



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

MARCH 2022 MONTHLY REPORT



10th March 2022, photo (Nick Haller) shows a very healthy TENP bull rhino "Mwangi".

SUMMARY of ACTIVITIES:

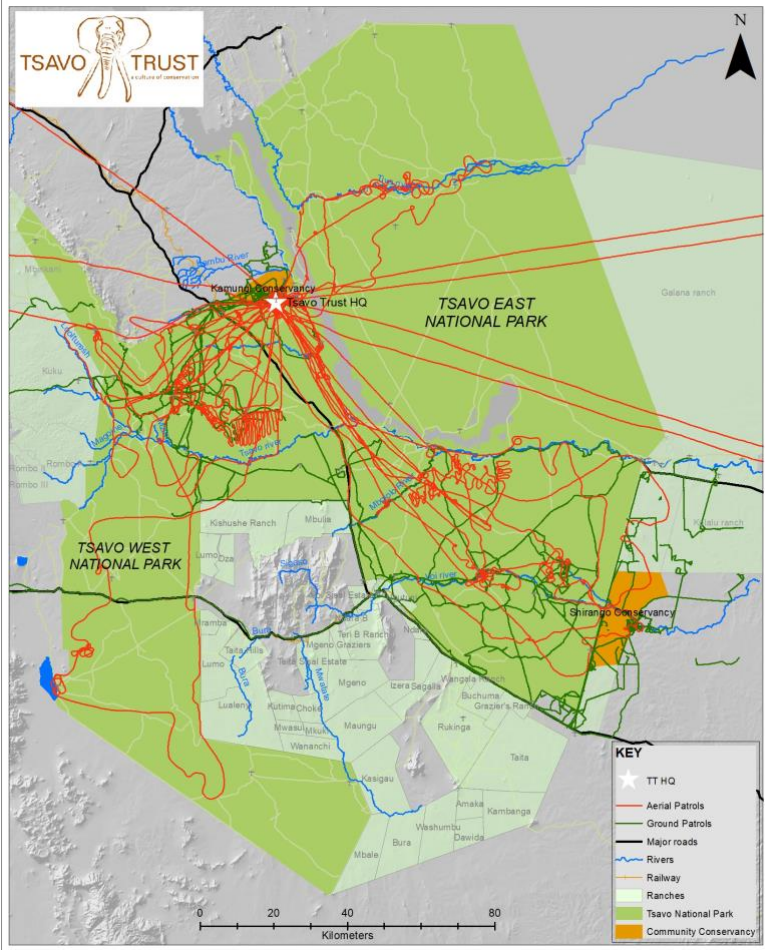
WILDLIFE CONSERVATION PROGRAM: <i>Big Tusker Project – Aerial & Ground Activities</i>		
Activity	Hours Flown	Kilometers Covered
 Aerial Unit	55 (141 for year) Average 115km p/h of low-level flight	6,343 (16,341km for year) Flights carried out jointly with KWS staff
 Rhino Aerial Patrols	Aerial Patrols: 16.5 (6 TWNP; 1 TENP) (51hrs for year to date)	Aerial: 1,875 (5,818km for year)
	Field Patrol Days	Kilometers Covered
Ground Protection Activities (Joint with KWS / TT & Community Scouts)	Protection teams: 155 days (404 to date) Monitoring teams: 56 days (114 to date)	Vehicle patrols: 9,426km (27,630km to date) Foot patrols: 959km (2,489km to date) Monitoring teams: 8,485km (23,239km to date)
 Big Tusker Project	8 Tuskers - 2 Super Tusker bulls (5 sights), 6 emerging bulls (16 sights), Nil cow Tusker (Nil sights): 21 individual observations	
Collared Elephant Sightings: Joint KWS/STE/TT program	16 sightings: record forms submitted to STE (aerial and ground observations)	
Ivory recovered	6 elephant tusks (12 for year to date)	
Elephant mortality	Fresh: 1 (c of d: 1 natural) (Less than 3 weeks old)	Recent: 2 (c of d: 2 natural) (Less than 3 months old)
High Value Species Monitoring	Ongoing partner with KWS TCA Research under WRTI: Monitoring Hirola, Grevy's zebra, large carnivores, Road Kill Surveys, Southern Ground Hornbill etc	
Wildlife - Treatment & Translocation	Venomous snakes re-located from communities: 2 Red spitting cobras; 1 Puff adder; 1 Link marked s/snake Others: 1 buffalo - snare removal, TENP, Murondo	
Poacher camps/hides	Fresh - Nil	Recent – Nil
Arrests – joint KWS/TT	7 – 2 bushmeat poachers; 5 illegal wood harvesting (20 for year to date)	
Snares/traps recovered	75 by Tembo Teams: 132 snares to date 2022 (111 small; 19 medium, 2 large)	
Bushmeat recoveries (wet & dried)	37kg (436kg for year to date) 1 L/Kudu; part Impala; 2 Dik-dik	
Poachers Equip. Recvd.	3 poisoned arrows; 1 panga; 1 knife; cooking equip.	
Night Ambushes	Joint KWS / TT: 11 (8 Kulalu/Shirango/Dakota-Voi River/Morondo; 3 Mungai Hill, Iliconi)	
Firefighting	Nil	
Human Elephant Conflict	Joint TT-KWS team: 11 elephants driven from farmlands east of Mtito Andei (11 elephants pushed from farms - Mar2022 compared to 193 in Mar21 = 94% reduction following TT fence)	
Human Wildlife Conflict	1 speared lion carcass located (KWS / TT) outside TWNP	
Illegal Livestock (only in PA)	Nil live cattle bomas (1,350 cows; Nil shoats; 1 donkey; 7 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; Maliasili – African Conservation Leadership Course	
TT HQ Rainfall figures	17mm. Total rainfall to date for 2022: 17mm	
Significant notes	• Tsavo Trust acknowledged in research paper titled “Wildlife roadkill in the Tsavo Ecosystem, Kenya: identifying hotspots, potential drivers, and affected species” (F. Lala & J. Bump). TT has fed into this research over the last 7 years, and as a team have documenting thousands of road killed wildlife. • Makueni Development Trust (MADET): Since January 2022 Tsavo Trust was chosen to support and help operationalize MADET with seed funding from USAid through the Aga Khan Foundation (EA) – Yetu Initiative. This is a key development project for Makueni County.	
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)		
 Kenya Wildlife Service	 ZSL LET'S WORK FOR WILDLIFE	 SAVE THE ELEPHANTS 拯救大象
 Excellent	 Africa Sand Dam Foundation	 MAASAI WILDERNESS CONSERVATION TRUST
	 Maliasili INVESTING IN PEOPLE FOR NATURE	
	 Kamungi Conservancy	



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 flight paths 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
March, 2022.



*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:** 55 hours flown covering 6,343 kilometers over Tsavo in support of KWS.*

***Ground:** 959 kilometers of foot patrol and a further 17,911 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.*

***Right:** 3rd March 2022: Photo shows Kamungi Conservancy Board Member, Kyalo Ndeto, with his recent haul of 14kg of pure honey, collected from his “elephant & bee fence” (STE & TT).*



***Left:** Aerial photo shows the recently completed “Rhino Viewing Platform” in TWNP's Ngulia Rhino Sanctuary.*

This self-catering and unique facility will be made available for booking shortly.

This is a joint KWS / Tsavo Trust project to raise rhino awareness and revenue generation for rhino.

Field Mobile Units:

Tembo 1, 3, 5, 7 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, 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	5 Illegal wood harvesters	4	23 16 small 6 medium 1 large	27kg 1 Lesser kudu 2 Dikdik	-	-	-	3,046	245
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	31	2 2 bushmeat poachers	1 piece elephant tusk	39 37 small 2 medium	10kg Impala meat	3 p/arrows 1 panga 1 knife Cooking equip	-	4 HEC 11 elephants driven from farms at night by TT/KWS	2,510	185
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	31	-	-	1 1 large	-	-	-	1 HCC 1 lion speared by Maasai outside TWNP	1,066	188
Tembo 7 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	31	-	2	-	-	-	-	-	2,771	133
Kamungi Scouts 4 Scouts	31	-	-	12 10 small 2 medium	-	-	-	-	33	208
TOTALS	155	7	4	75	37kg	As above	Nil	5	9,426	959
Total 2021	404	20	6	132	436kg	-	6	17	27,630	2,489

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) 	23	-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 – 16 sighting -Hirola – 11 -Grevy's Zebra – nil -Large Carnivores – 11 Ground Hornbill - 8 -Road & Rail kills – 10 -Elephant carcasses – 1 -Ivory recvd. – 2 -Rain gauge readings -Collared elephants – 8 Carnivore scat collect – 0	Tsavo East Nat. Park – mainly southern, central and eastern sections including, Voi River & Shirango Conservancy	3,370
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 – 6 -Tuskers - 0 -Large Carnivores – 4 -Collared elephants – nil -Elephant carcasses – nil -NRS Rhino night census – n/a	Tsavo West Nat. Park – IPZ and Triangle	5,115
TOTALS	56	As above	As above	As above	8,485
Total 2022	114	-	-	-	23,239

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 Makueni 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 spear head activities. Salaries generate over \$3,000 (Ksh.330,000) of income monthly.
Community Mobilization and Sensitization Meetings	10 community meetings held ➤ Mtito Fence meeting: GMC, TT/Kamungi, KWS, ZSL - HWC ➤ Makueni Dev. Trust ➤ Board Meeting 19/2/22 ➤ School bursary scheme initiated ➤ 10% Fence meeting ➤ Bee keeping workshop & honey sales ➤ Land issues/challenges with land sales	2 community meetings held ➤ Earth dam construction for water ➤ Chiefs Office baraza re Land Management Committee & registration - ongoing
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	81,180 litres of water issued. (165,120 litres for year to date) Piped water to Ngiluni school now	Bore hole, pump and solar panels are in place, but saline water. Plans for construction of an earth dam underway.
Basic Health care	44 patients attended (533 for year to date).	There is need to support this project
Constructions	Honey processing room-completed and opened by Governor Makueni C on 25/1/22	Scouts HQ completed
Education	Paid for 2 teachers (1-Ngiluni & 1-Kamunyu School in KC) for the last 9 years. Ongoing.	
Bursary Scheme	To start up in April22 No activities yet.	None at present
Village Saving & Loan Associations – VSLA's	5 women run VSLA's 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, HWC mitigation	Scouts trained on GPS use & data collection
HWC Mitigation	7 x 1-acre bee fences, total 105 beehives with 12 currently occupied. 23kg harvested.	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)	32 cases recorded: 31 elephant; 1 crocodile	11 cases recorded: 3 lion; 7 hyena; 1 Cheetah
Land Tenure	Ongoing	SCC land currently traditional communal mode of ownership, not legally protected. Efforts underway to ensure the local communities legally own their land. Ongoing.
Wildlife Census Transects	1	None
Operations and Security	➤ See Field Units table above	➤ See Field Units table above

Unusual Photo of the Month:



9th March 2022: Photo taken from the Super Cub by Nick Haller (TT Pilot and Operations Officer) showing a happy and fit looking pride of 8 lions near Mbololo B sand dam in TENP. Usually TENP lions look a little scrawnier than these?

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 – Chief Executive Officer, Tsavo Trust

All photographs ©Tsavo Trust 2022