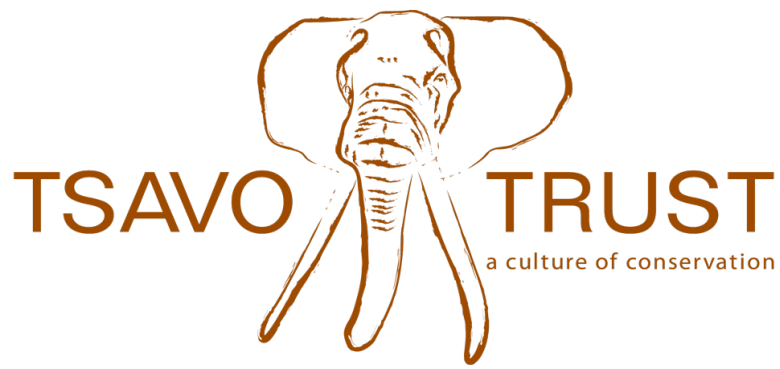




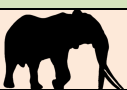
Tsavo Trust film clip: <https://www.youtube.com/watch?v=qGgM6-gqZOE&t=270s>

JULY 2022 MONTHLY REPORT



The above photo shows rhino bull "Ngugi" after being successfully fitted with a VHF transmitter on 8th July 2022. Tsavo Trust supported KWS in this operation. 10 rhinos were fitted with transmitters with 4 rhinos ear notched. This will enhance their monitoring and protection. Photo credit Tsavo Trust – James Robertson.

WILDLIFE CONSERVATION PROGRAM: Big Tusker Project – Aerial & Ground Activities

Activity	Hours Flown	Kilometers Covered
 Aerial Unit	57 (365 for year) Average 119km p/h of low-level flight	8,078 (43,616km for year) Flights carried out jointly with KWS staff
 Rhino Aerial Patrols	Aerial Patrols: 35.8 (7 TWNP; Nil TENP) (129.8hrs for year to date)	Aerial: 4,654 (16,014km for year)
	Field Patrol Days	Kilometers Covered
Ground Protection Activities (Joint with KWS / TT & Community Scouts)	Protection teams: 165 days (1,024 to date) Monitoring teams: 61 days (396 to date)	Vehicle patrols: 13,432km (71,821km to date) Foot patrols: 1,111km (6,502km to date) Monitoring teams: 7,755km (53,455km to date)
 Big Tusker Project	12 Tuskers - 2 Super Tusker bulls (8 sights), 8 emerging bulls (17 sights), 2 cow Tuskers (4 sights): 29 individual observations	
Collared Elephant Sightings: Joint KWS/STE/TT program	9 sightings: record forms submitted to STE (aerial and ground observations)	
Ivory recovered	4 elephant tusks (20 for year to date)	
Elephant mortality	Fresh: 1 (c of d: unknown) (Less than 3 weeks old)	Recent: Nil (Less than 3 months old)
		Old: 1 (c of d: unknown) (More than 3 months old)
High Value Species Monitoring	Ongoing partner with KWS TCA Research under WRTI: Monitoring Hirola, Grevy's zebra, large carnivores, Roadkill Surveys, Southern Ground Hornbill etc	
Wildlife - Treatment & Translocation	Venomous snakes re-located from communities: 1 Puff Adder; 3 Red spitting cobras and 1 Large brown spitting cobra. Others: Nil	
Poacher camps/hides	Fresh – Nil (8 to date)	Recent – Nil (1 to date)
Arrests – joint KWS/TT	13 – 5 illegal herders; 3 bushmeat poachers; 5 Trespassing (searching for grazing areas) (63 for year to date)	
Snares/traps recovered	317 by Tembo Teams: 973 snares to date 2022 (825 small; 117 medium, 31 large)	
Bushmeat recoveries (wet & dried)	596kg (1,641kg for year to date) 1 Grevy's zebra; 3 Dik dik; 6 Impala and 1 Cape hare	
Poachers Equip. Recvd.	1 spear; 1 panga; 1 bicycle and cooking equipment	
Night Ambushes	Joint KWS / TT: 20 (Ngutuni; Murondo; Chakama; Maungu; Egu; Busayesa; Bofu; Maktau; Subati)	
Firefighting	Nil	
Human Elephant Conflict	Joint TT-KWS team: 18 elephants driven from farmlands east of Mtito Andei (18 elephants pushed from farms – Jul22 compared to 117 in Jun21 = 85% reduction following TT fence)	
Illegal Livestock (only in PA)	5 active cattle boma (4,270 cows; Nil shoats; Nil donkey; 23 people)	
Written reports to KWS	81 (daily Situation reports, various communications & 1 monthly report)	
TT Staff Training activities	2 TT Officers Masters training; aircraft pilot training; 1 KWS Officer GIS training; HWC community training; Community livelihood training on beekeeping.	
TT HQ Rainfall figures	3mm. Total rainfall to date for 2022: 80mm	

Significant notes	- Rhino notching and transmitter fitting: 10 rhinos fitted with transmitters and 4 notched for better monitoring and protection. - National Elephant Action Plan for Kenya 2022 – 2031 (NEAP): Tsavo Trust represented in the NEAP validation workshop in Karen, Nairobi. - Tembo 9: Deployment of a new Roaming Biodiversity Protection Team (Joint KWS/TT). The roaming team will assist KWS in addressing threats facing Lions in Tsavo. The team is equipped with a brand new offroad rigged Landcruiser acquired with funding support from Lion Recovery Fund. - USAID funded - Sustainable Management of Tsavo and Amboseli Landscape Project: Inception and planning workshop held. Tsavo Trust is an implementing partner on this project.
--------------------------	---

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)



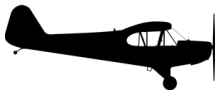








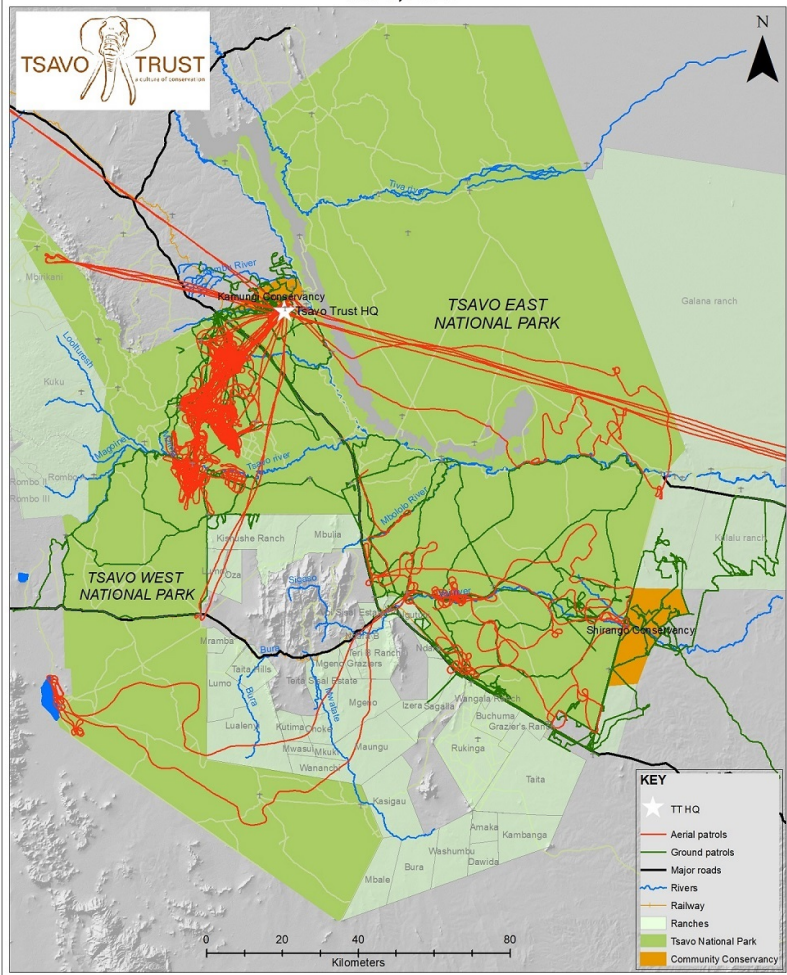


Aerial Reconnaissance and Ground Patrols - Areas Covered:

- 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, 2022**



*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:** 57 hours flown covering 8,078 kilometers over Tsavo in support of KWS.*

***Ground:** 1,111 kilometers of foot patrol and a further 21,187 kilometers of vehicle patrol in Tsavo to support KWS.*

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

***Below:** 21/07/22: Photo shows a new Roaming Biodiversity Protection T9 Team (Joint KWS/TT). The team will assist KWS in addressing threats facing Lions in Tsavo. The team is equipped with a new offroad rigged Landcruiser acquired with generous funding support from Lion Recovery Fund.*



Field Key Notes & Observations:

- **Table 2: Elephant Carcasses Observed: Shows fresh and recent elephant carcasses observed:**

Date	No.	Fresh Carcass	Recent Carcass	Old Carcass	Cause of Death	Location
06/07/2022	1	-	-	1	Unknown, KWS/TT recovered 2 tusks	TENP – Satao
07/07/2022	1	1	-	-	Unknown, KWS/TT recovered 2 tusks	TWNP – Roaring rocks
Month Total	2	1	-	1		
Total 2022	14	7	4	3		

- **Table 3: Poachers Activities Observed: Shows fresh and recent poachers' blinds/hides/platforms observed:**

Date	No	Fresh Poachers hide, blind, camp	Recent Poachers hide, blind, camp	Location
Nil	-	-	-	-
Month Total	-	-	-	-
Total 2022	8	7	1	
Not included	Charcoalers camps close to TENP boundary – Kulalu Ranch, and cattle bomas outside the Parks			

- **Table 4: Illegal livestock grazing: Shows aerial & ground observations - active livestock bomas & estimated number livestock inside the Parks only:**

TCA Park	Active Bomas	Cows	Shoats	Herders/People	Others / Notes
TENP	-	470	-	2	Illegal herders arrested and booked at Voi Police station. Livestock released after payment of bond/fines.
TWNP	5	3,800	-	21	Location of livestock spotted from the air shared with KWS. Several cattle drives done.
TOTALS	5	4,270	Nil	23	

Table 5: Shows some examples of joint KWS/TT activities and outcomes from aerial patrols:

Date	Incident	Location
<i>Routine & Monthly</i>	<i>Regular aerial patrols carried out to complement KWS Park field operations & management</i>	<i>TENP, TWNP, and dispersal areas</i>
07 to 11 July 2022	Supported KWS in a Rhino notching and VHF transmitter fitting exercise. 11 rhinos darted, 10 fitted with transmitters and 4 notched. This will enable better monitoring and protection of TWNP IPZ rhinos.	TWNP - IPZ
29/07/2022	Rhino Monitoring flight – 9 free-ranging rhinos recorded.	TWNP IPZ
30/07/2022	Reported 13 herders illegally grazing 3,430 cattle inside National Park	TWNP Southern sector

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 and provide 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.	Bushmeat 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	1 1 bushmeat poacher	-	15 All medium game snares	8 kg 2 Dik-diks	1 panga and 1 bicycle	-	-	2,841	339
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	31	4 2 illegal herders & 2 bushmeat poachers	-	165 160 small 5 medium	5 kg Dik-dik	Cooking equipment	-	7 3 HEC, 4 HCC 18 elephants driven from farms at night by TT/KWS Team	1,880	190
Tembo 5	31	1		2					3,485	158

(TWNP) 6 TT Scouts + 3 KWS Rangers		Illegal herder	-	Large	-	1 spear	-	-		
Tembo 7 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	31	2 All Illegal herders	-	82 50 small 32 medium	580 kg 1 Grevy's zebra & 6 Impala	-	-	-	3,696	174
Tembo 9 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	10 Newly deployed team	5 Illegal entry (scouting grazing areas)	-	-	-	-	-	-	1,497	36
Kamungi Scouts 4 Scouts	31	-	-	53 44 small 2 medium 7 bird traps	3 kg 1 cape hare (snared)	-	-	-	33	214
TOTALS	165	13	Nil	317	596 kg	As above	Nil	7	13,432	1,111
Total 2021	1,024	63	10	973	1,641 kg	-	8	45	71,821	6,502

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) 	30	-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 – 22 sighting -Hirola – 14 sightings -Grevy's Zebra – 1 sighting -Large Carnivores – 22 Ground Hornbill - 5 -Road & Rail kills – 4 -Elephant carcasses – 1 -Ivory recovered. – 2 -Rain gauge readings -Collared elephants – 2 Carnivore scat collect – 0	Tsavo East Nat. Park – mainly southern, central, and eastern sections including, Voi River & Shirango Conservancy	4,690
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 – 24 -Tuskers - 0 -Large Carnivores – 1 -Collared elephants – Nil -Elephant carcasses – 1 -NRS Rhino night census – N/A	Tsavo West Nat. Park – IPZ and Triangle	3,065
TOTALS	61	As above	As above	As above	7,755
Total 2022	396	-	-	-	53,455



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 Makuani 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-location; 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	17 community meetings held ➤ Kamungi Monthly meeting 26/06/22 ➤ Kamungi Conservancy board meeting 15/07/22 ➤ LDO (MADET) learning review workshops ➤ The Elephant Queen conservation education and outreach meeting. ➤ Darwin Initiative capability and capacity project launch held in Kamboyo, TWNP. ➤ UKAM livelihood training in beekeeping.	4 community meetings held ➤ Earth dam certification. Chief Officer's office Department of Roads and Public Works, Kilifi County. ➤ USAID funded Sustainable Management of Tsavo and Amboseli Landscape Project launch – Chyulu Hills National Park. ➤ Earth dam construction site visit – 29/07/2022.

	➤ Appraisal and mentorship of TT education Bursary scheme beneficiaries. ➤ Mtito Andei's Chief monthly meeting	
Membership	Through a registered CBO KC membership represents 140 families & over 1,400 individuals from 2 villages, mainly from the WaKamba community. Considerable interest for more membership from villages to the west towards Mtito	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	92,420 litres of water issued. (491,730 litres for year to date) Ngiluni Primary School connected to piped water.	Boreholele, pump, and solar panels are in place, but saline water. Construction of an earth dam is completed.
Basic Health care	266 patients attended (1,514 for year to date).	There is a need to support this project
Constructions	Honey processing room completed and opened by Governor Makueni C. on 25/1/22	Scouts HQ completed Construction of an Earth dam completed
Education	Paid for 2 teachers (1-Ngiluni & 1-Kamunyu School in KC) for the last 9 years. Ongoing.	None at present
Bursary Scheme	Started on April 22 5 needy students selected being supported.	None at present
Village Saving & Loan Associations – VSLA's	5 women-run VSLAs are in progress: 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, permaculture	Scouts trained on GPS use & data collection
HWC Mitigation	7 x 1-acre bee fences, total 105 beehives with 9 currently occupied.	N/A yet
Elephant Bee Fence	10% fence plan completed Phase 2 completed: Total 12 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	N/A yet
10% Fence Plan		
Predator Proof bomas	7 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: 18 elephant; 5 lion; 1 leopard; 1 wild dog and 1 snakebite.	12 cases were recorded: 1 lion; 7 hyena; 2 elephant; 1 cheetah and 1 mongoose.
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:



Well maintained electric fences have been proven effective in mitigating Human Elephant Conflict. On the flip side, elephants are intelligent animals, and some find ingenious ways of getting into restricted areas. For example, the photo above shows a bull elephant leaping over a fence. The fence was under maintenance with no current going through at the time. Photo taken by Tsavo Trust's Christine Mwendu on 27/07/2022.

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; Leopardess Foundation; JM Foundation Africa; Cheyenne Mountain Zoo; Save The Elephants (STE); 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); The Glassybaby Foundation; Georg Waechter Memorial Foundation; Maliasili; EU-Biopama Programme; Tofauti Foundation; Ndovu Trust (UK); Satao Camp & Southern Cross Safaris (Msa); Origins Safaris; Ker & Downey Safaris; Tropical Ice Ltd; OnSafari-Kenya; Askari Project–Australia; Exodus Travel; Maasai Wilderness Conservation Trust (MWCT); Chesbro Foundation; Milkywire; Off Piste Africa; Empowers Africa; Enos Enterprises–Tembo Wine; 51 degrees-Vulcan; Conservation Alpha; World Book; Lewa Canada; Prints for Conservation; twio, Remembering Wildlife Books and many more.

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; Karen Laurence-Rowe; Alex Hunter; John Carr; Max Haller; Anthony Cheffings; Prints for Conservation; Chris Acreman and numerous other enthusiasts.

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

All photographs ©Tsavo Trust 2022