



Photo: Stephanus Ferreira

Human Wildlife Solutions

Monthly Report

September 2016

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A. REPORTING PERIOD

This monthly report covers the period from 27 August to 23 September 2016. September was a most unusual month in terms of food availability and baboon raiding behaviour. September marks the start of spring, when there is generally a marked increase in the amount of food available in the fynbos, and the baboon troops spent 99.5% of their time out of town. Despite this however, this month Human Wildlife Solutions (HWS) received a record number of 235 hotline calls, with 204 being related to raids in managed areas.

This anomaly can be explained largely by looking at the behaviour of individual baboons rather than at troops, as a whole. Over 100 calls came from Tokai and Zwaanswyk, although both these troops spent 100% of their time out of town. The problems came mostly from some young adult males showing new raiding and some dispersing behaviour. Furthermore, for most of the month there was a variety of problems with the Zwaanswyk fence. Baboons were able to access town by climbing over weak points in the fence, sections of the fence were not fully electrified and some raiding occurred via Steenberg's western fence, which has a low-quality fence. These problems clearly illustrate the point, that the strength of a chain (fence) is determined by its weakest link.

B. BABOON MANAGEMENT AND RAID REPORTING

South Eastern Region – Area Manager: Ziggy Rode

1. Smitswinkel Bay Troop

The Smitswinkel Bay Troop continued to be difficult to manage during this reporting period (September 2016). This can be attributed to unsuccessful attempts to capture and place a functional VHF collar on a baboon in the troop.

A VHF collar is an essential management tool that enables the rangers to locate and determine the movements of the troop throughout the day. Collaring an animal in the troop remains a high priority.

The troop foraged and roosted in the northern parts of its home range for the majority of this month. The troop made several excursions down to the coastline to feed on marine organisms, rich in protein and nutrients, located in the inter-tidal zone. When on the mountain and close to road verge, the troop foraged predominantly on fynbos, coastal thicket vegetation, pine cones and amongst the alien invasive vegetation.

The troop spent 145 minutes in the urban space over this reporting period in comparison to 55 minutes in August 2016. Following a similar trend, the time in town for individual animals also increased from 50 minutes in August 2016, to 344 minutes in September 2016 (Figure 1). This increase highlights the importance of a VHF collar to manage this troop.

During this month, similar to August 2016, SWB9 proved difficult to manage. Fifteen raiding incidents were recorded for SWB9 over September 2016. These included four bin raids, one unoccupied house raid, one unoccupied camp raid, an unoccupied house raid. On one occasion, SWB9 also caused non-malicious damage at the Black Marlin Restaurant by breaking glassware. The raiding behaviour of SWB9 will be monitored closely.

HWS: TROOP MONTHLY REPORT																																																				
SECTOR		CLASSES OF BEHAVIOUR																																																		
SOUTH EAST		1	In urban area					4	Attacking pets					7	Threatening behaviour/attack/stealing food																																					
BABOON TROOP:		SMITS		2	Raid bins					5	Raid unoccupied house or vehicle					8	Breaking & Entering/Damaging property																																			
MONTH: SEPTEMBER		YEAR: 2016		3	Non malicious damage					6	Raid occupied house or vehicle					9	Nocturnal Raiding																																			
BABOON ID		Sex	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TOTAL																					
SWB6 (R-B)		M				1																									1																					
Troop				2,3		1																									3																					
UnID Individuals						1																									1																					
UnID Fem		F				1									1		5	1													4																					
SWBF1		F		1		1																									2																					
SWB9 (Y-W)		M	2			8					1			5	1,1	1	5	1	2		2		1		2,6			1			15																					
UnID Male		M				1																									1																					
UnID Juveniles						1																									1																					
		%	TIME SPENT IN TOWN (Minutes)																									HRS																								
Troop		0.7		5		130																									2.25																					
Individuals		1.8	5	7		130					5			20	40	25	10	12	5		20		30		15				20		5.73																					
Roost:		AM	3	4	3	1	5	5	5	5	6	1	1	4	5	5	5	4	3	8	5	8	5	5	5	4	6	5	5	5																						
Roost:		PM	4	3	1	5	5	5	5	6	1	1	4	5	5	5	4	3	4	5	5	4	5	5	4	6	5	5	5	4																						
Roost Sites			1					Smits Caves					2					Partridge Point					3					Bluegums					4					Millers Point					5					Rocklands Farm				
			6					Castle Rock					7					SANParks					8					Other					9					10														
ID Features of Baboons																																																				
General remarks																																																				

Figure 1: Smitswinkel Bay Troop raid sheet for September 2016.

2. Waterfall Troop

The Waterfall Troop proved challenging to manage over this reporting period, only roosting at the South African Naval Ammunition Depot (SANAD) on four occasions, and at the North Peak sleep site on one occasion. The majority of nights were spent roosting in the lower lying areas above the Waterfall Naval Barracks, Happy Valley Home and Barnard Street in Simon's Town (Figure 2).



Figure 2: The Waterfall Troop's movement for September 2016.

The terrain encompassing the urban area is steep, rocky and in many parts, inaccessible to the rangers. The troop used this to its advantage by splitting into sub-groups and moving with speed towards town. Poor waste management, limited baboon-proofing at the naval barracks, fruit trees in the urban area, refuse bins that are not baboon-proof and deliberate feeding are among a number of factors, which constantly provide fruitful rewards for animals entering the urban area.

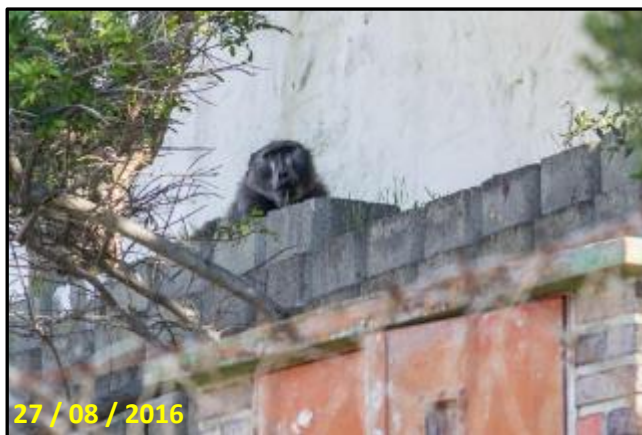


Figure 3: Adult male seen hiding amongst the buildings at the Waterfall Naval Barracks

Similar to last month, conflict remains intense among the adult males in the troop. The troop structure and dynamics have perpetually changed, as the males continue to displace and out rank one another. At this stage, it is not possible to determine which male holds the alpha male status in the troop because it constantly fluctuates.

There was a notable increase in time in town for both the troop and individual animals. The troop spent 3.08 hours in the urban area in September 2016, in comparison to eight minutes in August 2016. Individual animals spent 41.40 hours in the urban area in September 2016, in contrast to 37.50 hours in August 2016 (Figure 4).

HWS: TROOP MONTHLY REPORT																														
SECTOR		CLASSES OF BEHAVIOUR																												
SOUTH EAST		1	In urban area				4	Attacking pets				7	Threatening behaviour/attack/stealing food																	
BABOON TROOP:	WATERFALL	2	Raid bins				5	Raid unoccupied house or vehicle				8	Breaking & Entering/Damaging property																	
MONTH: SEPTEMBER	YEAR: 2016	3	Non malicious damage				6	Raid occupied house or vehicle				9	Nocturnal Raiding																	
BABOON ID	Sex	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TOTAL
Troop									2,3,5					1	1						1	1								7
CON4 (B)	M	2	2		2			2					2,5,2		2	1,2	1				1	2								13
GOB7	M										2	1	1,1,2			1	1		1,1	1	1,6	6,1	1	1		2				17
TK19 (R-W)	M			2	2			2				2	2			1	1		1,1	1	1,6		2	2				2		15
TK42 (B-Y)	M		2									2		1		1,2				1	6	2						1		9
WFF3	F												1		2				1	2	1									5
WFF4	F																													0
WFF5 (Y)	F																													0
WFF6 (R)	F								1		2,3,5	5								2,1										7
UnID Females	F				2,2			2		1			5,2			1,2	1	1,2	1	2		2		2	2			1		9
UnID Juveniles		2,5									1	5	2,1		2	1,2	2,5	2	2,1				2		2	1,2				16
UnID Male	M	2,5									2,3,5	5,5	2,1		2			1												9
UnID Individuals								1		2		2	5,2	5,2	5	2		2	2,5,6,2		5,6	5,2	2,5,6					2,5	2	23
	%	TIME SPENT IN TOWN (Minutes)																							HRS					
Troop	1.0							20						60	60						15	30								3.08
Individuals	12.9	45	15	10				15	15	10	70	132	144	75	290	65	65	35	288	365	315	270	65	20	10	35		130		41.40
Roost:	AM	10	10	10	10	10	9	9	9	4	4	6	1	2	1	1	1	1	6	1	1	1	1	1	6	6	6	6	2	1
Roost:	PM	10	10	10	10,2	9	9	6	4	6	4	2	1	1	1	1	1	6	6	1	1	1	2	6	6	6	6	6	1	14
Roost Sites		1	Waterfall Cliff				2	Happy Valley Mtn				3	Signal School				4	Waterfall Barracks				5	Mountain Residents side							
		6	Admiral footpath				7	Cape Farm House				8	Happy Valley Home				9	Red Hill				10	SANAD							
		11	Mountain CoGHN				12	Gate 3 - Plateau Road				13	Rocklands Farm				14	North Peak				15	Bungalow							
		16	Rocklands Valley				17	Shamballah Pines				18					19					20								
ID Features of Baboons																														
General remarks		Red indicates raids that took place at SANAD																												

Figure 4: The Waterfall Troop raid sheet for September 2016.

Out of the adult males, seventeen raiding incidents were recorded for GOB7, fifteen for TK19, thirteen for CON4 and nine for TK42, respectively. Sixteen raiding incidents were recorded for juvenile baboons which is a great concern, because the younger generation are learning to raid. This illustrates how important it is for the troop to roost at the SANAD sleep site, far from the urban area.

3. Da Gama Troop:

The management of the Da Gama Troop continues not to be a big concern this month, as the troop only spent 0.1% of time in the urban area. The troop only entered the urban area on two occasions this month and on both occasions, it was only for 10 minutes at a time.

Individual baboons are still the main concern in the area, but at least the time in town has come down from 22% in August to 15.4% in September. Lack of baboon-proofing, vegetable gardens, fruit trees, poor waste management and overall access to human derived foods (HDF's) remains the primary attractant in both Welcome Glen and Da Gama Park. Of concern is also the initial signs of dispersing behaviour shown

by DG14, which was already starting during the August 2016 reporting period. Throughout this reporting period DG14 continued to spend time away from the troop or on the periphery of the troop. He was also being chased away from the troop by DG15. DG14 was seen feeding on fresh fruit/vegetables and eggs on compost heaps within Welcome Glen, this resulted in him pushing very hard to enter the urban area daily.



Figure 5 (a) and (b): DG14 Feeding from a compost heap in Welcome Glen. **(c)** Compost heap in Welcome Glen.

Over the last two months it has become evident that DG15 has now taken over the alpha male position in the troop. DG15 mated with the alpha female and her cohort of females. He also fought frequently with TK43 who was the alpha male of the troop, but TK43 retreated after the fights, attempting to enter the urban areas. It does now seem that TK43 no longer holds the alpha male role in the troop.



Figure 6: The Da Gama Troop's movement for the September reporting period. Red lines show movements of raiding individual baboons, and the yellow lines depict the troop's movements.

There was a very interesting and rare incident on 10 September, when DG16 and DG17 seemed to discover something in a berry bush above the Naval Flats at the rock face. They both showed interest, which attracted the attention of the troop and the troop approached. DG16 climbed down from the rocks to investigate, when there was a loud hissing sound from the bush. He immediately jumped back up onto the rocks and the troop started screaming. Soon after DG15 and DG16 attempted to catch the animal in the bush but they were very hesitant. Field manager, Stefanus Ferreira, went to investigate, and as he got closer a caracal shot out of the bush and ran off. It was not seen again.

There was also another incident when a resident was seen firing a paintball marker at a baboon in Welcome Glen. This also occurred in Da Gama Park over the last two months and clearly indicates the need for law enforcement in the area pertaining to individuals using paintball markers to deter baboons.

Currently the fruiting trees that attract the baboons the most to the urban area, are the loquat trees. Other trees that are of major concern in the urban area are the fig and guava trees. Residents should refrain from planting these trees or should attempt to remove the fruit from these trees, because the baboons spend hours feeding on the fruit.

HWS: TROOP MONTHLY REPORT																																	
SECTOR		CLASSES OF BEHAVIOUR																															
SOUTH EAST		1	In urban area				4	Attacking pets				7	Threatening behaviour/attack/stealing food																				
BABOON TROOP:		DA GAMA		2	Raid bins				5	Raid unoccupied house or vehicle				8	Breaking & Entering/Damaging property																		
MONTH: SEPTEMBER		YEAR: 2016		3	Non malicious damage				6	Raid occupied house or vehicle				9	Nocturnal Raiding																		
BABOON ID	Sex	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TOTAL			
Troop									1										1											2			
DG14 (O-G)	M	1	2,5	1		2	2	2,6	6	1			2	1	1				1	1			1		1	2	2,6,6	1	1	23			
DG15 (R)	M	1							1										1							2,2		1	6				
DG16	M	2,6		1		1			1	1			2	1	1			1	2		5,6					2,2	2,2	1	1	19			
DG17	M			1		1			1	1				1	1				1										7				
TK43 (W-W)	M								1							1			1							2			4				
DGF1	F								1										1										2				
DGF2	F								1										1			5							3				
DGF4	F								1				1	1					1										4				
UnID Females	F			1			1		1				2		1				1			1				2		1	9				
UnID Males	M	1		1		1			1							1			1			1					2,2		9				
UnID Individuals		1							1										1			1					2,2		6				
UnID Juvs									1	1									1										3				
	%	TIME SPENT IN TOWN (Minutes)																									HRS						
Troop	0.1																										0.33						
Individuals	15.4	385	145	179		88	150		385	195	155		185	120	46	25			10			245	90		148	10		40	106	180	58	39	49.57
Roost:	AM	1,2	2,3	1,2	2	2	5	5	1,2	1,2	3	1,2	1,2,5	2,5	5	2	2	2	1,2	1,2	1,2	3	1,2	2	2	1,2	2	1,2,4	1,2	1,2,4	1,2	1,2	
Roost:	PM	2,3	1,2	2	2	5	2	1,2	3	1,2	1,2,5	5	5	2	2	2	2	1,2	1,2	3	1,2	2	2	2	2	3	1,2	1,2,4	1,2,4	2	2		
Roost Sites		1	Flats				2	Pines - Flats				3	Pines - Da Gama				4	Pines - WG				5	Sport Fields Stables										
		6	Compass Bakery				7	Pines - Outspan				8	Jacks Shop				9	Elsie's Peak				10	Rotary Camp										
		11	Witsand				12	Slangkop				13	Platkop				14	Rasta Camp				15	Ocean View										
		16	KL sleep site				17	Maylands				18	Elsies River Valley				19	Red Hill / Windford				20	Grootkop										
		21	16th Avenue, DG				22	Lewis Gay Dam				23	Pinehaven				24	Kleinplaas Dam				25	Scarborough										
ID Features of Baboons																																	
General remarks																																	

Figure 7: The Da Gama Troop raid sheet for September 2016.

Births and Deaths

One new-born was reported in the Da Gama Troop on 13 September. Two new-borns were reported in the Smitswinkel Troop on 15 September. No deaths occurred in the South-East section during this reporting period.

Recommendations

- Residents at the Naval flats in Da Gama Park, should place their **refuse bags inside the bins, inside the bin bay** and not leave it in front of the gate or on the floor.
- New door knobs** need to be installed on the doors of the bin bays at the flats.
- Broken garages** at the Naval flats in Da Gama Park should be fixed, because the baboons are climbing in through the openings to gain access to the bins.
- The new service provider for the removal of the waste on bin days, do not seem to have **trucks that are able to open baboon-proof bins**. The bins are opened by hand and if the bins have locks on they hit the pins with rocks. **This needs to be addressed urgently, as baboon-proof bins are being damaged by this.**
- All vegetable gardens to be baboon-proofed and residents should refrain from growing fruit trees in baboon affected areas, or remove fruit from trees.
- Waste management at the Waterfall Barracks**, should be baboon-proofed, as this is attracting baboons into the facility.

- Residents at the Waterfall Barracks and Happy Valley Shelter **should keep their doors and windows closed when they are not there.**
- **Law enforcement is urgently needed** in Welcome Glen and Da Gama Park, to assist with residents that **utilise paintball markers and pellet guns to deter baboons.**
- **The Black Marlin Restaurant should baboon-proof the restaurant and waste management, as well as raise awareness** amongst their patrons about the presence of baboons in the area.

South Western Region – Area Manager: Cath Shutte

1. Groot Olifantsbos Troop (GOB)

The Groot Olifantsbos (GOB) Troop remained within the Cape of Good Hope (CoGH) section of the Table Mountain National Park (TMNP) for the majority of the month.

While in the national park, the troop concentrated its-foraging activity on the indigenous vegetation with sporadic visits to the coastline for coastal forage. The troop utilised a large percentage of its home range, with many days spent deep inside the national park.

The GOB Troop encountered the Misty Cliffs Troop on numerous occasions this month. The two troops began showing initial signs of interaction and the strengthening of social bonds. This is a positive first step towards the two troops merging.

2. Misty Cliffs Troop (MC)

Following on from last month, the Misty Cliffs Troop began the month inside the CoGH section of the TMNP. However, on 31 August, due to misty weather conditions and poor visibility, the troop managed to evade the rangers stationed along the Cape Point fence. The troop exited the national park and moved through Scarborough, exiting at the fire break above Hill Top Road.

The troop spent the next five nights sleeping on the cliffs between Scarborough and Misty Cliffs. While outside of the national park, the troop moved between Misty Cliffs and Scarborough. The troop, entered the urban area on four occasions and spent a total of eight hours in the urban space.

HWS: TROOP MONTHLY REPORT																																
SECTOR		CLASSES OF BEHAVIOUR																														
SOUTH WEST		1	In urban area					4	Attacking pets					7	Threatening behaviour/attack/stealing food																	
BABOON TROOP:		Misty Cliffs		2	Raid bins					5	Raid unoccupied house or vehicle					8	Breaking & Entering/Damaging property															
MONTH: September		YEAR: 2016		3	Non malicious damage					6	Raid occupied house or vehicle					9	Nocturnal Raiding															
BABOON ID		Sex	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TOTAL	
Unld Females		F								2																				1		
Unld Juveniles																														0		
Troop							1	1	1	1																				4		
		%	TIME SPENT IN TOWN (Minutes)																									HRS				
Troop		2.5					72	129	149	130																				8.00		
Individuals		0.0																												0.00		
Roost:		AM	4	4	4	4	4	4	2	1	1	1	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
Roost:		PM	4	4	4	4	4	2	1	1	1	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
Roost Sites			1	Misty Cliffs 1					2	Misty Cliffs 2					3	Witsand					4	CoGH Reserve					5	Other				
			6	Scarborough Beacon																												
ID Features of Baboons																																
General remarks																																

Figure 8: Misty Cliffs Troop raid sheet for September 2016.

On 5 September 2016, HWS rangers encouraged the troop to move towards Grootkop, where they spent the morning foraging and grooming. The rangers slowly moved the troop south through Baskloof towards the national park. The troop jumped the fence into the national park at 5pm and made its way straight to the Bonteberg sleep site.

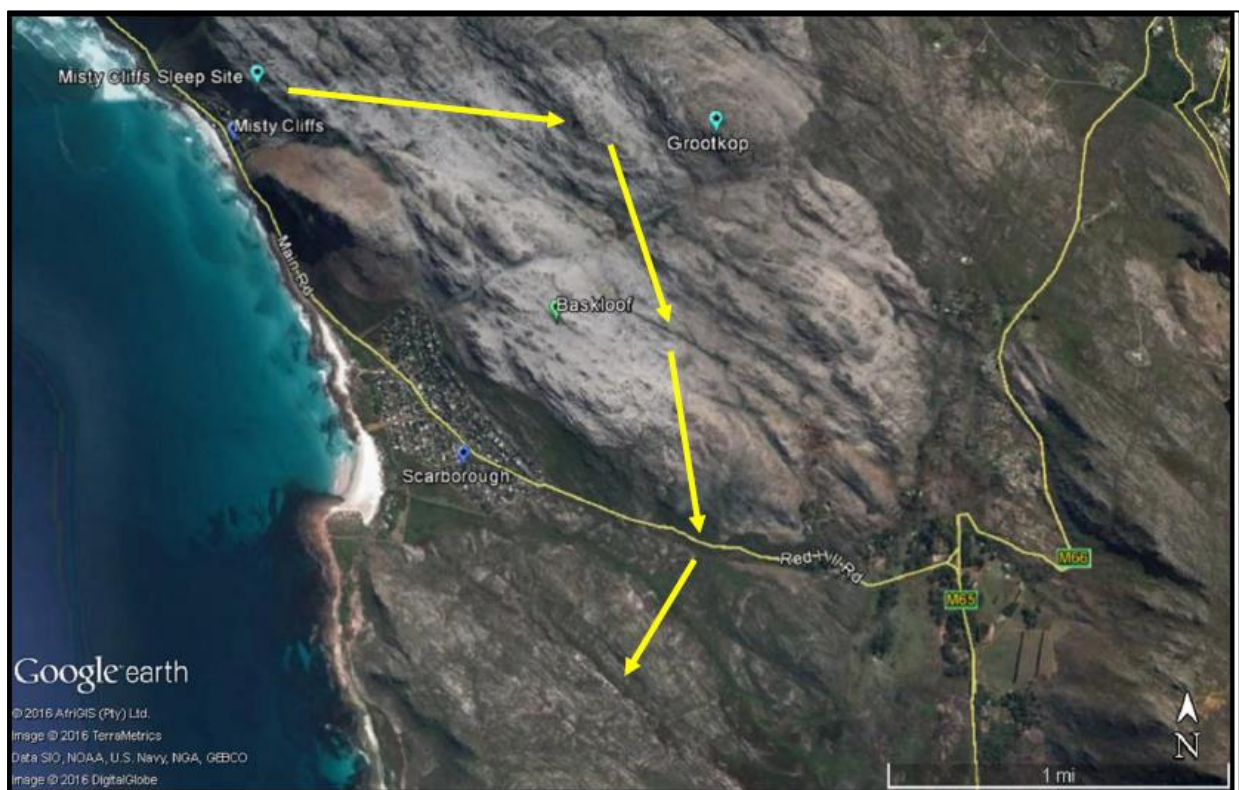


Figure 9: Misty Cliffs Troop movement from the Misty Cliffs' sleep site to CoGH of TMNP on 5 September 2016.

The troop remained in the CoGH for the remainder of the reporting period. While in the CoGH, the troop slept on the Bonteberg Cliffs and foraged on the indigenous vegetation.

From a distance, the rangers observed the Misty Cliffs Troop interacting with the GOB Troop. On one occasion, the Misty Cliffs Troop was observed to be following the GOB Troop and on another, a female of the Misty Cliffs Troop was observed being groomed by a female from the GOB Troop.

These positive interactions between the two troops should begin to strengthen social bonds between the individuals. HWS staff see this as a positive step towards the merge of these two troops. A merge will benefit the Misty Cliffs Troop by providing them with the protection of an alpha male as well as increasing the troops social structure.

These troops will be left alone with minimal human interactions to interact naturally and hopefully merge.

3. Slangkop Troop

The Slangkop Troop predominantly slept on the Compass Bakery Cliffs sleep site, 22 nights, this month and only six nights in the pines behind Ocean View. HWS rangers have worked hard this month to hold the line above the pines behind Ocean View and encourage the troops movement to the cliffs. This was a pleasing result for the troop because it results in a reduction in the conflict with the Ocean View residents.

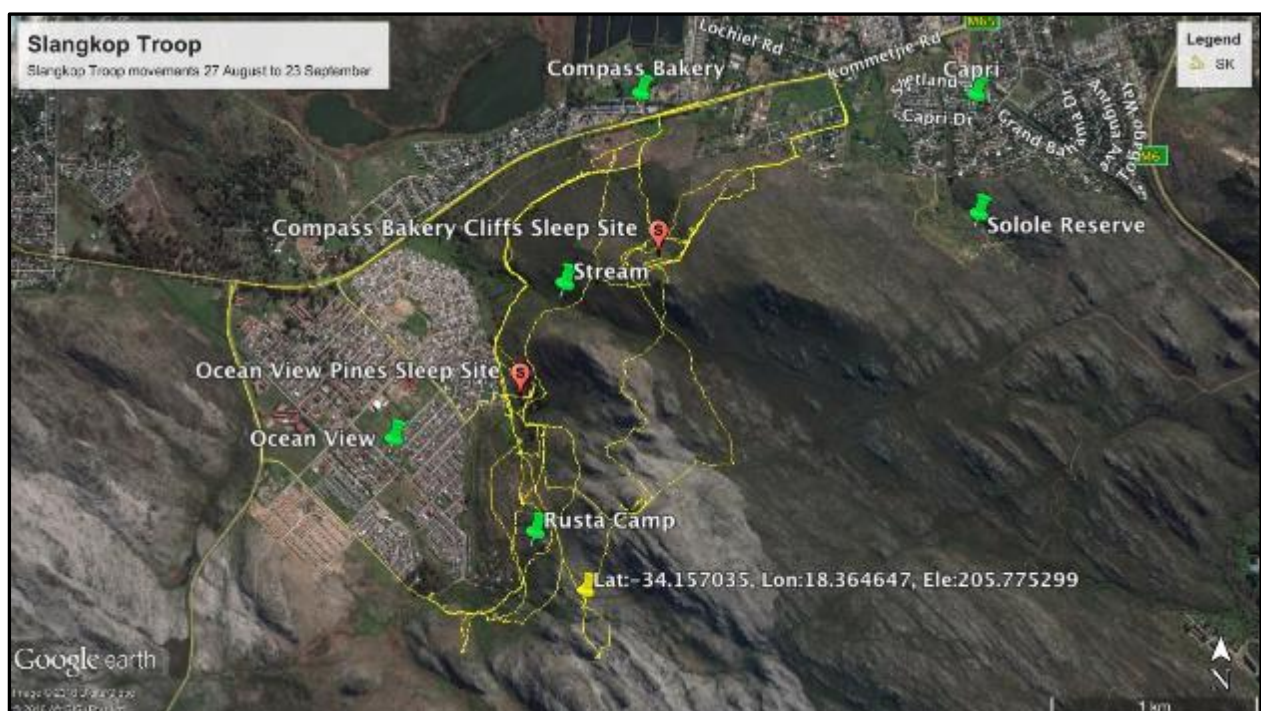


Figure 10: Slangkop Troop movement for the September reporting period.

The troop concentrated its forage efforts to the upper reaches of the mountain behind the Rasta Camp and on the plateau above the Compass Cliffs sleep site. The stream on the plateau above Ocean View now provides a permanent water source for the troop and they drink regularly from it.

Following on from last month's trend (HWS August 2016 Report), the Slangkop Troop's time in town has dropped yet again this month. The troop, as a whole, only entered the urban area on one occasion this month and there were no bin raids recorded at In2Foods Compass.

HWS: TROOP MONTHLY REPORT																															
SECTOR		CLASSES OF BEHAVIOUR																													
SOUTH WEST		1	In urban area					4	Attacking pets					7	Threatening behaviour/attack/stealing food																
BABOON TROOP:		Slangkop		2	Raid bins					5	Raid unoccupied house or vehicle					8	Breaking & Entering/Damaging property														
MONTH: September		YEAR: 2016		3	Non malicious damage					6	Raid occupied house or vehicle					9	Nocturnal Raiding														
BABOON ID		Sex	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TOTAL
DG6		M						1												1		1	1							4	
SK6 (Sub-adult)		M		1																							2			2	
UnID Males		M		1	2		1	1						1		1		2												7	
UnID Females		F																2		1			1				2			4	
UnID Juveniles																						1								1	
Troop																								2						1	
		%	TIME SPENT IN TOWN (Minutes)																									HRS			
Troop		0.1																						17						0.28	
Individuals		1.2		10	6		15	36						18		38		25		3		6	21	55						3.88	
Roost:		AM	3	3	3	3	3	3	2	3	3	3	2	3	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	
Roost:		PM	3	3	3	3	3	2	3	3	3	2	3	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	
Roost Sites			1 Slangkop					2 Ocean View					3 Compass Bakery					4 Witsand					5 Other								
ID Features of Baboons																															
General remarks																															

Figure 11: Slangkop Troop raid sheet for September 2016.

On 27 August, SK6 fought with DG6, the alpha male of the Slangkop Troop. This was a direct challenge by SK6 for alpha status. The fight was of such a serious nature that Field Manager, Byron Loubser, and Area Manager, Cath Shutte, responded immediately to assess the injuries to both males. DG6 sustained injuries to the right cheek, left forearm and left hind leg. SK6 sustained minor injuries under his chin and on his left shoulder. Both males were moving with the troop. However, DG6 was following from a short distance behind the troop.

Both male's injuries were monitored closely over the following days and both made a full recovery. It became apparent, after the initial fight that SK6 had risen to alpha of the Slangkop Troop. DG6, assumed the role of beta male and continued to move and forage with the troop.



Figure 12: The left forearm injury that DG6 sustained during the fight with SK6.

This change in alpha status has, however, resulted in one case of infanticide this month. On 13 September, a dead infant was seen in the Slangkop Troop. Infanticide is the intentional killing of infants as a reproductive strategy, by adult males, moving into new baboon troops. This natural behaviour, increases the males' chance of fathering offspring and continues his bloodline. The loss of an infant brings the females back into oestrus and they are then able to conceive sooner.

Births and Deaths

There was one death in the south-west in September 2016. A juvenile was killed due to infanticide in the Slangkop Troop. No births were recorded in the south-west during this reporting period.

Recommendations

- **Removal of Invasive Alien Vegetation:** The patches of invasive alien vegetation situated above Ocean View and below the Compass Bakery Cliffs sleep site need to be removed. This issue has been addressed with SANParks and is pending action.
- **Fruiting Trees:** Fruit trees should be felled or all visible fruit should be harvested in baboon-affected areas.
- **In2Foods Compass:** Recycling area should be baboon-proofed and black bins should be tied up to prevent them from being tipped over.

Northern Region – Area Manager: Byron Loubser

1. Tokai Troop

The Tokai Troop continued to follow the same trend as last months' reporting period (HWS August Report 2016). The troop focused most its foraging efforts in the lower reaches of its home range. The troop foraged mainly on flowers, foliage, grass, roots, seeds and flowers. Recently felled pine trees also provided the troop with easy access to pine cones on the ground and invertebrate forage situated underneath the bark of pine stems. The troop only moved over the mountain to the Silvermine Dam on one occasion over this reporting period. The troop foraged around the dam for the duration of the day and roosted at the Silvermine Pines sleep site (Figure 13).

HWS continued with environmental education at the Chrysalis Academy, a youth development program, with all staff and new students. The education programs' main objective is to mitigate human/baboon conflict on the campus and has proven to be an ongoing success.

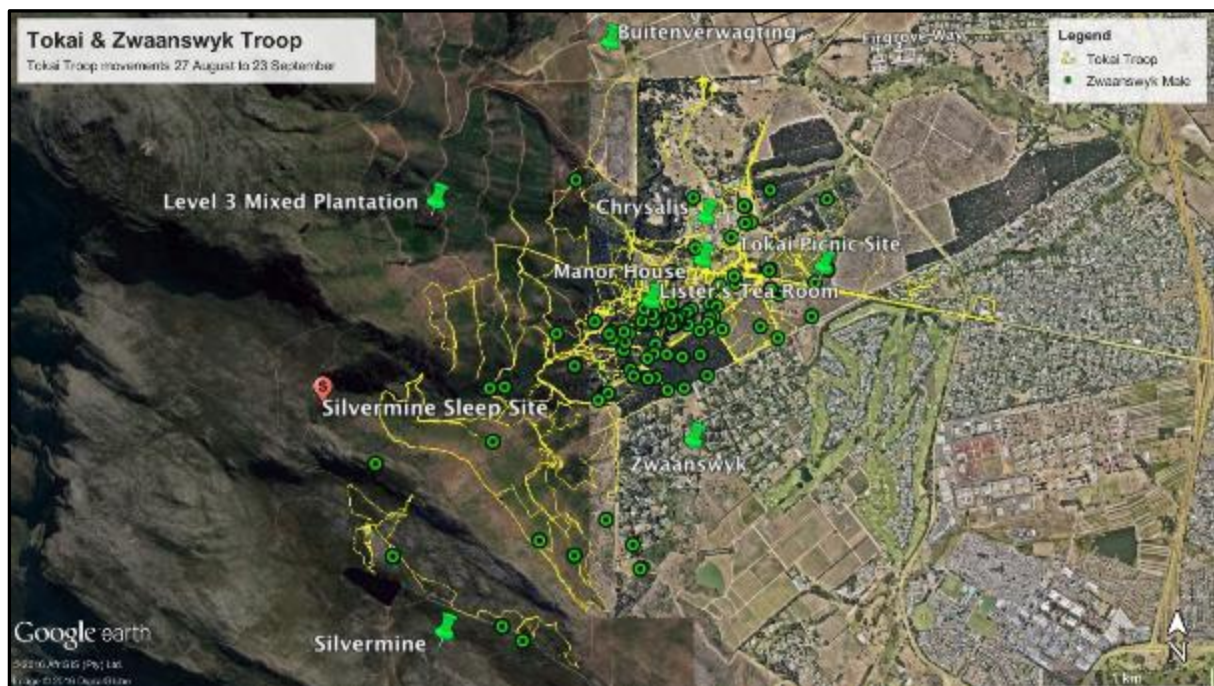


Figure 13: Tokai Troop movements in September 2016.

The majority of raiding incidents that took place in the urban area were by adult males. TK48, a dispersing male, recorded 15 raiding incidents. Most raids took place at Bloekom Laan, Porter Complex on Orphen Road and the Cape Academy. Baboon-proofing at both areas are lacking and require attention. Poor waste management provided TK48 with easy raiding opportunities. Three raiding incidents were recorded for TK47 and two for TK28 and TK45, respectively (Figure 14).

During this reporting period, TK48, displayed the initial signs of dispersal, a natural behaviour occurring in young adult males to prevent in-breeding. TK48 spent time on the urban fringe either foraging on natural vegetation or exploring the urban area near Orphen Road, Tokai. HWS rangers continued to push the animal back towards the troop to limit human/baboon conflict in the area. HWS will continue to monitor this behaviour closely.

HWS: TROOP MONTHLY REPORT																																
SECTOR		CLASSES OF BEHAVIOUR																														
NORTH		1	In urban area					4	Attacking pets					7	Threatening behaviour/attack/stealing food																	
BABOON TROOP:		TOKAI	2	Raid bins					5	Raid unoccupied house or vehicle					8	Breaking & Entering/Damaging property																
MONTH: AUG-SEPT		YEAR: 2016	3	Non malicious damage					6	Raid occupied house or vehicle					9	Nocturnal Raiding																
BABOON ID		Sex	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TOTAL	
TK28 (B-G)		M																		2											1	
TK 47 (White)		M																				6		6					2		3	
TK48 (RED)		M		1	1	1	1	1	5	1	1											1	5				2	2	2,2,2		15	
MT3 (Pu-B) alpha		M																														
TK 45 (Purp-W)		M																						5	6						2	
Uni Male		M									2				2,2,6																4	
Uni SA Male		M																														
Uni Female		F																														
Uni Juve																																
Tokai Troop																																
		%	TIME SPENT IN TOWN (Minutes)																									HRS				
Troop		0.0																													0.00	
Individuals		6.2		10	90	140	13	105	300	200	90				30					40		31		40				30	37	45	20.02	
Roost:		AM	6	1	1	1	1	1	1	7	7	1	1+6	1	1	1	1	1	7	1	6	1	1	1	1	11	1	1	5	1		
Roost:		PM	1	1	1	1	1	1	7	1	1	1	1	1	1	1	1	1	6	1	1	1	1	11	1	1	5	1	1			
Roost Sites			1	Tea Garden					2	Lev 1 Zwk Gums					3	Lev 2 stream					4	Lev 4 Pines					5	Upper Tea Garden				
			6	Manor House					7	Picnic site 1					8	Picnic site 2					9	Middle Plantation					10	Tokai bridge				
			11	Silvermine pines					12	Level 3 Mixed plant					13	Other					14						15					
ID Features of Baboons																																
General remarks			Bold & Italics - indicates raids that took place in non-urban areas.																													

Figure 14: Tokai Troop raid sheet for September 2016.

2. Zwaanswyk Troop

The Zwaanswyk Troop followed a similar foraging pattern to the Tokai Troop, utilising the lower reaches of its home range (Figure 13). In comparison, the Zwaanswyk Troop foraged at Silvermine on three occasions, near the tented camp and dam. The troop only roosted at the Silvermine Pines sleep site once. This could be attributed to the unstable weather patterns experienced during this time of year, forcing the animals to roost in the low-lying areas.

On 8 September, two young dispersing male baboons, were tagged blue-red and yellow-red, respectively (MT5 and MT6). Three young male baboons (MT5, MT6 & TK48) have been trying to join the Zwaanswyk Troop, a lot of fighting has taken place between MT2 and the above-mentioned baboons. None of the above-mentioned males have settled in the troop to date. This behaviour will be monitored closely.

MT2 undertook most raids this month. Seventeen incidents were recorded for the animal. MT2 raided three bins, two unoccupied houses and seven occupied houses (Figure 15). The majority of the urban

raids occurred in the Zwaanswyk urban area, due to various weak points along the fence between the lower horse gate and the lower reservoir, as well as within the Steenberg Estate.

HWS: TROOP MONTHLY REPORT																															
SECTOR		CLASSES OF BEHAVIOUR																													
NORTH		1	In urban area					4	Attacking pets					7	Threatening behaviour/attack/stealing food																
BABOON TROOP:	ZWAANSWYK	2	Raid bins					5	Raid unoccupied house or vehicle					8	Breaking & Entering/Damaging property																
MONTH: AUG-SEPT	YEAR: 2016	3	Non malicious damage					6	Raid occupied house or vehicle					9	Nocturnal Raiding																
BABOON ID	Sex	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	TOTAL	
MT2 (Y+collar)	M		5		2					5			2	1	1		6,6	2	6	6	1	6	6	1				1	6	17	
MT 5 (Blu-red)	M									1	1	1	1															1	6	4	
MT 6 (Yellow-Red)	M																			1	1		1	1	2,6			2		7	
TKF5 (Green)	F							6																						1	
TKF7 (Red) tag out	F																														
Uni adult female	F																														
Uni Adult female	F																														
Zwaanswyk Troop																															
	%	TIME SPENT IN TOWN (Minutes)																									HRS				
Troop	0.0																													0.00	
Males	4.9									15	15	35	40	15	20		45	120	20	65	149	55	80	30	60		140	35	15.65		
Roost:	AM	8	1	1	1	1	1	1	7	1	6	1	1	6	1	1	1	7	1	8	1	1	1	1	11	1	1	5	3		
Roost:	PM	1	1	1	1	1	1	7	1	6	1	1	6	1	1	1	1	1	1	1	1	1	1	11	1	1	5	3	5		
Roost Sites		1	Tea Garden					2	Level 1 ZWK gums					3	Level 2 stream					4	Lev 4 Pines					5	Upper tea Garden				
		6	Manor House					7	Picnic 1					8	Picnic 2					9	Middle Plantation					10	Tokai bridge				
		11	Silvermine Pines					12	Level 3 mixed plantation					13	Other					14						15					
ID Features of Baboons																															
General remarks		Bold & <i>Italics</i> - indicates raids that took place in non-urban areas.																													

Figure 15: Zwaanswyk Troop's raid sheet for September 2016.

3. Constantia Troop 1 (CT1)

The Constantia Troop 1 continued the same trend from last months' report (HWS August Report 2016) and utilised the northern part of its home range for the majority of this reporting period (Figure 16). The northern side provides the animals with an abundance of forage in the form of roots, bulbs, foliage, flowers and seeds. Unfortunately, this area is inundated with dense alien invasive vegetation and is situated close to the urban fringe. This provides the animals with easy access into the urban area because they can move through the vegetation undetected by the rangers.

The troop entered the urban space on four occasions over this reporting period. The troop did not raid but spent 320 minutes in town. During this month, individual animals were recorded in town on 59 occasions. However, only eight bin raids were recorded (Figure 17). This indicates that the baboons are attracted to the urban space because of easy access to fruit trees, vineyards, chicken runs, lush gardens and compost heaps without having to raid.

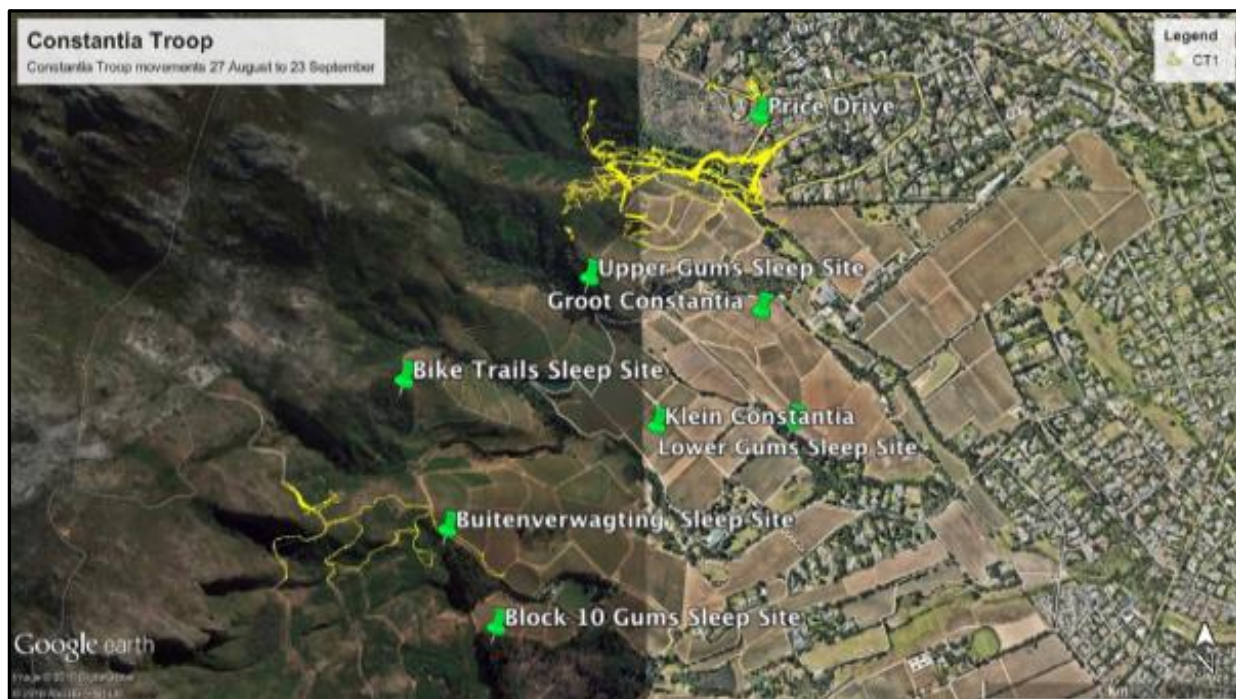


Figure 16: CT1 Troop movements in September 2016 (yellow lines in the urban area are indicative of HWS' staff's movements between areas).

Similar to last month, another baboon-dog altercation incident took place. CON1, an elderly adult male baboon was attacked by two Staffordshire Terriers in a Rustenberg Road garden. CON1 sustained an injury to the right lower lip. CON1 was assessed, monitored and has made a full recovery.

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BABOON TROOP:					2	Raid bins	5	Raid unoccupied house or vehicle	8	Breaking & Entering/Damaging property																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Figure 17: CT1 raid sheet for August 2016.

On 12 September, the troop returned to the southern part of its home range from Price Drive and Groot Constantia, towards the Klein Constantia and Buitenverwachting wine farms. No more raiding incidents or urban excursions were recorded for the remainder of this reporting period. The troop showed positive signs moving to the upper reaches of the mountain above the wine farms, foraging at Langboskloof and Donkerboskloof. On 23 September, the CT1 Troop and CT2 Troop, moved over the Constantiaberg Mountain. Both troops foraged on the Hoerikwaggo Trail overlooking Hout Bay. The troops only moved back into the Constantia Valley in the late afternoon. This new development will be monitored closely.

Constantia Troop 2 (CT2)

The CT2 Troop was rarely seen during the reporting period. The troop roosted mainly at the Buitenverwachting Gums sleep site. The troop was pushed out of the Klein Constantia and Buitenverwachting wine farms by the wine farms respective ranger teams. The Buitenverwachting rangers reported that the troop spent more time around Hussiesvlei this month, which resulted in an increased level of human/baboon conflict. Despite this, no raiding incidents were reported. The troop was observed foraging in close proximity to the CT1 Troop on the upper levels at Langboskloof and Donkerboskloof, respectively. No raiding incidents by this troop were recorded in September 2016.

5. Mountain Troop:

The Mountain Troop required considerably less management during September 2016, because the troop's movement towards Orphen Road, Tokai declined dramatically. The troop was observed foraging at the Quarry Gums and south of the Buitenverwachting wine farm on several occasions. The Buitenverwachting rangers reported that the troop foraged at the Kramat and between the vineyards, and they moved the troop into the natural vegetation in the national park. No raiding incidents by this troop were recorded in September 2016.

Births and Deaths

One new-born was reported in the Mountain Troop on 31 August 2016. One adult female was reported dead in the Mountain Troop on 31 August 2016. The cause of death is unknown.

Recommendations

- **Weak points** in the **Zwaanswyk fence** should be identified and rectified. This should limit individual baboons from gaining access to the Zwaanswyk urban area.
- The **fence** encompassing the **Tokai Picnic Site** should be upgraded and repaired. This should limit baboons from accessing the area to raid picnickers.

- **Baboon-proofing** of refuse bins and houses at Bloekom Laan, Porter Complex needs to be addressed and rectified. **Fruit trees** should be removed or the fruit should be removed from the trees. This should make the area less attractive to individual animals.
- The **invasive alien vegetation** between **Price Drive** and the **stream** should be cleared. This should allow HWS to manage the troop more effectively on the Price Drive line.
- The **residents** in the **Constantia Valley** should **baboon-proof** their houses and gardens to make the area less attractive to baboons.

C. GENERAL COMMENTS ON ALL BABOON TROOPS

Population Data

This month there were four births in the managed population, with three in the south and only one in the north. This was a shift in the trend from the previous two months where the northern subpopulation had a much higher birth rate than the south.

TROOP	Total December Populations				September 2016			Total Births 2016	Total Deaths 2016	Emigration/ Immigration 2016	TOTAL CURRENT POPULATION
	2012	2013	2014	2015	Births	Deaths	Emigration / Immigration				
Da Gama Troop	54	45	43	49	1	0	0	9	4	-1	53
Smitswinkel Bay	23	21	22	23	2	0	0	10	1	0	32
Waterfall	28	30	30	32	0	0	0	1	0	+2	35
Groot Olifantsbos	19	13	17	16	0	0	0	0	1	0	15
Misty Cliffs	18	16	14	11	0	0	0	1	5	0	7
Slangkop	33	32	36	41	0	1	0	0	1	0	40
SUB TOTAL	175	157	162	172	3	1	0	21	12	+1	182
Zwaanswyk	25	26	28	30	0	0	0	4	3	0	31
Tokai	61	65	72	62	0	0	0	8	4	+1	67
Mountain	33	44	48	49	1	1	0	5	3	-1	50
Constantia 1 & 2	60	63	70	77	0	0	0	14	7	-1	83
SUB TOTAL	179	198	218	218	1	1	0	31	17	-1	231
TOTAL	354	355	380	390	4	2	0	52	29	0	413

Table 1: Population data for the eleven managed troops on the Cape Peninsula (September 2016).

There were two deaths recorded this month. One death was as a result of infanticide by the male SK6, who had been challenging DG6 in the Slangkop Troop for alpha male status. The second death, in the Mountain Troop, was a case of unknown causes, because there were no visible injuries or wounds on the adult female's carcass.

Deaths	2012*	2013	2014	2015	Sept 2016	2016 to Date	TOTAL
Management	17	16	8	7	0	4	52
Human Induced (HID)	8	7	10	24	0	6	55
Direct **	8	6	6	8	0	3	31
Indirect ***	0	1	4	16	0	3	24
Natural	7	30	19	20	1	13	89
Unknown	1	3	0	4	1	6	14
TOTAL	33	56	37	55	2	29	210

Table 2: Causes of baboon deaths since 2012 (*Data collected during the first half of 2012 provided by Baboon Research Unit, UCT); **Deaths caused directly by humans such as motor vehicle accidents, shooting, poisoning and dogs. ***Deaths caused indirectly by humans such as electrocutions and human related fires.

Hotline Data

This month there were 204 raid related hotline calls. This was an increase of 82 calls more than last month. The highest number of calls came from the Tokai, Zwaanswyk and Simon's Town area. In these areas, it was a few specific individuals that were doing most of the raiding.

In Tokai and Zwaanswyk the high number of calls were in response to raids by a dispersing male entering the urban area. In addition, the alpha male of the Zwaanswyk Troop (MT2), seemed to be raiding specifically to gain extra energy to enable him to counter the challenges being made for alpha status by several challenging males.

In Simon's Town, the high number of calls can be attributed to the troop sleeping in the cliffs above the Waterfall Barracks or Happy Valley Shelter. They entered the urban area daily to get access to human derived foods, which is freely available due to poor waste management, lack of baboon proofing, and doors and windows being left open at the Barracks. Similarly, at the Happy Valley Shelter, they gain access to the bins which are not baboon-proof. There have also been incidents where the residents have been observed feeding the baboons. From these two areas individuals, especially the males, spread further into town.

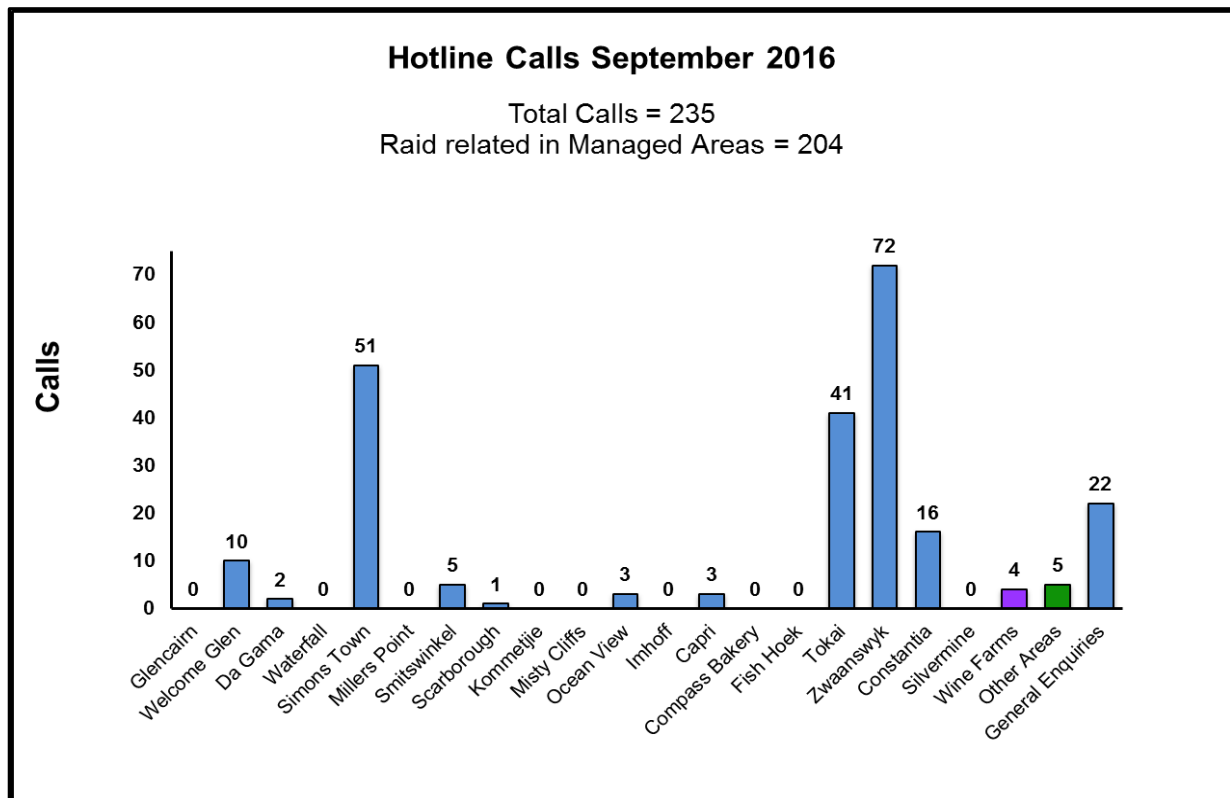


Figure 18: Hotline calls summary per urban area for September 2016.

Overall it remains pleasing to note though that 92% of the calls were simply reporting that the baboons were in town. The remainder of the calls were equally divided into bin raids and assertive raids.

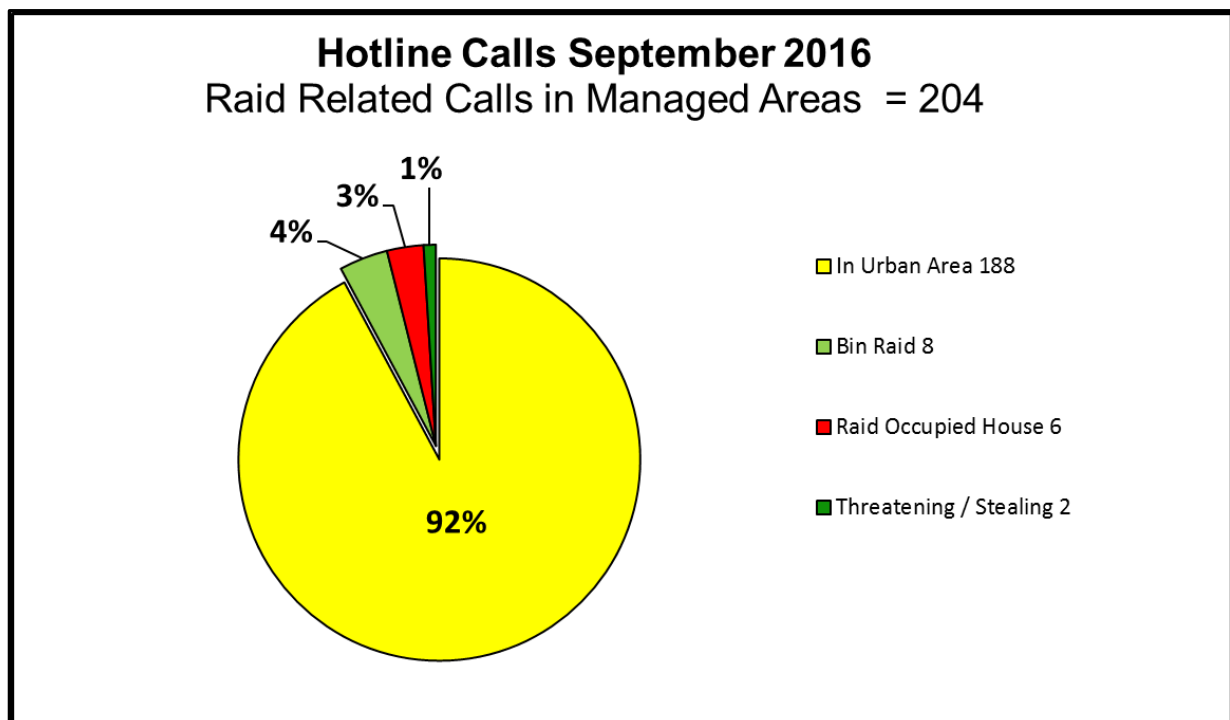


Figure 19: Composition of raid-related hotline calls during September 2016.

Percentage Time Out of Town

The percentage time the troops spent out of town remained the same as the previous month, at 99.3%, with most troops spending 100% of their time out of town. However, the problem still remains the raiding behaviour of individual animals, specifically in Da Gama, Waterfall, Zwaanswyk and Tokai. These individuals still spend a significant amount of time in town, with the individuals in Da Gama spending 15.4% of their time in town and in Waterfall the individuals spent 12.9% of their time in town. This can still be attributed to the vast amount of attractants available to the baboons within the urban area, specifically as a result of poor waste management and non-compliance with baboon proofing.

Unfortunately, in the absence of adequate baboon-proofing and proper waste management, the rewards for the individuals entering the urban area will always remain high and therefore it will always attract them back into the urban area.

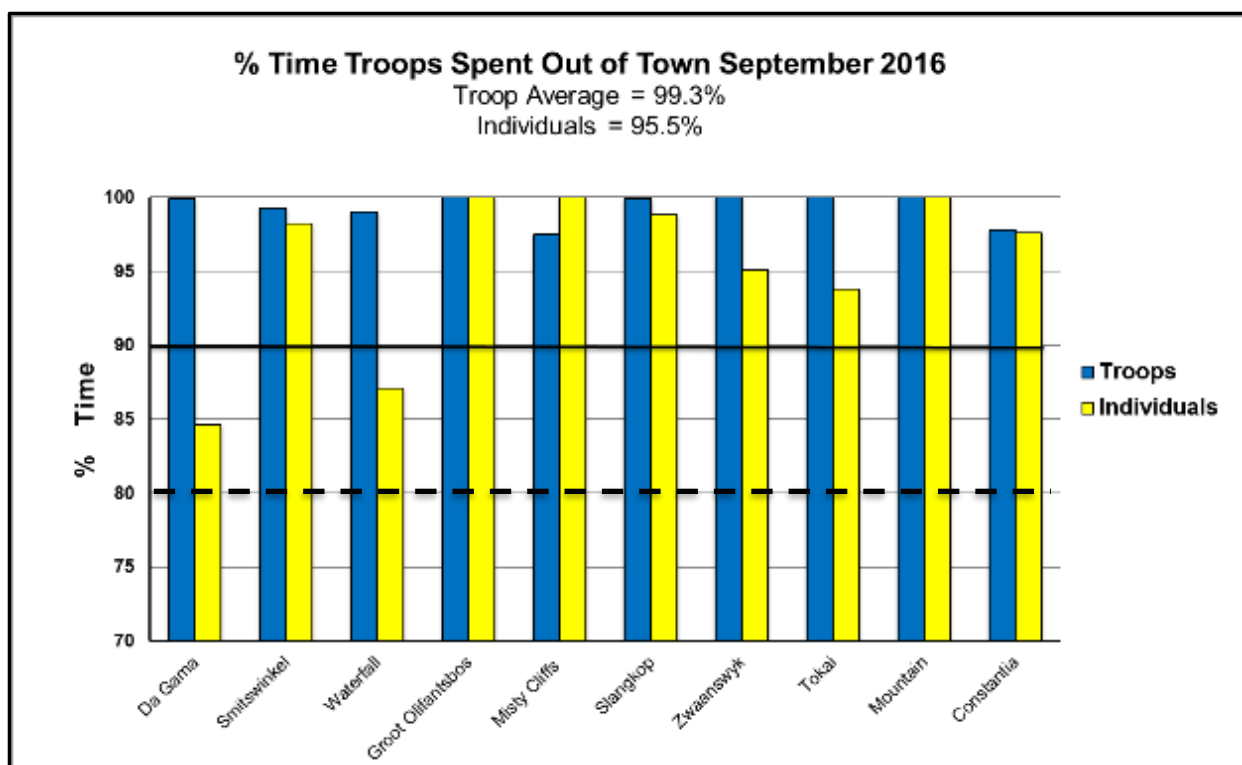


Figure 20: Percentage time troops spent out of town (September 2016). The solid line indicates the City of Cape Town's 2014 contract requirement and the broken line indicates the 2012 contract requirement.

Conclusion

Despite the high number of hotline calls this month and a few individuals spending considerable time in town, there have also been successes. The biggest success, has been the Misty Cliffs Troop re-entering the Cape of Good Hope section of the Table Mountain National Park.

This has been a long-term objective for this troop and it is a major step forward in its rehabilitation. The Misty Cliffs Troop has also been seen interacting with the GOB Troop, which is a major breakthrough.

The amalgamation of the two troops will be the realisation of a goal set over two years ago.

The management of the Northern Troops was problematic mainly because of numerous raiding individuals and the troops still mostly foraging lower down the mountain. However, there have been positive signs from both the Tokai and the Zwaanswyk Troops going up to Silvermine Dam to forage. As the summer progresses these troops will hopefully spend more time foraging higher up the mountain and allow forage lower down to recover. The same trend should become evident in the Constantia Troops as well.

Dr Phil Richardson

Human Wildlife Solutions