2012

Marienfluss
Annual Natural Resource Report

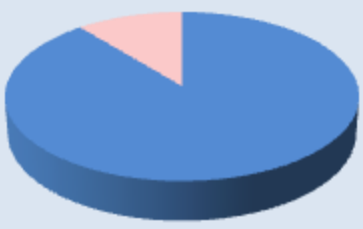
maximising wildlife benefits by minimising threats...

Conservancy status

Benefits from natural resources in 2011

the chart shows the main benefit sources and values and their percentage of the total benefits

Approximate Total Benefits N$ 1,435,780



- Combined tourism benefits N$ 1,278,640 (89 %)
- Combined hunting benefits N$ 0 (%)
- Veld product benefits N$ 0 (%)
- Other benefits (e.g. interest) N$ 157,140 (11 %)

Two of the most significant benefits for the conservancy:

✓cash income to the conservancy to cover running costs and invest in developments

✓employment benefits to conservancy residents

Conservancy income			**N$ 823,100**
Employment benefits	**Private Sector**	**32 staff**	**N$ 395,910**
	Conservancy	**15 staff**	**N$ 251,560**

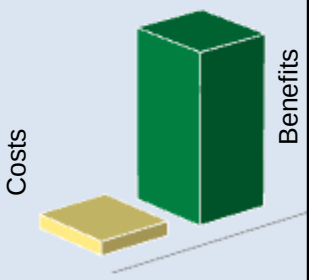
Cost of natural resource conflicts in 2011

estimates are based on average national values

Estimated human wildlife conflict cost	N$ 117,680
Estimated poached high value species loss	N$ 0
Total conflict cost estimate	**N$ 117,680**

Natural resource cost–benefit ratio in 2011

the chart shows the approximate ratio of benefits to costs



Natural resource benefits outweigh approximate conflict costs

Total benefits: N$ 1,435,780

Approximate conflict costs: N$ 117,680

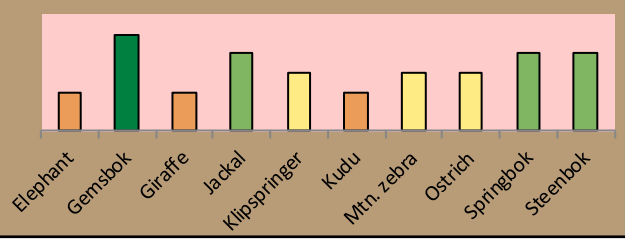
Approximate positive ratio 12 : 1

* The annual data collection process results in a lag of 1 year for income data *

Management performance in 2012

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

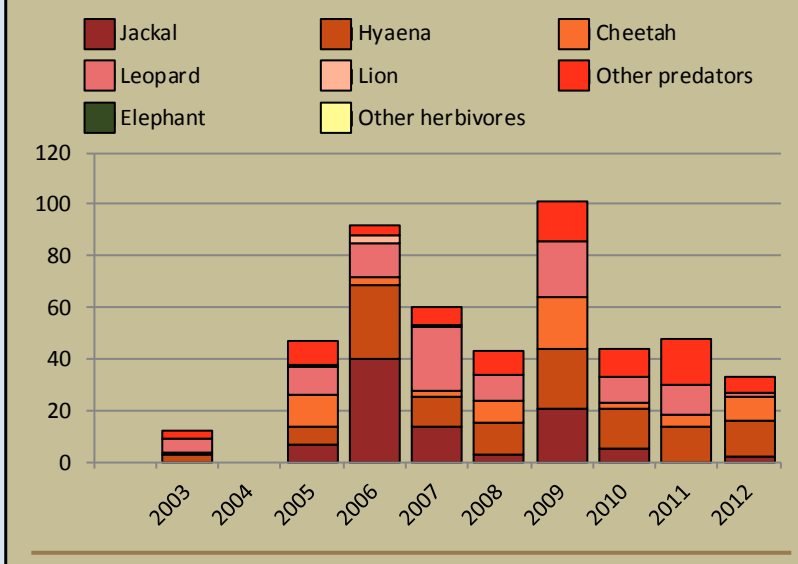
Wildlife status summary in 2012



Human wildlife conflict

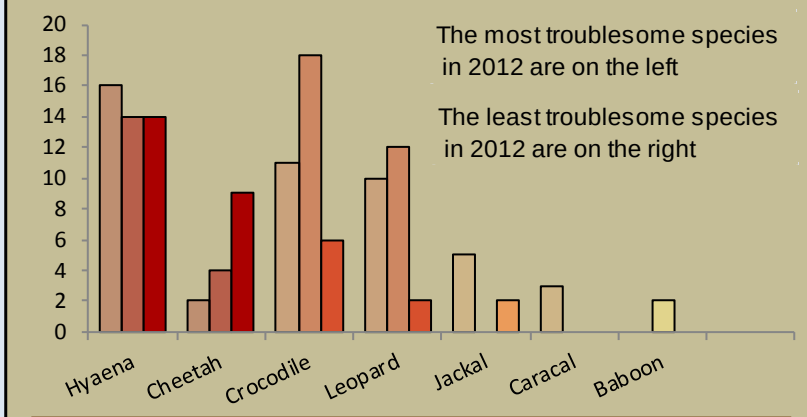
Human wildlife conflict trend

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



Most troublesome problem animals 2010-2012

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

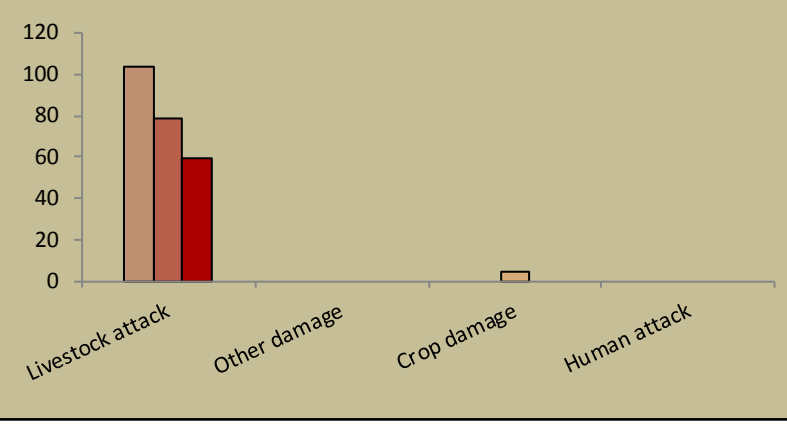


The most troublesome species in 2012 are on the left

The least troublesome species in 2012 are on the right

Type of damage by problem animals 2010-2012

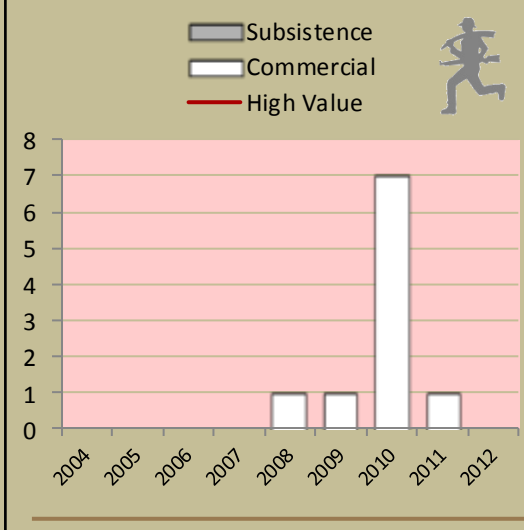
the chart shows the number of incidents per category for the last 3 years; the darkest bar (on the right) indicates the current year for each type



Poaching

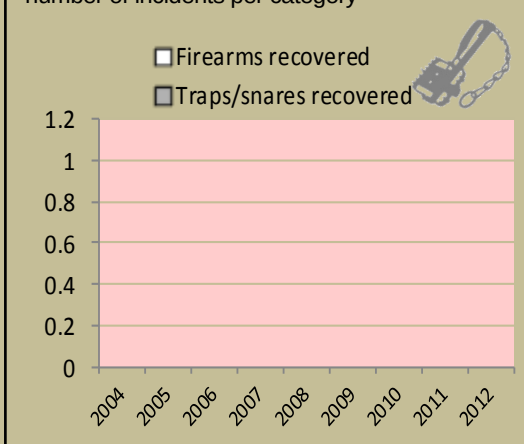
Number of incidents per year

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



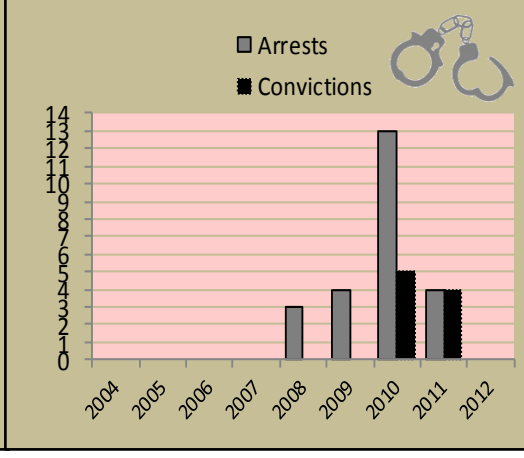
Traps and firearms recovered

number of incidents per category



Arrests and convictions

number of incidents per category



Wildlife removals – quota use and value

Species	Quota 2012						Animals actually used in 2012					
	Total	Potential Total Value N$	Trophy	Potential Trophy Value N$	Other Use	Potential Other use Value N$	Trophy	Own Use & Premium	Shoot & Sell	Capture & Sale	Problem Animal	Total Use
Cheetah	1		1									
Gemsbok	195	67,020	20	48,120	175	18,900		31	2			33
Jackal	2	314	2	314								
Leopard	2	41,172	2	41,172								
Ostrich	20	5,635	5	5,185	15	450						
Springbok	190	25,115	15	20,565	175	4,550		12	5			17
Mtn Zebra	28	27,916	7	24,430	21	3,486						

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

- **Potential trophy value** - the average national trophy value of each trophy species multiplied by the quota number
- **Potential other use value** - the average national meat value of each common species multiplied by the quota number
  - the average live sale value of each high value species (indicated with an *) multiplied by the quota number
  - high value species are never used for meat

Key to the status barometer

Wildlife status

extinct | very rare | rare | uncommon | common | abundant

weak/bad | reasonable | good

Management performance & other data

Success/threat flags

- success/ benefit created
- weakness/ action needed

Conservancies reduce environmental costs while increasing environmental benefits. Benefits from wildlife can far outweigh human wildlife conflict costs.

With Event Book Data

Not all data or species are shown on this report; use your Event Book for more information

Marienfluss **2012**

monitoring numbers and trends for a healthy conservancy...

Current wildlife numbers and status

Species	Animals Seen 2012	Range		Wildlife Status		
		Minimum Estimate	Likely Estimate	Count Trend	National Guideline	Desired Number
Elephant						
Gemsbok	512	3000 - 6030				
Giraffe						
Jackal	4					
Klipspringer						
Kudu						
Mtn. zebra	12	308 - 310				
Ostrich	33	316 - 470				
Springbok	591	2702 - 6430				
Steenbok	2	15 - 170				

Wildlife Status

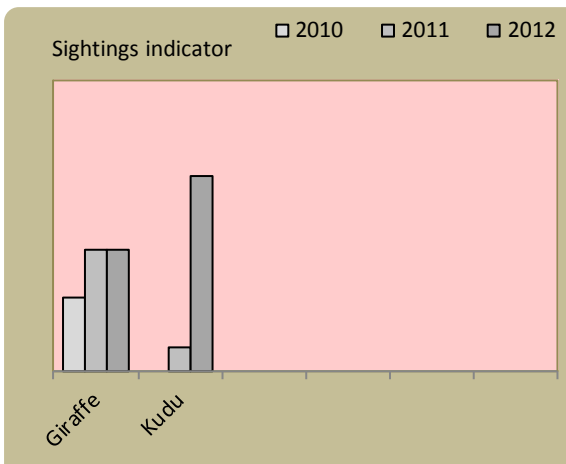
Count trend – gives the species status in the conservancy based on game count trend data.

National guideline – gives the species status in the conservancy using national guidelines for the conservancy; for example, lions may cause local problems, but are of high value and are rare at landscape level.

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

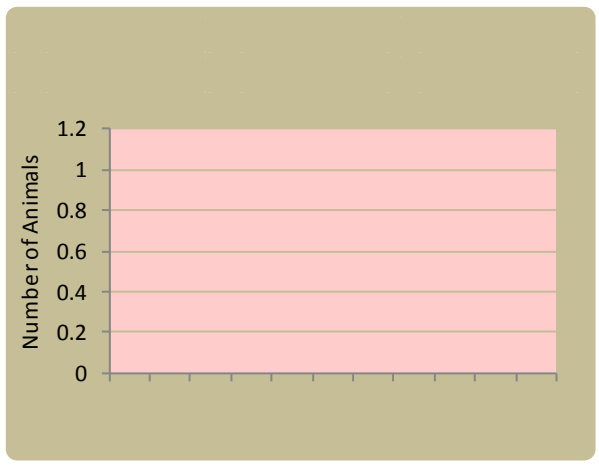
dark green (abundant) – there should be less;
light green (common) – the desired number is reached;
yellow (uncommon) – there should be more;
light orange (rare) – there should be more than double;
dark orange (very rare) – there should be more than triple;
red (extinct) – the species needs to be reintroduced.

Locally rare species

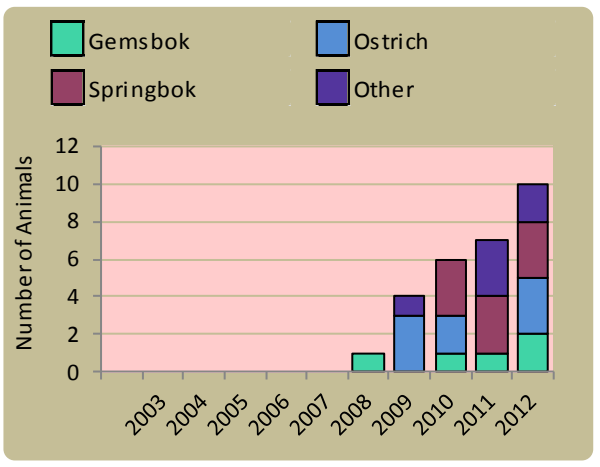


Locally rare and endangered species are not found very often in the conservancy and need special conservation attention.

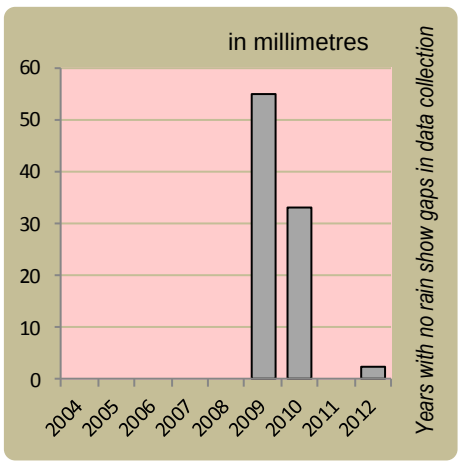
Wildlife introductions



Wildlife mortalities

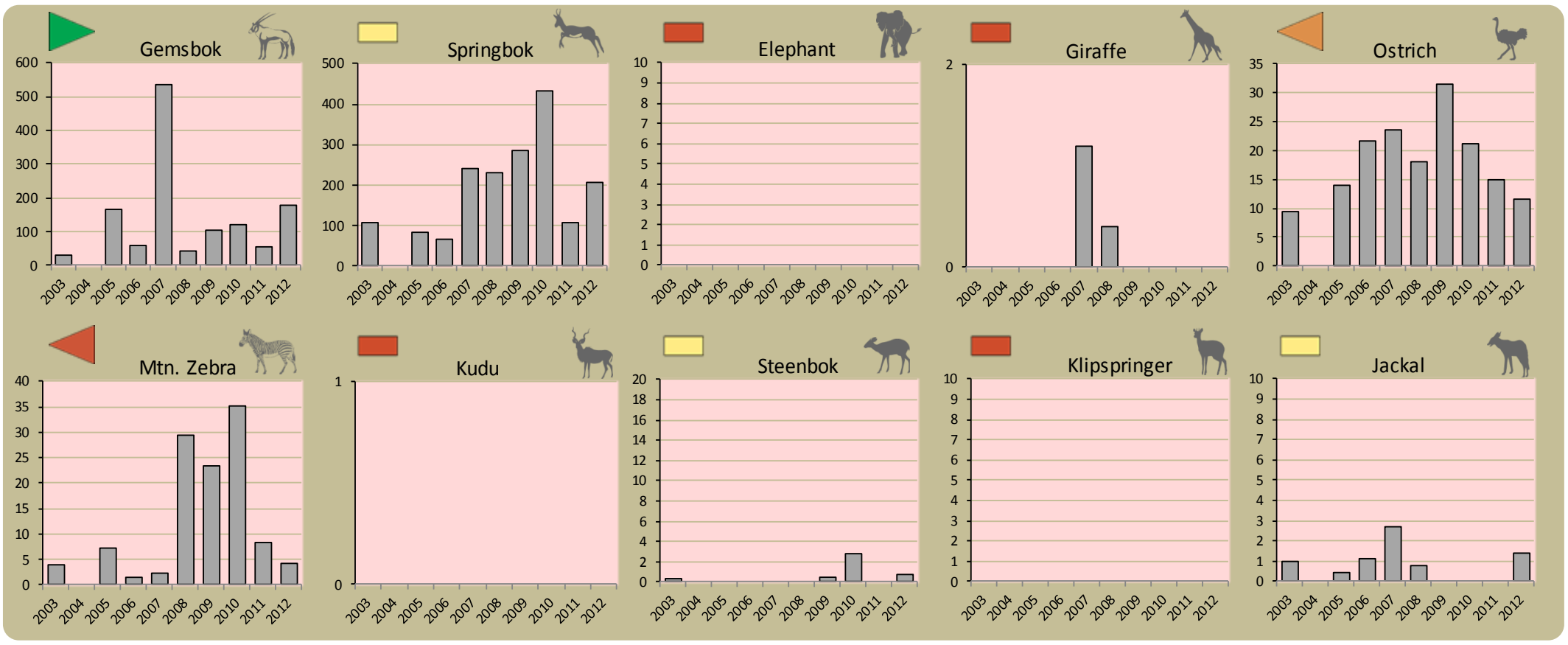


Annual rainfall



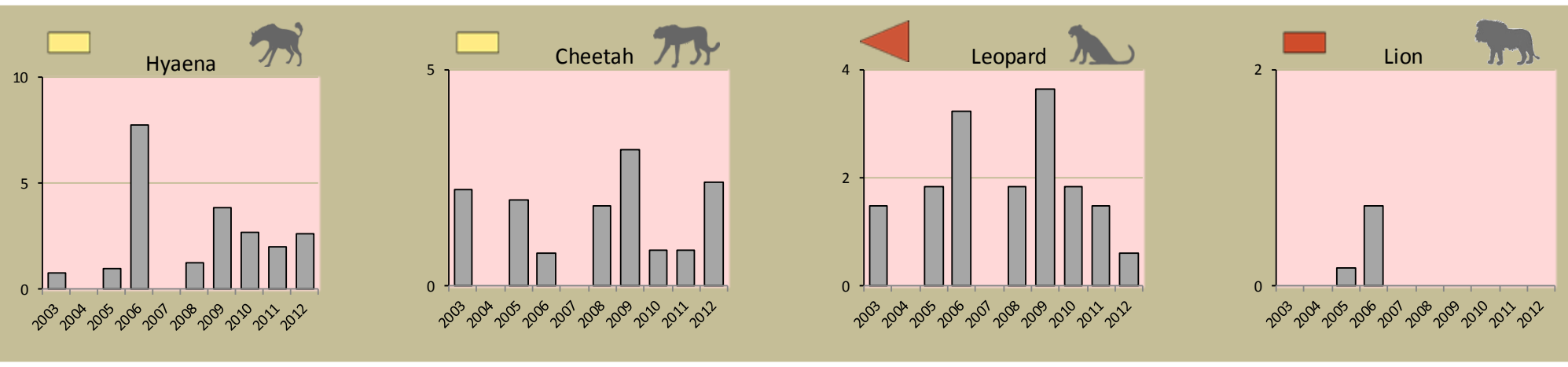
Annual game count

charts show the number of animals seen each year per 100 km driven during the game count
status barometers reflect the general count trend over the last 5 years



Predator monitoring

charts show the average number of animals seen per Event Book each year
status barometers reflect the general sightings trend over the last 5 years



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.