

MONTHLY REPORT:

NOVEMBER 2018

SUMMARY - AERIAL & GROUND ACTIVITIES (“Big Tusker Project”):

Activity	Hours Flown	Kilometers Covered
Aerial Reconnaissance	60 (793 for year) Average 119km p/h of low-level flight	7,179 (93,094km for year) Flights carried out jointly with KWS staff
	Field Patrol Days	Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 89 days (798 to date) Monitoring teams: 48 days (450 to date)	Protection teams: 7,466 km (81,429 to date) Monitoring teams: 6,648 km (62,454 to date)
	No. Observed	
Big “Tuskers”	20 Tuskers - 6 Super Tusker bulls, 14 emerging Tusker bulls	
	No. Recovered	
Ivory recovered	12 elephant tusks (113 for year to date) – (largest tusk 38kg / 84lbs)	
Elephant carcasses	Fresh (less than 3 weeks old)	Recent (less than 3 months old)
	1 – (natural c of d)	3 (All natural)
Ele. Carcasses/hrs flown	1 every 15 hours of flight	
Poacher camps/hides	Fresh - 3	Recent - 1
Arrests	3 – by KWS / TT – (1 ivory dealer, 2 with birds of prey - 38 to date 2018)	
Snares/traps recovered	33 (by Tembo Teams – 798 for year to date)	
Response/support to KWS - armed incidents	Nil	
	69 cattle bomas (22,000 + cows, 14,000 shoats, 119 people)	
Written reports to KWS	47 (daily email reports, various communications & 1 monthly report)	
General & significant notes	- Some decent rain in southern parts of TCA in November18 - TT’s Joseph Kyalo Kimaile has completed his Private Pilot’s License training in Nairobi over the last 7 months and passed with 46.6 hours. A great effort and we are very proud to have another pilot on the TT team - Ongoing support to KWS / STE in locating collared elephants in TCA - Aerial & ground support to Rhino Program in TWNP & TENP, via ongoing partnership with KWS / ZSL. 6 rhino specific recce flights (19hrs) carried out with KWS	



This photo shows Tsavo Trust’s first employee – Mwangangi Koti (TT HQ Foreman & driver) standing by a fibre glass replica mould of the late TWNP well known Tusker called “Kamboyo 1” who passed away in February 2017 of old age.

KWS kindly gave Tsavo Trust permission to make 3 exact replicas in fibre glass of this magnificent elephant (1 set will be donated to KWS TWNP) and this set shown here is on display at Tsavo Trust HQ.

Kamboyo was well known to KWS & Tsavo Trust having been first recorded in the Big Tusker data base in March 2013. He had been sighted on average once every 15 days between March13 and Feb17.

WILDLIFE CONSERVATION PROGRAM:

“Big Tusker Project”- aerial and ground mobile teams:

Tsavo Trust’s Big Tusker Project (BTP) recorded the following details in the BTP database:

- Total of 20 different individual Tusker’s were observed from ground and air coverage.
- 6 bull Super Tuskers – 23 different sightings.
- 14 Emerging bull Tuskers – 27 sightings.
- Iconic cow Tusker – Nil
- **Total sightings – 50.**
- **Weather conditions:** TT HQ rainfall: **43.5mm**. Total rainfall at Tsavo Trust HQ to date: **498mm** in 2018.
- **Elephant mortality: 4 carcasses located (1 fresh, 3 recent):** C of D – all natural.
- **Rhino security:** Regular aerial recces in support of KWS over TWNP rhino areas in partnership with ZSL. 6 rhino specific air recces resulted in 2,293km flown over 19 hrs (5 TW & 1 TE).
- **Collared Elephant:** Ongoing monitoring from ground and air taking place by KWS / TT teams.

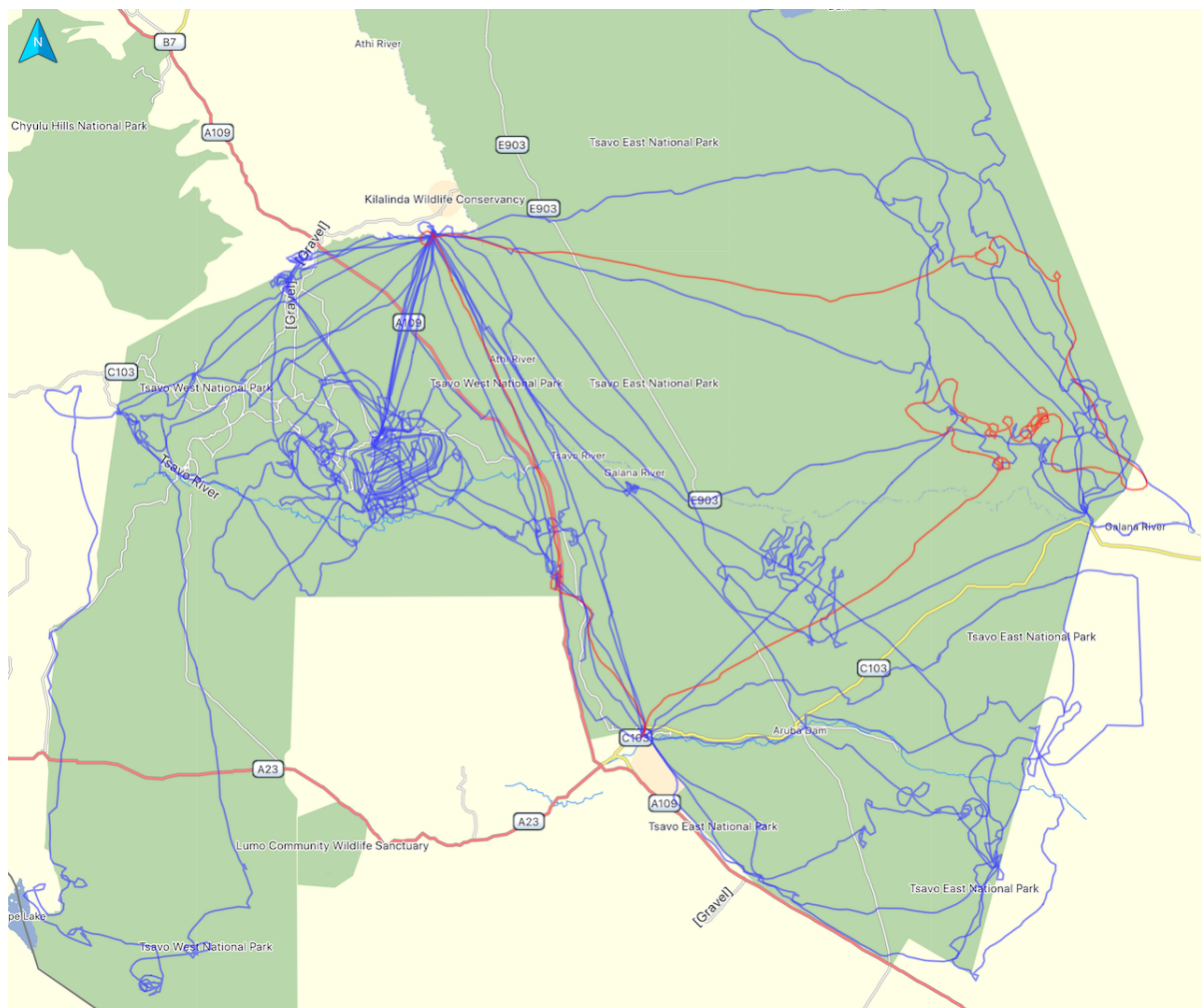
Table 1: Shows “Tusker” code, number of times observed during month and brief remarks.

Tusker Code	No. Times Seen / Month	Brief Remarks
BULLS		
LU1	3	In good health, normal location
WS1	7	Back to original location
MU1	7	Normal location
KO1	2	Back to original area found, not seen for last 9 months
IL1	2	Back to normal location, but looking old and slow
SH1	2	Moving to unsafe location
EM1	1	Back to original location
BU1	3	Back to normal location
KI1	6	Back to normal location
BL1	2	Normal location
SO1	1	Back to original location
CH1	1	Normal location
MM1	3	Normal location
MG1	2	Moves around a lot
DR1	2	Back to original location
GO1	2	Normal location
KM2	1	Moves around a lot
KU1	1	Back to normal location
LA1	1	Back to original location
FH1	1	Normal location
COWS		
Nil	-	
TOTAL	20 bulls & Nil cows: 50 different sightings	
Close working relationship between KWS and Tsavo Trust (aerial and ground units combined) is without doubt adding to elephant security and safety of the big Tuskers and other elephants within the TCA through meaningful collaboration alongside KWS Security and Research & Monitoring Departments.		

Areas Covered: Table 2: Shows the main areas covered within the TCA for this month:

TSAVO EAST NP	TSAVO WEST NP	RANCHES & DISPERSAL AREAS
Northern Area – Yatta Plateau, Durusikale, Garasamuke, Emusaya, Golf Charlie, Koitu, Sobo, Sangayaya, Dabaduke, Mufupa ya Ndovu, Tiva River, Ndiandaza, Ya Kalicha, Roka, Gazi Southern Area – Voi, Ndololo, Kanderi, Wagalla, Ndara Plains, Buchuma, Maungu, Murondo, Dakota, Voi River, Dika Plains, Satao, power lines, Aruba, Mukuaju, Dika, Konu Moja, Dida Harea, Balguda, Sala, Lali, Sobo, TENP boundary, Koitu, Galana River Central Area – TE R/S, IPZ, Manyani east, Punda Milia, Hatulo Bisani, Lugards, Mbololo lugga, Balguda, Irima, Mudanda, Maka Hill, Man-eaters, Triangle, Mtito Lugga, Zero Delta, Voi north & east, Galana River, Tsavo River and Yatta Central, SGR	Northern Sector – IPZ, Mangalet, Kamboyo, Kisimeka, Chyulu south, Mtito lugga, Mungai Hill, Finch Hattons, Mzima Springs, Shetani volcano, Severin, Kilaguni, Ndawe, Tsavo River Southern Sector – Murka, Maktau, Ziwani, Serengeti plains, Kanjaro, TZ / Kenya border Central Sector – IPZ, Rhino Valley, NRS, Tsavo River, Kinyek, Maji ya Chumvi (north & south), Ziwani, Lesoito, Kyulu, Manda, Kishushe, Murka, Mombasa Highway, Man Easters, Kenani, Kanga, Manyani north and west, SGR line	TENP border – Ngiluni/Kamunyu, Kulalu, Dere, Murondo, Magram/Dakota Ranch, KMC, Ngutuni, Shirango, Kilifi & Galana Ranch TWNP border – Rombo, Ziwani, Salaita Chyulu Hills NP - Nil Taita Ranches - Lualenyi
- The locations mentioned above is only an indicator of flight paths taken, many other areas in between are also covered and in so doing providing “eyes in the skies” over Tsavo and directional guidance to ground units. - All flight paths are logged and recorded with all relevant real-time observations relayed to KWS on a daily basis for their records as well as necessary rapid reaction.		

- Map below shows Tsavo Trust’s flight paths (2 aircraft) over the TCA in November 2018. The red path is for aircraft 5Y TTZ and the blue for 5Y NRF. 60 hours flown covering 7,179 kilometers over Tsavo in support of KWS: **Air & ground activities; Big Tusker monitoring; Locating illegal activities; Wildlife monitoring; Aerial census and tracking.**



Field Mobile Units:

Tsavo Trust's mobile field teams work alongside KWS, who take the lead role, on a daily basis. **Tembo 1, 3, 5 teams & Kamungi Scouts** are habitat protection / de-snaring focused whilst **Tembo 2 & 4 teams** are wildlife monitoring based. All teams provide further "eyes and ears on the ground".

Habitat Protection / De-snaring teams:

Table 7: Shows outcomes from field activities from Tembo 1, 3, 5 & Kamungi Scouts teams:

De-snaring teams	No. Field days	No. Arrest	No. Ivory recvd.	No. Snare recvd.	Bushmeat recvd.	Poachers equip. recvd.	No. Poacher camps	Vehicle mileage km
Tembo 1 (6 TT Scouts + 3 KWS Rangers)	29	Nil	Nil	31 18 for small game 13 medium game	Nil	Nil	Nil	2,412
Tembo 3 (6 TT Scouts + 3 KWS Rangers)	30	3 1 ivory dealer 5kg 2 with birds of prey	4	2 1 for small game 1 medium game	Nil	Cooking equip, 14kg marijuana	Nil	3,024
Tembo 5 / Kamungi 14 TT Scouts + 3 KWS Rangers	30	Nil	2	Nil	Nil	Nil	1	2,030
TOTALS	89	3	6	33	As above	As above	1	7,466
Total 2018	798	29	32	798	-	-	15	81,429

Monitoring & Evaluation teams:

Table 8: Shows activities carried out by Tembo 2 & 4 teams – research and monitoring:

Monitoring team	No. Field days	Activities	Endangered species records / sightings	Operating locations	Vehicle mileage km
Tembo 2 (3 TT staff + 2 KWS)	23	- Tusker monitoring - Hirola monitoring - Grevy's zebra monitoring - Carnivore monitoring - Carnivore scat collection for analysis – hair content - Mombasa/Nairobi - Road & SGR kill surveys - Camera trap surveys - Fixed point photos - Collared elephant reporting	- Tuskers – 14 sightings - Hirola – 19 sightings - Grevy's Zebra – 3 sightings - Large Carnivores – 4 - Road & Rail kills – 20 - Elephant carcasses – Nil - Rain gauge readings - Collared elephants – 11 - Carnivore scat collect - Nil	TENP, Ndololo, Kandechea, Kanderi, Aruba, Satao, Mukuaju, Voi, Kono Moju, Dida Harea, Ndara, Ngutuni, Dika plains, Bachuma, Dakota, Msa – Nbi road between Voi & Bachuma, KMC Ranch, Kupile Nek, Manyani, Irima, Mudanda, Ndii	4,188
Tembo 4 (2 TT staff + 2 KWS)	25	- Tusker monitoring - Rhino monitoring in IPZ - Carnivore monitoring - Mombasa/Nairobi - Road & SGR kill surveys - Rainfall data collection - Camera trap surveys - Fixed point photos - Collared elephant reporting	- Tuskers – 11 sightings - Rhino monitoring IPZ - NRS night census – Nil - Large Carnivores – 7 - Road & Rail kills – 9 - Elephant mortality - Nil - Rain gauge readings - Collared elephants – 3 - Kamungi Cons. Game census transects – 16 species	TWNP, Kamboyo, Mangalet, Kilaguni, Mungai, Poachers lookout, Kitani, old Chyulu gate, Mzima, Shetani, Finch H, Ziواني, Tsavo River, Rhodesia Hill, pipe line, Rhino Valley, Ndawe, Ngulia, Kenani, Kyulu, Manyani, IPZ, NRS	2,460
TOTALS	48	As above	As above	As above	6,648
Total 2018	450	-	-	-	62,454



***TENP Dakota Base
kitchen in May 2015 prior
to upgrade***

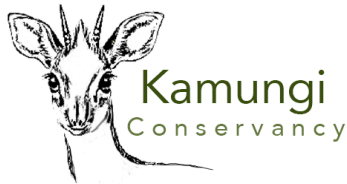


***TENP Dakota Base
kitchen / Mess building in
finishing stages -
November 2018***



***TENP Dakota Base – 1 of
2 three room Ranger
blocks in final stages of
completion – November
2018***

COMMUNITY CONSERVANCY PROGRAM:



- ✓ **Ongoing partnership between Tsavo Trust and Kamungi Conservancy (KC)** (bordering northern boundary of TENP – Triangle).
- ✓ **Employment:** Between Tsavo Trust and its partners 38 permanent staff and 23 casual staff were employed generating over \$ 10,000 (Ksh. 1,000,000) of income into Kamungi every month.
- ✓ **Kamungi Water Project:** 22,500 litres of water was issued from the water dispensing kiosk at Ngiluni Village. Each family is rationed to 60 litres per day.
- ✓ **Ngiluni Dispensary upgrade:** This project is in its final stages of completion with roof, water catchment gutters and 2 x 5,000 litre water tanks, verandah, new glass in all windows, re painting inside and out, new ceiling, electric fence around the 3-acre plot. Plumbing, solar electrics and water pipe delivery are in progress. It is planned to be completed by year end.

Photo shows Ngiluni Dispensary upgrade project at the end of November 2018. This total upgrade has been taking place over the last 4 months. The Kamungi Conservancy community members and local Ministry of Health are very grateful. The community are fully aware that the funds raised for this project have come “on the back of wildlife”.



- ✓ **HWC – Elephant Bee Fences** – 7 x 1-acre bee fences, total 105 bee hives with 20 currently occupied. Due to the poor rains in this area, the bees have not made the honey we had anticipated, and so selective harvesting will wait until early 2019.
- ✓ **HWC** – 56 cases were recorded around Kamungi Conservancy; mainly leopard killing livestock this month. HWC cases: 12 elephant cases, 4 hyenas, 28 Leopard, 9 lion and 3 zebra.
- ✓ **Kamungi Forestry Project** – Seedlings have been re planted and ongoing.
- ✓ **Snake anti-venom** – Supply for venomous snakes – Tsavo Trust partners with the James Ashe Anti-venom Trust (JAAT)/ Bio-Ken Snake Farm, Watamu who are the top-quality anti-venom suppliers. This month there were no cases attended to in our area of operations. (Tsavo Trust currently holds 4 vials for emergency use).
- ✓ **Wildlife Census Transects:** Set transects have been put in place to cover the core Kamungi Conservancy area and give base line data on wildlife trends. This takes place 2 times per month. 16 different species were identified this month.
- ✓ **Community Meetings:**
 - 21st Nov18 – Nthunguni Village meeting with M/Andei Chief, KWS & KC CLO re HWC.
 - 26th Nov18 – Nthunguni & Kyusiani villages with County Govt. Chief, KWS, KC CLO again re HWC mitigation measures and options. Elephants being the main concern.

“SHIRANGO CONSERVANCY”:

- ✓ ***Shirango community engagement*** – in its early days, but where a growing partnership between Tsavo Trust and the Watha communities of Shirango is fast evolving (although discussions have been ongoing for over 4 years). Through the CLO, employed by Tsavo Trust, this once alienated community is now starting to embrace the “Conservancy” concept and plans are underway to roll out further activities here including a water project (see below), employment (see below).
- ✓ ***Employment*** – Tsavo Trust employs 8 staff from this community including a Community Liaison Officer (CLO) to spear head activities. This equates to over \$ 1,600 (Ksh. 160,000) of income generation every month to this community as a result.
- ✓ ***Shirango Water Project:*** Following various meetings, initial phases of a water project (bore hole and solar pump) have taken place. Hydrological surveys took place on 24th and 25th September 2018 and since then EIA has been carried out. We now await NEMA approvals before going. 2 potential sites were located, as we await the final report. Once this is in hand applications for EIA and NEMA and local County Govt. approvals before going ahead. This project is being implemented to assist local people who have historically lived off elephants, bushmeat and other natural resources from the TENP, but now have an understanding that this water has come to them “from the elephants” and as a result it is hoped that with engagement with the Watha people here, elephant poaching and bushmeat will significantly reduce.
- ✓ ***Community Meetings:***
 - 20th Nov18 – Shirango meeting re bore hole Environmental Impact Assessment (EIA) for National Environment Management Agency (NEMA).

This aerial photo of the young Shirango Conservancy, bordering onto TENP southern boundary, clearly shows the potential for community participation in wildlife conservation activities given the intact habitat, the fact it borders the TENP and the keen interest that the Watha people of this area have displayed in their engagement with Tsavo Trust to take this project forward. To add to this, Shirango could become a very meaningful protective buffer in support of KWS along this once troubled boarder of the Park.



Unusual Photo of the Month:

Aerial photo shows a critically endangered (IUCN Red Listed) White Headed vulture (Trigonoceps Occipitalis) in TENP on 2nd November 2018. Tsavo Trust is taking an active role on documenting endangered raptors as we carry out aerial patrols in support to KWS over TCA.



With sincere thanks and appreciation to the Kenya Wildlife Service, Save The Elephants/Wildlife Conservation Network/Elephant Crisis Fund (ECF), US Fish & Wildlife Service, The Oak Foundation, USAid / DOI, Tusk Trust, Cheyenne Mountain Zoo, Leopardess Foundation (Nicole Honegger), JM Foundation Africa, Zoological Society of London (ZSL), Stuart Herd, Sir Colin Southgate, Nick Southgate, Alex Graham, Nick Powell, James Robertson, Markus Jebsen, Paul Block, The Kratt Family, International Fund for Animal Welfare (IFAW), The Davies Family, International Elephant Foundation (IEF), Disney/Wildlife Conservation Society (WCS), Ndovu Trust (UK), Mike Kirkland - Satao Camp & Southern Cross Safaris (Msa), Anita Mishra & Paolo Mapelli, Tropical Ice Ltd, Askari Project – Australia, Salama Fikira, Origins Safaris, Ker & Downey Safaris, Conservation Alpha, Scott Family Fdn., JW Seagon Insurance, The Art of BAS & Oak Furniture Land, Howard Saunders, Sandor Carter, Sean Dundas, Geri Bauer, Karen Laurence-Rowe, James Lewin, OnSafari-Kenya-Anthony Cheffings, Kathy Snowden, Saving the Survivors – Johan Marais, Chris Acreman, Paul & James Wilson, Alex Hunter – Insiders Africa, Spidertracks, Michael Cheffings, Pembroke House School and numerous other individual supporters.

Report compiled by Richard Moller – Chief Executive Officer, Tsavo Trust
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