Kwandu
Natural Resource Report

maximising wildlife returns by minimising threats…

Performance Indicators

Management performance in 2019

Category	Performance	
1 Adequate staffing		
2 Adequate expenditure		
3 Audit attendance		
4 NR management plan		
5 Zonation		
6 Leadership		
7 Display of material		
8 Event Book modules		
9 Event Book quality		
10 Compliance		
11 Game census		
12 Reporting & adaptive management		
13 Law enforcement		
14 Human Wildlife Conflict		
15 Harvesting management		
16 Sources of NR income		
17 Benefits produced		
18 Resource trends		
19 Resource targets		

Key to performance indicators

weak/bad	reasonable	good

Performance is assessed on a scoring system from zero (none) to a maximum of between 3 and 6 (strong/excellent) depending on the indicator.

Indicators 1-17 reflect the performance of the management team in place in the conservancy and an efficient team can achieve a good rating in all 17 indicators.
Indicators 18 & 19 are influenced by external factors and are not considered a reflection of conservancy management. They indicate the current status of wildlife in the conservancy in relation to a theoretical optimal situation.
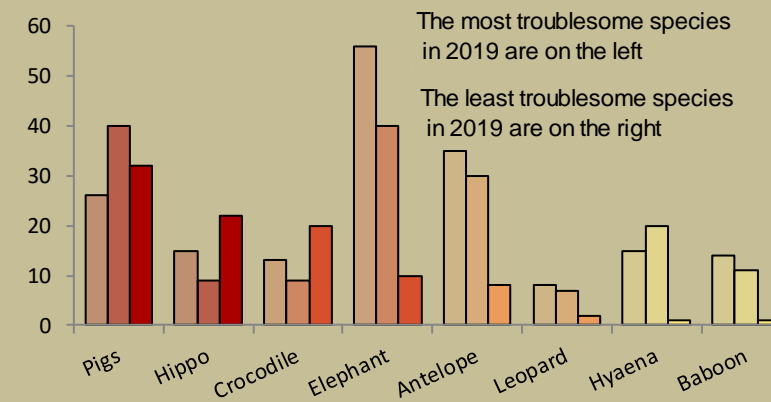
Human wildlife conflict

Human wildlife conflict trend
the chart shows the total number of incidents each year, subdivided by species, grouped as herbivores and predators

Legend: Hyaena, Lion, Crocodile, Other predators, Elephant, Hippo, Pigs/Porcupine, Antelope/baboon
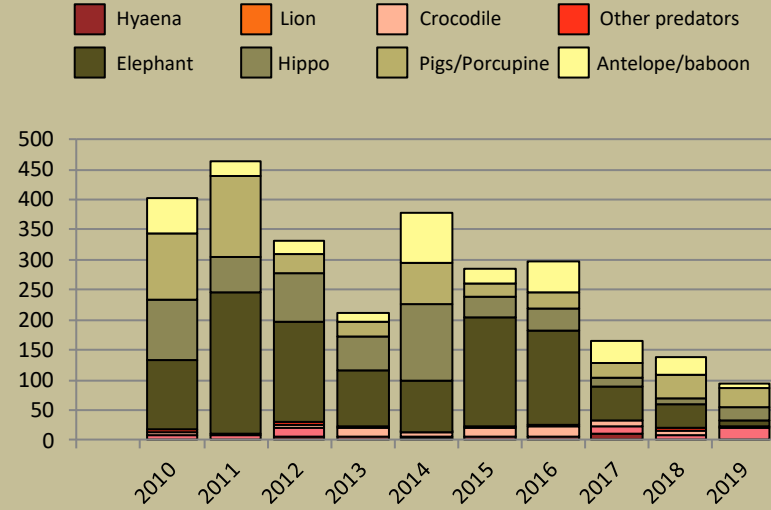
Most troublesome problem animals 2017-2019
the chart shows the number of incidents per species for the last 3 years; the darkest bar (on the right) indicates the current year for each species

The most troublesome species in 2019 are on the left

The least troublesome species in 2019 are on the right

Species: Pigs, Hippo, Crocodile, Elephant, Antelope, Leopard, Hyaena, Baboon

Type of damage by problem animals 2017-2019
the chart shows the number of incidents per category for the last 3 years; the darkest bar (on the right) indicates the current year for each type

Categories: Livestock..., Other damage, Crop damage, Human attack
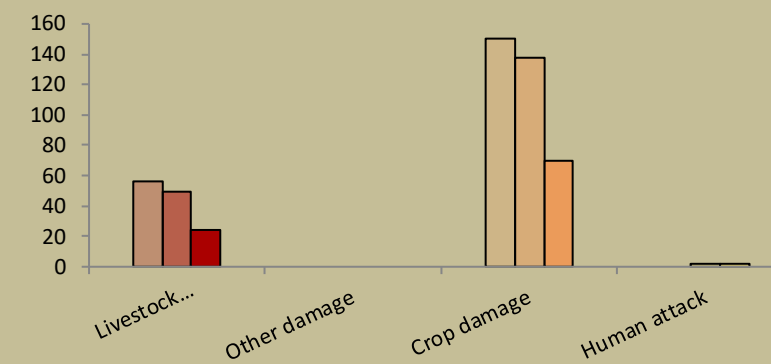
Poaching

Number of incidents per year
Commercial poaching is a serious threat to conservancy benefits. The chart shows the number of incidents per category

Legend: Subsistence, Commercial, High Value
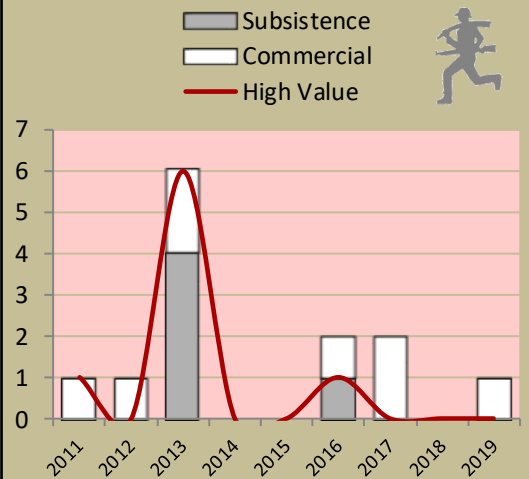
Traps and firearms recovered
number of incidents per category

Legend: Firearms recovered, Traps/snares recovered
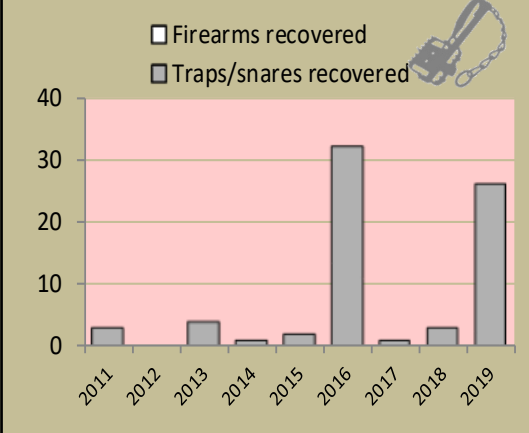
Arrests and convictions
number of incidents per category

Legend: Arrests, Convictions
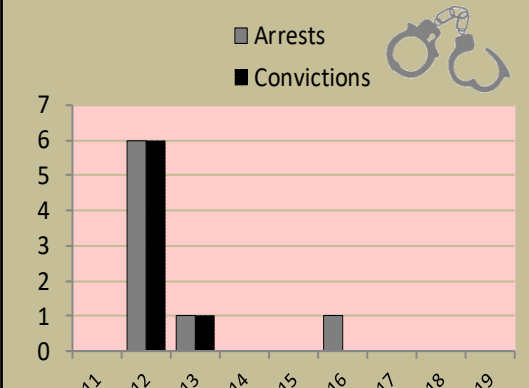
Wildlife removals – quota use and value

Potential value estimates (N$) for species are based on:

• **Potential trophy value** - the average trophy value for that species in the conservancy landscape

trophy values vary depending on trophy quality, international recognition of the hunting operator and the hunting area

• **Potential other use value** - the average meat value for common species

or

the average live sale value of each high value species (indicated with an *). High value species are never used for meat

Fractions of animals indicate that a quota of 1 animal was awarded with conditions i.e.
a) over a period of several years
and/or
b) is shared with other conservancies

Species	Quota 2019			Animals actually used in 2019						Potential Trophy Value N$	Potential Other use Value N$
	Total	Trophy	Other Use	Trophy	Own Use & Premium	Shoot & Sell	Capture & Sale	Problem Animal	Total Use		
Bushpig	1	1		1					1	3,100	
Crocodile	2	1	1	1					1	29,300	
Duiker	7	2	5		5				5	1,900	168
Eland*	1	1		1					1	12,700	
Elephant*	5	3	2	1	1				3	220,800	180,000
Hippo	6	3	3	2	1				5	35,500	6,600
Impala	5	1	4	1	3				4	2,700	816
Kudu*	6	3	3	1	2				3	5,900	38,958
Lechwe	6	6		5					5	20,900	
Reedbuck	3	3		3					3	7,700	
Roan*	1	1								61,700	
Sable*	0.33	0								61,900	
Warthog	5		5		1				1		480

Effective monitoring is key to understanding the status of wildlife in the conservancy and for the effective management of these resources.

Conservancies reduce environmental costs while increasing environmental returns. Returns from wildlife can far outweigh human wildlife conflict costs.

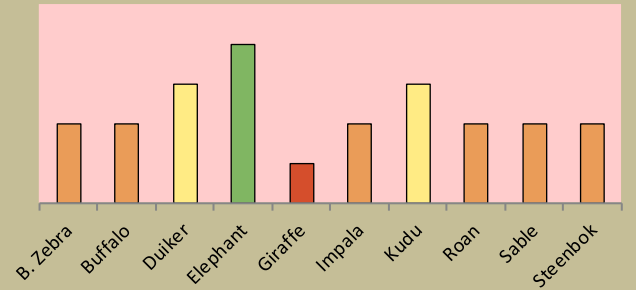## monitoring numbers and trends for a healthy conservancy…

Current wildlife numbers and status

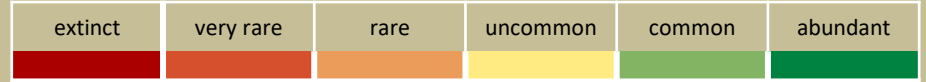| Species	Animals Seen	Estimate	Wildlife Status		
			Count Trend	Landscape Status	Desired Number
B. Zebra					
Buffalo					
Duiker	9	284			
Elephant	20				
Giraffe					
Impala	2				
Kudu	7	55			
Roan					
Sable					
Steenbok	1	18			

Desired Number – gives the species status in the conservancy based on what the conservancy would like to have.

dark green (abundant) – reduce a lot;
light green (common) – reduce a little;
yellow (uncommon) – keep numbers the same;
light orange (rare) – double numbers;
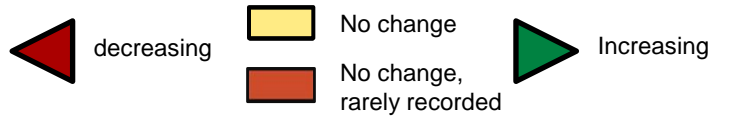**dark orange** (very rare) – more than double numbers.

Wildlife status summary in 2019

Key to wildlife status

extinct	very rare	rare	uncommon	common	abundant

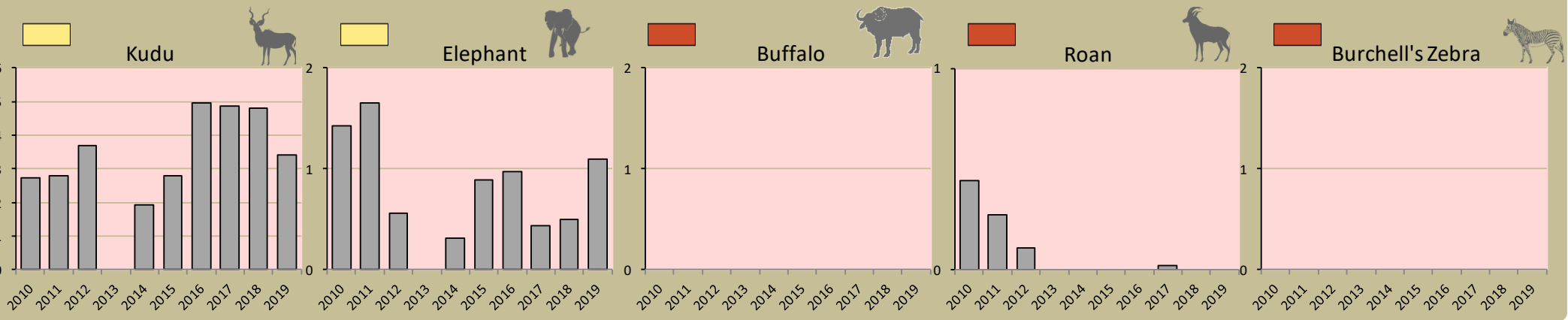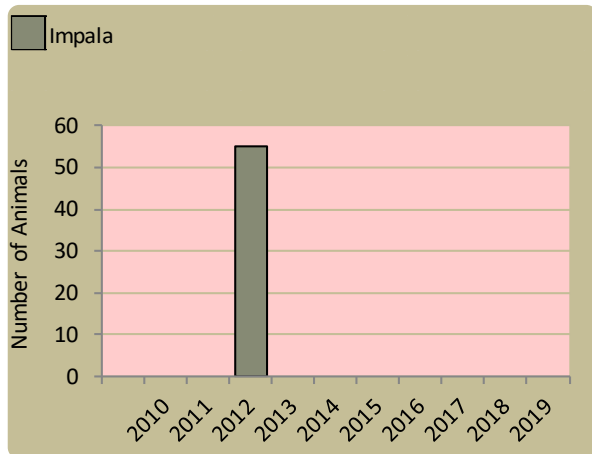**Flags** ◀ decreasing ▢ No change ▶ Increasing ▢ No change, rarely recorded
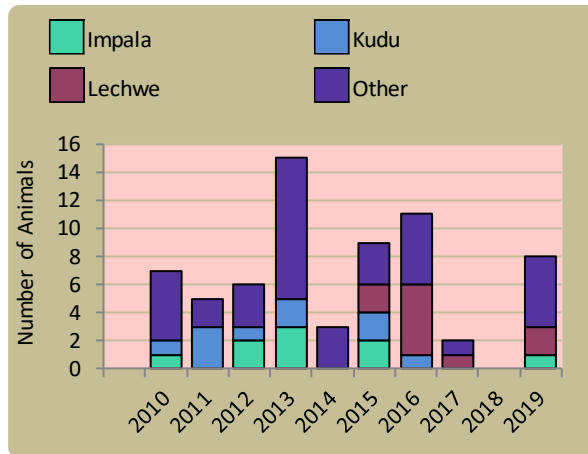
Fixed route patrols
charts show the number of sightings of each species per fixed route foot patrol each year. Status flags reflect the general sightings trend over the last 5 years
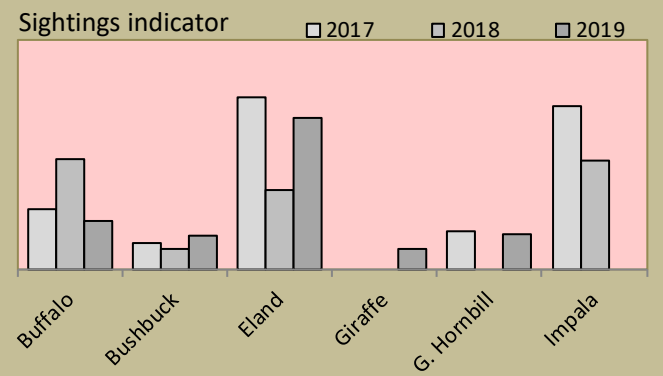
Kudu

Elephant

Buffalo

Roan

Burchell's Zebra

Wildlife introductions

Impala

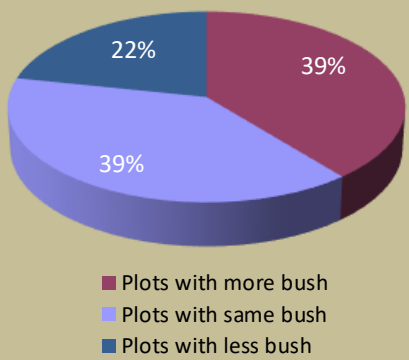### Wildlife mortalities

Impala Kudu Lechwe Other

Locally rare species

Locally rare and endangered species are not found very often in the conservancy and need special conservation attention.
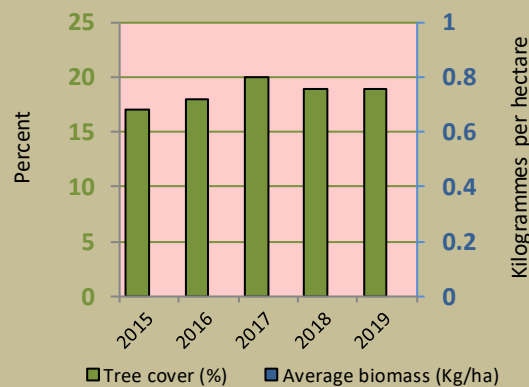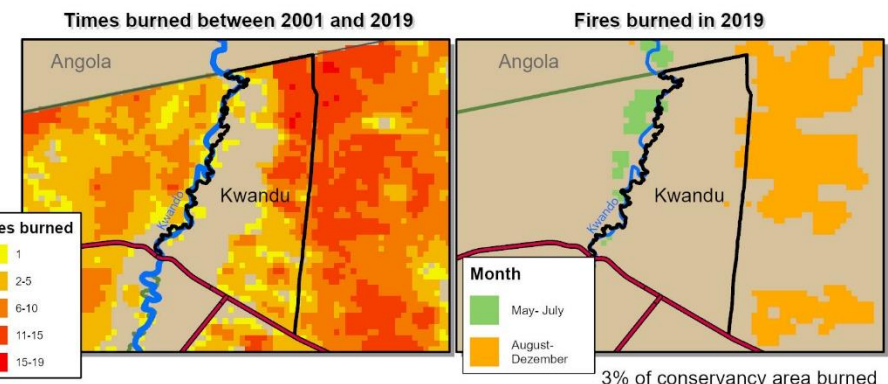
Sightings indicator □2017 □2018 □2019

Buffalo Bushbuck Eland Giraffe G. Hornbill Impala

Vegetation monitoring

Change in bush cover since monitoring began

- 39% Plots with more bush
- 22%
- 39%

■ Plots with more bush
■ Plots with same bush
■ Plots with less bush

Percent tree cover / average biomass per hectare

■ Tree cover (%) ■ Average biomass (Kg/ha)

Fire monitoring

Times burned between 2001 and 2019

Angola

Kwandu

Times burned
1
2-5
6-10
11-15
15-19

Fires burned in 2019

Angola

Kwandu

Month
May- July
August-Dezember

3% of conservancy area burned

Predator monitoring
charts show the average number of animals seen per Event Book each year
Status flags reflect the general sightings trend over the last 5 years

Wild Dog

Hyaena

Cheetah

Leopard

Lion
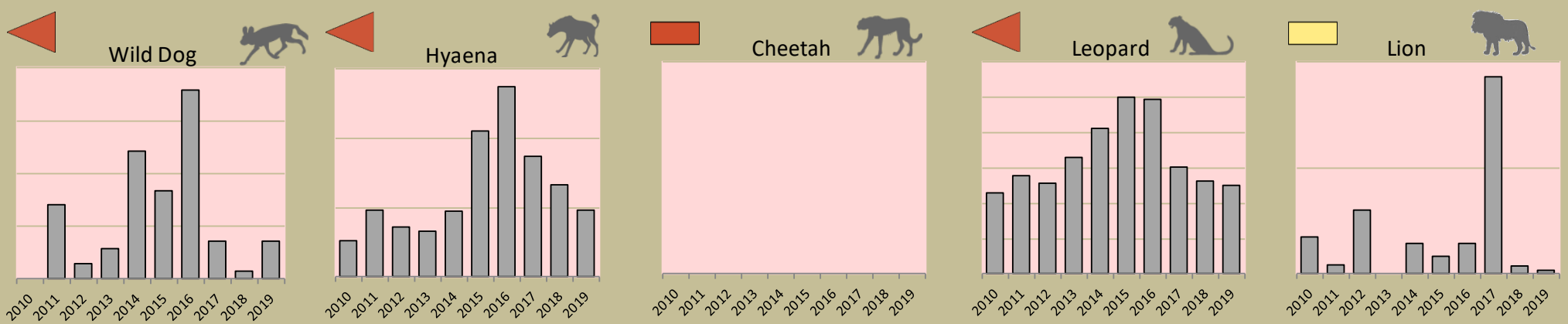
Wildlife provides a wide range of benefits. Some wildlife can cause conflicts, but all wildlife is of value to tourism, trophy hunting and a healthy environment.

By using all the available information and adapting and improving activities, threats such as human wildlife conflict, poaching and other issues can be minimised.

Kwandu
Institutional Report

Enabling wise conservancy governance…

Conservancy Statistics

Date Registered:	December 1999
Population (2011 census):	3520
Size (square kilometres):	190
Registered members:	1761

Key Compliance Requirements

Was an AGM held?	✗
Election requirement not specified	
Were benefits distributed according to the BDP?	✗
Is game managed according to the GMUP?	✗
Was the financial report presented and approved?	✗

Conservancy Governance

	Male	Female	Total
Number of management committee members	8	5	**13**
Attendance at AGM			
Date of the last AGM:			
Date of the next AGM:			
Other important issues			
Budget approved?			
Work plan approved?			
Annual conservancy report approved?			

Benefit Distribution

Type	Description	Beneficiary	Number
Cash Benefits	Cash To Patrons And Trustees	People	9
Social Benefits	For Poverty Eradication/alleviation	People	1761
	Stationary For Schools	Students	17

Employment

	Male	Female	Total
Conservancy staff (Incl. CGG & CRM)	12	9	**21**
Number of Community Game Guards	9	5	**14**
Number of Community Resource Monitors			

Governance Performance Rating   How well did the conservancy perform in the past year?

Performance Category	This Year	Prev. Year	Explanation of performance category
1 Member engagement	moderate		The conservancy is adequately engaging its members
2a Benefit planning	weak		The conservancy developed its BDP in a transparent and participatory manner
2b Benefit distribution	strong		The conservancy distributes benefits to its members in a fair, transparent and equitable manner
3 Accountability	exceptional		Conservancy members are holding the management committee accountable
4 Compliance	weak		The conservancy is compliant with the standard operating proceedures (SOPs)
5 Stakeholder engagement	exceptional		The conservancy maintains relationships with key external stakeholders
6 Financial management	strong		The conservancy is effectively managing its finances

Colour codes: | none | weak | moderate | strong | exceptional | | N/A |