

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

Activity	Hours Flown	Kilometers Covered
Aerial Reconnaissance	71 (485 for year) Average 115km p/h of low-level flight	8,161 (56,161km for year) Flights carried out jointly with KWS staff
	Field Patrol Days	Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 93 days (578 to date) Monitoring teams: 46 days (342 to date)	Protection teams: 11,742 km (69,562 to date) Monitoring teams: 5,515 km (43,243 to date)
	No. Observed	
Big “Tuskers”	17 Tuskers - 3 Super Tusker bulls, 11 emerging bulls, 3 cow Tuskers = 41 individual observations	
	No. Recovered	
Ivory recovered	9 elephant tusks (39 for year to date)	
Elephant carcasses	Fresh (less than 3 weeks old)	Recent (less than 3 months old)
	4 – (c of d: 1 poached, 3 natural)	2 (c of d: 2 natural)
Poacher camps/hides	Fresh - Nil	Recent - 1
Arrests	7 – by KWS / TT – (6 bushmeat, 1 illegal grazer - 33 to date 2019)	
Snares/traps recovered	204 (by Tembo Teams – 388 for year to date)	
Support to KWS-armed incidents	Nil	
Illegal Livestock (only in PA)	5 cattle bomas (6,550 + cows, 700 shoats, 11 people)	
Written reports to KWS	68 (daily email reports, various communications & 1 monthly report)	
General & significant notes	<ul style="list-style-type: none"> • 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 • 26/7/19: Meeting at TT HQ with Senior members Makueni County Govt. to discuss HWC • Lowest number of illegal livestock & bomas seen inside Tsavo Parks for many years 	

Photo below shows Tsavo Trust’s Super Cub 5Y JAR in action over Tsavo. JAR was deployed for aerial activities over Tsavo in June 2019 and replaces 5Y NRF that had a mishap and permanent damage in January this year.



WILDLIFE CONSERVATION PROGRAM:

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

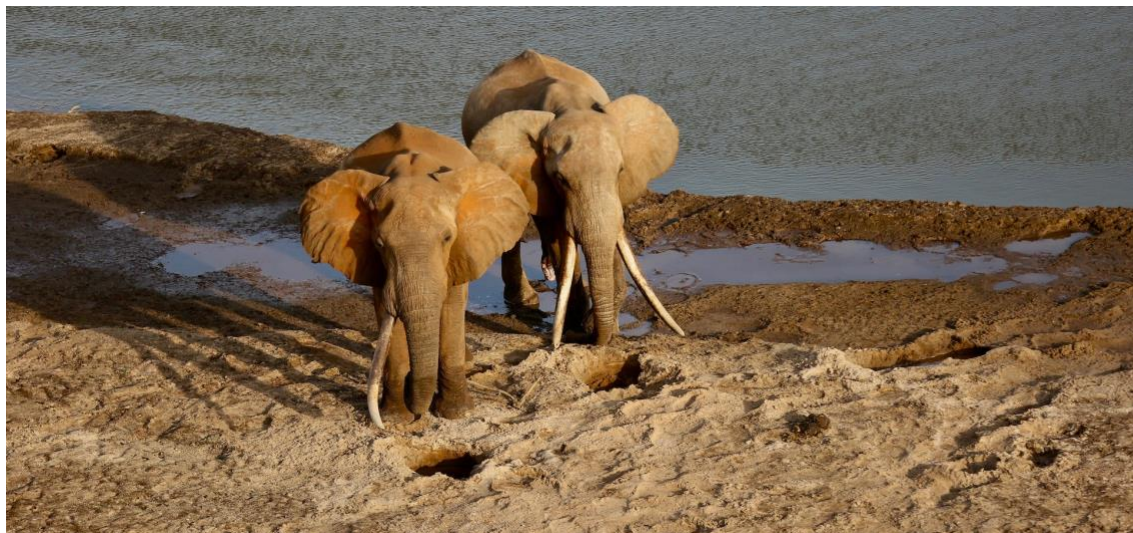
Tsavo Trust’s Big Tusker Project (BTP) recorded the following details in the BTP database:

- Total of **17** different individual Tusker’s were observed from ground and air coverage.
- 3 bull Super Tuskers – 13 different sightings.
- 11 Emerging bull Tuskers – 24 sightings.
- 3 Iconic cow Tuskers – 4 sightings.
- **Total sightings – 41**
- **Weather conditions:** TT HQ rainfall: **Nil**. Total rainfall at Tsavo Trust HQ to date: **46.5mm**.
- **Elephant mortality: 6 carcasses located (4 fresh):** C of D – 1 poached, 5 natural.
- **Elephant treatment: Nil**
- **Rhino security:** Regular aerial reces with KWS over TWNP & TENP rhino areas in partnership with KWS / ZSL. 8 rhino specific reces resulting in 2,451km flown over 21.5 hrs (7 TW & 1 TE).
- **Hirola monitoring:** Ongoing key stakeholder with KWS in line with Hirola Recovery Strategy.
- **Collared Elephant:** Ongoing – 20 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	2	In good health, back to his regular dry season range
WS1	8	Still outside of Park to a dangerous area. Has not learnt from his arrowing!
BA1	3	Settled back to his original dry season range
MM1	3	Normal location
SO1	2	Normal location
BL1	1	Normal location
BU1	2	Normal location
TS1	1	Normal location
VO1	2	Same location
GO1	1	Back to normal location. Had not been seen for 8 months.
KM2	3	Back to normal location
KI1	6	Back to normal location
CH1	1	Normal location
MG1	2	Back to original dry season range
COWS		
F-DH1	2	Normal location
F-SG1	1	Normal location
F-EM1	1	Normal location
TOTAL	13 bulls & 4 cows: 41 different sightings	
<i>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.</i>		

Photo taken on 16th July 2019 shows two of the emerging Tuskers coded: MM1 (mono right tusk) and BU1.



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 July 2019. 71 hours flown covering 8,161 kilometers over Tsavo in support of KWS: Air & ground activities; Big Tusker monitoring; Locating illegal activities; Wildlife monitoring; Aerial census and tracking.

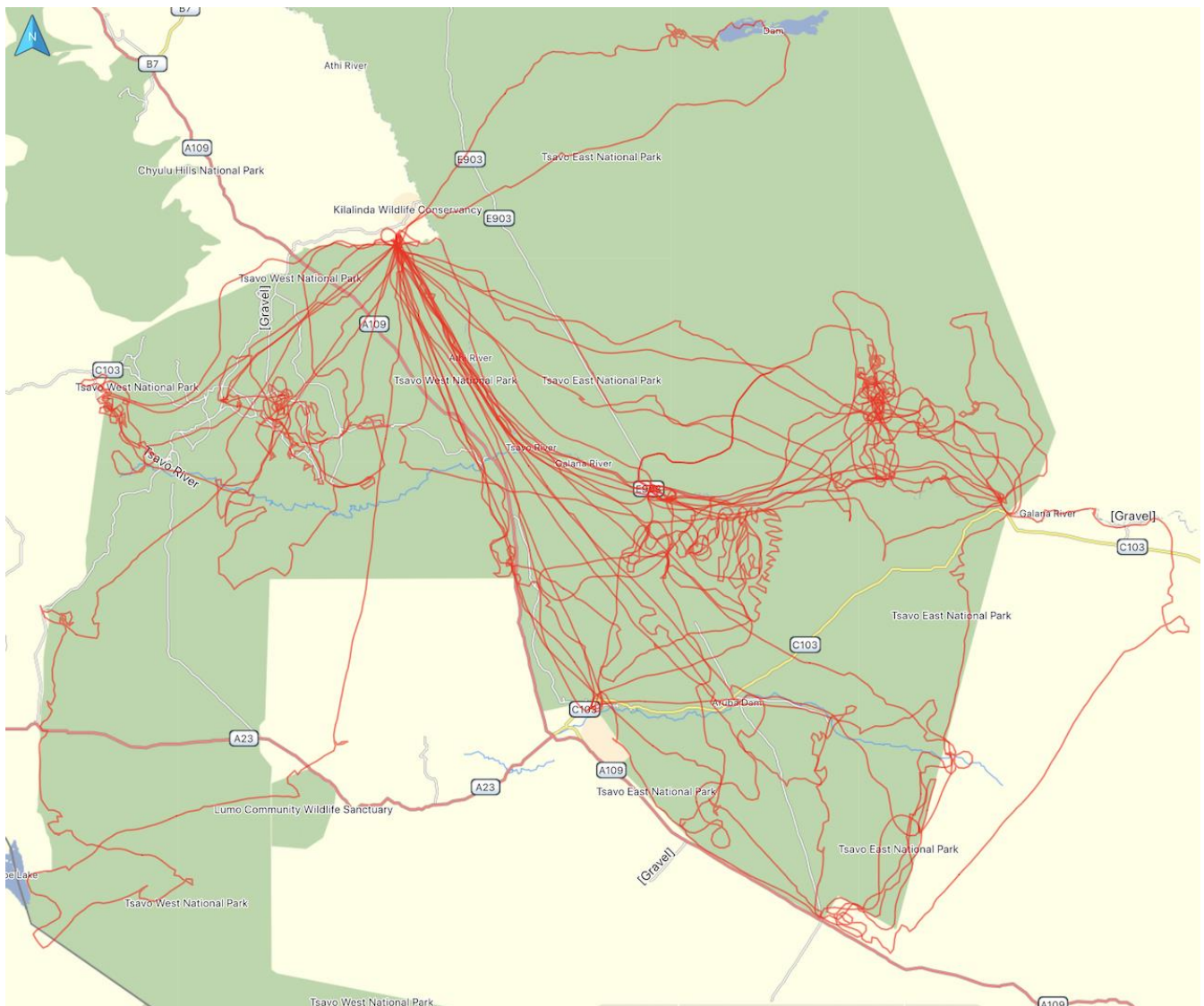


Photo shows a TW IPZ cow and calf rhino during an aerial recce on 5th July 2019.



Photo shows a recent elephant carcass, having died naturally, spotted during an aerial recce on 1st July 2019 in TWNP Triangle. Later a joint KWS / Tsavo Trust Tembo 5 Team recovered both tusks.



Photo above shows a commonly used bushmeat poachers tool called a “lamping torch / horn”.

A motorbike horn and a torch are wired to a large bank of batteries to form this very effective tool. When the horn is switched on at the same time as the flash light and pointing at a Dikdik (or other bushmeat species) the animal freezes and becomes totally confused. Poachers can then easily kill the animal for its meat with a club to its head or slasher to its neck or hamstring.

Left photo shows some of the 13 Dikdiks poached on 3rd July 2019. Joint KWS / Tsavo Trust Tembo 1 Team arrested 3 poachers along with lamping horns / torches and 26kg of bushmeat and other equipment.

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)	31	3 2 bushmeat poachers, 1 illegal livestock herder	4	59 58 for small game, 1 medium	26kg 13 Dikdiks	2 bicycles, 1 panga, 2 spotlights, 1 lamping horn, cooking equip.	Nil	Assisted KWS in putting out bushfire in TENP / Shirango boundary.	4,162
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	31	Nil	1	5 All for small game	Nil	Nil	1 Recent	Nil	3,674
Tembo 5 / Kamungi (TWNP) 14 TT Scouts + 3 KWS Rangers	31	4 4 bushmeat poachers, 1 with 13ft python skin	2	145 139 for small game, 6 medium	44kg 15 Dikdiks & lesser kudu meat	1 bicycle, 2 horns, 4 spotlights, 2 knives, 1 panga	Nil	Nil	3,906
TOTALS	93	7	7	28	70kg	As above	1	1	11,742
Total 2019	578	33	15	184	202kg	-	15	8	69,562

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)	27	-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 – 11 sighting -Hirola – 12 -Grevy's Zebra – 2 -Large Carnivores – Lion, Leopard 2, Cheetah 1, Wild Dog 1, spotted hyena 4, Striped hyena 1 -Road & Rail kills – 3 -Elephant carcasses – 1 -Rain gauge readings -Collared elephants – 5 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, Kuple Nek, Manyani, Irima, Mudanda, Ndi	3,350
Tembo 4 (TWNP) (2 TT staff + 2 KWS)	19	-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 – 9 sighting -Rhino monitoring IPZ -NRS night census – 91 -Large Carnivores – S/Hyena 2, Leopard 1, W/Dog 2 -Road & Rail kills – 4 -Elephant mortality - 0 -Rain gauge readings -Collared elephants – 0 Kamungi Cons. Game census transects – 12 species	TWNP, Kamboyo, Mangalete, Kilaguni, Mungai, Poachers lookout, Kitani, old Chyulu gate, Mzima, Shetani, Finch H, Ziwani, Tsavo River, Rhodesia Hill, pipe line, Rhino Valley, Ndawe, Ngulia, Kenani, Kyulu, Manyani, IPZ, NRS, Kamungi Cons.	2,165
TOTALS	46	As above	As above	As above	5,515
Total 2019	342	-	-	-	43,243

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 Mobilization and Sensitization Meetings:**
 - 4/7/19: Nthunguni village - Makueni CG meeting, Tsavo Trust/Kamungi CLO present.
 - 8/7/19: Mtito Andei Chief's community meeting, CLO present.
 - 11/7/19: KC Board members met with KC members at Ngiluni – discussed the need to record all family details / numbers and security issues.
 - 17/7/19: Tsavo Trust Head of Monitoring represented TT & KC at HWC workshop at Lewa Wildlife Conservancy, gave presentation on TT HWC findings in Tsavo.
 - 26/7/19: Senior Makueni CG members met at Tsavo Trust HQ with CEO, CLO and others to discuss partnerships, assistance and HWC mitigation in the area between Mtito Andei to Athi River.
- ✓ **Kamungi Membership:** Through a registered CBO KC membership represents 100 families & over 1,000 individuals.
- ✓ **Kamungi Water Project:** 17,040 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 14 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: 10 elephant cases, 1 lion, 5 Leopard, 1 Hyena, 7 baboons.
- ✓ **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 (150 observations).
- ✓ **Operations and Security:** In and around Kamungi Conservancy.
 - Arrests: 1 (with 13ft python skin).
 - Night ambushes: 2
 - Snares / traps recovered: 145 (Karawa, Mwaani, Lukenya areas).
 - Recoveries: 44kg bushmeat, 1 bicycle, 2 horns, 4 spotlights, 2 knives, 1 panga.

“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 Mobilization and Sensitization Meetings:**
 - 17/7/19: Shirango village, CLO met with SCC members – discussed land tenure and ownership and the need to remove squatters and illegal livestock users. Membership registration also discussed.
 - 27/7/19: Kazamoyo village meeting with CLO & Tsavo Trust Tembo 1 team; discussed HWC, elephant and bushmeat poaching in the area.
- ✓ 31/7/19: CLO met with area Member of County Assembly – Bamba Ward in Malindi. Discussed; Shirango Water Project; the need for Kilifi CG to support SCC; SCC land tenure.
- ✓ **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.
- ✓ **SCC Land tenure:** SCC land is currently under traditional communal mode of ownership. It is not legally protected and hence has been used and abused (charcoaling, poaching, hard wood extraction, livestock barons coming in from far etc). Efforts are underway to ensure the Watha people legally own land that is theirs.
- ✓ **Shirango Water Project:** Solar bore hole pump and solar panels are being procured to finalise this much needed project.
- ✓ **HWC:** 18 cases recorded in SCC. There is very significant conflict in Shirango that needs recording: Hyena 10, leopard 3, lion 5.
- ✓ **Operations and Security:** In and around Shirango Community Conservancy.
 - Arrests: 3 (bushmeat poachers)
 - Night ambushes: 1
 - Snares / traps recovered: 59 (Murondo, Magram, Shirango, Kazamoyo).
 - Recoveries: 2 bicycles, 1 panga, 2 spotlights, 1 lamping horn, cooking equip.



A large baraza (community meeting) took place on 27th July 2019 at Kazamoyo – a village that borders onto Shirango Conservancy.

Shirango CLO and Tsavo Trust Tembo 1 Team were present to discuss HWC issues, both elephant and bushmeat poaching issues.

It was a positive meeting given the engagement that Tsavo Trust has delivered in Shirango Conservancy to date.

Unusual Photo of the Month:

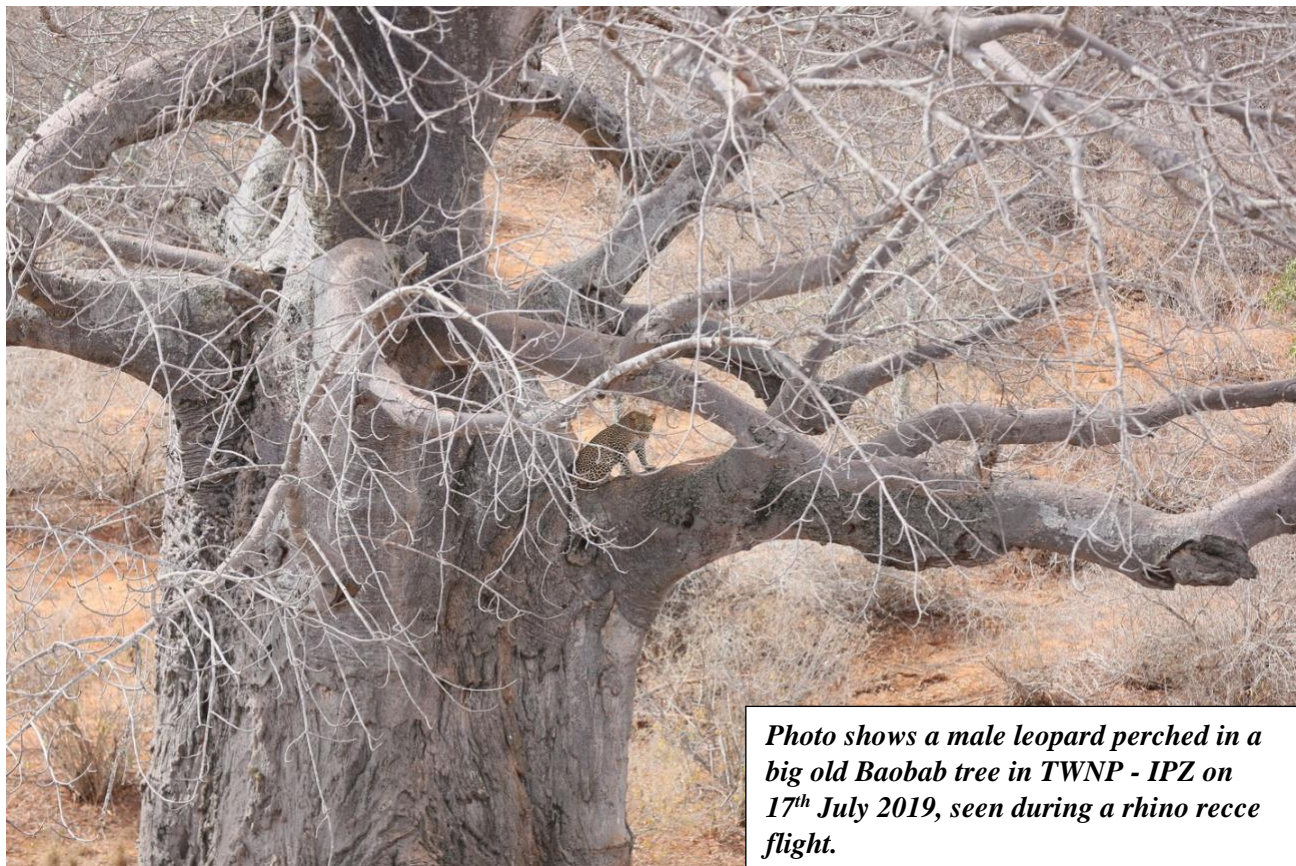


Photo shows a male leopard perched in a big old Baobab tree in TWNP - IPZ on 17th July 2019, seen during a rhino recce flight.

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 Jebsen, The Kratt Family, International Fund for Animal Welfare (IFAW), Loic Gouzer, Georg Waechter Memorial Foundation, 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, the late John Fletcher, Askari Project – Australia, Skip & Joanie Mooney, Origins Safaris, Catherine Lagrange, Enos Vineyards, 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, Alan Binks, Andreas Fox, Oleg Guerrand-Hermes, Kathy Snowden, Saving the Survivors – Johan Marais, TUI Care Foundation, Chris Acreman, Paul & James Wilson, Alex Hunter – Insiders Africa, Will Burrard-Lucas, Lewa Canada, ESRI – E.A., Spidertracks, Pembroke House School and numerous other individual supporters.

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