



Photo: Cath Shutte

Human Wildlife Solutions

Monthly Report

September 2017

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A. INTRODUCTION

This monthly report covers the period from 26 August to 22 September 2017. September marks the start of spring and along with it, a flush of fresh new vegetation growth in the upper reaches of the troops' home ranges. The fresh foraging has resulted in a 45% decrease in raid-related hotline calls over the past month.

The baboons continued to increase their home range use, as they took advantage of the increase in new growth on the higher elevations. The Tokai Troop moved and foraged on the upper levels on numerous occasions and roosted at the Silvermine Sleep Site on one occasion. The Da Gama Park Troop continued to utilise its full range and roosted in the mountain for two nights. The Slangkop Troop also increased its range usage and spent several days foraging at Kleinplaas Dam.

However, management was challenged this month by the initial stages of a splinter troop forming in the Da Gama Troop. This small group is being led by an adult male who has moved away from the troop, taking three adult females along with him.

B. BABOON MANAGEMENT AND RAID REPORTING

South Eastern Region – Area Manager: Ziggy Rode

1. Smitswinkel Bay Troop

Time out of town continued to improve for the Smitswinkel Troop, from 98.7% in July 2017 to 99.7% in August 2017 to 100% in September 2017. Time out of town for individuals also continued to increase this month from 88.1% in July 2017 to 97.6% in August 2017 to 100% in September 2017. This is the first time, since November 2015, that both the troop and individual baboons from the Smits Troop were out of town for the entire month.

The Smitswinkel Troop concentrated their movement and forage bouts to the southern section of its home range this month. The troop utilised the southern sleep sites for 71% of the month and only utilised the northern sleep sites for 25% of the month. This movement resulted in lower levels of human/baboon conflict in comparison to previous months.

On 9 September, the troop was foraging on the mountainside above the Black Marlin Restaurant. SWBF1 attempted to break the line and move to the Black Marlin Restaurant. However, HWS rangers successfully managed to block SWBF1's attempts and SWBF1 re-joined the troop.

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: 2017		3	Non malicious damage				6	Raid occupied house or vehicle						9	Nocturnal Raiding																									
BABOON ID		Sex	26	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	TOTAL											
SWB6 (R-B)		M																																								
Troop		M																																								
UnID Individuals																																										
UnID Fem		F																																								
SWBF1		F																																								
SWB10		M																																								
UnID Male		M																																								
UnID Juveniles																																										
		%	TIME SPENT IN TOWN (Minutes)																						HRS																	
Troop		0.0																													0.00											
Individuals		0.0																													0.00											
Roost:		AM	2	7	1	1	10	6	6	5	2	1	1	2	3	5	4	1	1	1	1	5	1	5	1	1	7	1	7	1												
Roost:		PM	7	1	1	10	6	6	5	2	1	1	2	3	5	4	1	1	1	1	5	1	5	1	1	7	1	7	1	1												
Roost Sites			1				Smits Caves				2				Partridge Point				3				Bluegums				4				Millers Point				5				Rocklands Farm			
			6				Castle Rock				7				SANParks				8				Unknown				9								10							
ID Features of Baboons																																										
General remarks																																										

Figure 1: Smitswinkel Bay Troop raid sheet for September 2017.

The troop dynamics were settled this month. Both SWB6 and SWB10 showed no signs of aggression towards each other. It seems that SWB6 is now the alpha male of the troop and SWB10 has assumed the role of the beta-male within the troop.

2. Waterfall Troop

The management of the Waterfall Troop was extremely challenging this month. The troop did not move as a cohesive unit and therefore had the propensity to split into smaller raiding parties that entered the urban space. Poor waste management, easy access to open flats at the Waterfall barracks and fruiting trees continued to attract the baboons to the urban area.

Two adult males, TK19 and CON4, initiated most of the movements into the urban area, with the remainder of the troop following these males into the urban area. The time in town for the troop is 2.6%, which is a slight increase from last month's 1.9%. However, time in town for individuals decreased this month from 13.3% in August 2017 to 10.9% in September 2017.

There was an increase in assertive raids this month. This is mainly due to easy access to the open flats at the Waterfall barracks. On 28 August, TK19 raided a small café on the Main Road 'What's your Flava'.

This shop continued to attract baboons because the door remained open daily. Fruit trees at the back of the shop are an added attractant to the baboons. The non-baboon-proofed bins on Simon's Town Main Road and at the naval dockyard continued to be a major attractant to the baboons. These bins were raided on a regular basis throughout the month.

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: 2017		3	Non malicious damage				6	Raid occupied house or vehicle				9	Nocturnal Raiding																	
BABOON ID		Sex	26	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	TOTAL	
Troop			1		1	1,2	1	1,2							1			1				1				1	1		1		13	
CON4 (B)		M	2			1,2			2		5	5			1					1,2		1	1				2				12	
TK19		M			1,2,6				2		2	1		2	1			2	2			1		1,2,7							14	
WFF3		F																			1,2,2,2	1,2									6	
WFF4		F																													0	
WFF5 (Y)		F							2,5			5																			3	
UnID Females		F			1,2	1,2																				2,5					6	
UnID Juveniles					1										1				2		1,2	1,1		1,2,1		2,5	2	5			14	
UnID Males		M													1				2	5	1		1			2,5	2	5			9	
UnID Individuals			5,6				2	2,5		5,6	5		2,5					1		5,4	1		1			2,6	2,5				19	
WF5			2,6																										2		3	
	%	TIME SPENT IN TOWN (Minutes)																								HRS						
Troop	2.6	60		20	120	30	90			45				60			20									15	35		15		8.50	
Individuals	10.9	135		85	30	30	90	120		195	75		20	300			25	20	90	30	110	360	120		165	60	30	20		35.17		
Roost:	AM	6	6	19	2	2	2	6	6	6	14	1	2	1	2	2	6	14	2	2	1	6	1	1	1	6	6	6	2	2	2	
Roost:	PM	6	14	2	2	6	6	6	14	1	2	6	2	2	6	19	2	2	1	6	1	1	1	1	6	6	2	2	2	2		
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		Murdock Valley Cliffs				19						20						
ID Features of Baboons																																
General remarks		Red and <i>Italics</i> indicates raiding inside the South African Naval Ammunition Depot (SANAD). Black, <i>Italics</i> indicates raiding on farms.																														

Figure 2: The Waterfall Troop raid sheet for September 2017.

On 16 September, while moving above Palace Hill Road, TK19 and various females took food from vagrants. TK19 shows no fear of people and it is a concern that this behaviour will be taught to other individuals that move with him.

There is new growth on the plateau above Simon's Town. While in this area, the troop would spend its time foraging on a variety of indigenous growth. However, TK19 would occasionally attempt to break the line and move towards Bayview Heights. TK19's movement towards Bayview Heights would encourage the rest of the troop to follow. The bins at the Naval Signal School is not baboon-proofed and were also raided on a few occasions this month.



Figure 3: The Waterfall Troop on the plateau above Simon's Town.

On 30 August, a new infant was recorded in the Waterfall Troop.

3. Da Gama Troop:

Time spent out of town for the Da Gama Troop remained similar to the previous two months. The troop spent 99.7% of their time out of town. Time out of town for individual baboons showed a substantial improvement this month, from 87.8% in August 2017 to 93.1% in September 2017. This improvement could be attributed to the recent rain spells, which has led to new growth and an increase of forage on the upper reaches of the troops' home range. The troop foraged on fresh plant growth, flowers, shoots and bulbs.



Figure 4: Individuals from the Da Gama Troop foraging on *Leucadendron* spp.

The Da Gama Troop continued to move extensively throughout their home range this month, which led them to utilise mountain sleep sites on two occasions.

DG17, accompanied by three to six females, continued to move and sleep separately from the troop this month. DG17 only slept with the troop when it slept on the mountain at the Grootkop or Winford Farm Sleep Sites. This small group continued to push hard in the morning for the urban area. They often remained behind after the troop moved up the mountain. This behaviour led to other individuals breaking the line to move back into the urban area. The ranger team would then need to split to manage the individual sub-groups.

On 26 August, the rangers observed DG17 being mobbed by the troop. DG17 followed the troop from a distance after this occurred. This could explain why DG17 preferred to sleep separately with some females and adds to the risk that a splinter troop is developing. DG17 spent the most time in town during the first half of September. However, DG17 spent less time in town for the second half of September. This could be because one of the females that accompany DG17 gave birth.

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:		2	Raid bins				5	Raid unoccupied house or vehicle				8	Breaking & Entering/Damaging property																			
MONTH: SEPTEMBER		3	Non malicious damage				6	Raid occupied house or vehicle				9	Nocturnal Raiding																			
BABOON ID	Sex	26	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	TOTAL		
Troop		2						1														1								3		
DG14 (O-G)	M	2						1							1							1						1		5		
DG15 (R)	M	2						1																						2		
DG17	M				1	1		1			1	1	1	1	1			1		2						5		1		12		
DG18	M	2						1													1					1				4		
TK43 (W-W)	M																	1		2										3		
DGF1	F																													0		
DGF2	F																													0		
DGF4	F																													0		
UnID Females	F	2	2			1		5						1	1			1		2		1	1			1				11		
UnID Female	F				1						1	1			1															4		
UnID Individuals																														0		
UnID Juvs																														0		
	%	TIME SPENT IN TOWN (Minutes)																										HRS				
Troop	0.3	20						20														10								0.83		
Individuals	6.9	55	26		43	29		254			66	85	20	25	194			101		78	10	89			144			107		22.10		
Roost:	AM	1	2	3	2	2	1,2	1,2	1,2	3	1,3	1,2	1,2	1,2	1,2	1,2	19	1,2	1,2	1,2	1,2	1,2	3	3	1	20	1,2	1,2	1,2	1,2		
Roost:	PM	2	3	2	2	2	1,2	2	3	1,3	2	1,2	3	1,2	2	19	1,2	1,2	2	1,2	3	3	2	20	1,2	1,2	1,2	1,2	3			
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 5: The Da Gama Troop raid sheet for September 2017.

On 20 September, an unidentified adult male was spotted high on the mountain above Jacks Shop, observing the Da Gama Troop. It was suspected that this male could be a dispersing male from the Slangkop Troop. However, this male was not seen again for the remainder of the month.

Births and Deaths

A new born was recorded in the Da Gama Troop on 14 September and one new-born was recorded in the Waterfall Troop on 30 August 2017.

One mortality was reported in the Da Gama Troop on 16 September. A female was seen carrying a dead juvenile. However, the cause of death is unknown.

Recommendations

- For more effective baboon management, residents at the Da Gama Park Naval Flats 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.
- **Baboon-proof bins are needed** at the West Yard at the Navy docks. The **cafeteria at the Naval West Yard** also needs to be baboon-proofed.
- **Broken garages** at the Naval flats in Da Gama Park should be fixed, to prevent baboons from climbing in through the openings to gain access to the bins.
- All **vegetable gardens should be baboon-proofed** and residents should refrain from growing fruit trees in baboon affected areas. Otherwise, all fruit should be removed from trees.
- Residents at the Waterfall Barracks and Happy Valley Shelter should **keep their doors and windows closed** when they are not there to prevent raids.
- **Law enforcement is urgently needed** in Welcome Glen and Da Gama Park to prevent the illegal use paintball markers and pellet guns by residents, who use these to deter baboons.
- Baboon management of the Smitswinkel Troop will be greatly improved if strategies such as **baboon-proofing, streamlined waste management, erection of signage and availability of flyers** to alert to patrons to the presence of baboons, is implemented at the Black Marlin Restaurant.
- **Poor waste management at the South African Naval Ammunition Depot (SANAD) and the Waterfall Barracks** urgently needs to be addressed, so that baboons cannot gain access to food so easily.
- A security gate at the entrance of the **'What's Your Flava' café** in Simon's Town could prevent baboons from gaining access to raid the shop.

South Western Region – Area Manager: Cath Shutte**1. Groot Olifantsbos Troop (GOB)**

The Groot Olifantsbos (GOB) Troop spent September, moving in and out of the Cape of Good Hope (CoGH) section of the Table Mountain National Park (TMNP). The troop slept outside the CoGH for 54% of the month and roosted within the CoGH for 46% of the month. While outside the CoGH, the troop slept in the pines at Wildschutsbrand or behind the Shamballah Holistic Centre.

The GOB Troop continued to increase its usage of the CoGH this month. The troop spent 46% of the month deep within the southern sections of its home range, often not returning for several days at a time. While outside of the CoGH, the troop foraged moved through Perdekloof, Wildschutsbrand and Shamballah Tea House and Holistic Centre (Shamballah).



Figure 6: The GOB adult female and her infant being groomed under the pines.

On 28 August, an adult female was seen carrying a new infant. The troop spent the first part of the day under the Wildschutsbrand pines, grooming, socialising and interacting with the mother and the new infant, before moving south into the CoGH.

The three GOB females, referred to as the GOB individuals, roosted at the Misty Cliffs sleep site for 89% of the month and at the Bonteberg Sleep Site for 11% of the month. While outside of the CoGH, the females foraged and moved above and between Misty Cliffs and Scarborough. Whilst on Baskloof, the females foraged on fresh new spring shoots and flowers. The females drank water from various small streams on Baskloof and from the stream alongside Misty Cliffs.

On 9 September, at around lunchtime, the females moved off the cliffs, across the stream and into the caves above Misty Cliffs. The females then spent the afternoon in the caves, before moving onto the cliffs between Scarborough and Misty Cliffs for the night. It was then seen, that the remaining female had given birth and now all three females are carrying infants.

On 12 September, the three females moved off the cliffs and onto Baskloof. They continued towards Kleinplaas Dam, where they foraged, groomed and strengthened social bonds. At around 15h00, the females moved in a southerly direction towards the CoGH. They climbed the fence at around 16h30 and spent the following three nights at Bonteberg. However, on 15 September, the females managed to exit the CoGH, they moved through Scarborough and returned to the cliffs about Misty Cliffs.

No raiding incidents were recorded for the GOB Troop during September 2017. However, the three individual females continued to enter the urban area. Once in town, the three females continued to split as they moved through the village. Collectively these females committed 22 raids this month, only one of which was assertive.

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:	GOB	2	Raid bins				5	Raid unoccupied house or vehicle				8	Breaking & Entering/Damaging property																			
MONTH: SEPTEMBER	YEAR: 2017	3	Non malicious damage				6	Raid occupied house or vehicle				9	Nocturnal Raiding																			
BABOON ID	Sex	26	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	TOTAL		
KOB2	M																													0		
Unld Males	F																													0		
MCF7	F																													0		
Unld Females	F	5	1		1		1	1	2	1		1	1	1	1	1						1	1	1	2,2,2	1		1	1	22		
Juveniles																														0		
Troop																														0		
		%	TIME SPENT IN TOWN (Minutes)																									HRS				
Troop	0.0																													0.00		
Individuals	22.7	285	443		153		131	148	335	55		79	232	264	166	150	228							316	180	291	339	296		137	166	73.23
Roost:	AM	4.1	5.1	5.1	5.1	2.1	2.1	2.1	2.1	5.1	5.1	5.1	5.1	5.1	5.1	2.1	5.1	4.1	2	2	2	2.1	2.1	5.1	4.1	2.1	5.1	2.1				
Roost:	PM	5.1	5.1	5.1	2.1	2.1	2.1	2.1	5.1	5.1	5.1	5.1	5.1	5.1	2.1	5.1	4.1	2	2	2	2.1	2.1	5.1	4.1	2.1	5.1	2.1	2.1				
Roost Sites				1	Misty Cliffs				2	CoGH Reserve				3	Red Hill				4	Shamballah				5	Wildschutsbrand							
				6	Perdekloof				7	CoGH Nursery				8	Misty Cliffs 2				9	Other												
ID Features of Baboons																																
General remarks				Black, bold and <i>italics</i> text indicates raids at SanParks.																												

Figure 7: GOB Troop raid sheet for September 2017.

2. Slangkop

The Slangkop Troop utilised the Compass Bakery Cliffs Sleep Site for the majority of September 2017. The troop roosted at the Ocean View Pines Sleep Site for 57% of the month and at the Compass Cliffs Sleep Site for 43% of the month. The troop concentrated its forage efforts to the plateau above the Rasta Camp, the valley alongside Ocean View and the Rooikrans plateau (above the Compass Cliffs Sleep Site).

The troop continued to utilise the upper reaches of its home range this month. There has been a flush of fresh spring growth in the higher elevations and the baboons have taken advantage of this. While on the higher elevations, the troop drank from various streams on the Rooikrans Plateau, from Kleinplaas Dam, which it visited on five occasions this month, and the perennial pool above the Rasta Camp.

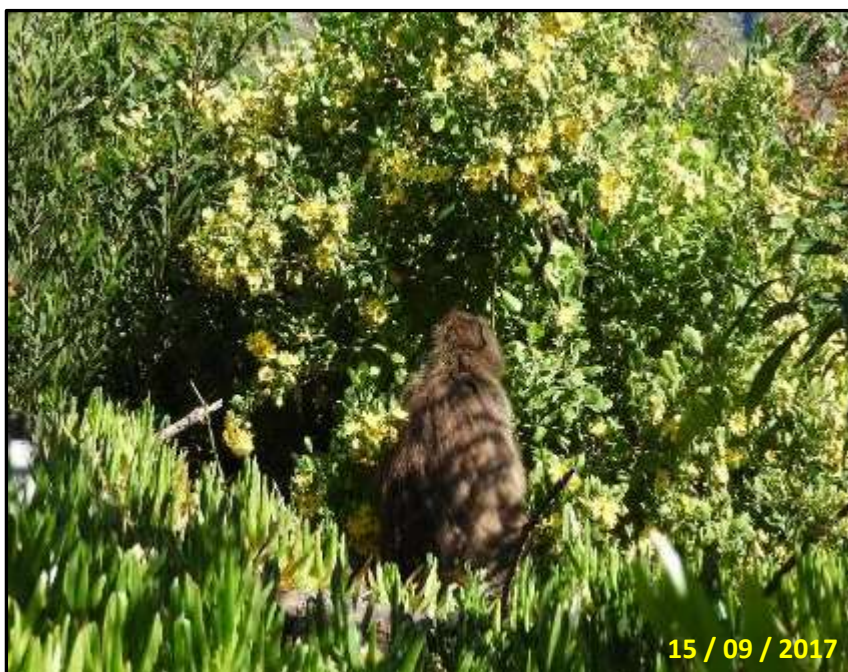


Figure 8: A Slangkop female foraged on *Osteospermum moniliferum*.

There was an increased level of conflict within the Slangkop Troop this month. SK7, a sub-adult male, began to move, away from the troop, into the urban area more frequently this month. SK8, a younger sub-adult male and two unidentified females would often join him. Together, these individuals were responsible for 91% of the monthly raids.

Poor waste management at Heron Park continued to facilitate movement, by individual baboons, into the urban area this month. Waste management at In2Foods Compass has deteriorated and the bins at the factory were raided on seven occasions this month. On one occasion SK7, gained access to the factory and stole tin foil cups and flour. A mobile food vendor, who sells a variety of food items to In2Foods staff, now operates within the factory premises. This acts as a further attractant to the area.



Figure 9: The mobile food vendor that sells food to In2Foods employees.

Time out of town for individual baboons decreased this month from 98.1% in August to 96.5% in September. However, the Slangkop Troop's time out of town increased this month from 99.8% in August to 100% for September.

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: 2017	3	Non malicious damage	6	Raid occupied house or vehicle	9	Nocturnal Raiding																							
BABOON ID	Sex	26	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	TOTAL
SK6 (Adult Male)	M						1			1																				2
SK7 (Adult Male)	M				2,2,2,2		1		1					2.7	2		2					1		1		2	1		2	14
SK8 (Sub-Adult Male)	M				2,2,2,2		1		2			2		2	2		2	1		1		1		6.7		2	2		2	18
UnID Males	M						1																							1
UnID Females	F						1		1	2		2					2	1				1		1			1	2		10
UnID Juveniles																														0
UnID Individuals																										2				1
Troop																														0
	%	TIME SPENT IN TOWN (Minutes)																										HRS		
Troop	0.0																													0.00
Individuals	3.5				39		38		85	53		22		22	12		72	80		13		70		38		58	50		26	11.30
Roost:	AM	2	3	2	2	2	3	3	3	3	2	3	3	2	2	2	2	2	2	2	2	3	2	2	3	2	3	3		
Roost:	PM	3	2	2	2	3	3	3	3	2	3	3	2	2	2	2	2	2	2	2	2	3	2	2	3	2	3	3		
Roost Sites		1	Slangkop				2	Ocean View				3	Compass Bakery				4	Witsand				5	Other							
ID Features of Baboons																														
General remarks		Red, bold and italics text indicates raids at Rogers Farm and the City waste disposal site.																												

Figure 10: The Slangkop Troop's raid sheet for September 2017.

On 19 and 21 September, while on the Rooikrans plateau (above the Compass Cliffs Sleep Site), SK7 moved off on his own towards the Da Gama Troop that was foraging nearby. SK7 was chased away by the Da Gama males before returning to the Slangkop Troop. This could, potentially be the initial stages of dispersal behaviour in SK7. SK7's movements will be monitored closely over the following weeks.

Births and Deaths

Two births were recorded in the GOB Troop this month, on 28 August and 9 September respectively. No deaths were recorded in the South West during September 2017.

Recommendations

- Management of the Slangkop Troop will improve if the patches of **invasive alien plants** situated above Ocean View and below the Compass Bakery Sleep Site are removed. This issue has been addressed with South African National Parks (SANParks) and is pending.
- All **fruiting trees** or **visible fruit** should be harvested from fruit trees in baboon-affected areas so that this is not an attractant for baboons.
- Increased baboon-proofing of the recycling area at **In2Foods Compass**, including tying up the black bins to prevent them from being tipped over, will assist in baboon management.
- **Baboon-proof bins** should be used by commercial businesses in Heron Park to prevent raiding.

Northern Region – Area Manager: Byron Loubser

1. Chrysalis Academy

The Chrysalis Academy is situated at the Porter Estate in the suburb of Tokai. The Chrysalis Academy falls within the home range of three northern baboon troops. The Tokai Troop, the Zwaanswyk Troop and the Mountain Troop have all been recorded at the Chrysalis Academy. The Chrysalis Academy offers three-month youth development programs throughout the year.

HWS conduct environmental education sessions, with all the instructors and students based on living in harmony with baboons. The main objective of the environmental education sessions is to mitigate raiding incidents and promote good waste management at the Chrysalis Academy.



Figure 11: The September intake at Chrysalis Academy anticipating HWS' educational session.

2. Tokai Troop

The Tokai Troop favoured the Tea Garden Sleep Site for most of September 2017. The Tea Garden Sleep Site consists of tall bluegum trees, that provide the troop with protection from climatic elements and predation.

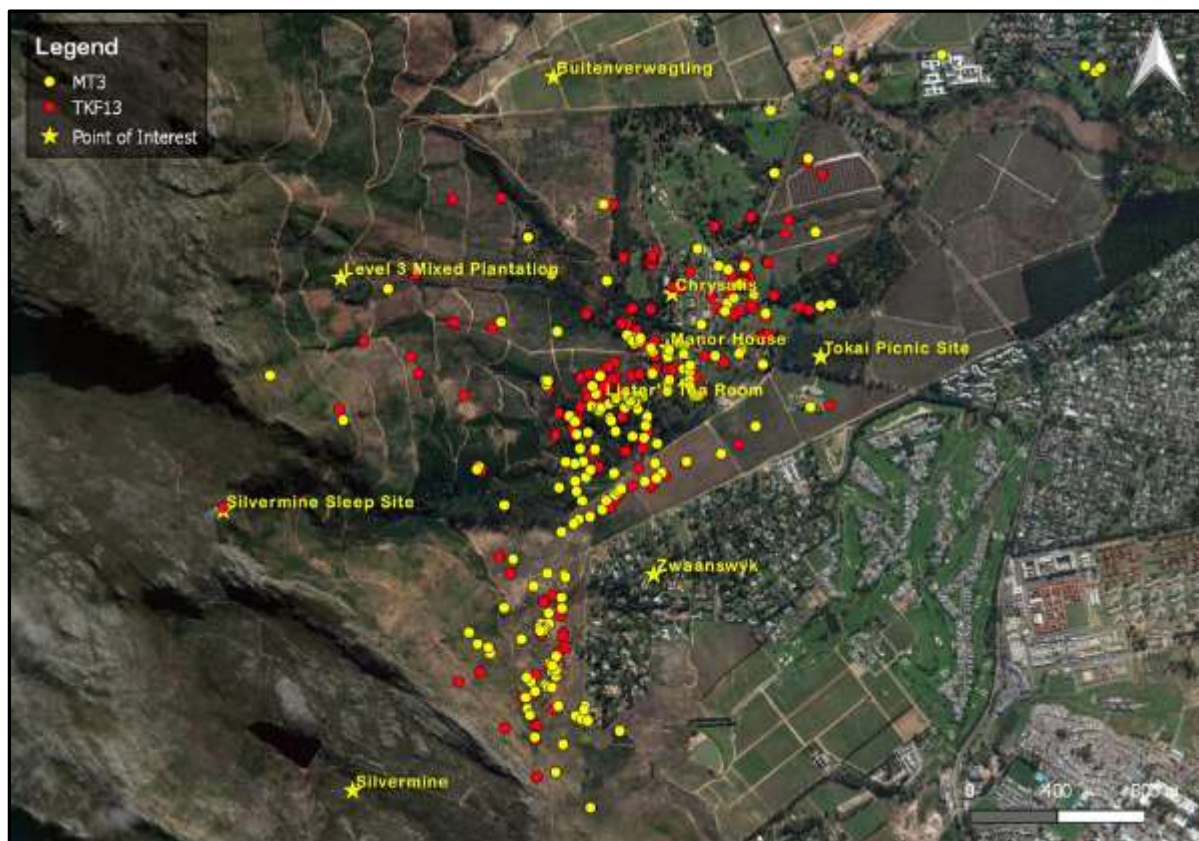


Figure 12: Tokai Troop movements in September 2017. Data from HWS GPS Collars on TKF13 and MT3.

The baboons were inclined to move to the upper reaches of the Tokai Plantation because of an increase in ambient temperatures, day-length and nutritious spring shoots. The troop roosted in sub-groups for only two nights this month. On both occasions the sub-groups were approximately 140m apart, and re-joined the rest of the troop the following morning. This shows that the troop is still stable and moving as a cohesive unit in comparison to previous months.

The troop spent more time foraging on the mid-lying and high-lying areas in the Tokai Plantation, thus less time was spent at Porter Estate and the Tokai Picnic Site. This helped to alleviate the high-levels of baboon/human conflict that was recently experienced in these areas. The troop continued to spend more time further away from the urban space and foraged in the Tokai Plantation, and at Silvermine. The baboons foraged on grasses, roots, bulbs, flowers, foliage and fynbos. The baboons were observed foraging on fynbos plants such as restio and geranium inflorescences, and watsonia bulbs.



Figure 13: A juvenile baboon from the Tokai Troop foraging on restio inflorescences.

SANParks continued to remove the invasive alien vegetation and fire damaged trees in the Tokai Plantation. The removal of the vegetation continued to promote troop movement to high-lying areas.

The Tokai Troop did not enter the urban space and no urban raids were recorded during September. However, individual baboons raided mainly at Cape Academy, Silvermine Dam and Tokai Picnic Site. Most of the raids undertaken during September, can be ascribed to MT3 and an untagged adult male baboon, that moved away from the troop to raid.

HWS: TROOP MONTHLY REPORT																																		
SECTOR				CLASSES OF BEHAVIOUR																														
				SOUTH EAST																														
BABOON TROOP:				TOKAI				1		In urban area				4		Attacking pets				7		Threatening behaviour/attack/stealing food												
MONTH: SEPTEMBER				YEAR: 2017				2		Raid bins				5		Raid unoccupied house or vehicle				8		Breaking & Entering/Damaging property												
								3		Non malicious damage				6		Raid occupied house or vehicle				9		Nocturnal Raiding												
BABOON ID				Sex	26	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	TOTAL	
MT3 (Purple-B) GPS Collar				M				1				2, 2, 6		2, 9						1								2, 2					9	
TKF12 (Blue) GPS Collar				F																														
TKF13 GPS Collar				F																														
Un ID Male				M	2	7, 7, 7						7	7																	7, 7			8	
Un ID Male				M																														
Un ID SA Male				M									7, 7, 7															2					4	
Un ID SA Male				M																														
Un ID Female				F										1														2					2	
Un ID Female				F																														
Un ID Female				F																														
Un ID Junvenile																																		
Tokai Troop																																		
				%	TIME SPENT IN TOWN (Minutes)																											HRS		
Troop				0.0																													0.00	
Individuals				1.3				60				120		45						10								20					4.25	
Roost:				AM	1	1	1	1	1	1	1, 6	1	1	1, 6	1	1	17	7	7	1	1	1	14	1	10	1	5	16	1	14	2	11	5	
Roost:				PM	1	1	1	1	1	1, 6	1	1	1, 6	1	1	17	7	7	1	1	1	14	1	10	1	5	16	1	14	2	11	5	5	
Roost Sites				1	Tea Garden				2	Level 1 Zwk Gums				3	Level 2 Stream				4	Level 4 Pines				5	Upper Tea									
				6	Manor House Pines				7	Picnic Site 1				8	Picnic Site 2				9	Middle Plantation				10	Tokai Brid									
				11	Silvermine Pines				12	Level 3 Mixed Plantation				13	Other				14	Picnic Site 3				15	Level 5 Lod									
				16	Guest House Pines				17	Chrysalis Gums				18	Mike's Stables Pines				19					20										
				21					22					23					24					25										
ID Features of Baboons																																		
General remarks				Bold & Italics indicate non-urban raids.																														

Figure 14: Tokai Troop raid sheet for September 2017.

On 27 August, a new-born infant was recorded in the Tokai Troop.

3. Zwaanswyk Troop

The Zwaanswyk Troop favoured the Tea Garden Sleep Site for most of September 2017. The troop slept in sub-groups on five occasions this month. Three adult males were present in the troop, which could have resulted in the splintering behaviour. No further splintering behaviour was recorded after 10 September 2017.

Like the Tokai Troop, the Zwaanswyk Troop focused most of its foraging efforts on the mid-lying and high-lying areas in the Tokai Plantation. In comparison to the Tokai Troop, the Zwaanswyk Troop did not move to Silvermine. Despite this, the troop was still observed high on the mountain slopes above the Level 5 management track. Like the Tokai Troop, the Zwaanswyk Troop foraged on fynbos, riparian vegetation, grasses, roots, bulbs, foliage and flowers.



Figure 15: The Zwaanswyk Clearing has been extensively foraged by the Zwaanswyk Troop, following the removal of invasive alien vegetation.

MT5, a young adult male baboon, started to display dispersal behaviour again during September. On 1 September and 2 September, MT5 left the troop and entered the Constantia Hills urban space. On both occasions the baboon rangers successfully pushed MT5 out of the urban space, and back across Orpen Road towards the troop. On 3 September, MT5 moved through Constantia Hills, and finally settled above Tasha's Café at the Constantia Village Mall. The baboon rangers managed to push MT5 to Nova Constantia, closer to the natural area.

On 4 September, MT5 remained in the urban space, near Nova Constantia. MT5 remained at Huis-in-die-Bos for the following two days, and was finally cage captured on 6 September. MT5 was then transported to the Westlake Holding Facility, pending a management decision to be made in terms of the dispersal and/or raiding protocol.

MT5 spent a lot of time in the urban space and became a proficient raider. Due to this raiding behaviour, MT5 could not be considered for relocation/translocation. On 20 September, MT5 was euthanised with WAAC approval in terms of the raiding protocol.

MT8, natal to the Mountain Troop, dispersed to the Zwaanswyk Troop last month. MT8 appears to be the most dominant male in the troop. MT8 has associated with high ranking female members, which indicates that MT8 is the new alpha male. This is a positive outcome for the genetic diversity of the troop, and this occurrence should limit natal males from mating with closely related females.

On 18 September, a pregnant adult female displayed signs of impaired vision, listlessness and discomfort. The baboon was captured and transported to the Westlake Holding Facility. The baboons' condition in terms of its eyesight, mobility and feeding behaviour improved gradually from day to day. On 20 September, the baboon gave birth to a stillborn male infant. The adult baboon recovered at the holding facility and was released back to the troop on 22 September, and has since made a full recovery.

The Zwaanswyk Troop entered the urban space on one occasion. This incident took place on 15 September. The troop entered Zwaanswyk at the bottom of the fence close to the security hut. Zwaanswyk residents reported the troops' presence to the baboon helpline. This action allowed HWS to react quickly. The troop spent 60 minutes in the urban space and did not raid.

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:		2	Raid bins										5	Raid unoccupied house or vehicle										8	Breaking & Entering/Damaging property																					
MONTH: SEPTEMBER		3	Non malicious damage										6	Raid occupied house or vehicle										9	Nocturnal Raiding																					
BABOON ID	Sex	26	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	TOTAL																
MT5 (Blue-R) VHF Collar	M		2, 2, 2			1	1	2, 6, 6	2, 2, 2, 2, 6	2, 2, 2, 2, 6	1																		19																	
TK47 (White)	M				6	2	2	2, 2, 6	2		6, 7, 9																			10																
MT8 (Green-W) VHF Collar	M	6																												1																
TKF4 VHF Collar	F																																													
TKF5 (Green)	F																																													
TKF7	F																																													
Un ID Male	M																																													
Un ID SA Male	M																																													
Un ID Female	F							6, 6									2, 7													4																
Old Adult Female (straight tail)	F				1																									1																
Un ID Juvenile																																														
Zwaanswyk Troop																						1								1																
	%	TIME SPENT IN TOWN (Minutes)																											HRS																	
Troop	0.3																					60								1.00																
Individuals	10.8	30		60	110	165	330	300	600	500																				34.92																
Roost:	AM	7, 18, 6	1, 18, 8	8, 6	6	1	1	8	6, 7	1	1	1	1	17	7	7, 8	1	6, 7	1	5	5	1	5	16	1	14	2	2	2																	
Roost:	PM	1, 18, 8	8, 6	6	1	1	8	6, 7	1	1	1	1	17	7	7, 8	1	6, 7	1	5	5	1	5	16	1	14	2	2	2	5																	
Roost Sites		1	Tea Garden								2	Level 1 Zwk Gums								3	Level 2 Stream								4	Level 4 Pines								5	Upper Tea Garden							
		6	Manor House Pines								7	Picnic Site 1								8	Picnic Site 2								9	Middle Plantation								10	Tokai Bridge							
		11	Silvermine Pines								12	Level 3 Mixed Plantation								13	Other								14	Picnic Site 3								15	Level 5 Lookout							
		16	Guest House Pines								17	Chrysalis Gums								18	Mike's Stables Pines								19									20								
		21									22									23									24									25								
ID Features of Baboons																																														
General remarks		Bold & Italics indicates non-urban raids.																																												

Figure 16: Zwaanswyk Troop's raid sheet for September 2017.

Individual baboons raided in the urban and non-urban space, 35 times. Most of the raiding incidents can be ascribed to MT5 and TK47. Following the euthanasias of both baboons, raiding incidents decreased drastically.

On 27 August, a new-born infant was reported in the Zwaanswyk Troop. On 5 September, TK47 was euthanised in terms of the raiding protocol. On 20 September, MT5 was euthanised in terms of the raiding protocol.

4. Constantia Troop 1 (CT1)

The CT1 roosted at the Lower Gums Sleep Site for most of September 2017. The sleep site is undesirable and makes management of the troop more challenging, because it is situated on the Klein Constantia Wine Farm, adjacent to the Nova Constantia urban space.

The troop spent most of the month in the northern part of its home range, on or near the Groot Constantia Wine Farm. As a result, five raiding incidents took place at the Simon's Restaurant. The troop also spent time on or near the Klein Constantia Wine Farm, however, this was to a lesser extent. When the troop was near Klein Constantia, it moved into Langboskloof to forage on the upper levels. CT1 only moved onto the Buitenverwachting Wine Farm twice.

When CT1 was on the farms, the baboons foraged on the nutritious spring shoots on the vines. This foraging behaviour destroys the vines, and in turn reduces the farmers yield. CT1 was also observed foraging on grasses, roots, bulbs, flowers, foliage and fruit trees.

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:	CT1	2	Raid bins	5	Raid unoccupied house or vehicle	8	Breaking & Entering/Damaging property																							
MONTH: SEPTEMBER	YEAR: 2017	3	Non malicious damage	6	Raid occupied house or vehicle	9	Nocturnal Raiding																							
BABOON ID	Sex	26	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	TOTAL
CON6 (Orange) VHF Collar	M																													
CON11 (Yellow-Y)	M														2			2												2
CON13 (White-W)	M	1															2													2
Un ID Male	M															2,7											2, 2, 2			5
Un ID Male	M																1													1
Un ID SA Male	M	6					6																							2
Un ID SA Male	M																													
Un ID Female	F																													
Un ID Female	F																													
Un ID Female	F																													
Un ID Juvenile		6																												1
CT1			1				1																							2
	%	TIME SPENT IN TOWN (Minutes)																												HRS
Troop	1.2	90				145																								3.92
Individuals	0.7	15													30		25	30								1		30	1	2.20
Roost:	AM	2	8	11	1	2	1	1	8	8	2	1	1	1	10	2	8	8	8	2	3	3	2	2	2	3	3	2	2	
Roost:	PM	8	11	1	2	1	1	8	8	2	1	1	10	2	8	8	8	2	3	3	2	2	2	2	3	3	2	2	2	
Roost Sites	1	Upper Gums				2	Lower Gums				3	Bike Trails Gums				4	Middle Plantation KC				5	Mckenzie's								
	6	Buitenverwachting Gums				7	Block 10 Gums				8	Castle Gums				9	Dumping Site				10	Other								
	11	Little Stream				12					13					14					15									
	16					17					18					19					20									
	21					22					23					24					25									
ID Features of Baboons																														
General remarks		Bold & Italics indicate non-urban raids.																												

Figure 17: CT1 raid sheet for September 2017.

When CT1 was on Groot Constantia, it continued to move towards the farm infrastructure, close to human activities. Currently, the main attractions to the restaurants are the fruit tree (avocado tree) and the

dining areas. HWS baboon rangers and wine farm rangers continued to collaborate to mitigate baboon impacts on the farms.

CT1 entered the urban space twice this month at Price Drive and Ou Wingered Pad, Constantia. These two incidents took place on 27 August and 31 August, and the troop was in town for 90 minutes and 145 minutes, respectively. Despite these urban entries, no raiding incidents were recorded for CT1. This occurrence illustrates that the baboons do not need to raid in the urban space because of an abundant source of human derived foods. Holding effective lines at Price Drive, remained challenging because of the invasive alien vegetation and natural vegetative regrowth. The vegetation hampers ranger sight lines and movements.

No births or deaths were recorded for CT1 this month.

4. Constantia Troop 2 (CT2)

The CT2 favoured the sleep sites at Veels-Te-Ver and Buitenverwachting. These sleep sites are situated on the upper reaches of the farm close to private houses. CT2's presence at the private houses reduced this month, because of the nutritious spring growth either side of the farms boundaries. This also resulted in CT2 spending less time on the lower reaches of both Buitenverwachting and Klein Constantia. The farm rangers assisted the residents of the private houses to mitigate baboon impacts.

CT2 did not roost at the Lower Gums Sleep Site this month. This is a positive outcome because the troop did not have the opportunity to enter the urban space, which has been a rare occurrence in the past. The troop foraged between Bike Trails in the north to Porter Estate and the Tokai Plantation in the south. CT2 also interacted with the Mountain Troop several times this month. The troops were observed foraging together in the southernmost part of the Porter Estate and Tokai Plantation. Like CT1, CT2 also foraged on the nutritious spring shoots growing on the farms vines. This caused damage to the vines and will ultimately reduce the farms yield.

CON3, the alpha male of CT2, spent a lot of time interacting and moving with the Mountain Troop last month. CON3 has since returned to CT2 and is still the alpha male. CON14 has assumed a beta role but should continue to challenge CON3 for alpha status in the troop.

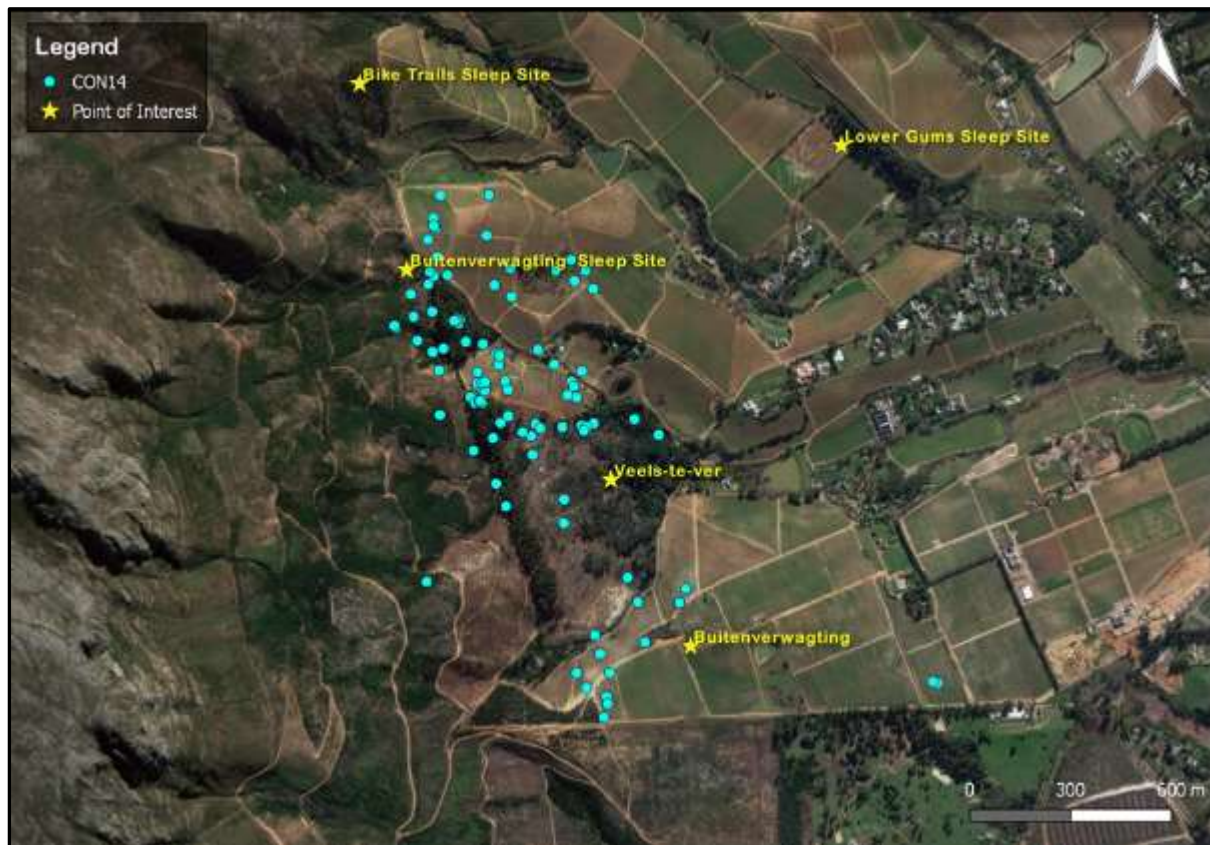


Figure 18: CT2 movements in September 2017. Data from HWS GPS Collars on CON14.

A raid sheet for CT2 has not been included because no time in town or raiding incidents were recorded.

There were no births and deaths in CT2.

5. Mountain Troop:

The Mountain Troop favoured the Veels-Te-Ver and Block 5 Pines Sleep Sites for most of September 2017. Last month the troop slept in two sub-groups on one occasion. During September, there was no evidence of splintering behaviour. The troop was observed foraging on grasses, roots, bulbs, foliage, flowers and horse feed.

The troop spent a considerable amount of time in the southernmost part of its home range. The baboons frequented the Vodacom Tower, the Tokai Plantation and Buitenverwagting. This movement resulted in lower levels of human/baboon conflict in comparison to last month. HWS baboon rangers and wine farm rangers collaborated to mitigate baboon-related incidents on the farms.

Every afternoon, the Mountain Troop returned to the south of Buitenverwagting to forage on the vines. During this time of year, nutritious spring shoots develop, and this serves as a major attractant to the baboons. Buitenverwagting's electrified perimeter fence was damaged by the 2015 fires and

subsequent tree falls. Buitenverwachting is currently in the process of installing a new electrified perimeter fence that should lessen the impacts of the baboons on the vineyards.



Figure 19: The Mountain Troop foraging on nutritious spring shoots growing on the vines at Buitenverwachting.

The Buitenverwachting farm rangers reported that TK36 raided an occupied house twice this month. Despite these reports, accurate dates of the raiding incidents were not provided to HWS and as such, an accurate raiding history could not be established.

On 3 September 2017, the baboon helpline received a report that an old adult female baboon suffered from impaired vision. The female was not located by HWS on the day because it was hiding amongst dense vegetation. On 4 September 2017, the field manager briefly located the baboon. Shortly after this sighting, the baboon moved back into the dense vegetation and continued to hide. HWS continued to search for the baboon for another two weeks. The baboon was never found and is presumed to have died of natural causes.

On 19 September, an adult female, MTF1, was tagged single pink and fitted with a HWS GPS collar. The collar will provide HWS with valuable spatial data for the troop.

No time in town or urban raids were recorded for the troop. One raiding incident was recorded for TK36.

On 27 August, new-borns were reported in the Zwaanswyk Troop and in the Tokai Troop. On 4 September, a new-born was identified in the Mountain Troop.

On 5 September, TK47 from the Zwaanswyk Troop was euthanised following WAAC approval in terms of the raiding protocol. On 20 September, MT5 also from the Zwaanswyk Troop, was euthanised following WAAC approval in terms of the raiding protocol. On 20 September, an adult female from the Zwaanswyk Troop gave birth to a still-born in the Westlake Holding Facility. An old adult female from the Mountain Troop was not found after an extensive search and is presumed to have died.

- The **electrified perimeter fence at the Tokai Picnic Site** should be upgraded and regularly maintained, which should mitigate raids on picnickers.
- Baboon incursions and raids at the **Cape Academy** should reduce if the practical recommendations made by HWS for **baboon-proofing** are implemented.

- **Maintenance and upgrades to electrified perimeter fences** on relevant **wine estates** should reduce baboon-related incidents. Trimming or removal of overhanging trees and closing of excavations should reduce baboon access to the farms.
- The implementation of baboon-proofing measures at the private and staff houses on **wine estates** in the range of the northern troops will assist in removing **baboon attractants** and therefore reduce raiding.
- Residents living at **Price Drive, Constantia**, should remove **fruit trees** or **harvest ripe fruit**. This action should mitigate baboon incursions to the urban space.

C. GENERAL COMMENTS ON ALL BABOON TROOPS

Population Data

This month, there were seven births and five deaths in the managed population. The managed population has therefore increased by two, taking the total to 436 individuals. This is the second, consecutive month, that the majority of the births came from the southern population. However, during 2017, the southern population has had 19 births whereas the northern population has had 40 births. This increase in the northern population is attributed to the abundance of human derived foods (HDF's). When compared to the September 2016 population, the current southern population has shown a 4% growth rate and the north a 6% growth rate over the past 12 months.

TROOP	Total December Populations					SEPT 2017			Total Births 2017	Total Deaths 2017	Emigration/ Immigration 2017	TOTAL CURRENT POPULATION
	2012	2013	2014	2015	2016	Births	Deaths	Emigration / Immigration				
Da Gama Troop	54	45	43	49	55	1	1	0	5	6	0	54
Smitswinkel Bay	23	21	22	23	33	0	0	0	2	3	+1	33
Waterfall	28	30	30	32	37	1	0	0	4	2	-1	38
Groot Olifantsbos	19	13	17	16	22	2	0	0	5	3	+1	25
Misty Cliffs	18	16	14	11	0	0	0	0	0	0	0	0
Slangkop	33	32	36	41	40	0	0	0	3	3	0	40
SUB TOTAL	175	157	162	172	187	4	1		19	17	+1	190
Zwaanswyk	25	26	28	30	29	1	3	0	4	5	+2	30
Tokai	61	65	72	62	67	1	0	0	13	7	-2	71
Mountain	33	44	48	49	52	1	1	0	11	5	1	59
Constantia 1 & 2	60	63	70	77	84	0	0	0	12	8	-2	86
SUB TOTAL	179	198	218	218	232	3	4		40	25	-1	246
TOTAL	354	355	380	390	419	7	5		59	42		436

Table 1: Population data for the eleven managed troops on the Cape Peninsula (August 2017).

There were two management deaths this month. Both TK47 and MT5, from the Zwaanswyk Troop, were euthanised with WAAC approval, in terms of the raiding protocol. There was one natural death this

month, an adult female from the Zwaanswyk Troop gave birth to a still-born. The last two deaths were both from unknown causes. A female, from the Da Gama Troop, was seen carrying a dead juvenile and an elderly female, from the Mountain Troop, showed initial signs of blindness and then disappeared.

Deaths	2012*	2013	2014	2015	2016	SEPT 2017	2017 to Date	TOTAL
Management	17	16	8	7	7	2	11	66
Human Induced (HID)	8	7	10	24	7	0	5	61
Direct **	8	6	6	8	4	0	2	32
Indirect ***	0	1	4	16	3	0	3	24
Natural	7	30	19	20	16	1	16	108
Unknown	1	3	0	4	7	2	10	25
TOTAL	33	56	37	55	37	5	42	260

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 88 raid related hotline calls in managed areas. This is a decrease of 73 calls from last month. The most noticeable decrease in calls were from the Welcome Glen, Tokai, Murdock Valley and Simon's Town areas. The decrease in calls from the Welcome Glen area can be attributed to improved climatic conditions and the development of nutritious vegetation growth.

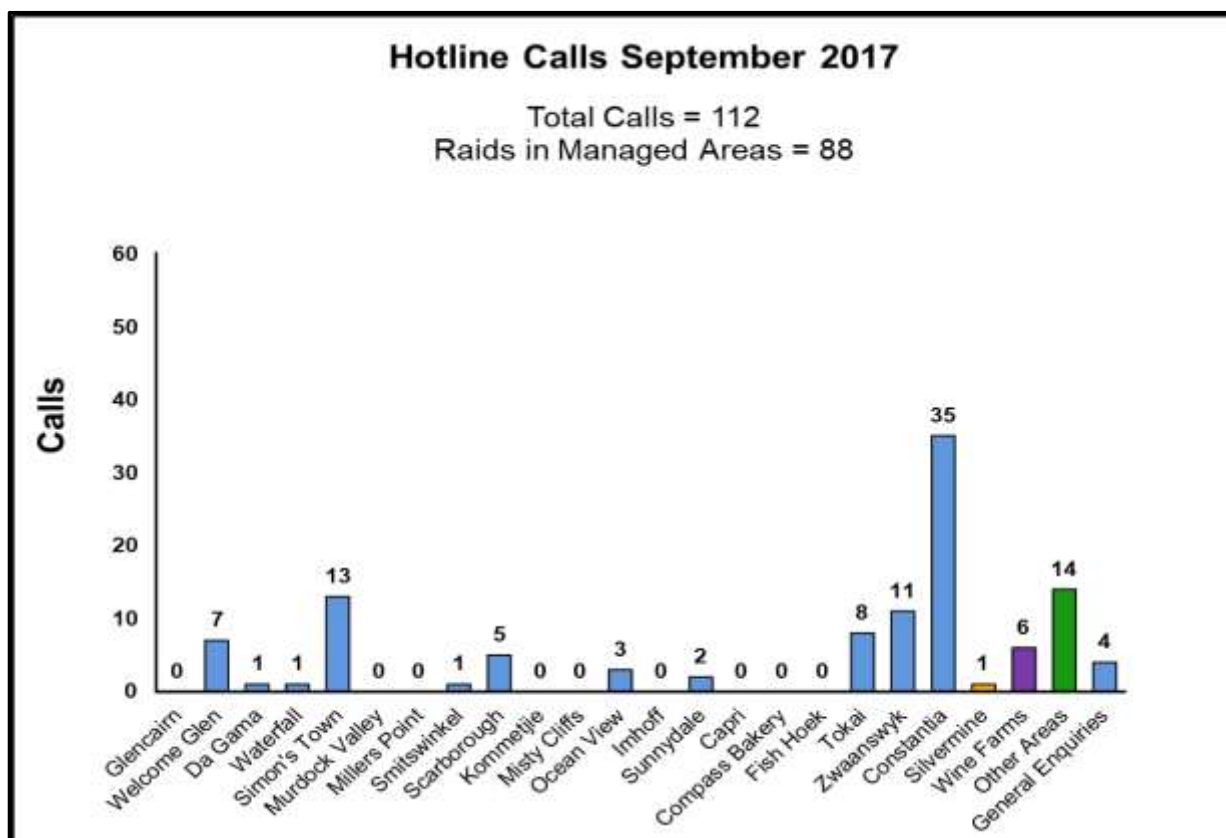


Figure 21: Hotline calls summary per urban area for September 2017.

There was an increase in calls from the Zwaanswyk area this month. On 15 September, the Zwaanswyk Troop entered the urban space for 60 minutes. Most of these calls can be attributed to this incident, and were received in short succession.

It is pleasing to note that 90% of raid related calls were only for baboons being present in the urban space. Of the remaining raids, 6% were assertive raids and 4% were bin raids.

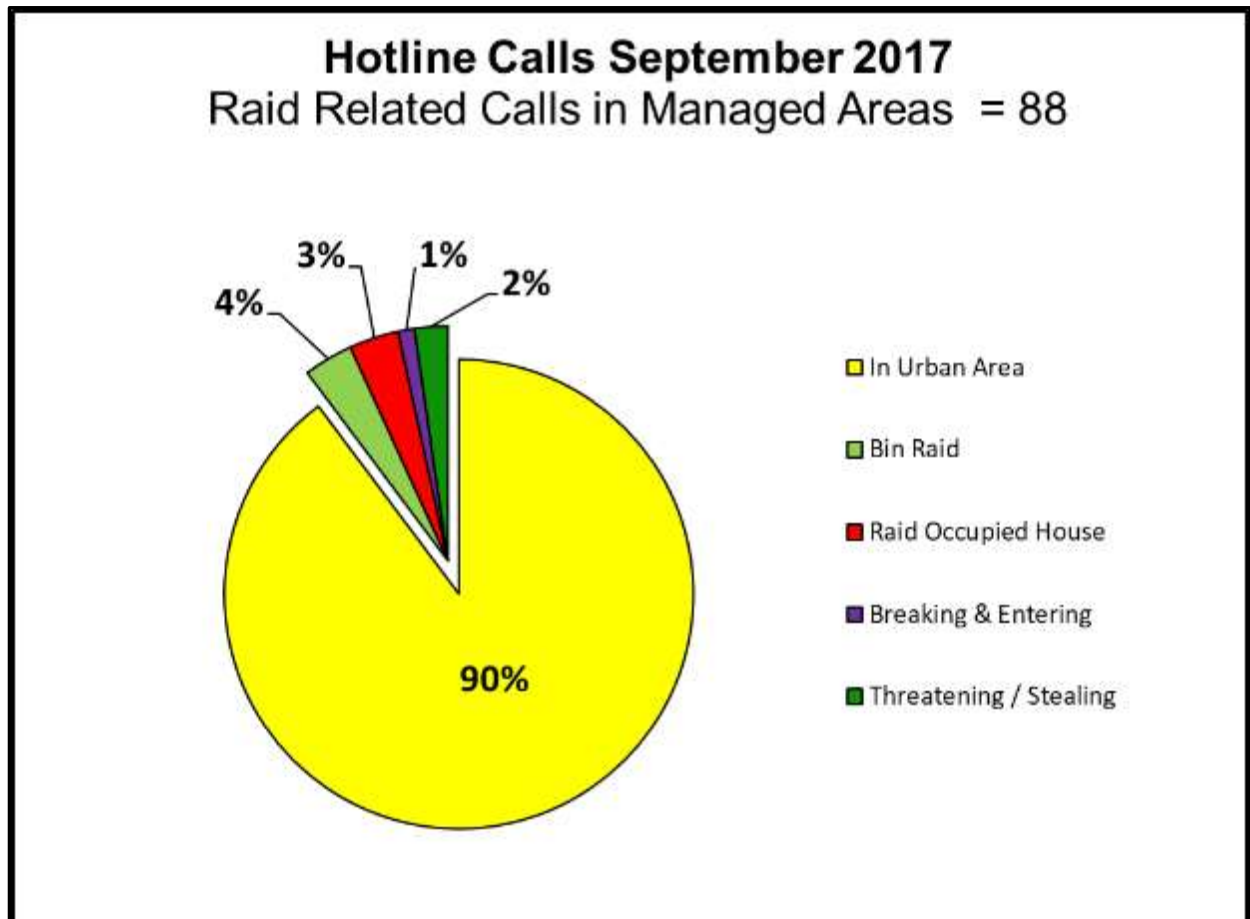


Figure 22: Composition of raid-related hotline calls during September 2017.

Percentage Time Out of Town

The percentage time the troops spent out of town remained high this month at 99.6%. Like last month, the Waterfall Troop, Zwaanswyk Troop and CT1 were the only troops to spend more than an hour in the urban space. Individuals averaged 94.3% of their time out of town. Only individuals from the GOB, Waterfall, Zwaanswyk and Da Gama Park Troops spent more than 5% of their time in town. Most time spent in town can be attributed to the three females from the GOB Troop, who remained above Scarborough and Misty Cliffs.

The four troops mentioned above, all displayed an increase in time spent out of town. This occurrence can be mainly attributed to the growth of nutritious vegetation throughout the Cape Peninsula. The three GOB females remained the most challenging to manage, and continued to spend more than 20% of their time in the urban area, at both Misty Cliffs and Scarborough.

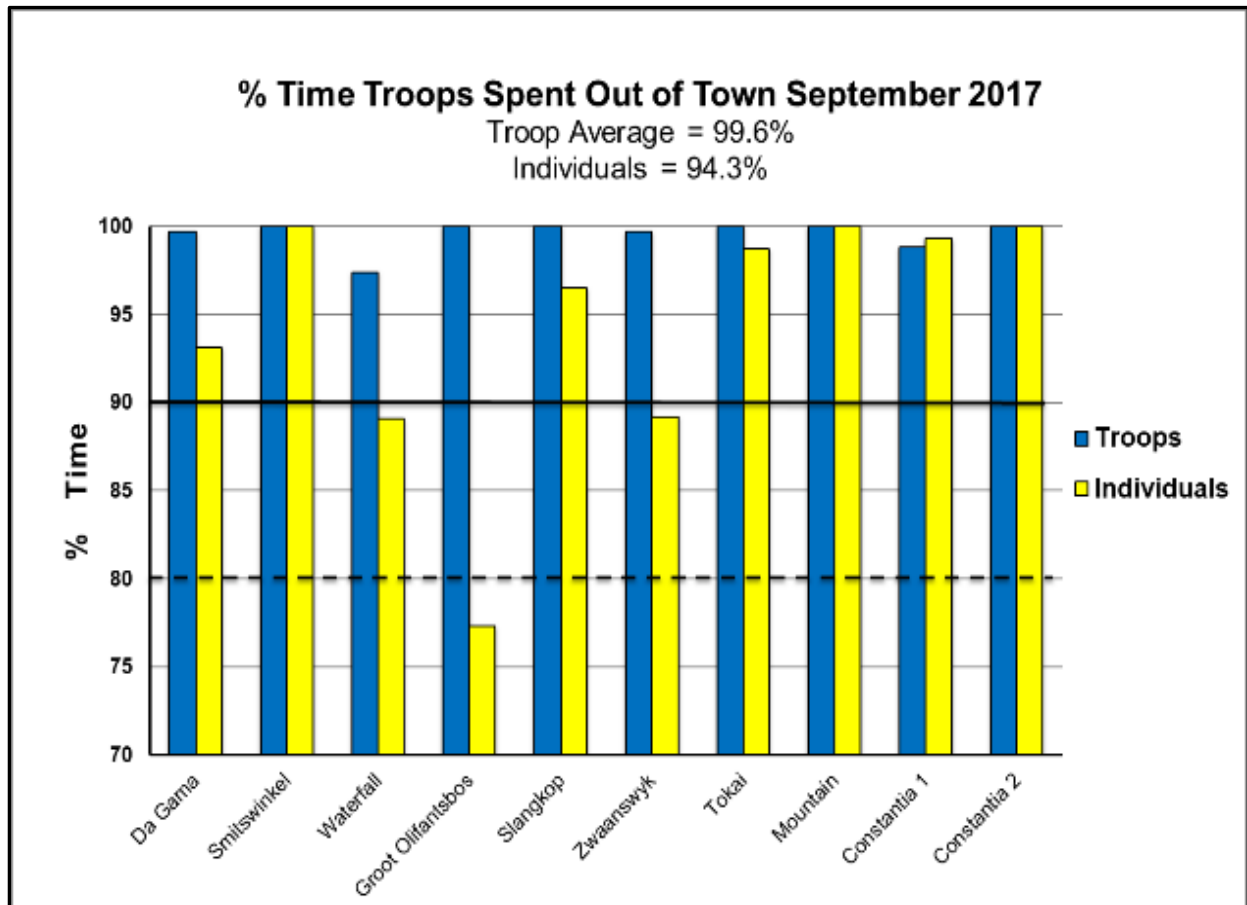


Figure 23: Percentage time troops spent out of town (September 2017). The solid line indicates the City of Cape Town's 2014 contract requirement and the broken line indicates the 2012 contract requirement.

Conclusion

Probably the most significant event over this past month, has been the arrival of spring. All of the troops have shown a greater inclination to travel and forage higher up the mountain in search of flowers, foliage and bulbs. As a result of this, the time individuals spent out of town increased by 1.6% to 94.3%. In the north, the arrival of spring also meant that the vines started to sprout shoots. As a result, the two Constantia Troops and the Mountain Troop all raided the farms on occasions in order to feed on these nutritious new shoots.

Although the number of raid related hotline calls almost dropped by half this month, there were still 88 hotline calls. As usual, most of the raids were in response to the activities of just a few individuals. The area with the most calls was Constantia, which received 35 calls. Most of these calls came within a few

days of each other when MT5 started raiding into Constantia as a dispersing male. One night he slept on top of Tasha's restaurant at Constantia Village, and those few days resulted in almost half the hotline calls for the month. Most of the other raids in urban areas and hotline calls came as a result of a few individuals in the Da Gama, Waterfall and Zwaanswyk Troops.

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