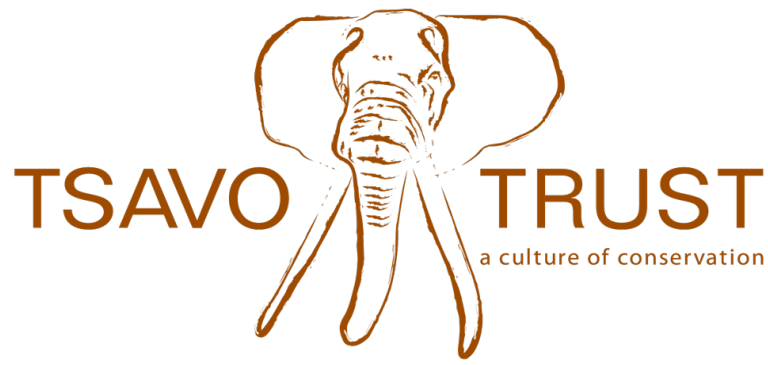




Tsavo Trust is an action orientated, field-based, Kenyan not-for-profit conservation organization that recognizes the importance of a holistic approach to biodiversity conservation. www.tsavotrust.org

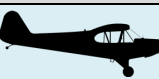
Tsavo Trust film clip: <https://www.youtube.com/watch?v=qGgM6-gqZOE&t=270s>

JULY 2023 MONTHLY REPORT



*The photo above shows Super Tusker BA1 taken during a routine aerial patrol in Tsavo East National Park. Tsavo is currently home to 8 Super Tuskers and more than 30 Emerging Tuskers. Jointly with the KWS and WRTI, Tsavo Trust conducts aerial patrols to ensure their safety. Since 2013, more than 868,500km have been covered over 7,360 hours of flight. This equates to flying to the moon and back in a 2 seater Super Cub aircraft, which would take 10 months of continuous flying at this speed.
Photo Credit: Tsavo Trust – Nick Haller.*

SUMMARY of ACTIVITIES:

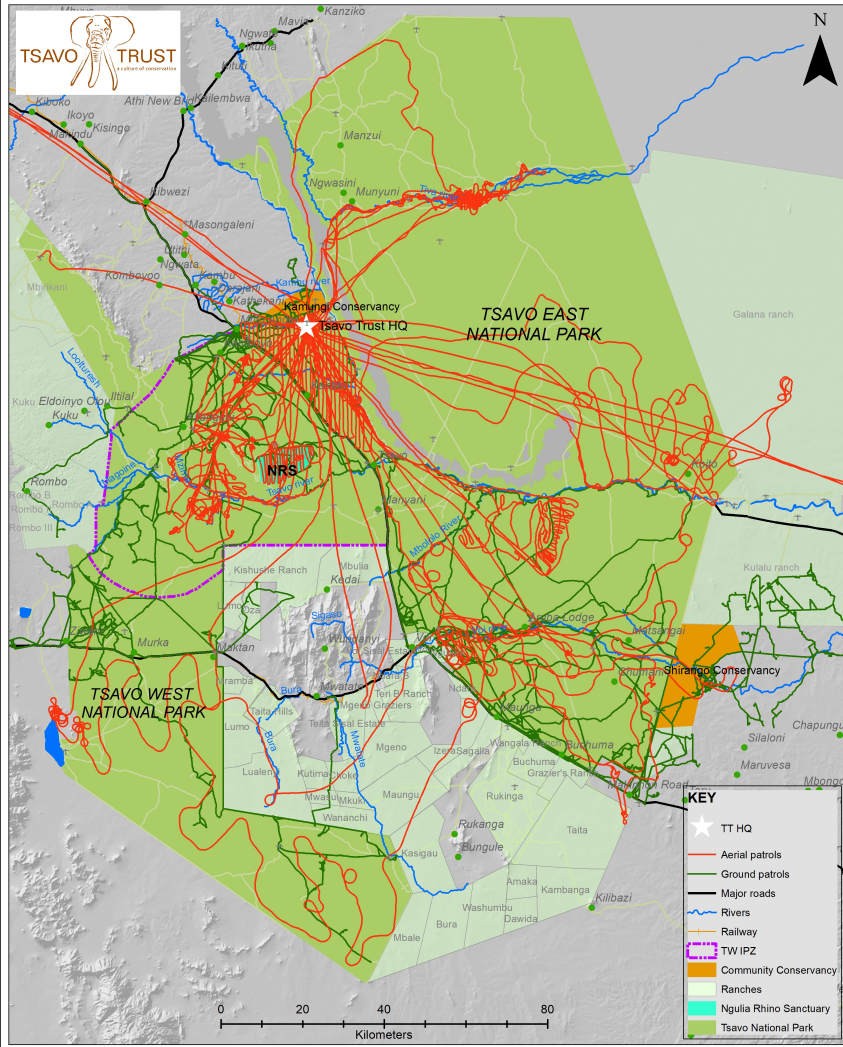
WILDLIFE CONSERVATION PROGRAM: <i>Big Tusker Project – Aerial & Ground Activities</i>					
Activity		Hours Flown		Kilometers Covered	
	Aerial Unit	65 (385 for year) Average 130km p/h of low-level flight		8,972 (50,139km for year) Flights carried out jointly with KWS staff	
	Rhino Aerial Patrols	Aerial Patrols: 23 (6 TWNP; 2 TENP) (167hrs for year to date)		Aerial: 2,541 (19,052km for year)	
		Field Patrol Days		Kilometers Covered	
Ground Protection Activities (Joint with KWS / TT & Community Scouts)		Protection teams: 186 days (1272 to date) Monitoring teams: 62 days (393 to date)		Vehicle patrols: 18,490km (123,888km to date) Foot patrols: 1,187km (7,319km to date) Monitoring teams: 6,421km (48,056km to date)	
	Big Tusker Project	8 Tuskers - 2 Super Tusker bulls (7 sights), 5 emerging bulls (19 sights), 1 cow Tusker (5 sights): 31 individual observations			
Collared Elephant Sightings: Joint KWS/STE/TT program		7 sightings: record forms submitted to STE (aerial and ground observations)			
Ivory recovered		10 elephant tusks (67 for the year to date)			
Elephant mortality		Fresh: 3 (Less than 3 weeks old) (c of d: 1 natural; 1 rail kill; 1 euthanasia)	Recent: 1 (Less than 3 months old) (c of d: natural)	Old: 1 (More than 3 months old) (c of d: natural)	
High Value Species Monitoring		Ongoing partner with WRTI / KWS TCA Research: Monitoring Hirola, Grevy’s zebra, large carnivores, Roadkill Surveys, Southern Ground Hornbill etc			
Wildlife - Treatment & Translocation		Venomous snakes re-located from communities: 3 Red Spitting Cobras and 2 Puff Adders Others: Nil			
Poacher camps/hides		Fresh – 1 (9 to date)		Recent – Nil (3 to date)	
Arrests – joint KWS/TT		29 – 6 bushmeat poachers; 3 illegal herders; 14 illegal entry; 1 for charcoaling; 5 illegal construction inside Protected Area. (274 for the year to date)			
Snares/traps recovered		146 by Tembo Teams: 883 snares for the year to date (655 small; 189 medium; 39 large)			
Bushmeat recoveries (wet & dried)		194kg (1,401kg for the year to date) 12 Dik-diks, 1 Kori bustard, Giraffe and Eland.			
Poachers Equip. Recvd.		4 machetes; 2 knives; 3 torches; 7 lamping horns; 2 motorbikes; 1 pick-up veh. & 2 carving tools			
Night Ambushes		Joint KWS / TT: 18 (Kyulu; Tsavo river; Shirango; Kenani; Murondo; Triangle; Bondeni; Ngutuni)			
Firefighting		Nil - (No Fire outbreaks reported as of recent)			
Human Elephant Conflict		Joint TT-KWS team: 1 elephant driven from farmlands east of Mtito Andei No elephant drives were done in Shirango.			
Illegal Livestock (only in PA)		3 active cattle bomas (5,210 cattle; 250 shoats; 2 donkeys; 3 dogs; 12 people)			
Written reports to KWS		81 (daily Situation reports, various communications & 1 monthly report)			
TT Staff Training activities		2 TT Officers Masters training; 1 KWS Officer Masters training; 1 TT Officer Bachelors training; 6 Kamungi youth certificate training in Hotel Management.			
TT HQ Rainfall figures		Nil. Total rainfall to date for 2023: 127mm			
Significant notes	12/07/2023. Graduation ceremony of 50 (15 from Tsavo Trust) community rangers from the Kenya Wildlife Service Law Enforcement Academy. 2 Tsavo Trust rangers were recognized for exemplary academic performance and for dedication in providing support to fellow trainees throughout the course. 26/07/2023. An active poachers’ hideout was sighted from the air by Tsavo Trust’s Aerial Unit. Coordinates and other information shared to KWS who made a ground follow-up and arrested 3 bushmeat poachers.				
COMMUNITY CONSERVANCY PROGRAM:					
	Kamungi Conservancy ➤ Located: Northern boundary TWNP Triangle ➤ TT has played a stewardship role and partnered with KC since 2014		Shirango Community Conservancy ➤ Located: Southeast boundary TENP ➤ TT has played a stewardship role and partnered with SCC since 2016		
FORMAL FIELD CONSERVATION PARTNERS PROGRAM: (Full list of supporters/partners shown on last page)					
					
					



Aerial Reconnaissance and Ground Patrols - Areas Covered:

- Aerial patrolling is a vital conservation tool providing “**eyes in the skies**” and directional guidance to ground units who provide “**eyes and ears**” on the ground. The combination of both is effective.
- All aerial patrols and ground patrols are carried out jointly - KWS/TT and recorded with all relevant real-time observations relayed to KWS daily for rapid actions and for their records.

TSAVO TRUST'S AERIAL AND GROUND PATROLS COVERAGE JULY, 2023



*The map shows Tsavo Trust's flight paths in **RED** and ground patrol paths in **GREEN** over the TCA this month.*

Note: The Tsavo Parks are huge comprising 22,000km² (TENP, TWNP & CHNP) and then a further 20,000km² totaling 42,000km² to form the Tsavo Conservation Area (TCA).

***Aerial:** 65 hours flown covering 8,972 kilometers over Tsavo in support of KWS.*

***Ground:** 1,187 kilometers of foot patrol and a further 24,911 kilometers of vehicle patrol in Tsavo to support KWS.*

Activities covered: Air & ground security patrols; Big Tusker monitoring; Rhino related activities; Locating illegal activities; Wildlife monitoring; Aerial census & telemetry tracking & Community Conservancy aerial and ground activities.

Below: The photo shows Community Rangers during a passing out parade at the KWS Law Enforcement Academy on 12/07/2023. 50 Community Rangers graduated from a 3-month course where they were taken through rigorous physical training, tracking, the science of conservation, and community involvement in conservation. Photo Credit: Rio – OPC.



Field Mobile Units:

Tembo 1, 3, 5, 7, 9 teams, Kamungi & Shirango Scouts are habitat protection / de-snaring focused.

Tembo 2 (TENP) & 4 (TWNP) teams are wildlife monitoring dedicated.

All teams work alongside KWS daily, providing further “eyes and ears in the field”.

Habitat Protection / De-snaring teams:

Table 7: Shows outcomes from field activities from Tembo 1, 3, 5, 7, 9 Kamungi & Shirango Scout teams:

De-snaring teams	No. Field days	No. Arrest	No. Ivory recvd	No. Snare recvd	Bushme at recvd. Kg	Poacher equip. recvd.	No. Poacher camps	No. HWC Cases	Vehicle mileage km	Foot Patrol km
Tembo 1 (TENP) & Shirango Scouts (6 TT Scouts + 3 KWS Rangers)	31	-	2	26 14 small 11 medium 1 large	-	-	-	-	2,877	395
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	31	1 Illegal herder	2	-	-	-	-	-	2,944	152
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	31	1 Collecting firewood inside Protected Area	2	-	-	2 torches, 4 sacks and 2 carving tools.	-	-	3,178	159
Tembo 7 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	31	1 Bushmeat poacher	-	20 12 small 8 medium	150 kg Giraffe and Dik-diks	2 lamping horns, 1 knife, 2 motorbikes & 1 phone	-	-	3,288	143
Tembo 9 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	31	22 1 bushmeat poacher; 2 illegal herders; 14 for illegal entry; 5 for trespassing.	2	35 14 small 3 medium 18 large	26 kg Eland and Dik-diks	1 pickup veh, 2 lamping horns, 4 pangas, binding wire, hammer & chisel	-	-	3,973	169
Kamungi Scouts 4 Scouts	31	4 All bushmeat poachers	-	65 58 small 6 medium & 1 bird trap	18 kg Dik-diks and Kori bustard	3 lamping horns, 1 torch, spare batteries, 1 knife & a metal rod.	-	3 1 HEC 2 HCC 1 elephant driven; 3 people injured by leopard.	2,230	169
TOTALS	186	29	8	146	194kg	As above	-	3	18,490	1,187
Total 2023	1,458	274	38	883	1,401 kg	-	12	85	123,888	7,319

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) 	31	-Tusker monitoring -Hirola monitoring -Grevy's zebra monitoring -Carnivore monitoring -Carnivore scat analysis: hair content -Highway & SGR roadkill surveys -Camera trap surveys -Fixed point photos -Collared elephant reporting	-Tuskers – 15 sightings -Hirola – 9 sightings -Grevy's Zebra – Nil -Large Carnivores – 40 sightings -Ground Hornbill – 10 sightings -Road & Rail kills – Nil -Elephant carcasses – Nil -Ivory recovered. – Nil -Collared elephants – Nil -Carnivore scat collected - Nil	Tsavo East Nat. Park – mainly southern, central, and eastern sections including, Voi River & Shirango Conservancy	3,514
Tembo 4 (TWNP) (2 TT staff + 4 KWS) 	31	-RHINO monitoring – TW IPZ -Camera trap surveys - rhino -Big Tusker monitoring -Large Carnivore monitoring -Collared elephant reporting	-IPZ Rhinos – 25 -Tuskers - Nil -Large Carnivores – 2 sightings -Collared elephants – Nil -Elephant carcasses – Nil - Ivory recovered. – Nil -NRS Rhino night census – 137	Tsavo West Nat. Park – IPZ and Triangle	2,907
TOTALS	62	As above	As above	As above	6,421
Total 2023	393	-	-	-	48,056

COMMUNITY CONSERVANCY PROGRAM:

ACTIVITY	KAMUNGI Conservancy	SHIRANGO Community Conservancy
Ongoing partnership between Tsavo Trust & KC & SCC	North boundary of TWNP – Triangle, since 2014. Total area approx. 100km ² Makeni County; Kibwezi Sub County; Mtito Andei Division; Mtito Andei Sub-location; Ngiluni Village.	South boundary of TENP – Voi River area, since 2016. Total area 270km ² . Kilifi County; Ganze Sub-County; Bamba Ward; Mitangani location; Gede Sub-location.
Employment (Through Tsavo Trust)	Between Tsavo Trust & partners 45 permanent staff & 15 casual staff employed generating over \$12,000 (Ksh.1,320,000) of income into Kamungi monthly.	Tsavo Trust employs 14 staff from SCC including a Community Liaison Officer (CLO) to spearhead activities. Salaries generate over \$3,000 (Ksh.330,000) of income monthly.
Community Mobilization and Sensitization Meetings	24 community meetings held. ➤ 06/07/2023. Meeting with Makeni County government delegates for familiarizing with projects done in Kamungi Conservancy. ➤ 12/07/2023. Graduation of Community Rangers at the KWS Law Enforcement Academy – Manyani. ➤ 12/07/2023. National Launch of the HWC compensation and insurance scheme in Voi ➤ 25/07/2023. Meeting with the Volkswagen Climate Partner and TTWCA regarding a potential REDD+ project. ➤ 25/07/2023. Continuous monitoring and evaluation of the sixteen 10% fence plans. ➤ 29/07/2023. Kamungi Conservancy youth benchmarking trip on tree nurseries in KEFRI – Kibwezi.	6 community meetings held. ➤ 10/07/2023. Sharing lessons learned and forging a way forward following a benchmarking trip to Kamungi Conservancy in June 2023. ➤ 18/07/2023. A meeting between Administration officers and community members giving the green light for project implementation in Shirango. ➤ 26/07/2023. Meeting with the Volkswagen Climate Partner and TTWCA regarding a potential REDD+ project in Shirango. ➤ 26/07/2023. Local administration, village representatives, and Shirango Conservancy manager met with the 10% fence contractor before work began. Village representatives were tasked to provide names of casualties to work with the contractor.
Membership	Through a registered CBO KC membership represents 385 families & over 3,850 individuals from 13 villages, mainly from the WaKamba community.	Through a registered CBO SCC membership represents at least 2,300 individuals from 5 villages, mainly from the Watha and Giriama ethnic groups.
Water Project	47,150 litres of water issued. (478,290 litres for the year to date) Ngiluni Primary School connected to piped water.	Borehole, pump, and solar panels are in place, but saline water. Construction of an earth dam completed.
Basic Health care	394 patients attended (2,114 for the year to date).	There is a need to support this project
Constructions	KC additional scouts & office units to commence soon. Works for the Kamungi bandas in progress.	SCC additional scouts & office units to commence soon
Education	Paid for 2 teachers (1-Ngiluni & 1-Kamunyu School in KC) for the last 9 years. Ongoing.	None at present
Bursary Scheme	6 youth certificate training in hotel management Started on April 22 9 needy students selected being supported.	None at present
Village Saving & Loan Associations – VSLA's	5 women-run VSLAs are in progress: In partnership between ZSL / KC & TT	None at present
Poultry Project	3 poultry projects: partnership between ZSL / KC & TT	None at present
Training	VSLA livelihoods, HWC Mitigation, Climate Smart Agriculture, permaculture	Climate Smart agriculture by KALRO.
HWC Mitigation	7 x 1-acre bee fences, total 105 beehives with 6 currently occupied.	N/A yet
Elephant Bee Fence	10% fence plan completed Phase 2 completed: Total 16 plots (HWC electric fencing of 10% of individual land). There are issues with plots/land being purchased by a local NGO in this area that is threatening this innovative project, but mitigating measures are in place	Delivery of materials for the construction of the 10% fence plans. 4 of the planned 8 10% fence plans were constructed.
10% Fence Plan		
Predator Proof bomas	10 predator-proof bomas set up: by TT/ZSL	N/A yet
Mtito 32km fence line	Completed 30/11/21 with 95% HEC reduction	N/A yet
Human Wildlife Conflict (HWC)	26 cases recorded: 10 elephant; 7 lion; 4 leopard; 1 mongoose and 4 snake-related incidents.	1 case was recorded: A cow was killed by a hyena.
Land Tenure	Ongoing	SCC land is currently a traditional communal mode of ownership, not legally protected. Efforts are underway to ensure the local communities legally own their land.
Wildlife Census Transects	1	None
Operations and Security	➤ See the Field Units table above	➤ See the Field Units table above

Unusual Photo of the Month:



The photo above shows a lion with a warthog kill taken on 05/07/2023 at Aruba in Tsavo East National Park. Lion prides mostly hunt bigger prey like Zebra, Eland, Giraffe, and Buffalo. They have also been observed snacking on smaller prey like the warthog here. Photo credit Tsavo Trust – Christine Mwende.

Wildlife Ranger Challenge (WRC) 2023

WRC is the world's largest celebration of solidarity, support, and fundraising, supporting more than 10,000 rangers in 23 countries since its inception. On 16th September this year, Tsavo Trust Rangers will be among more than 100 Ranger Teams completing a coordinated 21 km race in Protected Areas where the rangers work. To find out more and support our team please follow the link below.

<https://wildlife.rangerchallenge.org/campaigns/tsavo-trust-2023>

With sincere thanks and appreciation:

Organizations: Kenya Wildlife Service; Government of Makueni County; USAID / DOI; US Fish & Wildlife Service; CITES / MIKE Programme-funded by the European Union; Cheyenne Mountain Zoo; Leopardess Foundation; JM Foundation Africa; Save The Elephants (STE); Elephant Crisis Fund; Re:wild; Tusk Trust; Rhino Recovery Fund (WCN); Lion Recovery Fund (WCN); International Elephant Foundation (IEF); Disney/Wildlife Conservation Society (WCS); IUCN Save Our Species; Zoological Society of London (ZSL); WildLandscapes International; The Glassybaby Foundation; Maliasili; EU-Biopama Programme; Tofauti Foundation; Chesbro Foundation; Milkywire; Satao Camp & Southern Cross Safaris (Msa); Origins Safaris; Ker & Downey Safaris; Ndovu Trust (UK); Tropical Ice Ltd; OnSafari-Kenya; Askari Project–Australia; Exodus Travel; Maasai Wilderness Conservation Trust (MWCT); Off Piste Africa; Empowers Africa; 51 degrees-Vulcan; Conservation Alpha; Lewa Canada; Prints for Conservation; Remembering Wildlife Books and many more anonymous donors.

Individuals: Stuart Herd; Nick Southgate; Nicole Honegger; Griet Van Malderen; The Kratt Family; Loic Gouzer; Nick Lapham; Alex Graham; Nick Powell; James Robertson; The Davies Family; Mike Kirkland; Anita Mishra & Paolo Mapelli; James Lewin; the late John Fletcher; Paul & James Wilson; James Chiappa; David Calderone; Will Burrard-Lucas; Drew Doggett photography; the Kiddingtons; Marie de Brouwer; Kim Makenzi; Paolo Parazzi; Sam Stogdale; Howard Saunders; Sandor Carter; Sean Dundas; Andreas Fox; Alex Hunter; John Carr; Anthony Cheffings; Chris Acreman and numerous other dedicated enthusiasts.

Report compiled by Richard Moller (C.E.O) and the Tsavo Trust Team.

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