

2012

Mashi

# Annual Natural Resource Report

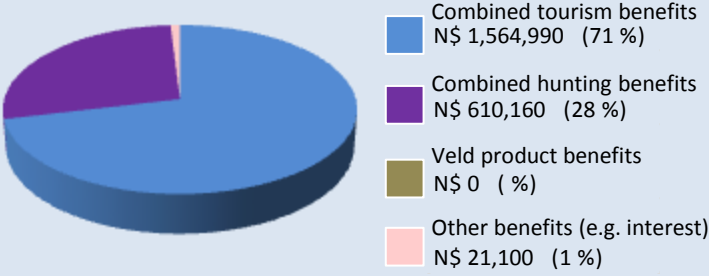
maximising wildlife benefits by minimising threats...

## 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\$ 2,196,250



### 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\$ 870,560	
Employment benefits	Private Sector	64 staff	N\$ 816,260
	Conservancy	19 staff	N\$ 397,820

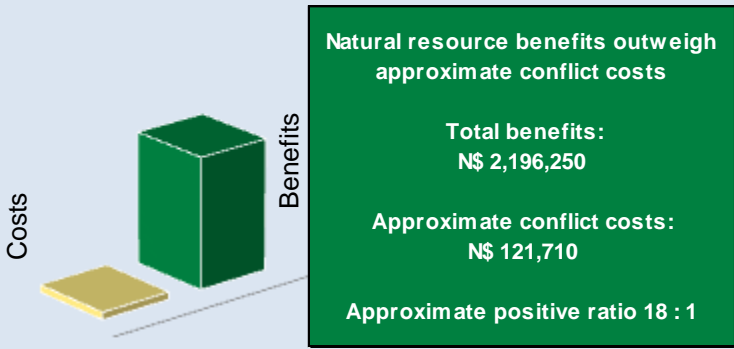
### Cost of natural resource conflicts in 2011

estimates are based on average national values

Estimated human wildlife conflict cost	N\$ 121,710
Estimated poached high value species loss	N\$ 0
Total conflict cost estimate	N\$ 121,710

### Natural resource cost-benefit ratio in 2011

the chart shows the approximate ratio of benefits to costs

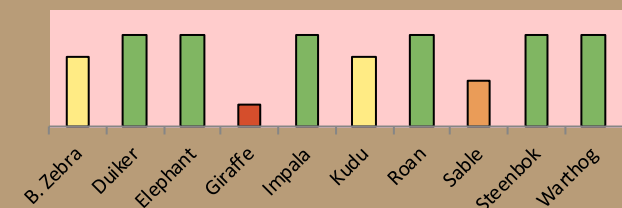


\* The annual data collection process results in a lag of 1 year for income data \*

### Management performance in 2012

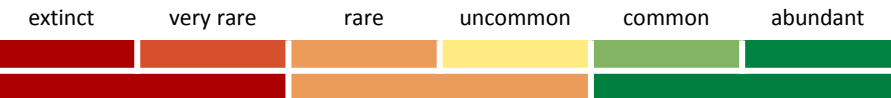
Category	Score	Performance		
1 Adequate staffing	3			
2 Adequate expenditure	3			
3 Audit attendance	5			
4 NR management plan	2			
5 Zonation	0			
6 Leadership	3			
7 Display of material	2			
8 Event Book modules	4			
9 Event Book quality	3			
10 Compliance	3			
11 Game census	3			
12 Reporting & adaptive m/ment	4			
13 Law enforcement	4			
14 Human Wildlife Conflict	3			
15 Sources of NR income	3			
16 Benefits produced	3			
17 Resource Sustainability	3			

### Wildlife status summary in 2012



## Key to the status barometer

### Wildlife status

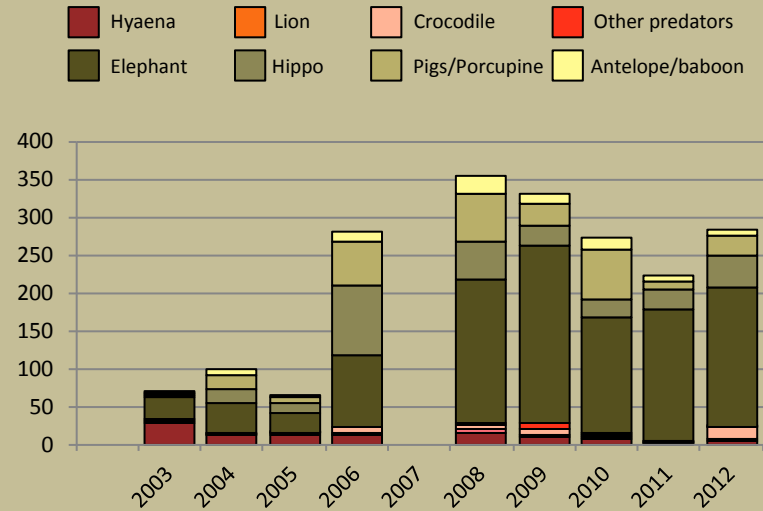


### Management performance & other data

## Human wildlife conflict

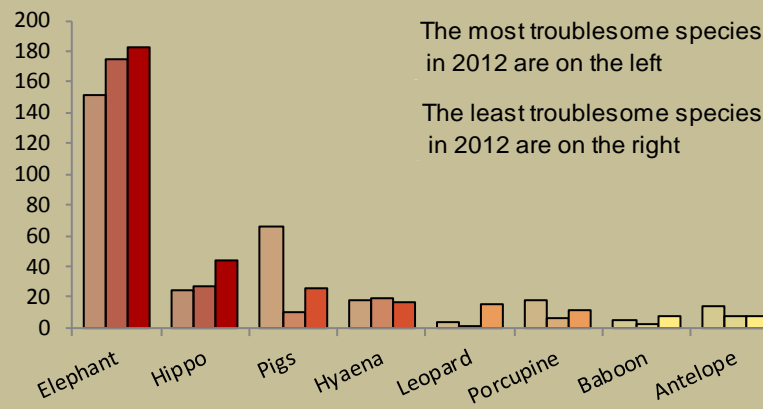
### Human wildlife conflict trend

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



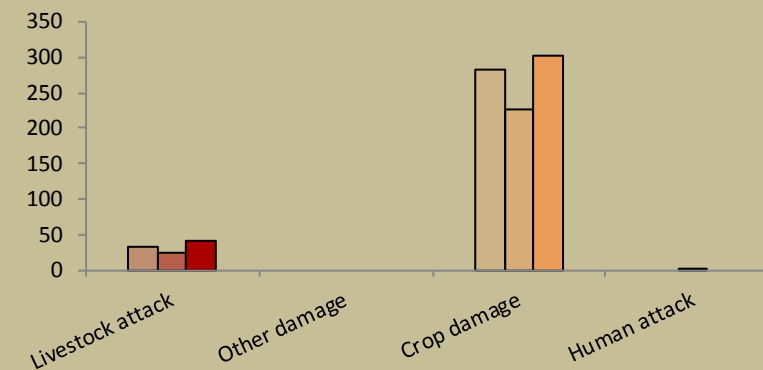
### Most troublesome problem animals 2010-2012

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



### Type of damage by problem animals 2010-2012

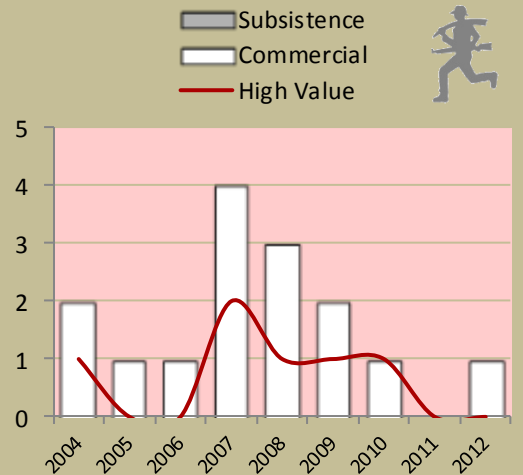
the chart shows the number of incidents per category for the last 3 years; the darkest bar (on the right) indicates the current year for each type



## Poaching

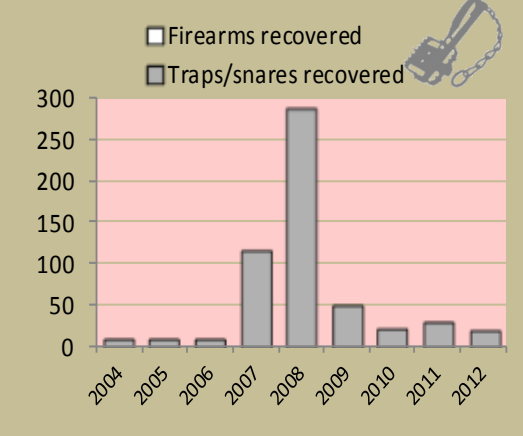
### Number of incidents per year

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



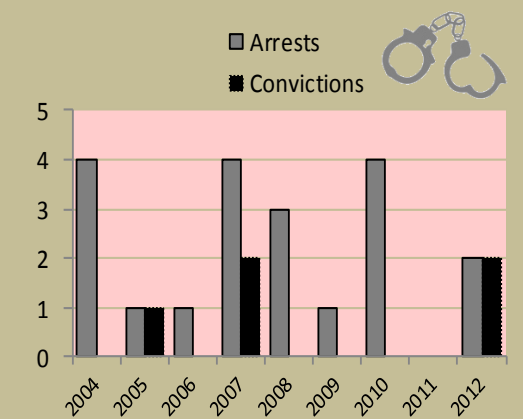
### Traps and firearms recovered

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
Baboon	15	2,690	10	2,690	5							
Buffalo	6	318,000	6	318,000			1					1
Bushpig	4	100			4	100						
Duiker	6	2,344	2	2,316	4	28						
Eland	1	6,184	1	6,184								
Elephant*	5	612,455	5	612,455			5					5
Hippo	5	99,690	5	99,690			5					5
Hyaena	1	2,981	1	2,981								
Impala	10	5,470	3	5,232	7	238	6	3	1			10
Kudu	8	25,674	6	25,416	2	258	2	3				5
Lechwe	1	11,475	1	11,475								
Leopard	1	20,586	1	20,586								
Reedbuck	2	11,400	2	11,400								
Roan*	2	95,112	2	95,112			2					2
Wildebeest	3	11,055	3	11,055			1					1
B. Zebra	9	31,647	8	31,472	1	175	8	1				9

### 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

Conservancies reduce environmental costs while increasing environmental benefits. Benefits 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	National Guideline	Desired Number
B. Zebra	25	25			
Duiker	5	23			
Elephant	8				
Giraffe					
Impala	40				
Kudu	11	11			
Roan	3	10			
Sable	1				
Steenbok	2				
Warthog	1	36			

Wildlife Status

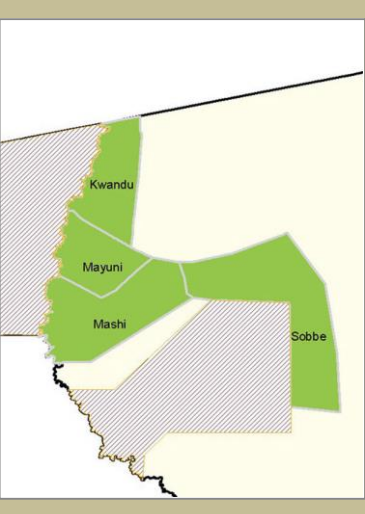
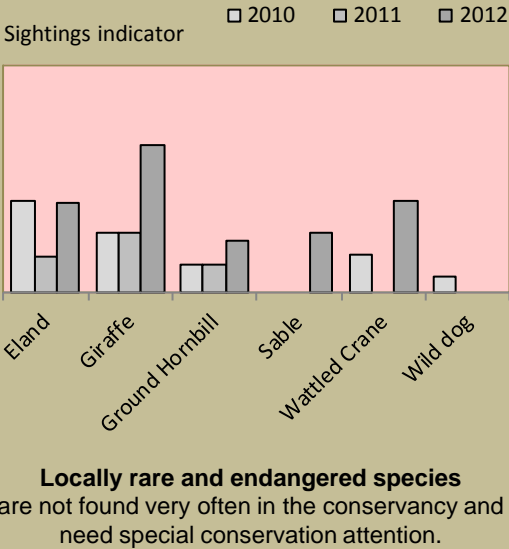
**Count trend** – gives the species status in the conservancy based on game count trend data.

**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.

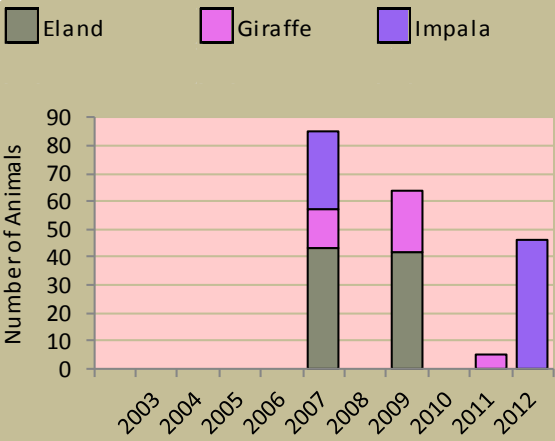
**Desired number** – gives the species status in the conservancy based on what the conservancy would like to have.

**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.

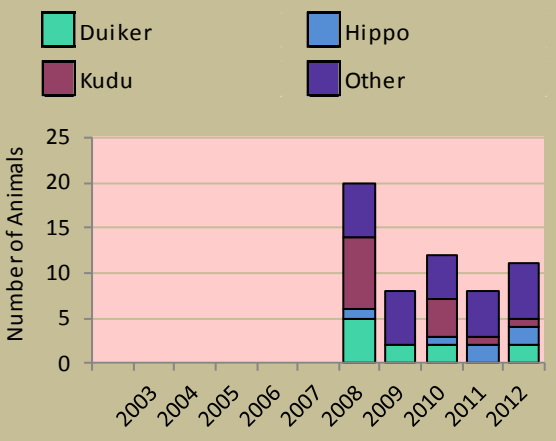
Locally rare species



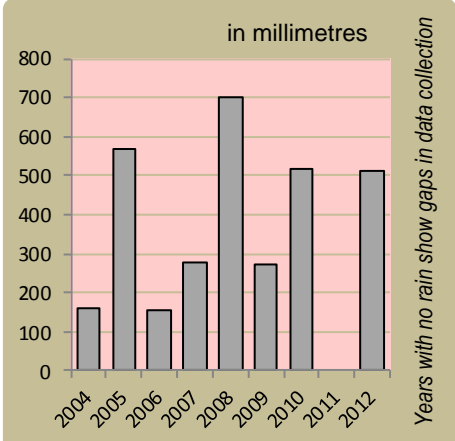
Wildlife introductions



Wildlife mortalities

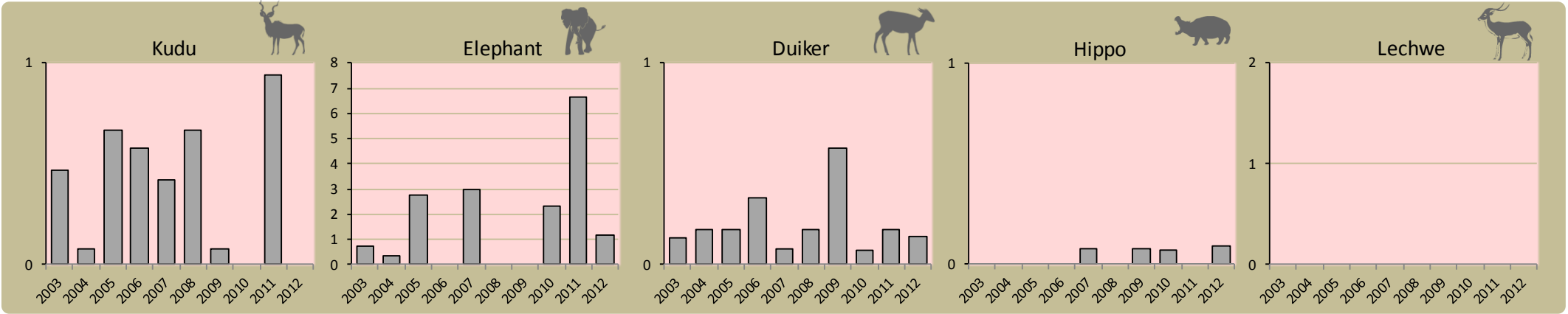


Annual rainfall



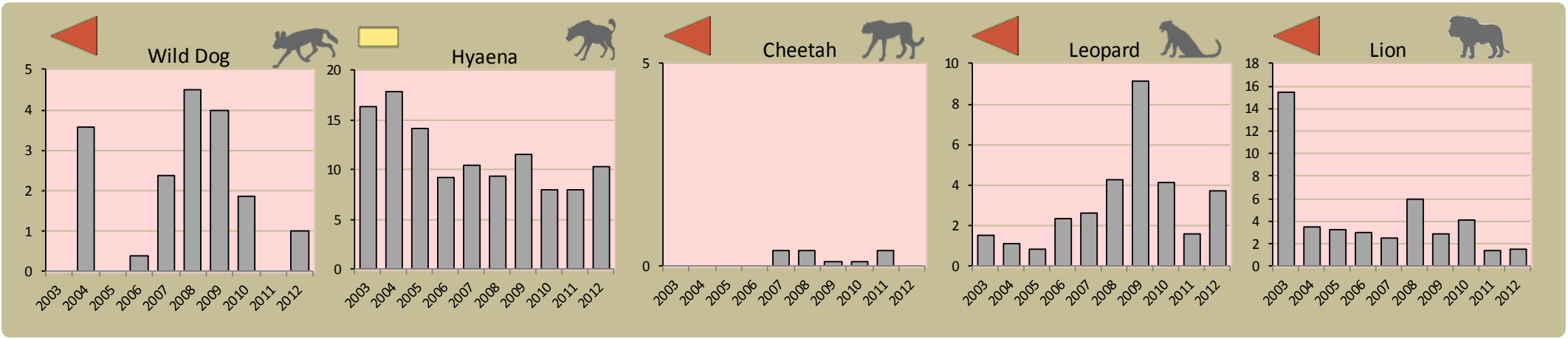
Fixed route patrols

charts show the number of sightings of each species per fixed route foot patrol each year

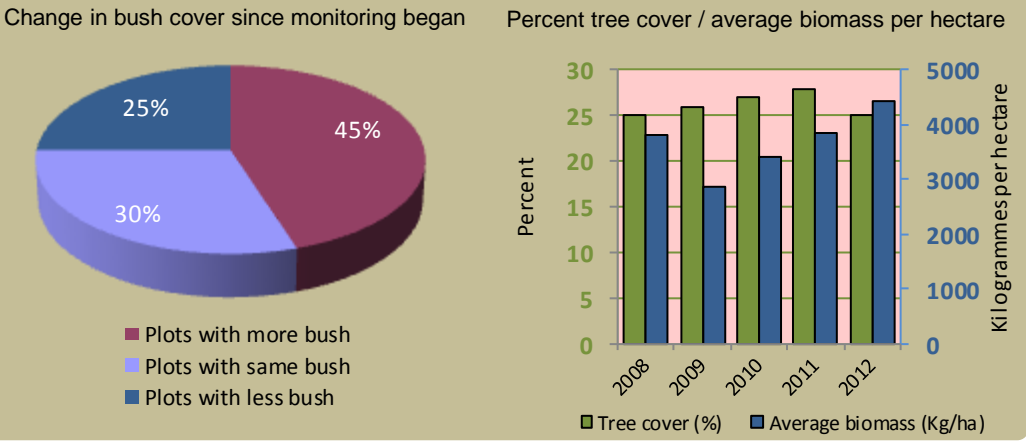


Predator monitoring

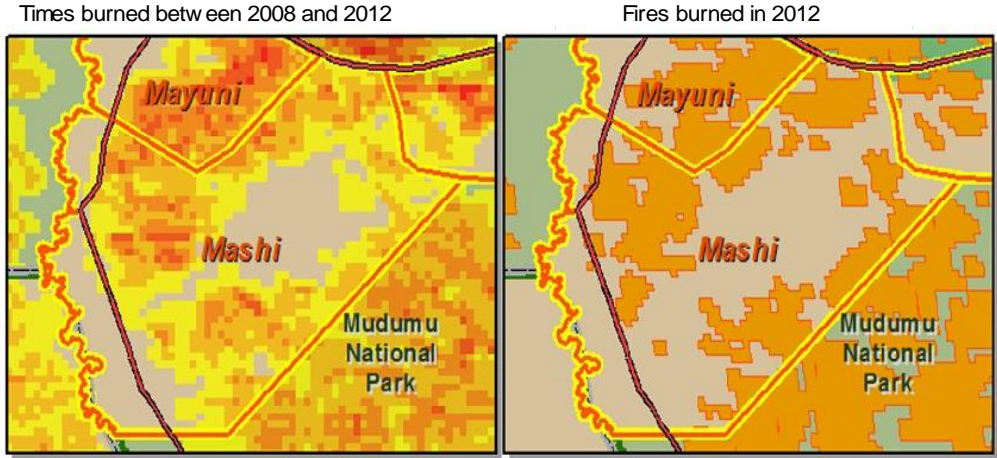
charts show the average number of animals seen per Event Book each year  
status barometers reflect the general sightings trend over the last 5 years



Vegetation monitoring



Fire monitoring



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.

