h ed in too h ed in too h	equently igh enough igh frequenc				1 2 44 100 SITE - 33 Excl. Sedges & Forbs April 2022 % 3 0 53 0 100 INTERNEDIATE / OVERGRA SITE - 33 ISPD 5131 April 2022 5.6 Medium 2649 Medium 10(11) Low 112,9% (within range of 11 - 2 40,0 34,0 30 2,09 14,95
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Auschia intricata (Eberlanzia ferox) Doringvygie elego geniculata Persaar OTAL (Strubs Bossies): OTAL (Grasses + Shrubs / Bossies): CIL (Grasses + Shrubs / Bossies): VELD CONDITION SUMMARY C Cate C	1,54 1,5	TAINTO	I. PN'S ME thod) thod) med too fr burned in too h ed in too h e	equently igh enough igh frequenc aroo, contribu	uted in total	100.0% to	0.5 0.1	1 2 44 100 FOOTSLOPE (Convex) SITE - 33 Excl. Sedges & Forbs April 2022 % 3 0 53 0 100 INTER 444 100 INTERMEDIATE / OVERGRA SITE - 33 ISPD 5131 April 2022 5,6 Medium 6 (6) Low 10 (11) Low 12,9% (within range of 11 - 2 40,0 34,0 30 2,09 14,95 46,3

Table 9.1: Veld condition assessment table: Grass and s								CREST (Convex)	
DE BAD -	SOVENTI	C						SANDSTONE	
								SITE - 34 Excl. Sedges & Forbs	
SITE - 34 (GR								April 2022	
TUFT DISTANCES (in cm): Low is ≤5 PHYTOMASS / FU			& High > 1	IU cm				4,9 Not assessed	
	TES: South	(g/na)						30° 49' 59,0"	
DIDEOTION	East	.						24° 22' 56,4"	
DIRECTION (HEIGHT ABOVE								328° 1 296m	
SOIL FORM (I								Mispah	
VELD TYPE (Mucina	& Rutherford	, 2006)						Nku 4 - Eastern Upper Karo	
GRASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low produc	ction Grass	Toxic		
DECREASERS	1	1	1	•			1	% on Grand Total	
No Decreaser species recorded SUBTOTAL (Decreaser category):								0	
NCREASERS I									
No Increaser I species recorded SUBTOTAL (Increaser I category):								0	
NCREASERS II								U	
Aristida adscensionis Eenjarige Steekgras	1,08			*				39	
Aristida diffusa Iron Grass	3,18	***			*	*		0	
Cynodon hirsutus Cynodon Enneapogon desvauxii Kalkgras	1,5		**			-		4 8	
Eragrostis lehmanniana Lehmann's Love Grass	3,24	***						1	
Fragrostis obtusa Dew Grass / Douvatgras	2,94	***						2	
Dropetium capense Dwarf Grass / Haasgras Bare Ground	1,04		**					4	
Subrotal (Increaser II category):								0 59	
roTAL (Grasses):								59	
SHRUBS (BOSSIES)				COVER					
Shrubs (B033)	C	ominant	bossies c	ontribution	to cover (%	b)	80		
	Grazing	Palatable	Less	Unpalatable	Low	Toxic	Cover	% on Grand Total	
HRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	Falatable	Palatable **	onpalatable	Shrub	TOXIC	(%)		
Asparagus glauca Bloukatdoring Eriocephalus ericoides Kapokbos	2,43	***	**				0,1 11	1 33	
Euryops asparagoides Bultdraaibos	1,51			*			1	2	
Felicia muricata Bloublommetjie	1,5		**				0,1	1	
Pentzia incana Ankerkaroo	2,88	***						4	
	2,00						0,5		
'OTAL (Shrubs / Bossies): 'OTAL (Grasses + Shrubs / Bossies)	2,00						0,5	41 100	
FOTAL (Shrubs / Bossies): FOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site							0,5	41	
FOTAL (Shrubs / Bossies): FOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition			 				0,5	41 100	
FOTAL (Shrubs / Bossies): FOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species compositio	n, from T	able 9.1					0,5	41 100 CREST (Convex)	
FOTAL (Shrubs / Bossies): FOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site	n, from T	able 9.1		THOD)			0,5	41 100 CREST (Convex) SITE - 34	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species compositio VELD CONDITION SUMMARY C	n, from T F TREND (able 9.1		THOD)			0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species compositio VELD CONDITION SUMMARY C	n, from T F TREND (gories	able 9.1		THOD)			0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 %	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species compositio VELD CONDITION SUMMARY C Cate Decrease	on, from T F TREND (gories er species	able 9.1		THOD)			0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate Decrease Increase	n, from T F TREND (gories	able 9.1		THOD)			0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 %	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate Decrease Increase Unidentifi	n, from T F TREND (gories r species I species Il species ed species	able 9.1		THOD)			0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 59 0	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species compositio VELD CONDITION SUMMARY C Cate Cate Decrease Increase Unidentifi Bare 0	n, from T F TREND (gories r species I species Il species ad species Ground	able 9.1		THOD)			0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 0 59 0 0 0 0	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate Cate Decrease Increase Unidentifi Bare t Bare t Shrubs	F TREND (gories r species I species II species ed species Fround /Bossies	able 9.1		THOD)			0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 59 0 0 41	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate Cate Decrease Increase Unidentifi Bare t Bare t Shrubs	n, from T F TREND (gories r species l species l species d species Ground Bossies tal	able 9.1 TAINTO	N'S MET	THOD)			0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 59 0 0 0 0	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate Decrease Increase Unidentifi Bare (Shrubs Cate	n, from T F TREND (gories rr species I species Il species Ground Bossies tal Method / Taii veld is over-u	able 9.1 TAINTO	N'S MET	frequently			0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 59 0 0 41 100	
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate Decrease Increase Increase Unidentif Bare Shrubs Teleform Veld Condition (Trollope's Segend: Decrease species - Grass and herbaceous species which increase when Increase when vicin decrease when Increase when vicin decrease when	In, from T F TREND (jories Ir species I species ad species ad species around (Bossies tai Method / Taii veld is uver-u el is under-u	able 9.1 TAINTO	thod)	frequently n high enou		ies	0,5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 59 0 0 41 100	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate C	In, from T F TREND (jories Ir species I species ad species ad species around (Bossies tai Method / Taii veld is uver-u el is under-u	able 9.1 TAINTO	thod)	frequently n high enou		ies	0.5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 59 0 0 41 100	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate C	In, from T F TREND (jories Ir species I species ad species ad species around (Bossies tai Method / Taii veld is uver-u el is under-u	able 9.1 TAINTO	thod)	frequently n high enou		ies	0.5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 0 59 0 0 0 41 100 POOR / OVERGRAZED	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate C	n, from T F TREND (gories rr species I species Il species Sround Bossies tal Method / Tali y veld is over-ut	able 9.1 TAINTO	thod)	frequently		ies	0.5	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 59 0 0 41 100	
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TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate Decrease Increase Increase Increase Increase Increase Unidentifi Bare 1 Shrubs Increase Unidentifi Bare 1 Shrubs Increase Shrubs Increase Shrubs Increase Increase <td colspaci<="" td=""><td>In, from T F TREND (gories r species I species I species d species fround Bossies tal Method / Tai Bossies tal Method / Tai is over-uti d is under-uti eld is under-uti sover-uti sover-uti sover-uti sover-uti a contributed Contributed</td><td>able 9.1 TAINTO</td><td>thod) urned too ot burned too ot burned in too</td><td>frequently in high encount b high freque b high freque cover.</td><td>encles ·</td><td></td><td></td><td>41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 0 41 100 POOR / OVERGRAZED CREST (Convex) SITE - 34 ISPD 5132 April 2022 4.9 Low Not assessed Very High 7 (7) Low 12 (12) Low 12 (12) Low 13 (19) Low 14 (19) Low 12 (12) Low 13 (19) Low 14 (19) Low 12 (12) Low 13 (19) Low 13 (19) Low 14 (19) Low 13 (17) Low 13 (19) Low 13 (19) Low 13 (19) Low 13 (19) Low 13 (19) CREST (Convex) 13 (19) Low 13 (19) Low 13 (19) Low 14 (19) Low 13 (19) Low 13 (19) Low 14 (19) Low 15 (19) Con 16 (19) Low 16 (19) Con 17 (10) Con 16 (19) Con 17 (10) Con 16 (19) Con 17 (10) Con 17 (10) Con 18 (19) Con 18 (19)</td></td>	<td>In, from T F TREND (gories r species I species I species d species fround Bossies tal Method / Tai Bossies tal Method / Tai is over-uti d is under-uti eld is under-uti sover-uti sover-uti sover-uti sover-uti a contributed Contributed</td> <td>able 9.1 TAINTO</td> <td>thod) urned too ot burned too ot burned in too</td> <td>frequently in high encount b high freque b high freque cover.</td> <td>encles ·</td> <td></td> <td></td> <td>41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 0 41 100 POOR / OVERGRAZED CREST (Convex) SITE - 34 ISPD 5132 April 2022 4.9 Low Not assessed Very High 7 (7) Low 12 (12) Low 12 (12) Low 13 (19) Low 14 (19) Low 12 (12) Low 13 (19) Low 14 (19) Low 12 (12) Low 13 (19) Low 13 (19) Low 14 (19) Low 13 (17) Low 13 (19) Low 13 (19) Low 13 (19) Low 13 (19) Low 13 (19) CREST (Convex) 13 (19) Low 13 (19) Low 13 (19) Low 14 (19) Low 13 (19) Low 13 (19) Low 14 (19) Low 15 (19) Con 16 (19) Low 16 (19) Con 17 (10) Con 16 (19) Con 17 (10) Con 16 (19) Con 17 (10) Con 17 (10) Con 18 (19) Con 18 (19)</td>	In, from T F TREND (gories r species I species I species d species fround Bossies tal Method / Tai Bossies tal Method / Tai is over-uti d is under-uti eld is under-uti sover-uti sover-uti sover-uti sover-uti a contributed Contributed	able 9.1 TAINTO	thod) urned too ot burned too ot burned in too	frequently in high encount b high freque b high freque cover.	encles ·			41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 0 41 100 POOR / OVERGRAZED CREST (Convex) SITE - 34 ISPD 5132 April 2022 4.9 Low Not assessed Very High 7 (7) Low 12 (12) Low 12 (12) Low 13 (19) Low 14 (19) Low 12 (12) Low 13 (19) Low 14 (19) Low 12 (12) Low 13 (19) Low 13 (19) Low 14 (19) Low 13 (17) Low 13 (19) Low 13 (19) Low 13 (19) Low 13 (19) Low 13 (19) CREST (Convex) 13 (19) Low 13 (19) Low 13 (19) Low 14 (19) Low 13 (19) Low 13 (19) Low 14 (19) Low 15 (19) Con 16 (19) Low 16 (19) Con 17 (10) Con 16 (19) Con 17 (10) Con 16 (19) Con 17 (10) Con 17 (10) Con 18 (19) Con 18 (19)
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Fable 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate Decrease Increase Increase Increase Unidentifi Bare 1 Shrubs Cate Optimize Structure Unidentifi Bare 1 Shrubs Cate Shrubs Cate Condition (Trollope's Segend: Decreaser species - Grass and herbaceous species which decrease when Increaser / species - Grass and herbaceous species which increase when increaser // species - Grass and herbaceous species which increase when increaser // species - Grass and herbaceous species which increase when increaser // species - Grass and herbaceous species which increase when increaser // species - Grass and herbaceous species which increases when increaser // species	In, from T F TREND (gories r species I species I species d species fround Bossies tal Method / Tai Bossies tal Method / Tai is over-uti d is under-uti eld is under-uti sover-uti sover-uti sover-uti sover-uti a contributed Contributed	able 9.1 TAINTO	thod) urned too ot burned too ot burned in too	frequently in high encount b high freque b high freque cover.	encles ·			41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 0 0 41 100 POOR / OVERGRAZED CREST (Convex) SITE - 34 ISPD 5132 April 2022 4.9 Low Not assessed Very High 7 (7) Low Not assessed Very High 7 (7) Low 12 (12) Low 19 (19) Low 12,7% (within range of 11 - 2C nt bossie crown cover: It 3 42,9 3.6 Low 3,70 26,45	
OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) 'Less than 1% of species recorded at site 'able 9.2: Trends in grass and shrub species composition VELD CONDITION SUMMARY C Cate Decrease Increase Unidentifi Bare (Shrubs Shrubs Cetesser species - Grass and herbaceous species which decrease when Increaser / species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increase (High is =>15 sp. Low< 10 species) Uniber of Bossies species present per 2500 m ² (excl. and incl. <1% of species Intro of Bossies and grass species per 2500 m ² (excl. and incl. <1% of species Intro of palatable grasses Intro of palat	In, from T F TREND (gories r species I species I species d species Ground Bossies tal Method / Tai u veld is over-ut eld is under-u- eld is under-u- eld is over-ut s) ies) ies)	able 9.1 TAINTO nton's Me tilized or to lized or bu	N'S MET	frequently in high enous high frequently os, contribu cover.	ted in total	100.0% to t	he domina	41 100 CREST (Convex) SITE - 34 Excl. Sedges & Forbs April 2022 % 0 0 0 41 100 POOR / OVERGRAZED CREST (Convex) SITE - 34 ISPD 5132 April 2022 4.9 Low Not assessed Very High 7 (7) Low 12 (12) Low 19 (19) Low 19 (19) Low 19 (19) Low 19 (19) Low 19 (19) Low 12,7% (within range of 11 - 2/ nt bossie crown cover: It 3 42.9 3.6 Low 3,70 26,45 28,5	

Table 10.1: Veld condition assessment table: Grass a				.a sompe		. 53 Dau	. 55ver	. ,
DE BAI	D - SOVENTI	х						FOOTSLOPE (Concav Siltstone / Shale
								SITE - 35
SITE - 35 (GRAZING UN	NIT 3)						Excl. Sedges & Forb April 2022
TUFT DISTANCES (in cm): Low i			& High >	10 cm				6,4
	/ FUEL LOAD (in DINATES: South	kg/ha)						3910 30° 50' 12,0"
5155571	East							24° 23' 06,0"
	ON OF TRANSEC BOVE SEA LEVEL							333° 1 286m
SOIL FOR	RM (Macvicar, 199	91)						Mispah
VELD TYPE (Mu	ucina & Rutherfor	d, 2006)		-				Nku 4 - Eastern Upper K
RASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low produ	ction Grass	Toxic	
ECREASERS			1	1			•	% on Grand Total
o Decreaser species recorded UBTOTAL (Decreaser category):								0
ICREASERS I			1		r			
lo Increaser I species recorded SUBTOTAL (Increaser I category):								0
NCREASERS II								U
ristida adscensionis Eenjarige Steekgras	1,08	***		*				1
ristida congesta subsp. congesta Cat's tail Three-awn chloris virgata Feather-top Chloris / Kwasgras	3,36 0,78				*	*		1
ynodon hirsutus	1,5				*	*		12
nneapogon desvauxii Kalkgras inneapogon scoparius Kalkgras	2,07	+	**	+				**
nneapogon scoparius Kalkgras ragrostis lehmanniana Lehmann's Love Grass	3,24	***		L				35
ragrostis obtusa Dew Grass / Douvatgras	2,94	***		1		-		2
ragrostis sp. Eragrostis porobolus africanus Ratstail Dropseed / Taaipol	1,5 3,47	***	**					**
ragus koelerioides Creeping Carrot-seed Grass	0,84			**				1
are Ground UBTOTAL (Increaser II category):								0 51
OTAL (increaser in category): OTAL (Grasses):								51
HRUBS (BOSSIES)				COVER				
	-	Dominant	bossies c	ontribution	to cover (%	6)	80	
HRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing	Palatable	Less Palatable	Unpalatable	Low production	Toxic	Cover	% on Grand Total
sparagus glauca Bloukatdoring	Index Value	9	**		Shrub		(%) 0,01	**
riocephalus ericoides Kapokbos	2,43	***					5	3
uryops asparagoides Bultdraaibos	1,51		**	*			0,1 0,3	1 9
elicia muricata Bloublommetjie Ionsonia salmoniflora Boesmanskers	1,5			*			0,3	1
edera humilis (Rosenia humilis) Perdekaroo	1,77		**				0,1	1
entzia incana Ankerkaroo uschia intricata (Eberlanzia ferox) Doringvygie	2,88 1,54	***	**				3 8.5	13 18
elago geniculata Persaar	1,5			*			0,01	3
nidentified (Vygie species)	1,5		**	*			0,01	1
hidentified species (Bossie 1) OTAL (Shrubs / Bossies):	1,5						0,01	49
OTAL (Grasses + Shrubs / Bossies)								100
Less than 1% of species recorded at site able 10.2: Trends in grass and shrub species comp	osition, from	Table	10.1.					
								FOOTSLOPE (Concav
VELD CONDITION SUMMAR	Y OF TREND	(TAINTC	N'S ME	THOD)				SITE - 35
		•		•				Excl. Sedges & Forb April 2022
	Categories							%
	reaser species easer I species							0
	aser II species							51
Unide	entified species							0
	are Ground rubs /Bossies							0 49
	Total							100
Veld Condition (Trollop								INTERMEDIATE / OVERGR
egend: Decreaser species - Grass and herbaceous species which decrease w Increaser I species - Grass and herbaceous species which increase wh					h frequencie	S		
Increaser II species - Grass and herbaceous species which increase whether the species whether the species whether the species whether the species of the sp	nen veld is over-uti	ilized or bu	rned in too	high freque	ncies			
able 10.3: Summary.								
								FOOTSLOPE (Concav SITE - 35
S	UMMARY							ISPD 5133
uft distance (cm)								April 2022 6,4
il erosion potential (Low is ≤5 cm, Medium >5-10 cm & High > 10cm)								0,4 Medium
uel load (4 tons per ha = threshold for burning)								3910
uel load potential umber of Grass species present per 100 m ² (excl. and incl. <1% of specie	es)							High 6 (11)
rass Species Richness (High is = >15 spp, Low< 10 species)	,							Low
umber of Bossies species present per 2500 m ² (excl. and incl. <1% of spe ossie Species Richness (High is = >15 spp, Low< 10 species)	ecies)							9 (11) Low
umber of bossies and grass species per 100 m ² (excl. and incl. <1% of sp	becies)							15 (22)
ant Species Richness (High is = >60 spp, Low< 20 species)								Low
	Two domi	nant speci	es, Kapokł	oos and Dori	navvaie co	ntributed in	total 78 9%	17.1% (within range of 11 to the dominant bossie cro
ominant Bossie cover (% soil covered)				the crown co			2.2. 10.070	1
ominant Bossie cover (% soil covered) ominant species contributing to crown cover (%)								4 36,4
ominant Bossie cover (% soil covered) ominant species contributing to crown cover (%) umber of palatable grasses								37,8
ominant Bossie cover (% soil covered) ominant species contributing to crown cover (%) umber of palatable grasses								
ominant Bossie cover (% soil covered) ominant species contributing to crown cover (%) umber of palatable grasses alatability (potential) % ood grazing grasses % orage value (Grasses only)								30
ominant Bossie cover (% soil covered) ominant species contributing to crown cover (%) umber of palatable grasses alatability (potential) % ood grazing grasses % rage value (Grasses only) eld Condition Index Total	cover: It co	m = 3 LSI	/100 ha/ve	ear)				2,13
ominant Bossie cover (% soil covered) ominant species contributing to crown cover (%) umber of palatable grasses alatability (potential) % ood grazing grasses % orage value (Grasses only) ald Condition Index Total bential grazing capacity of the agricultural district (for an average annual ondition on ISPD Degradation Axis (%) - Norm between 60% and 80%	cover: It co	m = 3 LSU	//100 ha/ye	ear)				
ominant Bossie cover (% soil covered) ominant species contributing to crown cover (%) umber of palatable grasses alatability (potential) % cood grazing grasses % orage value (Grasses only) ald Condition Index Total tential grazing capacity of the agricultural district (for an average annual	cover: It co	m = 3 LSU	/100 ha/ye	ear)				2,13 15,20
Dominant Bossie cover (% soil covered) Dominant species contributing to crown cover (%) Number of palatable grasses Palatability (potential) %								37,8

Table 11.1: Veld condition assessment table: Grass and	sin ub spe		Tel alla			_		、 <i>,</i>
DE BAD -	SOVENTIX	¢						FOOTSLOPE (Convex) DOLERITE
								SITE - 36
SITE - 36 (GR	AZING UN	IT 4)						Excl. Sedges & Forbs April 2022
TUFT DISTANCES (in cm): Low is ≤5	cm, Medium	>5-10 cm	& High > 1	0 cm				4,3
PHYTOMASS / FU CO-ORDIN/		kg/ha)						1518 20° 49' 22 4"
CO-ORDIN/	East							30° 49' 32,4" 24° 21' 27,0"
DIRECTION C								358°
HEIGHT ABOVE SOIL FORM (1								1 282m Mispah
VELD TYPE (Mucina								Nku 4 - Eastern Upper Kar
GRASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low produ	ction Grass	Toxic	
DECREASERS								% on Grand Total
No Decreaser species recorded								0
SUBTOTAL (Decreaser category): INCREASERS I								0
No Increaser I species recorded								0
SUBTOTAL (Increaser I category): NCREASERS II								0
Aristida adscensionis Eenjarige Steekgras	1,08	***		*				11
Aristida congesta subsp. congesta Cat's tail Three-awn	3,36	**				*		1
Chloris virgata Feather-top Chloris / Kwasgras Cynodon hirsutus Cynodon	0,78					*		1
Enneapogon desvauxii Kalkgras	2,07		**					16
Eragrostis lehmanniana Lehmann's Love Grass Eragrostis obtusa Dew Grass / Douvatgras	3,24 2,94	***						1 18
Oropetium capense Dwarf Grass / Haasgras	1,04		**					18
Tragus koelerioides Creeping Carrot-seed Grass Bare Ground	0,84	I		**				9
Sare Ground SUBTOTAL (Increaser II category):								0 74
TOTAL (Grasses):								74
SHRUBS (BOSSIES)				COVER				
		Oominant	bossies c	ontribution		6)	70	
SHRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	Low production Shrub	Toxic	Cover (%)	% on Grand Total
Eriocephalus ericoides Kapokbos	2,43	***			Shrub		3	7
Eriocephalus spinescens Doringkapok	2,12		**	*			6	13
Helichrysum lucillioides Kerriebos Phymaspermum parvifolium Witheuningkaroo	0,94	****					0,1 0,5	1 4
			**				0,1	4
	1,54							1
Selago geniculata Persaar	1,54						0,1	1
Selago geniculata Persaar TOTAL (Shrubs / Bossies):	1,54							
Selago geniculata Persaar TOTAL (Shrubs / Bossies): TOTAL (Grazese + Shrubs / Bossies) ** Less than 1% of species recorded at site								1 26
Selago geniculata Persaar TOTAL (Shrubs / Bossies): TOTAL (Grazese + Shrubs / Bossies) ** Less than 1% of species recorded at site		Table 1						1 26 100
Selago geniculata Persaar TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit	on, from		1.1.					1 26
Selago geniculata Persaar TOTAL (Shrubs / Bossies): TOTAL (Grazes + Shrubs / Bossies) ** Less than 1% of species recorded at site	on, from		1.1.	THOD)				1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs
Selago geniculata Persaar TOTAL (Shrubs / Bossies) TOTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O	on, from T		1.1.	THOD)				1 26 100 FOOTSLOPE (Convex) SITE - 36
Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate Decrease	on, from F TREND (gories er species		1.1.	THOD)				1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs April 2022 % 0
Selago geniculata Persaar TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate Decrease	F TREND (gories er species I species		1.1.	[HOD)				1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs April 2022 % 0 0 0
Selago geniculata Persaar TOTAL (Shrubs / Bossies): TOTAL (Grazes + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate Decrease Increaser Increaser	F TREND (gories er species I species		1.1.	THOD)				1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs April 2022 % 0
Selago geniculata Persaar TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate Decrease Increaser Unidentifit Bare (on, from F TREND (gories er species I species II species il species Ground		1.1.	[HOD)				1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs April 2022 % 0 0 74 0 0 0 0 0 0 0 0 0 0 0 0 0
Selago geniculate Persaar TOTAL (Grasses + Shrubs / Bossies) TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate Decrease Increase Increase Unidentifi Bare Bare Shrubs	F TREND (gories r species I species Il species ed species		1.1.	[HOD)				1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs April 2022 % 0 0 74 0
Selago geniculate Persaar TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate Cate Decrease Increase Increase Unidentifi Bartel Cate Ca	F TREND (pories r species Il species Il species di species di species around Bossies tal	TAINTC	1.1. N'S MET	THOD)				1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs April 2022 % 0 0 74 0 0 74 0 0 26
Selago geniculate Persaar TOTAL (Grasses + Skrubs / Bossies) Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate	on, from F TREND (gories r species I species I species d species Sround Bossies tal Method / Taii eld is over-util	TAINTC	1.1. N'S MET	quently	frequencies			1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs April 2022 % 0 0 0 74 0 0 26 100
Selago geniculate Persaar TOTAL (Gasses + Skrubs / Bossies) ** Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate Decrease Increaser Unidentifi Bare (Shrubs To Veld Condition (Trollope's	on, from F TREND (pories r species I species d species d species fround Bossies tal Method / Taii eld is over-util i s under-util	TAINTC	1.1. IN'S MET	iquently igh enough				1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs April 2022 % 0 0 0 74 0 0 26 100
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Selago geniculate Persaar TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate Decrease Increaser Increaser Cate Cate Cate Decrease Increaser Increaser Cuidentifi Bare (Shrubs Cate	ion, from i F TREND (pories r species l species d species d species d species d species d species d sover-utiliz l sunder-utiliz Method / Tai el sover-utiliz MARY) Two domin cover: It co	nton's Me ized or burn ant species ant species ant species ant species ant species ant species ant species	1.1. N'S MET thod) med too fre burned in ho hed in too hi s, Kapokbu 0.9% and 0.9% and 0.0% ha/year,	equently igh enough gh frequence bes and Dorini 61.8% resp	ies	ne crown cc	0,01	1 26 100 26 100 SITE - 36 Excl. Sedges & Forbs April 2022 % 0 0 0 74 0 0 26 100 POOR / OVERGRAZED FOOTSLOPE (Convex) SITE - 36 ISPD 5134 April 2022 4,3 Low 1518 Low 8 (9) Low 6 (6) Low 9.7% (within range of <10? 6 to the dominant bossie crow 3 33,3 30,4 30 2,39 17,08 29,9 POOR
Selago geniculata Persaar OTAL (Graves + Shrubs / Bossies) * Less than 1% of species recorded at site Table 11.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY O Cate Decrease Increaser Unidentific Bare (Shrubs Cate Cate Cate Decrease Unidentific Bare (Shrubs Cate Cate Cate Decrease Unidentific Bare (Shrubs Cate Shrubs Cate Cate Cate Decreaser Unidentific Cate Decreaser Unidentific Bare (Shrubs Cate Cate Cate Decreaser Unidentific Cate Decreaser Unidentific Bare (Shrubs Cate Cate Cate Decreaser Unidentific Cate Decreaser Unidentific Bare (Shrubs Cate Cate Decreaser Unidentific Bare (Shrubs Cate Cate Cate Decreaser Unidentific Bare (Shrubs Cate Cate Decreaser Unidentific Bare (Shrubs Cate Cate Decreaser Unidentific Bare (Shrubs Cate Cate Cate Decreaser Unidentific Bare (Shrubs Cate Cate Cate Decreaser Unidentific Bare (Shrubs Cate Cate Cate Decreaser Unidentific Bare (Shrubs Cate Cate Cate Decreaser Unidentific Bare (Shrubs Cate Cate Cate Decreaser Unidentific Bare (Shrubs Cate C	ion, from F TREND (gories r species I species I species bossies tal Method / Tai Bossies tal Method / Tai Bossies tal MARY) Two domin cover: It co APPLY RE	TAINTC nton's Me ized or but texed or not ant specie ant speci ant specie ant spec	1.1. N'S MET thod) thod) red too fre burned in h ed in too hi ed in too hi s, Kapokbu 0.9% and 00 ha/year)	quently igh enough gh frequence bs and Dorin 61.8% resp b 2	ngkapok, co ectively to th	CORDING	total 92,79 ver.	1 26 100 FOOTSLOPE (Convex) SITE - 36 Excl. Sedges & Forbs April 2022 % 0 0 0 74 0 0 26 100 POOR / OVERGRAZED FOOTSLOPE (Convex) SITE - 36 ISPD 5134 April 2022 4.3 Low 1518 Low 8 (9) Low 6 (6) Low 9.7% (within range of <10? 6 to the dominant bossie crow 3 33.3 30.4 30 2.39 17.08 29.9

Table 12.1: Veld condition assessment table: Grass and	snrub spe	cies co	ver and	loompoo	sition at 1		001011	
DE BAD -	SOVENTI	<i>(</i>						PAN ECOTONE (Concave Siltstone / Shale
	OOVEN112	•						SITE - 37
SITE - 37 (GR	AZING UN	IIT 5)						Excl. Sedges & Forbs April 2022
TUFT DISTANCES (in cm): Low is ≤	5 cm, Medium	>5-10 cm	& High >	10 cm				4,2
PHYTOMASS / FU		kg/ha)						2291
CO-ORDIN	ATES: South East							30° 49' 42,0" 24° 20' 54,3"
DIRECTION		т						047°
HEIGHT ABOV								1 286m
SOIL FORM (VELD TYPE (Mucin								Tukulu Nku 4 - Eastern Upper Kard
	Grazing		Less		Low produ			NKU 4 - Lastern Opper Kan
GRASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	Palatable	Palatable	Unpalatable	Low produ-	ction Grass	Toxic	
DECREASERS	5,22	***						% on Grand Total
Panicum coloratum Small Buffalo Grass / Witbuffelsgras SUBTOTAL (Decreaser category):	0,22	<u> </u>						1
INCREASERS I	ľ	1		1			1	
No Increaser I species recorded SUBTOTAL (Increaser I category):								0
INCREASERS II								0
Aristida adscensionis Eenjarige Steekgras	1,08	***		•				**
Chloris virgata Feather-top Chloris / Kwasgras	0,78					*		**
Cynodon hirsutus Cynodon Eragrostis lehmanniana Lehmann's Love Grass	1,5	***						20
Eragrostis obtusa Dew Grass / Douvatgras	2,94	***						3
Eragrostis sp. Eragrostis	1,5		**					34
Bare Ground SUBTOTAL (Increaser II category):								0 57
TOTAL (Increaser II category):								57 58
				COVER				
SHRUBS (BOSSIES)					40.0			
	Grazing			ontribution	Low	,	75 Cover	
SHRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Less Palatable	Unpalatable	production Shrub	Toxic	(%)	% on Grand Total
Asparagus glauca Bloukatdoring			**				0,1	1
Eriocephalus ericoides Kapokbos Eriocephalus spinescens Doringkapok	2,43	***	**		*		0,1 0.5	1
Moraea pallida Yellow Tulp / Geel Tulp	0,5				•		0,5	8
Oedera humilis (Rosenia humilis) Perdekaroo	1,77		**				0,01	**
Pentzia incana Ankerkaroo	2,88	***					8,5	33
	1,5						0.01	**
Phaeoptilum spinosum Brosdoring	.,	1					0,01	42
TOTAL (Shrubs / Bossies):	.,.	1			1		0,01	42 100
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site							0,01	
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies)		Table 12	2.1.				0,01	100
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site		Table 12	2.1.				0,01	100 PAN ECOTONE
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site	ion, from			гнор)			0,07	100 PAN ECOTONE SITE - 37
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C	ion, from			ГНОД)			0,01	100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate	ion, from			ГНОД)			0,01	100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 %
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decreas	ion, from F TREND (gories er species			гнор)			0,01	100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decrease Increase Increase Increase	ion, from of TREND (gories er species r I species II species			гнор)				100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decreas Increase Unidentif	ion, from FTREND (gories er species r I species II species ed species			гнор)			0,07	100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Cate Decreas Increase Unidentif Bare	ion, from of TREND gories er species r I species il species ed species Ground			[HOD)			0,07	100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 0 0 0
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decreas Increase Unidentif Bare Shrubs	ion, from FTREND (gories er species r I species II species ed species			THOD)				100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decreas Increase Unidentif Bare Shrubs	ion, from FTREND (gories er species rl species ed species Ground Bossies otal	TAINTO	N'S ME	THOD)				100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 1 0 57 0 0 42
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Cate Cate Cate Decrease Increase Unidentif Bare Shrubs T Veld Condition (Trollope's Legend; Decreaser species - Grass and herbaceous species which decrease whe	ion, from F TREND (gories er species r species r l species r l species Ground ////////////////////////////////////	TAINTO nton's Me	N'S ME	• frequently		· · · ·		100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 0 42 100
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decrease Increase Unidentif Bare Shrubs T Veld Condition (Trollope's	ion, from F TREND (gories er species r l species ed species Ground Keossies otal Method / Tai n veld is over-tw veld is under-tw	TAINTO nton's Me itilized or tr tilized or r	N'S ME	• frequently in high eno		cies		100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 0 42 100
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Cate Cate Decrease Increase Increase Chicken Shrubs T Veld Condition (Trollope's Veld Condition (Trollope's Veld Condition (Trollope's Veld Condition (Trollope's Veld Condition (Trollope's	ion, from F TREND (gories er species r l species ed species Ground Keossies otal Method / Tai n veld is over-tw veld is under-tw	TAINTO nton's Me itilized or tr tilized or r	N'S ME	• frequently in high eno		cies		100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 0 42 100
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TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decrease Increase Increase Unidentif Bare Shrubs Tu Veld Condition (Trollope's Legend: Decrease vhen Increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase when Increase I species - Grass and herbaceous species which increase I species - Grass and herbaceous species which increase I species - Grass and herbaceous spec	ion, from F TREND (gories er species r l species ed species Ground Keossies otal Method / Tai n veld is over-tw veld is under-tw	TAINTO nton's Me itilized or tr tilized or r	N'S ME	• frequently in high eno		cies		100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 0 42 100 POOR / OVERGRAZED PAN ECOTONE SITE - 37
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TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decrease Increase Unidentif Bare Shrubs Cate Cate Cate Decreases Increase Unidentif Bare Cate Cate Cate Decreases Increase Unidentif Bare Cate Cate Cate Decreases Increase Unidentif Bare Cate Cate Cate Decreases Increase Unidentif Bare Cate Cate Cate Cate Cate Cate Cate Decreases Increase Unidentif Bare Cate	ion, from or TREND (gories er species Il species ed species Ground Keossies otal Method / Tal Method / Tal Method / Tal Method / Tal Method / Tal	TAINTO nton's Me itilized or tr tilized or r	N'S ME	• frequently in high eno		cies		100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 42 100 POOR / OVERGRAZED Vertice SITE - 37 ISPD 5135 April 2022 4.2 Low 2291 Medium 5 (7)
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TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decrease Increase Increase Increase Unidentif Bare Shrubs Tre Veld Condition (Trollope's Strubs Tre Veld Condition (Trollope's Legent: Decreaser species - Grass and herbaceous species which increase when Increase of species - Grass and herbaceous species which increase when Increase of species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increase of species - Grass and herbaceous species which increase when Increase of species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increase of species - Grass and herbaceous species which increase when Increase of species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass Species present per 200 m ² (excl. and incl. <1% of species) Number of Bossies and grass species per 100 m ² (excl. and incl. <1% of species) Number of Bossies and grass species per 100 m ² (excl. and incl. <1% of species Plant Species Richness (High is = >16 spp. Low< 20 species)	ion, from ' IF TREND (gories er species er species er species er species er species fround Mossies Stal Method / Tal Method / Tal	TAINTO nton's Me tilized or br ilized or br	N'S ME thod) ourned too toot burned in to ss, Ankerk	r frequently in high eno- o high frequently in high eno- o high frequently aroo, contril				100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 0 57 0 0 42 100 POOR / OVERGRAZED POOR / OVERGRAZED POOR / OVERGRAZED POOR / OVERGRAZED UD SITE - 37 ISPD 5135 April 2022 4.2 Low 2291 Medium 5 (7) Low 5 (7) Low 10 (14) Low
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TOTĂL (Shrubs / Bossies): TOTĂL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cata Cata Decrease Increase Unidentif Bare Shrubs T Veld Condition (Trollope's Legend: Decreaser species - Grass and herbaceous species which decrease when Increase / species - Grass and herbaceous species which decrease when Increase / species - Grass and herbaceous species which decrease when Increaser / species - Grass and herbaceous species which decrease when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass species method for burning) Fuel load (4 tons per ha = threshold for burning) Fuel load (4 tons per ha = threshold for burning) Grass Species Richness (High is = >15 spp. Low< 10 species) Number of Bossies species present per 2500 m² (excl. and incl. <1% of species) Number of Bossies cover (% soil covered) Dominant Bossies cover (% soil covered) Dominant species contributing to crown cover (%) Number of palatable grasses	ion, from ' IF TREND (gories er species er species er species er species er species fround Method / Tal Method / Tal	TAINTO nton's Me tilized or br ilized or br	N'S ME thod) ourned too toot burned in to ss, Ankerk	r frequently in high eno- o high frequently in high eno- o high frequently aroo, contril				100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 42 100 POOR / OVERGRAZED POOR / OVERGRAZED Low 2291 Medium 5 (7) Low 5 (7) Low 5 (7) Low 9.7% (within range of <10?
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TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decrease Increase Increase Unidentif Bare Shrubs Tr Veld Condition (Trollope's Legent: Decreaser species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass and herbaceous species which increase when Increaser I species - Grass in the species of the species Soil erosion potential (Low is ≤5 cm, Medium >5-10 cm & High > 10 cm) Fuel load (4 tons per ha = threshold for burning) Fuel load potential Number of Grass species present per 2500 m² (excl. and incl. <1% of species Bossie Species Richness (High is = >15 sp, Low<10 species) Number of bossies and grass species per 100 m² (excl. and incl. <1% of specie Plant Species Richness (High is = >16 spp,	ion, from ' IF TREND (gories er species er species er species er species er species fround Method / Tal Method / Tal	TAINTO nton's Me tilized or br ilized or br	N'S ME thod) ourned too toot burned in to ss, Ankerk	r frequently in high eno- o high frequently in high eno- o high frequently aroo, contril				100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 0 42 100 POOR / OVERGRAZED SITE - 37 ISPD 5135 April 2022 4.2 Low 2291 Medium 5 (7) Low 5 (7) Low 9.7% (within range of <10?
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate C	ion, from ' ion, from ' ion, from ' ion, frem ' ion, frem ' ion, frem ' ion, from ' ion, frem ' ion, free ' ion, f	nton's Me tilized or b filized	N'S ME	aroo, contril				100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 42 100 POOR / OVERGRAZED PAN ECOTONE SITE - 37 ISPD 5135 April 2022 4.2 Low 2291 Medium 5 (7) Low 5 (7) Low 9.7% (within range of <10?
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate C	ion, from ' ion, from ' ion, from ' ion, frem ' ion, frem ' ion, frem ' ion, from ' ion, frem ' ion, free ' ion, f	nton's Me tilized or b filized	N'S ME	aroo, contril				100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 0 42 100 POOR / OVERGRAZED SITE - 37 ISPD 5135 April 2022 4.2 Low 2291 Medium 5 (7) Low 5 (7) Low 9.7% (within range of <10?
TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate C	ion, from ' ion, from ' ion, from ' ion, frem ' ion, frem ' ion, frem ' ion, from ' ion, frem ' ion, free ' ion, f	nton's Me tilized or b filized	N'S ME	aroo, contril				100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 42 100 POOR / OVERGRAZED SITE - 37 ISPD 5135 April 2022 4,2 Low 2291 Medium 5 (7) Low 5 (7) Low 9.7% (within range of <10°
TOTÁL (Shrubs / Bossies): TOTÁL (Grasses + Shrubs / Bossies) ** Less than 1% of species recorded at site Table 12.2: Trends in grass and shrub species composit VELD CONDITION SUMMARY C Cate Decrease Increase	ion, from ion, from IF TREND (gories er species ril species Ground /Bossies stal Method / Tal Nethod / Tal Nethod / Tal Nethod / Tal Nethod / Tal Method / Tal Method / Tal Method / Tal Society Ned is under-under- veld is under-under- veld is over-under- society MARY as) ies) Cone domini contributed infail of 300 m	nton's Me tillized or bu dilized or bu diliz	N'S ME	aroo, contril i cover.	outed in tota	al 100.0% t	o the domi	100 PAN ECOTONE SITE - 37 Excl. Sedges & Forbs April 2022 % 1 0 57 0 42 100 POOR / OVERGRAZED PAN ECOTONE SITE - 37 ISPD 5135 April 2022 4,2 Low 2291 Medium 5 (7) Low 2291 Medium 5 (7) Low 9.7% (within range of <10%
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Table 13.1: Veld condition assessment table: Grass and	snrub spe	cies co	ver and	compos	sition at			
DE BAD -	SOVENTIX	7						FOOTSLOPE (Convex) Siltstone / Shale
DE DAD	00121118	•						SITE - 38
SITE: 38 (GF	AZING UN	IT 3)						Excl. Sedges & Forbs
TUFT DISTANCES (in cm): Low is ≤			& High > 1	0 cm				April 2022 15,1
PHYTOMASS / F	UEL LOAD (in							979
CO-ORDIN	IATES: South East							30° 49' 57,7" 24° 18' 42,8"
DIRECTION	OF TRANSEC	т						083°
HEIGHT ABOV								1 316m
SOIL FORM VELD TYPE (Muci	(Macvicar, 199							Mispah
``````````````````````````````````````	Grazing	Í	Less					Nku 4 - Eastern Upper Ka
GRASS SPECIES IN CATEGORIES (Palatability indicated by *****)	Index Value	Palatable	Palatable	Unpalatable	Low produ	ction Grass	Toxic	
DECREASERS			1	1	[		1	% on Grand Total
lo Decreaser species recorded UBTOTAL (Decreaser category):								0
ICREASERS I								
o Increaser I species recorded UBTOTAL (Increaser I category):								0
ICREASERS II								0
ristida adscensionis Eenjarige Steekgras	1,08	***		*				31
inneapogon desvauxii Kalkgras	2,07	***	**					8
ragrostis obtusa Dew Grass / Douvatgras ragus koelerioides Creeping Carrot-seed Grass	2,94 0,84	*		**				4
are Ground	2,01		·				·	18
UBTOTAL (Increaser II category):								62
OTAL (Grasses):				0.5.1.7				62
HRUBS (BOSSIES)				COVER		0		
		1	Less	ontribution	Low		50 Cover	
SHRUB SPECIES IN CATEGORIES (Palatability indicated by *****)	Grazing Index Value	Palatable	Palatable	Unpalatable	production Shrub	Toxic	(%)	% on Grand Total
Asparagus glauca Bloukatdoring	1	***	**				0,5	4
Berkheya spinosa Vlaktedissel Eriocephalus spinescens Doringkapok	0,68	***	**				0,1 0,5	3
Euryops asparagoides Bultdraaibos	1,51	L		*			0,5	3
Felicia muricata Bloublommetjie	1,5		**				0,1	1
Sorteria alienata (Hirpicium alienatum) Haarbossie ycium cinereum Kriedoring	3,16 1,63	****	**				0,1 0,5	1 3
Aoraea pallida Yellow Tulp / Geel Tulp	0,5				**		0,0	2
Pentzia incana Ankerkaroo	2,88	***					3	16
Phymaspermum parvifolium Witheuningkaroo Roepera incrustata Witkriedoring	3,38	****		*			0,01	**
Ruschia intricata (Eberlanzia ferox) Doringvygie	1,5 1,54		**				0,1	2
Ruschia intricata (Eberlanzia ferox) Doringvygie OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies)			**					
Ruschia intricata (Eberlanzia ferox) Doringvygie OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site	1,54							2 38
Ruschia intricata (Eberlanzia ferox) Doringvygie FOTAL (Shrubs / Bossies): FOTAL (Grasses + Shrubs / Bossies)	1,54	Table 1						2 38 100
Ruschia intricata (Eberlanzia ferox) Doringvygie TOTAL (Shrubs / Bossies): TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi	1,54		3.1.					2 38 100 FOOTSLOPE (Convex)
Ruschia intricata (Eberlanzia ferox) Doringvygie OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site	1,54		3.1.					2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs
Ruschia intricata (Eberlanzia ferox) Doringvygie OTAL (Shrubs / Bossies): OTAL (Grasses + Shrubs / Bossies) Less than 1% of species recorded at site Fable 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY (	1,54 tion, from		3.1.					2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022
Ruschia (Intricata (Eberlanzia ferox) Doringsygie OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY ( Cat	1,54		3.1.					2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs
Ruschia intricata (Eberlanzia ferox) Doringvygie OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Fable 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY ( Cat Decrea Increas	1,54 tion, from ⁻ OF TREND ( egories ser species er 1 species		3.1.					2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022 % 0 0 0
Ruschia Intricata (Eberlanzia ferox) Doringsygie OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY of Cat Decrea Increas Increase	1,54 tion, from DF TREND ( egories ser species ar I species ar I species r I species		3.1.					2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022 % 0 0 44
Ruschia intricata (Eberlanzia ferox) Doringvygie TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY ( Cat Decrea Increas Unidenti	1,54 tion, from ⁻ OF TREND ( egories ser species er 1 species		3.1.					2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022 % 0 0 0
Ruschia intricata (Eberlanzia ferox) Doringvygie TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY ( Cat Decrea Increas Increas Unidenti Bare	1,54 tion, from OF TREND ( egories ser species er I species ied species ied species		3.1.					2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022 % 0 0 44 0
Ruschia intricata (Eberlanzia ferox) Doringvygie (OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY of Cat Decrea Increas Increas Unidenti Bare Shrub	1,54 tion, from OF TREND ( egories ser species rr I species ir Il species Ground		3.1.					2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022 % 0 0 44 0 18 38 100
Ruschia intricata (Eberlanzia ferox) Doringvygie (OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY of Cat Decrea Increas Increas Unidenti Bare Shrub	1,54 tion, from 7 DF TREND ( egories er species r I species r I species r I species (Ground ;/Bossies otal	TAINTO	3.1. N'S MET					2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022 % 0 0 0 44 0 18 38
Ruschia intricata (Eberlanzia ferox) Doringvygie TOTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY ( Cat Decrea Increase Increase Unidenti Bare Shrub Veld Condition (Trollope* Legend: Decreaser species - Grass and herbaceous species which decrease wher	1,54 tion, from OF TREND ( egories ser species ird species fround ; Bossies otal s Method / Tair veld is over-util	TAINTO nton's Mei	3.1. N'S MET	rHOD)				2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022 % 0 0 44 0 18 38 100 SEVERELY DEGRADEC
Ruschia intricata (Eberlanzia ferox) Doringvygie OTAL (Grasses + Shrub's / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY ( Cat Decrea Increas Increas Unidenti Bare Shrub Veld Condition (Trollope' receiver species - Grass and herbaceous species which decrease when	1,54 tion, from DF TREND ( egories er species er species er species er species er species fround /Bossies otal s Method / Taili veld is over-util	TAINTO nton's Mel	3.1. N'S MET	THOD)				2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022 % 0 0 44 0 18 38 100 SEVERELY DEGRADEC
Ruschia intricata (Eberlanzia ferox) Doringvygie OTAL (Grasses + Shrubs / Bossies) * Less than 1% of species recorded at site Table 13.2: Trends in grass and shrub species composi VELD CONDITION SUMMARY ( Cat Decrea Increase Unidenti Bare Shrub Veld Condition (Trollope' Receaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / species - Grass and herbaceous species which increase when Increaser / Species - Grass and herbaceous species which increase when Increaser / Species - Grass and herbaceous species which increase when v	1,54 tion, from DF TREND ( egories er species er species er species er species er species fround /Bossies otal s Method / Taili veld is over-util	TAINTO nton's Mel	3.1. N'S MET	THOD)				2 38 100 FOOTSLOPE (Convex) SITE - 37 Excl. Sedges & Forbs April 2022 % 0 0 44 0 18 38 100 SEVERELY DEGRADEC
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