



MONTHLY PROJECT PROGRESS AND ACTIVITY REPORT

DECEMBER 2012

SUMMARY

The year 2012 ended on a sombre note with three reported elephant mortality incidents within the National Reserve in December. The three poaching related cases were all discovered by the JWPT in Kihari (*section A. 1.2*). These and other wildlife mortality incidents from the mountain reflect the upsurge in poaching across the country (*appendix 5*). The Lewa Wildlife Conservancy lost three black rhinos to poachers' within a span of one week in December. There were also reported mortalities in Isiolo and Meru and several arrests nationwide¹. A container load of contraband ivory originating from the Kenyan port of Mombasa was also impounded overseas in Hong Kong during the month.

December also witnessed continued interest in the Trust's reforestation initiatives with potential collaborating organizations and donors visiting the Karuri site on the 21st of December (*section B. 1.3*). Other notable events were the commencement of consultative stakeholder workshops on fencing of Mount Kenya by Rhino Ark held in Embu and the launch of the Laikipia Conservation Strategy by the Laikipia Wildlife Forum in Nanyuki.



This report covers MKT activities for the period 30th November to 31st December. Seasonal leave days and unseasonal rains extending well into December resulted in fewer patrols on average. The report provides an update on Reforestation activities, the JWPT, Marania Wildlife Guards, the Horse Patrol Team, the Elephant Corridor and the Fencing programme. Progress on project activity is summarized in Section A; while non-project interventions are summarized in Section B (as meetings and workshops). The Trust is grateful to the following employees; the *Marania Wildlife Guards*² lead by Kipruto Kosgey for collating species and habitat data in the Marania section of the

mountain; the *Elephant Corridor Team* of Charles Gitonga, Cheruiyot Kipsang and Robert Murega for providing large mammal movement data within the corridor; Humphrey Munene for updates on reforestation and fencing programmes; Edwin Kinyanjui for compiling data on behalf of the *Joint Wildlife Protection Team*³ on various aspects within the southern sector; and the *Horse Patrol Team* for feedback on activities of the team⁴. The December report was compiled by Maurice Nyaligu with the assistance of Humphrey Munene.

¹ The Kenya Wildlife Service website (<http://www.kws.go.ke>) notes several arrests involving foreigners domiciled in Kenya

² The Marania wildlife guards is a team comprised of Kipruto Kosgey, Julius Mutuma Kalonga, Joseph Gitonga, Paul Kithinji and Jasper Muthuma

³ JWPT is composed of Edwin Kinyanjui Ngure, Dominic Gitonga, Charles Nyaga, George Mwenda, and Francis Wachira.

⁴ The Horse patrol team comprises of Joseph Michubu, Pius Mutuma, Samuel Gikunda Japhet and Martin Murugu Gachienja

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INTRODUCTION

In contrast to previous months, and as evidenced by the number of incidents, December witnessed a reprieve in the number of reported illegal activities both on the northern and the southern sections of the Mountain. Illegal charcoal burning was down despite extensive patrols by field based teams. Similarly illegal logging activities were down; however, poaching, snaring, and illegal honey harvesting continued to be a problem as was illegal grazing particularly in the Marania forest area.



While increased partnership and collaboration amongst key stakeholders is highlighted in part of the activities, the report also depicts some of the social dimensions of MKT's work on reforestation. The Ontulili forest women group (responsible for seedling preparation and for reforesting a significant section of Ontulili forest) were able to close the year on a sound footing after group members received dividends in the form of goats and sheep bought collectively from project income accruing from reforestation work. Facilitating social development through conservation efforts is seen as crucial

towards the long-term sustainability of reforestation work on Mount Kenya. Similar measures have been undertaken previously with regard to energy saving *jikos* and *posho* mills amongst women groups in Irangi (Embu).

In terms of collaboration, engagement with like minded conservation organizations continued positively this December. Stakeholders in Laikipia recently launched a wildlife conservation strategy for Laikipia County. This is the first county level strategy to be developed in Kenya under the devolved system of government. It will act as a blue-print for similar initiatives on Mount Kenya given the centrality and the role of the mountain in ecosystem and habitat functions of Laikipia and adjoining savannah lowlands. The Trust welcomed and pledged its support towards this endeavour.

A. Progress and Activity Reports

A. 1: Joint Wildlife Protection Team

The Joint Wildlife Protection Team (JWPT) continued with patrol and surveillance work within the southern section of the Mountain in Kihari (*figure 1*). Their findings are as follows.

Figure 1: Area patrolled by the JWPT in December



A. 1.1 Illegal charcoal burners

There were two reported cases of illegal charcoal burning. They were on the 19th and 20th December. In the first case, one person was arrested while trying to pack five (5) sacks of charcoal onto a vehicle. In the second case, one suspect was also arrested trying to ferry a sack of charcoal from the forest. The two suspects were apprehended and handed over to the relevant law enforcement officials (*appendix 2*).



A. 1.2 Elephant mortality incidents



Three elephant mortality incidents were discovered. All cases were the direct result of poaching and in one incident; the suspected poacher was caught attempting to remove the tusks after successfully subduing the animal with a poisoned spear. The three cases were observed on 2nd, 10th and the 20th December. In the first incident, the fresh female carcass was estimated at 35 - 40 years of age, the tusks were intact but in the process of being removed. KWS law enforcement officers accompanying the JWPT managed to subdue and arrest the culprit, and retrieve the tusks. This incident took place in the Mbiriri area of Kabaruu forest. The second incident was of a fresh male carcass estimated at 50 - 60 years of age, the tusks were

also intact and the tusks were also retrieved. No arrests were made although community members provided useful leads on the whereabouts of suspects. Cause of death was poisoning by a spear with the incident recorded in Kihari. The third elephant mortality incident was also recorded in Kihari on the 20th; the tusks were missing but the cause of death was established to have resulted from spearing. The one month old female carcass was estimated at 45 - 50 years of age.



A. 1.3 *Illegal logging*

In comparison with previous months, December had cases of illegal logging. However, on 17th December, observed two unidentified indigenous trees that had use as charcoal. Two days later on the 19th of December, the team managed to arrest two suspected illegal loggers transporting twenty eight (28) pieces of silk oak (*Grevillea robusta*) trees from the forest using motorable bikes. Two suspects were arrested and handed to the relevant law enforcement agencies.

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A. 1.4 *Human wildlife conflict*

One incident of human wildlife conflict was recorded by the JWPT this December. The unfortunate incident, involved a tourist and a KWS ranger who had accompanied him within the precincts of Serena lodge during a morning bush breakfast. The incident involved a male buffalo but no injuries were reported.



A. 1.5 *Poacher hideout*

One hideout used by poachers to roast meat was unearthed by the JWPT on 9th December during routine patrol. No arrests were made although the team dismantled the hideout.

A. 1.6 *Bushmeat*

On the 13th December while patrolling a section of the forest, the JWPT came across three polythene bags hidden in a hole and suspected to be used in ferrying illegal bushmeat which is reported to be on the upsurge within the locality.

A. 1.7 *Ambushes and arrests*

At least six (6) suspects were arrested on various dates between the 2nd and 20th of December. On the 2nd, Peter Mwangi Ndirangu was arrested on suspicion of poaching an elephant and illegal possession of a government trophy. On the 18th, Robert Murithii Gathoni alias *Musanii* was arrested on suspicion of poaching and found in possession of a single elephant tusk and of an illegal weapon (spear). On the 19th, Joseph Mwaniki Mugo and Patrick Gachanja Munene were arrested on a case of illegal logging and transportation of forest products (28 pieces of silk oak – *Grevillea robusta* logs) using motorable cycles: KMCB 433N & KMCJ 298D. On the same date, Solomon Gatere Kimondo an illegal charcoal burner was caught packing five bags of charcoal onto a vehicle (KTY 539). Another



charcoal burner, Daniel Mukunga Muchangi was also caught on the 20th in possession of one sack of charcoal. All suspects were handed to relevant law enforcement agencies in Kiganjo and booked under several OB. Numbers (*appendix 2*).

A. 1.8 Illegal hunting with dogs

On 16th December whilst patrolling in Meere forest, the team members encountered an illegal hunter in the company of several dogs. Two of the dogs were shot dead while the illegal hunter managed to escape. Provisions within the law enable law enforcement officers to determine at their discretion if such incidents should be resolved by the use of firearms.

A. 1.9 Habitat utilization activities by various species

Several wildlife species were observed utilizing certain specific niches and habitats by the JWPT in December. This information is summarized in a tabular form as *appendix 1* to this report.

A. 2: Marania Wildlife Guards

The Marania Wildlife Guards undertook patrols in the areas indicated on figure 2 *below*. These included Marania forest, Kiwanja ya Daya, Mlima Ndinga area, Elephant corridor area, Chemi chemi ya Ndovu area, Kisima forest, Daraja ya Charlie area, Mlima Ngaita, Kimbo area and Kiambawa area. The scouts also undertook game counts during the month, which gave an appropriate indication of habitat utilization by various species (*appendix 4i*).

Figure 2: Area patrolled by the Marania Wildlife Guards and Horse Patrol Team in December



A. 2.1 Illegal grazing

There were a number of illegal grazing incidents reported by the Marania wildlife guards. A total of 13 incidents related to illegal grazing of cattle with 316 cattle observed grazing illegally within the National Reserve on various dates of the month (*appendix 1*). There were an additional two incidents of non-bovine illegal grazing (totaling 37 sheep).

A. 2.2 Illegal honey harvesting

There were two identified cases of illegal honey harvesting on the 17th December. Team members were not in a position to independently verify if these activities had been legally sanctioned under the current legislative provisions on forests and forest management.

A. 2.3 Other illegal activities

Four dogs suspected to have been part of a poaching party were observed within the National Reserve on the 12th December. Due to lack of firearm the guards could not deal with the incident, but reported the matter to KWS Marania operational post.



A. 3: The Horse Patrol Team

Patrols by the HPT during December were confined to Solo camp, Emburi area, Mlima Ndinga, Kiwanja cha Dyre, Mlima Ngaita, Ontulili forest and Kiguru area (*figure 2*).

A. 3.1 Anti-poaching

On the 12th December, while patrolling the forest, the team encountered six (6) poachers with more than fifty (50) dogs carrying a ‘gunia’ with meat and also with spears and pangas. The poachers were very bold and did not make attempt to flee even after the team approached within a 10m radius. Team members promptly called the KWS field operational station in Marania for assistance; however, the station took a long time to respond. When assistance finally came, the suspected poachers’ had fled leaving behind the dogs. In the same area, a poachers’ hut was found, and also found were branches used to roast meat in the.

A. 3.2 Snares

Despite intensified patrols, snaring of large and small mammals continues to be a problem on the Marania side of the mountain. There were three reported snaring incidents by the team during the month. On 20th December, they came across a heard of waterbuck with one individual that was lame as a result of snaring. Then on the 20th December, they found a heard of Zebra again with animals lame as a direct consequence of snaring. Interestingly enough with all the injured animals it was their front leg!

A. 3.3 Honey harvesting

There were three reported cases of suspected illegal honey harvesting on the 5th, 12th and 31st December. In all incidents, illegal honey harvesting took place in forests predominated by rosewood (*Hagenia abyssinica*). These cases continue to be held with suspicion as the legality of such practices cannot be authenticated.

A. 3.4 Debarking and destruction of trees by Elephants and heavy rains

There were a number of debarking incidents by elephants as well as destruction of trees by rains which were reported. On 4th December, the team reported a number of trees felled down by Elephants and heavy rains. Elephants also destroyed trees on the 9th, 12th and the 15th of December. On the 15th December, a number of red cedar (*Juniperus procera*) trees were also brought down by strong winds and rains.

A. 3.5 Other wildlife mortality incidents

On the 30th of December, the carcass of a black and white colobus monkey (*Colobus guereza*) was discovered at Mlima Ngatia. According to preliminary assessment, the carcass had been devoured by wild animals.



A. 4: The Elephant Corridor Team

With the unusual continuation of the November rains into December, monitoring of an extended period of weed growth along the fence line, kept the Elephant Corridor Maintenance Team busy. Elephants and



other wildlife used the corridor on a continuous basis but did not cause any breakage or damage to existing fence lines. The team has been very effective in tabulating information on wildlife movement and use of the corridor including data on underpass usage by a host of wildlife species both during the day and in the night (*appendix 4a*). This data clearly shows that the corridor and underpass are serving the needs of a host of other wildlife species besides elephants.



A. 5: Reforestation activities

Planting in the degraded forest area of Karuri within the greater Ontulili forest continued in December, picking up from where the initiative had earlier begun in mid November. The planting was done with an initial supply of 5,000 red cedar (*Juniperus procera*) seedlings facilitated by the MKT with support of KFS. They were planted in areas that the Kenya Forest Service (KFS) has opened to farmers to till and plant food crops alongside seedlings. A site visit to the area on 11th December, a month past planting, established that survival rate will be greatly improved as a result of seedlings being planted on cultivated land hence



significantly reducing competition from other vegetation. The seedlings supplied to this particular group were too few to cover the already cultivated area but as the next planting season comes, the full cultivated area (20ha) will have been



planted.

Within the same area, the Ontulili forest women group members (who benefited during the April /May planting season through the sale and planting of about 11,000 tree seedlings) had a function on 14th December to avail to their members goats and sheep purchased with proceeds from the project. The function was attended by the Ontulili Forest Officer and Mount Kenya Trust



representatives. Group members were advised not to share out money for individual projects but to think of appropriate projects to start with funds earned from tree planting projects. The goat/sheep project was well thought out as it provided another source of income for group members' and their families.

A. 6: Fencing activities

The Trust made a follow-up of the Ontulili fence following community concerns over its integrity last month. Late last month, it was reported that the fence had not proved useful to members due to frequent breakages by elephants. A check on the fence system on the 3rd of December revealed that the energizer unit was not faulty (as previously reported) but had due to poor maintenance by the community. The system was cleaned, water added to the battery and the energizer begun transmitting power to the fence line. Humphrey Munene the Trust's field coordinator urged members of the community to pay particular attention to maintenance of fences and was advised to patrol the entire perimeter clearing all vegetative growth and removing all shorts before switching on the energizer unit. Despite all this and even after all repairs had been undertaken, it was discovered that one rogue elephant had learnt the trick of breaking the fence by stepping and bringing down line posts. This behaviour was observed during the first two weeks of the month but there has not been any similar incident reported since the 11th December.

B. Non-Project Interventions

B.1: Meetings, Workshops and Visits

Over the month, the Trust continued to engage with other stakeholders at the national level on matters pertaining to wildlife and forest conservation on Mount Kenya. A consultative stakeholders' workshop on fencing by Rhino Ark and partners was held in early December in Embu town. Given heightened interest in fencing as a conservation strategy, it was imperative that the Trust re-position



itself within this network and provide input to the process. The Laikipia Wildlife Forum also launched a County level conservation strategy; the document clearly identifies the conservation of Mount Kenya as integral to it. A site visit by a potential donor and collaborating entity happened on the 21st December. The main issues emerging from these interventions are summarized below:

B.1.1: Rhino Ark's consultative workshop on fencing

On 4th December, Maurice Nyaligu and Humphrey Munene represented the Trust at a consultative workshop on community and stakeholder input to the fencing of Mount Kenya by Rhino Ark and

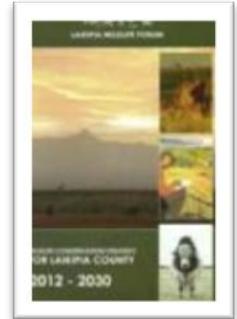
partners. Rhino Ark has begun the first of a series of meetings aimed at building consensus on the fence project around the mountain. The meeting was held on the outskirts of Embu town at Philadelphia Resort and Hotel, and was very well attended with significant representation at very high levels from KWS, KFS, policy and decision makers from surrounding communities, the Mount Kenya Trust and members of the provincial administration amongst other stakeholders.

There was overwhelming support for the fence initiative from civic leaders, community representatives and the government. MKT made a presentation of its current and ongoing work on the mountain which was very well received. Progress on the Rhino Ark fence is proceeding according to plan and collaborating agencies, partners and institutions have pledged their full support.

B.1.2: Laikipia Wildlife Forum County Conservation Strategy launch

On 11th December, LWF launched its blueprint conservation strategy under the new county government structure. The strategy is a culmination of a two year consultative process with funding from the Royal Netherlands Embassy. The document has been developed along the following five thematic areas:

1. Secure and increase space for wildlife
2. Strengthen security for wildlife
3. Maintain and enhance habitats and connectivity to maximize species diversity, ecosystem services and human wellbeing
4. Promote effective collaboration among stakeholders to enable effective wildlife conservation; and
5. Minimize the costs of living with wildlife.



Stakeholders present expressed hope that the new county government authorities will take up the strategy and begin implementing its provisions immediately, and that it will continue to act as a blue print for other counties and regions. The strategy was officially launched by the acting KWS Assistant Director for Mountain Conservation Area – Mr. Aggrey Maumo, with attendance being across the width and breadth of Laikipia. The Trust was represented by Maurice Nyaligu.



B.1.3: WeForests Site Visit to Karuri (Ontulili Forest)

On the 21st December, the Trust paid host to Ms. Victoria Gutierrez a representative of WeForest who visited MKT's tree planting and reforestation site in Karuri area of Ontulili Forest. WeForest is an international organization dedicated to sustainable reforestation. Its main objective is to participate in countering global warming and promote an international movement aimed at recovering part of the earth's forests that have so far disappeared.

The site visit acted as a prelude to an engagement which it is hoped will culminate in a proposal for reforestation on this particular section of Mount Kenya. Ms. Victoria Gutierrez was met and familiarized with the project site by the Trust's officers Ms. Susie Weeks, Humphrey Munene and Maurice Nyaligu. The degraded area of Karuri continues to attract reforestation interest and it is hoped that support from WeForest will add to ongoing initiatives by the Trust and its partners. Ms. Victoria also visited the Trust's other project site in Irangi (Embu) and expressed similar interest.

C. Conclusion and Recommendations

Higher levels of specifically elephant poaching at the close of December 2012, does not appear to be relenting at all according to recent reports by the JWPT. The same applies to general poaching. This continues to highlight the need for a concerted stakeholder effort in curtailing these activities within the Mount Kenya ecosystem which reflects what has now become a national and international problem. The report epitomizes the challenges faced by KWS and other stakeholders'. That notwithstanding, overall support from KWS and other security organs within the vicinity has been cordial for most of December. It is hoped that in the coming year, this corporation can only get better amongst all partners.

Lastly, and as emphasized in previous reports, given the commitment by MKT field staff towards several thematic areas within the ecosystem and emerging challenges along a number of fronts, there is an urgent need to train field based teams in animal identification techniques, natural history and elementary forest population dynamics; if as we hope, the Trust is to make better use of current and incoming data more effectively.

Appendix 1: Summary of incident specific locations and coordinates

#	PARTICULARS	DATE	TIME	LOCALITY	COORDINATES
JOINT WILDLIFE PROTECTION TEAM					
Illegal charcoal burning					
1.	One illegal charcoal burner	19 th December	1720hrs	Kihari	37M 0280484, UTM 9961125
Human wildlife conflict					
2.	Single case of a buffalo attack on a ranger and a tourist at Serena	4 th December	1106hrs	Kihari	37M 0294075, UTM 9964714
Illegal logging					
3.	Two unidentified indigenous trees cut for use as firewood	17 th December	1238hrs	Kihari	37M 0282607, UTM 9964682
4.	28 pieces of silk oak trees impounded while on motorable transport. Suspects held	19 th December	1441hrs	Kihari	37M 0280697, UTM 9961549
Elephant mortality incidents					
5.	One fresh female elephant carcass found at Mbiriri in Kabaru forest. 35 – 40 yrs	2 nd December	1159hrs	Kabaru forest	37M 0284997, UTM 9963999
6.	One fresh male elephant carcass found at Kihari. Estimated at 50 – 60 yrs	10 th December	1002hrs	Kihari	37M 0293117, UTM 9961789
7.	One adult female elephant carcass. Age 45 – 50 yrs. Locality Kihari	20 th December	1052hrs	Kihari	37M 0286345, UTM 9967176
Poacher hideouts					
8.	Found one hideout used by poachers in roasting meat	9 th December	1834hrs	Kihari	37M 0296084, UTM 9969044
Illegal bushmeat					
9.	Three polythene bags for carrying illegal bushmeat found	13 th December	0939hrs	Kihari	37M 0292177, UTM 9963890
Ambushes and arrests					
10.	Suspected elephant poacher Peter Mwangi Ndirangu caught while trying to remove an elephant tusk from a poached elephant	2 nd December	1159hrs	Kihari	37M 0284997, UTM 9963999
11.	Robert Murithi Gathoni alias Msanii. Caught with a piece of elephant tusk and a spear	18 th December	1720hrs	Kihari	37M 0291581, UTM 9963040
12.	Illegal loggers Joseph Mwaniki Mugo & Patrick Gachanja Munene caught transporting 28 pieces of silk oak trees using motor cycles	19 th December	1441hrs	Kihari	37M 0280697, UTM 9961549
13.	Illegal charcoal burner Solomon Gatere Kimondo caught packing 5 bags of charcoal into a vehicle	19 th December	1720hrs	Kihari	37M 0280484, UTM 9961125

#	PARTICULARS	DATE	TIME	LOCALITY	COORDINATES
Habitat utilization by various species					
14.	One suni feeding and a monkey jumping	12 th December	1523hrs	Kihari	37M 0295183, UTM 9967701
15.	Male bushbuck observed feeding	12 th December	1545hrs	Ngonde forest	37M 0295739, UTM 9968108
16.	Four colobus monkeys observed feeding and jumping	12 th December	1555hrs	Kihari	37M 0296078, UTM 9968288
17.	Hyena foot prints	12 th December	1613hrs	Kihari	37M 0296266, UTM 9968041
18.	Elephant utilization activities	13 th December	0545hrs	Kihari	37M 0291543, UTM 9965491
19.	Natural salt lick observed with fresh elephant footprints	13 th December	0903hrs	Kihari	37M 0292240, UTM 9964676
20.	Two buffalo observed running	22 nd December	0702hrs	Kihari	37M 0295988, UTM 9970521
21.	Fresh leopard footprints, on a path across a river	22 nd December	0757hrs	Kihari	37M 0297236, UTM 9972016
22.	Five colobus monkeys spotted jumping. One male, two female and two young	22 nd December	0813hrs	Kihari	37M 0297535, UTM 9972232
HORSE PATROL TEAM					
Anti-poaching					
23.	Six (6) poachers with spears and fifty dogs and game meat in 'gunias' observed	12 th December	1010hrs	Marania forest	37M 0318916, UTM 0003534
24.	Buffalo carcass with signs of poaching found, estimated at a month old	21 st December	1200hrs	Marania forest	No coordinates due to poor reception
25.	Team observed several dog prints, human foot prints and buffalo prints a sign of poaching activity	28 th December	0846hrs	Marania forest	37M 0323365, UTM 0004873

Appendix 2: List of culprits apprehended during the month of December

#	NAME	OFFENCE	DATE	LOCALITY	STATION
1.	Peter Mwangi Ndirangu	Poaching of an elephant and illegal possession of government trophy. Caught while trying to remove tusk	2 nd December	Kihari operational post	Kiganjo Police station OB: No. 27/02/12/12. Suspect released on a bond of Ksh. 300,000.
2.	Robert Murithii Gathoni alias <i>Musanii</i>	Poaching - found in possession of a single elephant tusk (a government trophy). Also, caught in possession of an illegal weapon - spear	18 th December	Kihari operational post	Kiganjo Police station OB: No. 27/18/12/2012. Suspect released on a bond of Ksh. 1,000,000.
3.	Joseph Mwaniki Mugo and Patrick Gachanja Munene	Illegal logging and transportation of forest products (28 pieces of silk oak logs) using motor bikes: KMCB 433N & KMCJ 298D	19 th December	Kihari operational post	Kiganjo Police station OB: No. 31/19/12/2012.
4.	Solomon Gatere Kimondo	Illegal charcoal burning. Caught packing five bags of charcoal into a vehicle (KTY 539)	19 th December	Kihari operational post	Kiganjo Police station OB: No. 33/19/12/2012.
5.	Daniel Mukunga Muchangi	Illegal charcoal burning. Caught in possession of one sack of charcoal	20 th December	Kihari operational post	Kiganjo Police station OB: No. 29/20/12/2012.

Appendix 3: Elephant mortality recovery sites and data for December

#	SITE	COORDINATES	DATE	AGE	SEX	TIME	REMARKS	PHOTO
1.	Kihari	37M 0284997, UTM 9963999	2 nd December	35 – 40 yrs	Female	1159hrs	Fresh female elephant carcass estimated at 35 – 40 yrs. Tusks intact but in the process of being removed by suspected poacher. Two suspects at seen but one escaped. Law enforcement agencies managed to retrieve the tusks	
2.	Kihari	37M 0293117, UTM 9961789	10 th December	50 – 60 yrs	Male	1002hrs	Fresh male elephant carcass of about 50 – 60 yrs. Cause of death, poaching using spears. Tusks intact; retrieved using axes.	
3.	Kihari	37M 0286345, UTM 9967176	20 th December	45 – 50 yrs	Female	1052hrs	Female elephant carcass estimated to be a month old. Cause of death spearing. Tusks missing.	



Appendix 4a: Wildlife species and numbers observed utilizing the elephant corridor during the month of December

#	DATE	AREA SEEN	TIME	SPECIES OBSERVED
1.	1 st December	Along short fence, Kamiti	1005hrs, 1200hrs,	12 Sykes monkeys, 2 Bushbucks
2.	2 nd December	Kamiti gate, Kamiti, Marania	1145hrs, 0706hrs	8 Baboons, Warthogs, 1 Bushbuck 10 Waterbuck, 7 Grey duiker
3.	3 rd December	Marania	1827hrs	3 Grey duiker, 10 Waterbuck, 2 Reedbuck
4.	4 th December	Tunnel area, Marania	1215hrs, 1230hrs, 1139hrs,	1 Grey duiker, 16 Sykes monkeys, 1 Reedbuck, 12 Waterbuck, 1 Bushbuck
5.	5 th December	Along short fence, Marania	1015hrs, 0747hrs,	1 Grey duiker, 11 Waterbuck, 1 Bushbuck, 5 Warthog, 1 Reedbuck
6.	6 th December	Blue gum area, Kamiti, Marania	0908hrs, 0700hrs, 1309hrs	2 Warthog, 2 Suni, Sykes monkeys, 12 Waterbuck, 7 Grey duikers, 5 Warthog
7.	7 th December	Jonathan area, Kamiti, Marania	1630hrs, 1114hrs, 0731hrs	1 Waterbuck, Sykes monkeys, 7 Grey duikers, 1 Bushbuck
8.	8 th December	Lower Kisima, Upper Marania	1545hrs, 1607hrs	12 Sykes monkeys, 1 Red Duiker, 13 Waterbuck, 7 Grey duikers, 3 Warthog
9.	9 th December	Underpass, Subuiga, Marania	1530hrs, 1404hrs, 1403hrs	1 Suni, 1 squirrel, 1 Warthog, 10 Waterbuck, 3 Reedbuck, 1 Hyrax
10.	10 th December	Kamiti Gate, Marania Upper side	1520hrs, 1801hrs	25 Baboons, 3 Reedbuck, 1 Serval cat, 25 Duikers, 12 Waterbuck, 3 Warthog
11.	11 th December	Corridor gap, Upper-Kisima, Marania	1405hrs, 1400hrs,	1 Red Duiker, 1 Ground squirrel, 5 Warthog, 12 Waterbuck, 11 Grey duikers
12.	12 th December	Mlima Mbogo, Lower- Marania, Upper -Marania,	1015hrs, 0712hrs, 1537hrs	6 Sykes monkeys, 5 Warthog, 12 Waterbuck, 8 Grey duiker, 3 Reedbuck
13.	13 th December	Along short fence Kisima to Marania	0830hrs, 1040hrs, 1758hrs	12 Sykes monkey, 10 Waterbuck, 3 Reedbuck
14.	14 th December	Mlima Mbogo, Curtland area, Marania	0950hrs, 1501hrs, 1307hrs	3 Jackal, 1 Waterbuck, 12 Grey duikers, 13 Waterbuck, 5 Warthogs
15.	15 th December	Jonathan area, Marania gate, Marania to Kisima,	0745hrs, 0852hrs, 1159hrs,	6 Warthog, 12 Waterbuck, 10 Grey duiker, 2 Reedbuck, 1 Bushbuck, 4 Waterbuck
16.	16 th December	Marania gate, Mlima Mbogo, Along short fence	0928hrs, 1411 hrs, 1630hrs	4 Warthog, 13 Waterbuck, 3 Reedbuck, 3 Suni, 6 Monkey

#	DATE	AREA SEEN	TIME	SPECIES OBSERVED
17.	17 th December	Kisima, Along short fence	1400hrs, 1545hrs	4 Waterbuck, 4 Guinea fowl
18.	18 th December	Marania gate, Kisima	0714hrs, 1502hrs	3 Grey duiker, 13 Waterbuck, 1 Bushbuck, 6 Red duiker
19.	19 th December	Marania gate, Blue gum plantation, Kisima	0805hrs, 0816hrs, 1119hrs, 1343hrs	3 Bushbuck, 8 Waterbuck, 5 Grey duikers, 4 Crested Guinea fowl, 8 Monkey, 2 Suni, 6 Olive Baboon
20.	20 th December	Along short fence, Kisima, Mlima Mbogo	1050hrs, 1125hrs, 1430hrs	1 Grey duiker, 8 Monkey, 6 Monkey, 5 Sykes Monkey
21.	21 st December	Mlima Mbogo, Marania to Kisima, Near Community Tanks	0730hrs, 1601hrs, 1623hrs	10 Duiker, Bushbuck, Monkey, 1 Red duiker
22.	22 nd December	Jonathan Area, Kisima to Marania	0915hrs, 1801hrs	12 Warthog
23.	23 rd December	Marania, Marania to Kisima	1130hrs, 0749hrs	1 Bushbuck, 10 Suni
24.	24 th December	Marania, Along short fence	1600hrs, 1730hrs	Monkeys, 1 Grey duiker
25.	25 th December	Marania to Kisima, Subuiga	0600hrs, 1040hrs	10 Bushbuck, Duikers, Monkeys
26.	26 th December	Kisima, Blue gum plantation, Subuiga	0630hrs, 0916hrs, 1230hrs,	26 Waterbuck, 8 Monkey, 1 Suni, 7 Reedbuck,
27.	27 th December	Kamiti, Near Community Tanks	0830hrs, 1320hrs	3 Sykes monkey, 1 Squirrel
28.	28 th December	Marania to Kisima, Kamiti, Along short fence	0630hrs, 1230hrs, 1530hrs	23 Monkey, 1 Leopard, 1 Grey duiker
29.	29 th December	Near Kambi, Tunnel	0838hrs, 1340hrs	2 Red duiker, 1 Warthog
30.	30 th December	Near Corridor gap	0930hrs	9 Monkey
31.	31 st December	Near Kambi, Tunnel, Marania	0609hrs, 0945hrs, 1645hrs	2 Red duiker, 1 Bushbuck, 6 Suni

Appendix 4b: Locality and habitat utilization of some wildlife species and numbers observed by the HPT during the month of December

#	DATE	WAYPOINT		TIME	ANIMAL	ACTIVITY
1.	1 st December	37M 0322545	UTM 0006347	0719hrs	2 female water buck	Grazing
2.	1 st December	37M 0326904	UTM 0007643	0803hrs	3 Elephant	Grazing
3.	1 st December	37M 0326904	UTM 0007643	0803hrs	7 Sykes monkeys	Resting
4.	1 st December	37M 0328845	UTM 0008738	0945hrs	1 Duiker	Resting
5.	3 rd December	37M 0322104	UTM 0006491	1254hrs	2 Duiker	Resting
6.	3 rd December	37M 0322095	UTM 0006137	1300hrs	2 Waterbuck	Grazing
7.	3 rd December	37M 0322348	UTM 0005510	1330hrs	9 Zebra	Grazing
8.	3 rd December	37M 0322221	UTM 0004792	1430hrs	24 Eland	Grazing
9.	4 th December	37M 0320280	UTM 0005648	0920hrs	2 Duiker	Resting
10.	4 th December	37M 0319516	UTM 0005228	1045hrs		
11.	4 th December	37M 0318661	UTM 0004855	1104hrs	39 Zebra	Grazing
12.	4 th December	37M 0319293	UTM 0003381	1211hrs	21 Eland	Grazing
13.	5 th December	37M 0322000	UTM 0006333	0930hrs	4 Duiker	Resting
14.	5 th December	37M 0322076	UTM 0005893	0950hrs	52 Zebra	Grazing
15.	5 th December	37M 0322913	UTM 0005041	1100hrs		Honey harvesting
16.	5 th December	37M 0325065	UTM 0007476	1210hrs	12 Waterbuck	Grazing
17.	6 th December	37M 0321045	UTM 0003190	1345hrs	18 Zebra	Grazing
18.	6 th December	37M 0328870	UTM 0005176	1348hrs	5 Waterbuck	Grazing
19.	6 th December	37M 0328870	UTM 0005176	1348hrs	3 Duiker	Resting
20.	6 th December	37M 0322168	UTM 0003165	1409hrs	28 Zebra	Grazing
21.	8 th December	37M 0322132	UTM 0005760	0910hrs	6 Waterbuck	Grazing
22.	8 th December	37M 0322132	UTM 0005760	0910hrs	2 Duiker	Grazing
23.	8 th December	37M 0323256	UTM 0004581	1000hrs	62 Zebra	Grazing
24.	8 th December	37M 0323748	UTM 0004372	1230hrs	4 Elephants	Grazing
25.	9 th December	37M 0321661	UTM 0005731	0833hrs	3 Waterbuck	Grazing
26.	9 th December	37M 0322165	UTM 0004857	0900hrs	2 Duiker	Resting
27.	9 th December	37M 0321487	UTM 0003319	0924hrs	68 Zebra	Grazing
28.	9 th December	37M 0319936	UTM 0002136	1110hrs	125 Eland	Grazing
29.	9 th December	37M 0319376	UTM 0002458	1234hrs		Elephant destruction
30.	11 th December	37M 0321706	UTM 0005639	1001hrs	5 Waterbuck	Walking
31.	11 th December	37M 0321864	UTM 0002359	1016hrs		Swamp
32.	11 th December	37M 0321561	UTM 0003696	1210hrs	7 Zebra	Resting
33.	11 th December	37M 0322057	UTM 0003472	1239hrs	Eland	Grazing

#	DATE	WAYPOINT		TIME	ANIMAL	ACTIVITY
34.	11 th December	37M 0322057	UTM 0003472	1239hrs	Zebra	Grazing
35.	12 th December	37M 0321617	UTM 0008793	0840hrs	1 Duiker	Resting
36.	12 th December	37M 0320756	UTM 0006055	0858hrs	2 Duiker	Resting
37.	13 th December	37M 0322146	UTM 0005840	0738hrs	13 Waterbuck	Walking
38.	13 th December	37M 0322146	UTM 0005840	0738hrs	11 Zebra	Grazing
39.	13 th December	37M 0323463	UTM 0006005	0806hrs		Elephant droppings
40.	13 th December	37M 0322758	UTM 0006868	0928hrs	1 Hare	Resting
41.	15 th December	37M 0322338	UTM 0005336	1044hrs	2 Red Duiker	Grazing
42.	15 th December	37M 0322338	UTM 0005336	1044hrs	15 Zebra	Walking
43.	15 th December	37M 0323579	UTM 0004725	1125hrs	22 Eland & Zebra	Grazing
44.	15 th December	37M 0323256	UTM 0006084	1256hrs	1 Elephant	Grazing
45.	15 th December	37M 0323256	UTM 0006084	1256hrs	12 Colobus monkey	Jumping
46.	16 th December	37M 0322386	UTM 0005506	0800hrs	2 Duiker	Grazing
47.	16 th December	37M 0321515	UTM 0003510	0800hrs	8 Zebra	Grazing
48.	16 th December	37M 0320686	UTM 0001085	0935hrs	86 Eland	Grazing
49.	16 th December	37M 0320686	UTM 0001085	0935hrs	61 Zebra	Grazing
50.	16 th December	37M 0322173	UTM 0005744	1102hrs	4 Waterbuck	Grazing
51.	17 th December	-	-	0802hrs	20 Waterbuck	Grazing
52.	17 th December	-	-	0802hrs	50 Baboons	Relaxing
53.	17 th December	37M 0321654	UTM 0002977	0851hrs	4 Eland	Grazing
54.	17 th December	37M 0323224	UTM 0003714	0922hrs	6 Zebra	Grazing
55.	17 th December	37M 0321981	UTM 0002815	1115hrs	1 Duiker	Relaxing
56.	19 th December	37M 0318638	UTM 0004617	0948hrs	1 Leopard	Resting
57.	19 th December	37M 0318312	UTM 0004966	1007hrs	2 Duiker	Resting
58.	20 th December	37M 0325289	UTM 0007526	0852hrs	12 Zebra	Grazing
59.	20 th December	37M 0325289	UTM 0007526	0852hrs	14 Waterbuck	Grazing
60.	20 th December	-	-	1114hrs	1 Duiker	Walking
61.	21 st December	37M 0321645	UTM 0005727	0850hrs	2 Zebra	Grazing
62.	21 st December	37M 0321645	UTM 0005727	0850hrs	1 Waterbuck	Grazing
63.	21 st December	37M 0321645	UTM 0005727	0850hrs	Elephant droppings	
64.	22 nd December	37M 0322325	UTM 0005619	0849hrs	5 Zebra	Grazing
65.	22 nd December	37M 0322693	UTM 0005218	0901hrs	1 Duiker	Resting
66.	22 nd December	37M 0322949	UTM 0003463	0935hrs	52 Zebra	Grazing
67.	22 nd December	37M 0322949	UTM 0003463	0935hrs	47 Eland	Grazing
68.	22 nd December	37M 0321641	UTM 0002741	1000hrs	3 Zebra	Walking
69.	22 nd December	37M 0321258	UTM 0003492	1142hrs	1 Hare	Resting
70.	22 nd December	37M 0321258	UTM 0003492	1142hrs	55 Zebra	Grazing
71.	22 nd December	37M 0321258	UTM 0003492	1142hrs	3 Eland	Grazing

#	DATE	WAYPOINT		TIME	ANIMAL	ACTIVITY
72.	24 th December	37M 0321973	UTM 0006011	0900hrs	17 Waterbuck	Walking
73.	24 th December	37M 0323041	UTM 0004774	1002hrs	1 Elephant	Grazing
74.	24 th December	37M 0322556	UTM 0003928	1149hrs	2 Duiker	Resting
75.	24 th December	-	-	1252hrs	1 Elephant	Feeding
76.	25 th December	37M 0322357	UTM 0005596	0920hrs	4 Waterbuck	Grazing
77.	25 th December	37M 0322363	UTM 0004989	1000hrs	12 Elephants	Resting
78.	27 th December	37M 0322099	UTM 0006454	1129hrs	102 Baboon	Walking
79.	27 th December	37M 0321215	UTM 0005729	1150hrs	1 Duiker	Standing
80.	27 th December	37M 0321511	UTM 0004006	1344hrs	5 Eland	Resting
81.	28 th December	37M 0321990	UTM 0006306	0806hrs	2 Waterbuck	Walking
82.	28 th December	37M 0322328	UTM 0005770	0820hrs	7 Zebra	Grazing
83.	28 th December	37M 0323365	UTM 0004873	0846hrs	7 Zebra	Grazing
84.	28 th December	37M 0323365	UTM 0004873	0846hrs	1 Waterbuck	Walking
85.	29 th December	37M 0321942	UTM 0006290	0800hrs	2 Waterbuck	Grazing
86.	29 th December	37M 0321070	UTM 0006008	0904hrs	1 Red Duiker	Resting
87.	29 th December	37M 0320608	UTM 0005897	0920hrs	5 Sykes monkeys	Walking
88.	29 th December	37M 0329597	UTM 0004641	1145hrs	10 Eland	Grazing
89.	30 th December	37M 0322850	UTM 0005355	0915hrs	1 Eland	Grazing
90.	30 th December	37M 0323186	UTM 0004507	0950hrs	2 Eland	Grazing
91.	30 th December	37M 0322530	UTM 0003585	1014hrs	26 Eland	Grazing
92.	30 th December	37M 0322530	UTM 0003585	1014hrs	42 Zebra	Grazing
93.	31 st December	37M 0321227	UTM 0005970	0917hrs	1 Eland	Resting
94.	31 st December	37M 0321350	UTM 0004310	1120hrs	4 Zebra	Grazing
95.	31 st December	37M 0321754	UTM 0003482	1247hrs	10 Buffalo	Walking



Appendix 4c: Localities and numbers of some wildlife & domestic species observed by the Marania Wildlife Guards during the month of December

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES	TIME	SPECIES	NOTES	
			Total	Male	Female	Juvenile					
1.	1 st Dec	Marania Forest	40	-	-	-	37M0328269	UTM0007890	0830hrs	Cattle	Grazing
	1 st Dec	Marania Forest	8	-	-	-	37M0327263	UTM0007632	0950hrs	Colobus monkey	Climbing and howling
	1 st Dec	Marania Forest	5	3	2	-	37M0326891	UTM0007338	1040hrs	Elephant	Breaking down trees
	1 st Dec	Marania Forest	8	1	1	6	37M0328436	UTM0007449	1140hrs	Warthog	Grazing
	1 st Dec	Marania Forest	-	-	-	-	37M0327955	UTM0007267	1150hrs	Baboon	Climbing
	1 st Dec	Marania Forest	-	-	-	-	37M0329031	UTM0009023	1245hrs	Baboon	Resting
	1 st Dec	Marania Forest	2	1	1	-	37M0327946	UTM0006553	1320hrs	Bushbuck	Playing
	1 st Dec	Marania Forest	20	-	-	-	37M0327959	UTM0006425	1353hrs	Colobus monkey	Jumping
	1 st Dec	Marania Forest	-	-	-	-	37M0325674	UTM0007295	1440hrs	Zebra dung	
	1 st Dec	Marania Forest	1	-	-	-	37M0325312	UTM0004245	1530hrs	Suni	Resting
	1 st Dec	Marania Forest	1	1	-	-	37M0328021	UTM0006472	1550hrs	Waterbuck	Grazing
2.	3 rd Dec	Chemi chemi	2	2	-	-	37M0327154	UTM0007891	0830hrs	Baboon	Fighting
	3 rd Dec	Chemi chemi	4	1	2	1	37M0326886	UTM0007527	0934hrs	Waterbuck	Resting
	3 rd Dec	Chemi chemi	7	-	-	-	37M0326606	UTM0007209	1020hrs	Colobus monkey	Jumping
	3 rd Dec	Chemi chemi	1	-	-	-	37M0326422	UTM0005400	1147hrs	Buffalo	Drinking water
	3 rd Dec	Chemi chemi	11	-	-	6	37M0326422	UTM0005400	1150hrs	Zebra	Grazing
	3 rd Dec	Chemi chemi	3	1	2	-	37M0326422	UTM0005400	1155hrs	Elephant	Taking a mud bath
	3 rd Dec	Chemi chemi	-	-	-	-	37M0327786	UTM0006293	1250hrs	Elephant	Resting
	3 rd Dec	Chemi chemi	1	-	-	-	37M0321748	UTM0005565	1333hrs	Elephant trumpets	Fighting
	3 rd Dec	Chemi chemi	1	-	-	-	37M0327959	UTM0006425	1455hrs	Mongoose	Running
3 rd Dec	Chemi chemi	-	-	-	-	37M0328439	UTM0007152	1530hrs	Serval cat	Feeding	
3.	4 th Dec	Ndimba	3	-	-	-	37M0326822	UTM0007157	0810hrs	Suni	Resting

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES		TIME	SPECIES	NOTES
	4 th Dec	Ndimba	2	-	-	-	37M0326959	UTM0007004	0849hrs	Warthog	Grazing
	4 th Dec	Ndimba	9	-	-	-	37M0321029	UTM0003344	1000hrs	Elephant	Breaking down trees
	4 th Dec	Ndimba	2	-	-	-	37M0323999	UTM0000754	1120hrs	Suni	Grazing
	4 th Dec	Ndimba	-	-	-	-	37M0325186	UTM0006438	1149hrs	Suni	Resting
	4 th Dec	Ndimba	5	-	-	-	37M0325283	UTM0006620	1203hrs	Zebra	Grazing
	4 th Dec	Ndimba	8	-	-	-	37M0326513	UTM0005007	1250hrs	Eland	Grazing
	4 th Dec	Ndimba	20	-	-	-	37M0325186	UTM0006438	1320hrs	Zebra	Running
	4 th Dec	Ndimba	1	-	-	-	37M0325283	UTM0006620	1355hrs	Suni	Grazing
	4 th Dec	Ndimba	-	-	-	-	37M0328206	UTM0007678	1420hrs	*Dogs and men	Footsteps
	4 th Dec	Ndimba	1	-	-	-	37M0328206	UTM0007678	1430hrs	Hare	Resting
4.	5 th Dec	Kiwanja ya Daya	1	1	-	-	37M0326326	UTM0007129	0841hrs	Baboon	Resting
	5 th Dec	Kiwanja ya Daya	9	6	2	1	37M0326020	UTM0006857	0920hrs	Eland	Breaking trees
	5 th Dec	Kiwanja ya Daya	3	-	-	-	37M0326020	UTM0006857	0925hrs	Zebra	Grazing
	5 th Dec	Kiwanja ya Daya	-	-	-	-	37M0324384	UTM0003220	1120hrs	Zebra	Resting
	5 th Dec	Kiwanja ya Daya	1	-	-	-	37M0325781	UTM0008119	1230hrs	Leopard	Walking
	5 th Dec	Kiwanja ya Daya	1	-	-	-	37M0325186	UTM0006438	1310hrs	Suni	Resting
	5 th Dec	Kiwanja ya Daya	2	-	-	-	37M0325312	UTM0004245	1320hrs	Buffalo	Resting
	5 th Dec	Kiwanja ya Daya	1	-	-	-	37M0326124	UTM0004174	1422hrs	Duiker	Grazing
	5 th Dec	Kiwanja ya Daya	1	-	-	-	37M0324597	UTM0003874	1540hrs	Duiker	Grazing
5.	6 th Dec	Kimburiria Arae	1	-	-	-	37M0327882	UTM0007342	0850hrs	*Bee harvested	From Red cedar trees
	6 th Dec	Kimburiria Arae	10	-	-	3	37M0327773	UTM0007231	0920hrs	Sykes monkey	Climbing trees
	6 th Dec	Kimburiria Arae	2	-	-	-	37M0327773	UTM0007231	1002hrs	Elephant dung	Fresh
	6 th Dec	Kimburiria Arae	18	9	5	4	37M0327560	UTM0007090	1046hrs	Elephant	Breaking trees
	6 th Dec	Kimburiria Arae	7	2	3	2	37M0327408	UTM0007215	1120hrs	Warthog	Resting

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES		TIME	SPECIES	NOTES
	6 th Dec	Kimburiria Arae	1	1	-	-	37M0327682	UTM0007590	1147hrs	Waterbuck	Playing
	6 th Dec	Kimburiria Arae	2	1	1	-	37M0327955	UTM0007291	1223hrs	Baboon	Resting
	6 th Dec	Kimburiria Arae	7	-	-	-	37M0327087	UTM0005520	1350hrs	Sykes monkey	Calling
	6 th Dec	Kimburiria Arae	7	-	-	-	37M0327856	UTM0006992	1438hrs	Colobus monkey	Jumping
	6 th Dec	Kimburiria Arae	2	1	-	1	37M0326452	UTM0005661	1540hrs	Waterbuck	Resting
6.	7 th Dec	Kisima Forest	9	2	4	3	37M0322872	UTM0006889	0820hrs	Waterbuck	Grazing
	7 th Dec	Kisima Forest	1	1	-	-	37M0324833	UTM0005783	0849hrs	Elephant	Walking
	7 th Dec	Kisima Forest	2	1	1	-	37M0327087	UTM0005520	0920hrs	Baboon	Grazing
	7 th Dec	Kisima Forest	10	-	-	3	37M0328099	UTM0007619	0939hrs	Sykes monkey	Climbing
	7 th Dec	Kisima Forest	15	-	-	4	37M0327955	UTM0007291	1033hrs	Zebra	Resting
	7 th Dec	Kisima Forest	1	-	-	-	37M0324831	UTM0004846	1049hrs	Suni	Resting
	7 th Dec	Kisima Forest	20	-	-	7	37M0324343	UTM0004876	1100hrs	Bushbuck	Calling
	7 th Dec	Kisima Forest	1	-	-	-	37M0323467	UTM0004973	1122hrs	Buffalo	Grazing
	7 th Dec	Kisima Forest	6	1	1	4	37M0323718	UTM0005717	1230hrs	Warthog	Grazing
	7 th Dec	Kisima Forest	1	-	-	-	37M0323452	UTM0004734	1320hrs	Porcupine	Digging up roots
	7 th Dec	Kisima Forest	2	1	1	-	37M0324764	UTM0006340	1450hrs	Mountain reedbuck	Resting
7.	8 th Dec	Marania Forest	50	18	-	-	37M0327958	UTM0006472	0821hrs	Cattle	Grazing
	8 th Dec	Marania Forest	30	12	10	8	37M0327923	UTM0000361	0837hrs	Sheep	Grazing
	8 th Dec	Marania Forest	11	-	-	-	37M0327958	UTM0006472	0850hrs	Sykes monkey	Climbing
	8 th Dec	Marania Forest	17	-	-	4	37M0327959	UTM0006425	0949hrs	Bushbuck	Resting
	8 th Dec	Marania Forest	8	1	7	-	37M0327955	UTM0007267	1020hrs	Elephant	Breaking trees
	8 th Dec	Marania Forest	7	-	-	-	37M0328439	UTM0007726	1049hrs	Zebra	Grazing
	8 th Dec	Marania Forest	1	-	-	-	37M0327449	UTM0006513	1130hrs	Elephant dung	Fresh
	8 th Dec	Marania Forest	6	4	1	1	37M0327981	UTM0006694	1210hrs	Elephant	Playing

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES		TIME	SPECIES	NOTES
	8 th Dec	Marania Forest	2	1	1	-	37M0327973	UTM0007352	1350hrs	Baboon	Resting
	8 th Dec	Marania Forest	10	-	-	3	37M0327909	UTM0007090	1420hrs	Sykes monkey	Resting
	8 th Dec	Marania Forest	13	-	-	5	37M0325283	UTM0016620	1541hrs	Colobus monkey	Jumping
8.	9 th Dec	Charlie Area	100	44	49	17	37M0328404	UTM0007511	0820hrs	Cattle	Grazing
	9 th Dec	Charlie Area	20	8	7	5	37M0328753	UTM0006451	0849hrs	Cattle	Grazing
	9 th Dec	Charlie Area	17	-	-	4	37M0324407	UTM0006354	0947hrs	Sykes monkey	Resting
	9 th Dec	Charlie Area	18	3	-	3	37M0326559	UTM0007184	1011hrs	Bushbuck	Jumping
	9 th Dec	Charlie Area	3	-	-	-	37M0325674	UTM0007295	1040hrs	Colobus monkey	Climbing
	9 th Dec	Charlie Area	20	-	-	5	37M0325257	UTM0007460	1130hrs	Zebra	Grazing
	9 th Dec	Charlie Area	7	5	2	-	37M0324246	UTM0009394	1220hrs	Eland	Grazing
	9 th Dec	Charlie Area	2	1	1	-	37M0327465	UTM0006313	1350hrs	Baboon	Resting
	9 th Dec	Charlie Area	1	1	-	-	37M0326434	UTM0004743	1429hrs	Mountain reedbuck	Running
	9 th Dec	Charlie Area	1	-	-	-	37M0325283	UTM0006620	1501hrs	Hyrax	Resting
9 th Dec	Charlie Area	3	2	1	1	37M0324597	UTM0003874	1549hrs	Leopard	Walking	
9..	10 th Dec	Corridor Area	5	-	-	-	37M0328379	UTM0008137	0840hrs	Sykes monkey	Jumping
	10 th Dec	Corridor Area	11	3	9	-	37M0328489	UTM0008296	0929hrs	Eland	Resting
	10 th Dec	Corridor Area	9	1	7	1	37M0328357	UTM0007937	1000hrs	Waterbuck	Grazing
	10 th Dec	Corridor Area	1	1	-	-	37M0328893	UTM0008437	1109hrs	Baboon	Resting
	10 th Dec	Corridor Area	6	1	1	4	37M0328893	UTM0009576	1214hrs	Warthog	Running
	10 th Dec	Corridor Area	2	1	1	-	37M0328996	UTM0008940	1302hrs	Baboon	Resting
	10 th Dec	Corridor Area	3	1	1	1	37M0329423	UTM0000838	1330hrs	Baboon	Playing
	10 th Dec	Corridor Area	2	1	1	-	37M0328803	UTM0009434	1420hrs	Elephant	Walking
	10 th Dec	Corridor Area	1	-	-	-	37M0328270	UTM0009770	1445hrs	Elephant dung	Fresh dung
	10 th Dec	Corridor Area	1	1	-	-	37M0328742	UTM0009387	1502hrs	Baboon	Resting

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES		TIME	SPECIES	NOTES
	10 th Dec	Corridor Area	1	-	-	-	37M0328876	UTM0009614	1549hrs	Hyrax	Hiding in hole
Gre z	11 th Dec	Mlima Ngaita	30	13	11	7	37M0328471	UTM0007154	0800hrs	Cattle	Grazing
	11 th Dec	Mlima Ngaita	10	-	-	10	37M0328116	UTM0006766	0840hrs	Cattle	Grazing
	11 th Dec	Mlima Ngaita	11	-	-	3	37M0326746	UTM0007220	0927hrs	Sykes monkey	Climbing
	11 th Dec	Mlima Ngaita	20	7	-	4	37M0327748	UTM0005566	1013hrs	Bushbuck	Blitting
	11 th Dec	Mlima Ngaita	16	-	-	7	37M0324831	UTM0004846	1023hrs	Zebra	Grazing
	11 th Dec	Mlima Ngaita	7	1	5	1	37M0322434	UTM0004952	1055hrs	Waterbuck	Grazing
	11 th Dec	Mlima Ngaita	5	2	3	-	37M0323848	UTM0004710	1119hrs	Eland	Grazing
	11 th Dec	Mlima Ngaita	11	-	-	4	37M0324389	UTM0003220	1220hrs	Zebra	Grazing
	11 th Dec	Mlima Ngaita	2	1	1	-	37M0325186	UTM0006438	1340hrs	Eland	Mating
	11 th Dec	Mlima Ngaita	1	1	-	-	37M0326606	UTM0007209	1441hrs	Baboon	Resting
	11 th Dec	Mlima Ngaita	1	-	1	-	37M0325194	UTM0000794	1530hrs	Duiker	Grazing
11.	12 th Dec	Embori Area	30	-	-	-	37M0321258	UTM0003427	0950hrs	Zebra	Grazing
	12 th Dec	Embori Area	20	-	-	-	37M0320459	UTM0003144	1045hrs	Zebra	Grazing
	12 th Dec	Embori Area	1	-	-	-	37M0329849	UTM0002984	1130hrs	Duiker	Resting
	12 th Dec	Embori Area	2	-	-	-	37M0329476	UTM0003139	1200hrs	Dogs	Dogs lost direction
	12 th Dec	Embori Area	1	-	-	-	37M0329010	UTM0003252	1249hrs	Cave	Where poachers rest
	12 th Dec	Embori Area	4	-	-	-	37M0328703	UTM0003405	1440hrs	Buffalo	Grazing
	12 th Dec	Embori Area	1	1	-	-	37M0328613	UTM0003455	1520hrs	Elephant	Walking
	12 th Dec	Embori Area	2	-	-	-	37M0327898	UTM0004565	1645hrs	Dogs	Barking
	12 th Dec	Embori Area	2	1	1	-	37M0327780	UTM0004848	1710hrs	Baboon	Resting
12.	16 th Dec	Corridor Area	7	4	3	-	37M0328431	UTM0009964	0800hrs	Elephant	Grazing
	16 th Dec	Corridor Area	11	1	10	-	37M0328836	UTM0009870	0940hrs	Waterbuck	Grazing
	16 th Dec	Corridor Area	9	2	6	1	37M0328801	UTM0009630	1020hrs	Eland	Grazing

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES		TIME	SPECIES	NOTES
	16 th Dec	Corridor Area	1	1	-	-	37M0328892	UTM0008405	1102hrs	Baboon	Grazing
	16 th Dec	Corridor Area	1	-	-	-	37M0328710	UTM0008377	1140hrs	*Elephant dung	Old
	16 th Dec	Corridor Area	3	1	-	-	37M0328382	UTM0008334	1210hrs	Sykes monkey	Climbing and resting
	16 th Dec	Corridor Area	12	4	5	3	37M0328042	UTM0008020	1233hrs	Bushbuck	Calling and playing
	16 th Dec	Corridor Area	2	1	1	-	37M0328524	UTM0008313	1240hrs	Warthog	Digging searching for roots
	16 th Dec	Corridor Area	1	1	-	-	37M0328529	UTM0008313	1320hrs	Reedbuck	Calling
	16 th Dec	Corridor Area	3	-	-	-	37M0328379	UTM0008137	1450hrs	Sykes monkey	Resting
	16 th Dec	Corridor Area	2	-	1	1	37M0328362	UTM0008307	1459hrs	Suni	Grazing
13.	17 th Dec	Rutundu Area	-	-	-	-	37M0329639	UTM9995658	0840hrs	*Poacher presence	Markings
	17 th Dec	Rutundu Area	3	-	-	-	37M0330068	UTM9995478	0919hrs	Eland	Resting
	17 th Dec	Rutundu Area	10	-	-	2	37M0330068	UTM9995478	0920hrs	Zebra	Resting
	17 th Dec	Rutundu Area	1	-	-	-	37M0330399	UTM9995443	0940hrs	*Honey harvested	Illegal
	17 th Dec	Rutundu Area	1	-	-	-	37M0330434	UTM9995558	0950hrs	*Cave	Used by poachers
	17 th Dec	Rutundu Area	3	-	-	-	37M0330606	UTM9995454	1002hrs	*Jackets and caps	Left by poachers
	17 th Dec	Rutundu Area	1	1	-	-	37M0330699	UTM9995636	1140hrs	Suni	Resting
	17 th Dec	Rutundu Area	1	-	-	-	37M0331354	UTM9996668	1250hrs	Honey harvested	Honey harvested
	17 th Dec	Rutundu Area	30	-	-	5	37M0331358	UTM9996734	1320hrs	Zebra	Grazing
	17 th Dec	Rutundu Area	20	-	-	4	37M0331814	UTM9997170	1450hrs	Eland	Grazing
	17 th Dec	Rutundu Area	40	-	-	9	37M0330542	UTM9995610	1547hrs	Sykes monkey	Resting and calling
14.	19 th Dec	Marania Forest	5	1	1	3	37M0328267	UTM0007536	0830hrs	Warthog	Running
	19 th Dec	Marania Forest	36	12	18	10	37M0328116	UTM0007369	0849hrs	Cattle	Grazing
	19 th Dec	Marania Forest	18	8	8	2	37M0328040	UTM0007065	0940hrs	Elephant	Grazing
	19 th Dec	Marania Forest	1	1	-	-	37M0328102	UTM0006882	1020hrs	Baboon	Resting
	19 th Dec	Marania Forest	40	21	13	6	37M0328092	UTM0005457	1040hrs	Elephant	Grazing

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES		TIME	SPECIES	NOTES
	19 th Dec	Marania Forest	4	-	-	1	37M0327381	UTM0005748	1100hrs	Sykes monkey	Jumping
	19 th Dec	Marania Forest	20	9	7	4	37M0327508	UTM0006751	1149hrs	Bushbuck	Calling
	19 th Dec	Marania Forest	16	-	-	7	37M0328007	UTM0006249	1230hrs	Colobus monkey	Jumping
	19 th Dec	Marania Forest	3	1	1	1	37M0328456	UTM0007175	1342hrs	Baboon	Playing and chasing each other
	19 th Dec	Marania Forest	1	1	-	-	37M0327957	UTM0006940	1447hrs	Waterbuck	Running
	19 th Dec	Marania Forest	20	-	-	7	37M0326513	UTM0005000	1513hrs	Zebra	Grazing
15.	20 th Dec	Chemi Chemi	40	18	19	3	37M0327901	UTM0006321	0930hrs	Cattle	Grazing
	20 th Dec	Chemi Chemi	19	-	-	7	37M0327931	UTM0005801	0957hrs	Sykes monkey	Grazing
	20 th Dec	Chemi Chemi	12	2	6	4	37M0327890	UTM0005681	1041hrs	Elephant	Grazing
	20 th Dec	Chemi Chemi	17	7	8	2	37M0327844	UTM0005482	1107hrs	Elephant	Grazing
	20 th Dec	Chemi Chemi	27	-	-	4	37M0327758	UTM0005368	1230hrs	Zebra	Grazing
	20 th Dec	Chemi Chemi	7	1	4	2	37M0327616	UTM0005331	1247hrs	Waterbuck	Grazing
	20 th Dec	Chemi Chemi	2	1	1	-	37M0327748	UTM0005566	1340hrs	Baboon	Resting
	20 th Dec	Chemi Chemi	10	-	-	4	37M0327959	UTM0006425	1429hrs	Zebra	Heading to a water point
	20 th Dec	Chemi Chemi	1	1	-	-	37M0327786	UTM0006293	1530hrs	Sykes monkey	Grazing
16.	22 nd Dec	Marania /Rutundu	50	21	17	12	37M0327075	UTM0005529	0830hrs	Cattle	Grazing
	22 nd Dec	Marania /Rutundu	13	7	4	2	37M0326728	UTM0005620	0910hrs	Elephant	Breaking trees
	22 nd Dec	Marania /Rutundu	17	-	-	4	37M0325970	UTM0005408	0949hrs	Colobus monkey	Jumping
	22 nd Dec	Marania /Rutundu	20	-	-	8	37M0324833	UTM0004065	1030hrs	Baboon	Calling
	22 nd Dec	Marania /Rutundu	1	-	1	-	37M0324367	UTM0003292	1120hrs	Suni	Feeding
	22 nd Dec	Marania /Rutundu	2	1	1	-	37M0324319	UTM0003233	1209hrs	Duiker	Grazing
	22 nd Dec	Marania /Rutundu	20	-	-	9	37M0324460	UTM0001947	1250hrs	Zebra	Grazing
	22 nd Dec	Marania /Rutundu	3	1	1	1	37M0323983	UTM0000470	1340hrs	Leopard	Walking
	22 nd Dec	Marania /Rutundu	30	-	-	8	37M0324777	UTM9998554	1449hrs	Zebra	Grazing

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES		TIME	SPECIES	NOTES
	22 nd Dec	Marania /Rutundu	11	5	5	1	37M0327552	UTM9996884	1520hrs	Eland	Grazing
	22 nd Dec	Marania /Rutundu	8	4	2	2	37M0327552	UTM9996884	1525hrs	Eland	Grazing
17.	23 rd Dec	Rutundu Area	5	-	-	1	37M0329636	UTM9995074	0840hrs	Eland	Grazing
	23 rd Dec	Rutundu Area	1	1	-	-	37M0339890	UTM9994400	0930hrs	Buffalo	Grazing
	23 rd Dec	Rutundu Area	8	-	-	3	37M0330290	UTM9994228	0957hrs	Zebra	Grazing
	23 rd Dec	Rutundu Area	1	1	-	-	37M0330784	UTM9994198	1041hrs	*Skeleton of Eland	Fresh
	23 rd Dec	Rutundu Area	1	-	-	-	37M0331280	UTM9993868	1050hrs	Leopard	Resting
	23 rd Dec	Rutundu Area	11	-	-	4	37M0331361	UTM9993796	1142hrs	Eland	Grazing
	23 rd Dec	Rutundu Area	9	-	-	2	37M0331361	UTM9993796	1230hrs	Zebra	Grazing
	23 rd Dec	Rutundu Area	1	1	-	-	37M0330727	UTM9994268	1320hrs	Duiker	Grazing
	23 rd Dec	Rutundu Area	3	1	2	-	37M0322990	UTM9994368	1450hrs	Buffalo	Grazing
	23 rd Dec	Rutundu Area	2	2	-	-	37M0329797	UTM9994314	1459hrs	Buffalo	Grazing
	23 rd Dec	Rutundu Area	6	-	-	3	37M0329545	UTM9994734	1520hrs	Zebra	Rolling for a dust bath
18.	25 th Dec	Rutundu Area	1	1	-	-	37M0328727	UTM9995410	0840hrs	Duiker	Grazing
	25 th Dec	Rutundu Area	8	-	-	3	37M0329354	UTM9995054	0920hrs	Zebra	Resting
	25 th Dec	Rutundu Area	15	-	-	4	37M0329885	UTM9995134	1001hrs	Zebra	Walking
	25 th Dec	Rutundu Area	13	-	-	1	37M0329885	UTM9995134	1050hrs	Eland	Grazing
	25 th Dec	Rutundu Area	2	-	1	1	37M0329976	UTM9995030	1130hrs	Zebra	Running
	25 th Dec	Rutundu Area	1	-	1	-	37M0329969	UTM9994914	1250hrs	Duiker	Resting
	25 th Dec	Rutundu Area	2	-	-	-	37M0329767	UTM9994762	1320hrs	Eland	Resting
	25 th Dec	Rutundu Area	1	1	-	-	37M0329696	UTM9994764	1450hrs	Baboon	Feeding
	25 th Dec	Rutundu Area	1	1	-	-	37M0329093	UTM9994998	1520hrs	Duiker	Running
	25 th Dec	Rutundu Area	10	-	-	3	37M0329990	UTM9994368	1540hrs	Zebra	Grazing
	25 th Dec	Rutundu Area	17	7	-	-	37M0329891	UTM9994734	1602hrs	Eland	Grazing

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES		TIME	SPECIES	NOTES
19.	28 th Dec	Marania Area	12	5	3	4	37M0328135	UTM0009231	0820hrs	Cattle	Grazing
	28 th Dec	Marania Area	7	1	3	3	37M0328202	UTM0007562	0853hrs	Sheep	Grazing
	28 th Dec	Marania Area	9	2	4	3	37M0328060	UTM0007461	0930hrs	Warthog	Running
	28 th Dec	Marania Area	19	8	8	3	37M0328010	UTM0007379	0954hrs	Elephant	Grazing
	28 th Dec	Marania Area	1	-	-	-	37M0327900	UTM0007299	1030hrs	*Elephant dung	About a week old
	28 th Dec	Marania Area	13	-	-	4	37M0327515	UTM0007231	1103hrs	Sykes monkey	Calling
	28 th Dec	Marania Area	9	-	-	-	37M0327313	UTM0007175	1149hrs	Colobus monkey	Climbing
	28 th Dec	Marania Area	-	-	-	-	37M0327234	UTM0007176	1230hrs	*Salt lick	In muddy area
	28 th Dec	Marania Area	2	1	1	-	37M0327959	UTM0006425	1350hrs	Waterbuck	Grazing in <i>Hagenia</i> forest
	28 th Dec	Marania Area	1	1	-	-	37M0327289	UTM0005608	1420hrs	Baboon	Calling
	28 th Dec	Marania Area	11	-	-	1	37M0327465	UTM0006313	1540hrs	Sykes monkey	Jumping
20.	29 th Dec	Corridor Area	3	1	1	1	37M0328175	UTM0009231	0800hrs	Waterbuck	Grazing
	29 th Dec	Corridor Area	1	1	-	-	37M0328331	UTM0007925	0830hrs	Baboon	Grazing
	29 th Dec	Corridor Area	7	-	-	-	37M0328378	UTM0008073	0909hrs	Francolin	Resting
	29 th Dec	Corridor Area	12	4	5	3	37M0328450	UTM0008273	1040hrs	Eland	Grazing
	29 th Dec	Corridor Area	5	2	3	-	37M0328782	UTM0008391	1120hrs	Elephant	Grazing
	29 th Dec	Corridor Area	3	-	-	-	37M0328760	UTM0009429	1159hrs	*Elephant dung	Fresh
	29 th Dec	Corridor Area	5	1	1	3	37M0328656	UTM0000955	1240hrs	Warthog	Running
	29 th Dec	Corridor Area	1	-	-	-	37M0329292	UTM0000534	1320hrs	Hare	Resting
	29 th Dec	Corridor Area	2	-	-	-	37M0329420	UTM0003800	1420hrs	Eagle	Flying
	29 th Dec	Corridor Area	2	1	1	-	37M0329220	UTM0001196	1530hrs	Reedbuck	Grazing
	29 th Dec	Corridor Area	1	1	-	-	37M0328803	UTM0001021	1544hrs	Bushbuck	Resting
21.	30 th Dec	Marania forest	70	40	17	13	37M0327979	UTM0007680	0800hrs	Cattle	Grazing
	30 th Dec	Marania forest	20	8	7	-	37M0328439	UTM0007394	0830hrs	Cattle	Grazing

#	DATE	LOCALITY	NO. OF ___ PER GROUP				COORDINATES		TIME	SPECIES	NOTES
	30 th Dec	Marania forest	2	-	-	-	37M0328360	UTM0007587	0940hrs	*Zebra dung	Fresh dung
	30 th Dec	Marania forest	2	1	1		37M0327194	UTM0009176	1030hrs	Waterbuck	Grazing
	30 th Dec	Marania forest	8	-	-	3	37M0327049	UTM0007225	1120hrs	Colobus monkey	Climbing trees
	30 th Dec	Marania forest	9	6	3	-	37M0327054	UTM0007266	1140hrs	Elephant	Breaking down trees
	30 th Dec	Marania forest	1	1	-	-	37M0326754	UTM0007196	1210hrs	Baboon	Calling
	30 th Dec	Marania forest	30	7	12	11	37M0326642	UTM0007168	1240hrs	Bushbuck	Jumping
	30 th Dec	Marania forest	3	1	1	1	37M0326642	UTM0007168	1320hrs	Waterbuck	Running
	30 th Dec	Marania forest	13	-	-	3	37M0326376	UTM0007167	1430hrs	Sykes monkey	Climbing
	30 th Dec	Marania forest	2	1	1	-	37M0326007	UTM0007148	1540hrs	Reedbuck	Grazing
22.	31 st Dec	Chemi Chemi	10	4	3	3	37M0326020	UTM0006857	0830hrs	Cattle	Grazing
	31 st Dec	Chemi Chemi	5	3	2	-	37M0324389	UTM0006967	0940hrs	Elephant	Walking
	31 st Dec	Chemi Chemi	11	-	-	4	37M0326886	UTM0007527	1020hrs	Bushbuck	Running
	31 st Dec	Chemi Chemi	1	1	-	-	37M0326606	UTM0007209	1049hrs	Baboon	Resting
	31 st Dec	Chemi Chemi	3	1	2	-	37M0327786	UTM0006293	1130hrs	Elephant	Breaking trees
	31 st Dec	Chemi Chemi	13	-	-	4	37M0327786	UTM0006293	1149hrs	Zebra	Running
	31 st Dec	Chemi Chemi	8	1	4	3	37M0327748	UTM0005566	1250hrs	Waterbuck	Grazing
	31 st Dec	Chemi Chemi	7	-	-	1	37M0327317	UTM0006553	1259hrs	Sykes monkey	Resting
	31 st Dec	Chemi Chemi	3	-	-	-	37M0327946	UTM0006214	1330hrs	Zebra	Resting
	31 st Dec	Chemi Chemi	1	1	-	-	37M0327863	UTM0006917	1442hrs	Duiker	Resting
	31 st Dec	Chemi Chemi	11	-	-	3	37M0327858	UTM0006377	1549hrs	Colobus monkey	Resting



