

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

Activity	Hours Flown	Kilometers Covered
Aerial Reconnaissance	64 (414 for year) Average 111km p/h of low-level flight	7,001 (48,000km for year) Flights carried out jointly with KWS staff
	Field Patrol Days	Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 76 days (485 to date) Monitoring teams: 59 days (296 to date)	Protection teams: 9,232 km (49,078 to date) Monitoring teams: 7,112 km (37,728 to date)
	No. Observed	
Big “Tuskers”	14 Tuskers - 4 Super Tusker bulls, 8 emerging bulls, 2 cow Tuskers = 36 individual observations	
	No. Recovered	
Ivory recovered	4 elephant tusks (30 for year to date)	
Elephant carcasses	Fresh (less than 3 weeks old)	Recent (less than 3 months old)
	3 – (c of d: 1 poached, 1 unconfirmed, 1 natural)	1 (c of d: natural)
Poacher camps/hides	Fresh - Nil	Recent - Nil
Arrests	9 – by KWS / TT – (2 bushmeat, 4 illegal grazers, 2 charcoalers, 1 hardwood poacher - 26 to date 2019)	
Snares/traps recovered	28 (by Tembo Teams – 184 for year to date)	
Support to KWS-armed incidents	Nil	
Illegal Livestock (only in PA)	24 cattle bomas (15,850 + cows, 200 shoats, 25 people)	
Written reports to KWS	65 (daily email reports, various communications & 1 monthly report)	
General & significant notes	• Partner to KWS to assist in implementation of the TCA Management Plan 2019 – 2029 • Partner to KWS & ZSL in the Tsavo’s in line with KWS Rhino Strategy – RII Project • 7/6/19: TT Super Cub 5Y JAR deployed to Tsavo field work – replacing 5Y NRF • 8/6/19: successfully hit water at Shirango bore hole (2nd attempt)	



Finally hit water – Shirango Conservancy. Photo shows decent amounts of water coming from the 2nd attempt bore hole drilling on 8th June 2019.

This has been huge news for the Watha people of Shirango who are desperate for water.

The first attempt rendered a dry bore hole but 2nd time round we were lucky.

The important thing about this water is 2-fold:

- 1. The people of Shirango will soon have clean uncontaminated water closer at hand for domestic use only rather than walking or ferrying it in from several kilometers away.**
- 2. The community here totally understand that this water has come from the elephants – in that the deal is that the Shirango members will play a significant role in elephant protection (and with that all other wildlife) in this area – which has historically been a “hot spot” poaching zone. The funds raised for this water project are directly related to elephant protection with community benefits at the same time.**

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 14 different individual Tusker’s were observed from ground and air coverage.
- 4 bull Super Tuskers – 9 different sightings.
- 8 Emerging bull Tuskers – 23 sightings.
- 2 Iconic cow Tuskers – 4 sightings.
- **Total sightings – 36**
- **Weather conditions:** TT HQ rainfall: **Nil**. Total rainfall at Tsavo Trust HQ to date: **46.5mm**.
- **Elephant mortality: 4 carcasses located (3 fresh):** C of D – 1 poached, 1 unconfirmed, 2 natural.
- **Elephant treatment: Nil**
- **Rhino security:** Regular aerial recces with KWS over TWNP & TENP rhino areas in partnership with KWS / ZSL. 8 rhino specific air recces resulting in 2,571km flown over 22.5 hrs (7 TW & 1 TE).
- **Hirola monitoring:** Ongoing key stakeholder with KWS in line with Hirola Recovery Strategy.
- **Collared Elephant:** Ongoing – 36 observations (ground and air) by joint KWS / TT teams.
- **Carnivore monitoring:** Ongoing partner to KWS TCA Research for carnivore monitoring.
- **Critically Endangered Raptor monitoring:** Ongoing.

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

Tusker Code	No. Times Seen / Month	Brief Remarks
BULLS		
LU1	1	In good health, back to his regular dry season range
WS1	5	Ventured back outside of Park to a dangerous area. Has not learnt from his arrowing!
BA1	2	Settled back to his original dry season range
HA1	1	Not seen for last 9 months. Moved to new location
MM1	3	Normal location
SO1	1	Normal location
BL1	5	Normal location
SH1	3	In worrying location outside Park
TS1	4	Normal location
VO1	2	Same location
KI1	4	Back to normal location
EM1	1	Back to original dry season range
COWS		
F-DH1	3	Normal location
F-SG1	1	Normal location
TOTAL	12 bulls & 2 cows: 36 different sightings	
Close working relationship between KWS and Tsavo Trust (aerial and ground units) is without doubt adding to elephant security / safety of the big Tuskers and other elephants in Tsavo through meaningful and joint teamwork.		

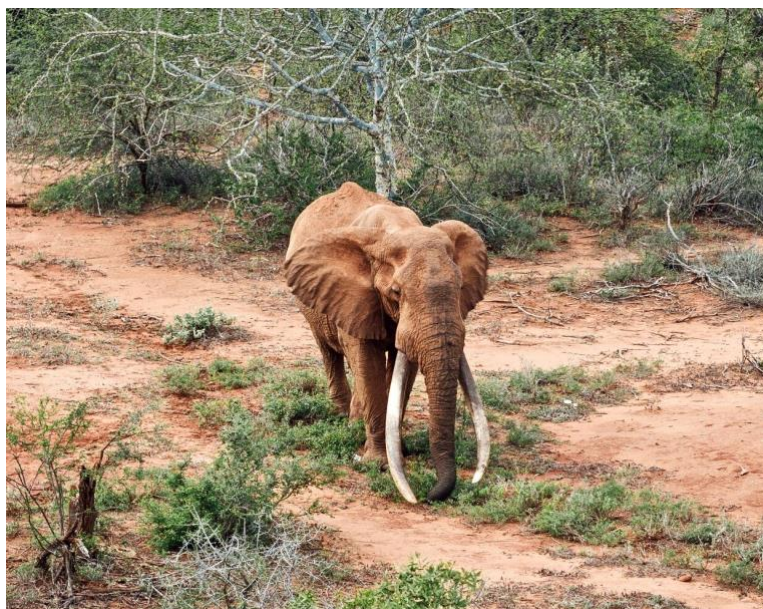


Photo shows one of Tsavo’s true super Tusker icons, coded LU1 on 1st June 2019.

Tsavo Trust named this bull and first recorded him in the TT / KWS Tusker data base 5½ years ago and has observed him once every 8 days on average ever since.

This regular monitoring of LU1 and presence of aircraft and field personnel has without doubt contributed to his overall safety during that time, thus highlighting the importance and value of the joint TT / KWS Big Tusker Project.

Aerial Reconnaissance - Areas Covered:

- This vital conservation tool provides “*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 over the TCA in June 2019. 64 hours flown covering 7,001 kilometers over Tsavo in support of KWS: Air & ground activities; Big Tusker monitoring; Locating illegal activities; Wildlife monitoring; Aerial census and tracking.

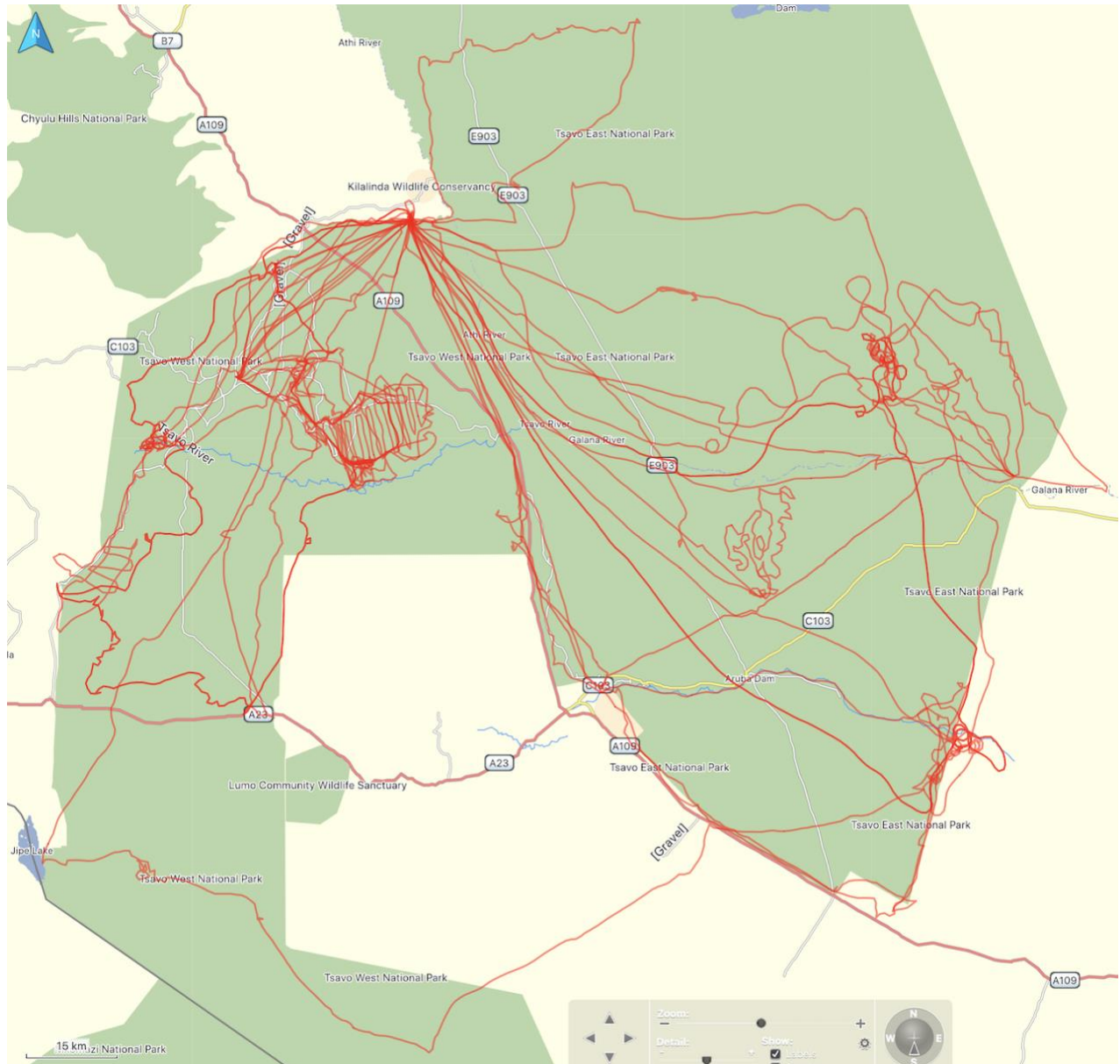




Photo shows some of the 400 impounded cattle by joint KWS / TT field teams in TWNP (Lesoit area) on 9th June 2019.

These are being held in a well-constructed cattle boma for court case evidence.

4 illegal herders were also arrested.



Photo shows 5 freshly poached Dikdiks recovered on 15th June 2019 on boundary of TENP / Murondo.

Ambushes were set for the escaped poacher and on 22nd June 2019 he was arrested along with 1 lesser kudu and 5 Dikdiks.

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	No. HWC Cases	Vehicle mileage km
Tembo 1 (TENP) (6 TT Scouts + 3 KWS Rangers)	30	1 Bushmeat poacher	2	23 17 for small game, 1 medium, 5 large	76kg 1 lesser kudu, 8 Dikdiks	1 panga, 2 spotlights, 1 lamping horn	Nil	Assisted KWS in putting out bushfire in TENP / Shirango boundary.	3,732
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	30	4 1 bushmeat, 2 charcoalers, 1 hardwood poacher	Nil	5 All for small game	Nil	1 axe, 1 spade, 1 jembe	Nil	Nil	2,940
Tembo 5 / Kamungi (TWNP) 14 TT Scouts + 3 KWS Rangers	16	4 Illegal cattle grazers	Nil	Nil	Nil	2 slashers, 1 spear	Nil	Nil	2,560
TOTALS	76	9	2	28	76kg	As above	1	1	9,232
Total 2019	485	25	8	184	132kg	-	15	8	49,078

Monitoring & Evaluation teams:

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

Monitoring teams	No. Field days	Activities	Endangered species records / sightings	Operating locations	Vehicle mileage km
Tembo 2 (TENP) (3 TT staff + 2 KWS)	29	- 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 – 13 sighting - Hirola – 12 - Grevy's Zebra – 1 - Large Carnivores – Lion 8, Leopard 1, Cheetah 1, Wild Dog 1 - Road & Rail kills – 4 - Elephant carcasses – 1 - Rain gauge readings - Collared elephants – 10 - Carnivore scat collect - 5	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	4,166
Tembo 4 (TWNP) (2 TT staff + 2 KWS)	30	- 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 – 4 sighting - Rhino monitoring IPZ - NRS night census – Nil - Large Carnivores – Hyena 7, Leopard 3, Cheetah 1 - Road & Rail kills – 8 - Elephant mortality - 0 - Rain gauge readings - Collared elephants – 1 - Kamungi Cons. Game census transects – 17 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	2,946
TOTALS	59	As above	As above	As above	7,112
Total 2019	296	-	-	-	37,728

COMMUNITY CONSERVANCY PROGRAM:



- ✓ **Ongoing partnership between Tsavo Trust and Kamungi Conservancy (KC)** (bordering northern boundary of TWNP – Triangle). KC is located in Makueni County; Kibwezi Sub county; Mtito Andei Division; Mtito Andei Sub-location; Ngiluni Village.
- ✓ **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.
- ✓ **Community Meetings:**
 - 1st June19 –KC Board met at Water Project, discussed new members and the need for unity.
 - 1st June19 –81 KC members later met, discussed KC activities and need to unite.
 - 17th June19 –KC CLO met with Kaloleni Community re development and County elections.
 - 19th June19 –KC CLO met with Nthunguni community leaders to discuss development and partnerships.
 - 23rd June19 -KC CLO met with Kamunyu village community to discuss KC support.
- ✓ **Kamungi Membership:** Through a registered CBO KC membership represents 91 families & 900 individuals. In June19 10 new members registered.
- ✓ **Kamungi Water Project:** 29,225 litres of water was issued from dispensing kiosk at Ngiluni Village. Several days of no water due to low water table. *Tsavo Trust is looking to other alternatives and funding.*
- ✓ **Ngiluni Dispensary:** *Tsavo Trust is looking for funding for a water bore hole here to support this vital healthcare outlet in this region.*
- ✓ **Education:** Tsavo Trust has paid for 2 teachers (1 at Ngiluni & 1 at Kamunyu School within KC) for the last 6 years. This is ongoing.
- ✓ **Training:** Patrick Mutua ongoing training at Bio-Ken Snake Farm, Watamu, for *Snake handling and identification.*
- ✓ **HWC – Elephant Bee Fences** – 7 x 1-acre bee fences, total 105 bee hives with 11 currently occupied. Due to the poor rains in this area, the bees have not made the honey we had anticipated and in fact many have vacated hives.
- ✓ **HWC** – 24 cases were recorded around Kamungi Conservancy this month. HWC cases: 13 elephant cases, 1 lion, 4 Leopard, 4 baboons, Wild Dog 1, snake 1.
- ✓ **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. No human cases this month. (Tsavo Trust currently holds 4 vials for emergency use).
- ✓ **Wildlife Census Transects:** Ongoing – taking place 2 times per month along set transects within KC to give base line data on wildlife trends. 13 different species were identified this month (102 observations).



As you enter Ngiluni Dispensary within Kamungi Conservancy (recently completely re-furbished by Tsavo Trust) this sign greets you on the main wall entrance.

This is just one small way to nurture a culture of conservation amongst communities that live on the borders of National Parks, whereby the funding for this upgrade has come off the back of elephants.

For the formal Protected Areas to survive into the long term, the neighboring communities have to become meaningful beneficiaries and owners of conservation, not just stakeholders.

“SHIRANGO COMMUNITY CONSERVANCY”:

- ✓ **Ongoing partnership between Tsavo Trust and Shirango Conservancy (SCC)** (bordering onto southern boundary of TENP – Voi River area). Total area 270km². SCC is located within Kilifi County; Ganze Sub-location; Bamba Ward; Mitangani location; Gede Sub-location.
- ✓ **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.
- ✓ **Community Meetings:**
 - 8th June19 – At Dabaso, discussed water project, recent elephant poaching, illegal livestock. Also observed 2nd bore hole drilling where this time water was found.
 - 17th June19 – Shirango Village – discussed water project, Shirango Conservancy constitution draft, now with KWCA for review.
- ✓ **Shirango Membership:** CBO name change to **Shirango Community Conservancy (SCC)** is in process and approved by the Board (was *Shirango Community Development Project*). Draft SCC Constitution is being reviewed now by KWCA. Members come from 5 villages on the fringes of Shirango Community Conservancy: Shirango; Gede Jira/Garbiti; Ngambo/Baisa; Dabaso; Chamamba. Members registration is ongoing – at least 2,000 to date, mainly come from the Watha and Giriama ethnic groups. Ongoing.
- ✓ **Shirango Water Project:** Following completion of a 2nd hydrogeological survey a drilling rig was re deployed in early June19. Results this time round were position where 3m³ were hit. A big relief all round.
- ✓ **Shirango Conservancy land tenure:** Ongoing - CLO is regularly following this up in the Kilifi County Govt. offices.
- ✓ **HWC:** 47 cases recorded in Shirango. There is very significant conflict in Shirango that needs recording: 12 cases recorded: elephant 33; hyena 6, leopard 5, lion 3.

Photo below shows Shirango community already fetching water whilst the new bore hole was being tested for yield. Results have not yet come out yet. Although the Tsavo water is most often than not brackish, as the Shirango water is also, this precious source will without doubt benefit the people of Shirango in a huge way. The next step now is to put in place a solar pump and water tank to complete this project. Again the funds raised for this water project are directly related to elephant protection with community benefits coming into play at the same time.



Unusual Photo of the Month:



*Photo shows a young adult male Klipspringer (*Oreotragus oreotragus*) in TWNP's Shetani lava flow in early June 2019.*

This location is one of the best in Kenya to regularly view them.

Although not rare, they are not easy to photo as they are shy and timid antelope.

They are the sole member of their genus and their course hairs are hollow, unlike other antelopes.

With sincere thanks and appreciation to the Kenya Wildlife Service, 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), Save The Elephants, Stuart Herd, Sir Colin Southgate, Nick Southgate, Alex Graham, Nick Powell, James Robertson, Markus Jebesen, The Kratt Family, International Fund for Animal Welfare (IFAW), Loic Gouzer, International Elephant Foundation (IEF), Disney/Wildlife Conservation Society (WCS), Ndovu Trust (UK), Mike Kirkland - Satao Camp & Southern Cross Safaris (Msa), Ker & Downey Safaris, Global Wildlife Conservation, Paul Block, Anita Mishra & Paolo Mapelli, Tropical Ice Ltd, Askari Project – Australia, TUI Care Foundation, Skip & Joanie Mooney, Origins Safaris, Catherine Lagrange, Salama Fikira, Steve Parkinson, Conservation Alpha, JW Seagon Insurance, The Art of BAS & Oak Furniture Land, Howard Saunders, Sandor Carter, Sean Dundas, Karen Laurence-Rowe, James Lewin, OnSafari-Kenya-Anthony Cheffings, Oleg Guerrand-Hermes, Kathy Snowden, Saving the Survivors – Johan Marais, Chris Acreman, Paul & James Wilson, Alex Hunter – Insiders Africa, Will Burrard-Lucas, ESRI – E.A., Spidertracks, Pembroke House School and numerous other individual supporters.

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