

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

WILDLIFE CONSERVATION PROGRAM: Big Tusker Project – Aerial & Ground Activities		
Activity	Hours Flown	Kilometers Covered
 Aerial Reconnaissance	53 (455 for year) Average 114km p/h of low-level flight	5,270 (51,308km for year) Flights carried out jointly with KWS staff
 Rhino specific flights	19.5 (129 for year)	2,193 (17,147km for year)
	Field Patrol Days	Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 155 days (966 to date) Monitoring teams: 53 days (395 to date)	Vehicle patrols: 11,828km (65,512km to date) Foot patrols: 971km (4,939km to date) Monitoring teams: 7,203km (50,104km to date)
 Big “Tuskers” observed	7 Tuskers - 2 Super Tusker bulls, 4 emerging bulls, 1 cow Tusker = 13 individual observations	
Ivory recovered	2 elephant tusks (18 for year)	
Elephant mortality	Fresh (less than 3 weeks old)	Recent (less than 3 months old)
	2 – (c of d: 2 poached – 1 snared, 1 speared)	Nil (c of d:)
Poacher camps/hides	Fresh - Nil	Recent – Nil
Arrests	8 – by KWS / TT – 7 bushmeat; 1 hardwood poachers (36 for year to date); Bushmeat recvd (wet & dried): 8kg (220kg for year to date)	
Snares/traps recovered	214 by Tembo Teams: 631 snares to date 2021 (529 small; 82 medium, 21 large)	
Human Wildlife Conflict	Joint TT-KWS team: 117 elephants driven from farmlands east of Mtito Andei (1,465 elephants pushed out of farms in 2021 to date – ave. 7 per night)	
Illegal Livestock (only in PA)	32 live cattle bomas (26,460 cows, 6,550 shoats, 330 camels + 74 men)	
Written reports to KWS	66 (daily Situation reports, various communications & 1 monthly report)	
Significant notes	• Bushmeat poaching remains a real challenge with signs of illegal elephant mortality seen • Bushfires have started again with 3 firefighting incidents • 2/7/21: TT elected to the Board of Makueni Development Trust (MADET) as further developments continue with County Govt. of Makueni • 23rd to 25th July21: KWS led NRS full moon rhino census sponsored by TT & ZSL	
COMMUNITY CONSERVANCY PROGRAM:		
Kamungi Conservancy North boundary TWNP 	• <u>Employment</u> (through T/Trust): 36 permanent, 15 temporaries • <u>Membership</u>: 1,400 people • Community Mobilization meetings: 15 • Ongoing Projects: Water project; 10% fence plan; VSLA’s; HEC-fence; Dispensary support; Permaculture Project; trainings • Human Wildlife Conflict (HWC): 58 reports, mainly crop raiding elephants, leopard & lion issues • Security Ops (KWS, T3 & KS):	
Shirango Conservancy South East boundary TENP 	• <u>Employment</u> (through T/Trust): 12 permanents • <u>Membership</u>: 2,300 people • Community Mobilization meetings: 3 • Ongoing Projects: Water project; anti-poaching; land tenure • Human Wildlife Conflict (HWC): 11 reports elephant & livestock predations • Security Ops (KWS T1, T7 & SS):	
FORMAL FIELD CONSERVATION PARTNERS:		
(Full list of supporters/partners shown on last page)		
  	 	   

WILDLIFE CONSERVATION PROGRAM:



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

Table 1: Summary of Big Tusker Project (BTP)

Activity / Detail	Number & Brief Remarks
BTP individual Tusker sightings	Total = 13 sightings
Super Tusker Bulls	2 individuals (5 sightings)
Emerging Tuskers (bulls)	4 individuals (7 sightings)
Iconic Cow Tuskers	1 individual (1 sighting)
Elephant Mortality	2: - 2 fresh (c of d: 1 poached by cable snare, 1 by spear)
Ivory Recovered	2 tusks
Elephant Treatment/Translocation	1 cable snare removed but elephant later died
Wildlife Rescues (mainly venomous reptiles)	7: 1 elephant juvenile, but later died. 1 Black mamba; 3 red spitters; 1 Puff-adder; 2 sand snakes
Rhino Aerial Patrol Support (KWS / ZSL / TT partnership)	8 rhino specific reces: 2,193km flown = 19.5hrs (5 TW & 3 TE)
HWC cases attended to	33 (117 elephants driven from community farmland east of Mtito Andei)
Arrests	8 (7 bushmeat poachers, 1 hardwood poacher)
Wire Snares Recovered	214 (200 small, 13 medium, 1 large)
Bush Meat Recovered (Kg)	8kg (dried Dik-dik & lesser kudu meat)
Poachers Equip. Recovered	1 spotlight, 4 axes, 4 pangas, 2 bicycles, 1 pump, 1 bag
Poachers' camps/Blinds	Nil (-)
Night Ambushes set	7 (5 Kulalu/Giriama/Shirango, 2 Kishushe)
Response to Armed Situations	Nil
Foot patrols (km) Tembo Teams	971km foot patrols – 6 teams
Collared Elephant Observations	12 sighting record forms submitted to STE (joint KWS/TT teams)
High Value Wildlife Monitoring	Ongoing partner to KWS TCA Research (Hirola, Grevy's zebra, carnivores)
Firefighting cases	3 (1 Kanga TW, 1 Chyulu Hills Bondeni, 1 Ndii TE)
Illegal Cattle Drive KWS Support	Nil
Charcoal & Logging	3
Training	2 TT Officers Masters training; 1 KWS Officer Masters training; HWC community training
TT HQ Rainfall	Nil mm. Total rainfall to date: 265mm



27th July 2021: Photo shows one of the many rhino's observed during the TWNP full moon night census carried out by KWS with support partners Tsavo Trust and Zoological Society of London (ZSL) who fund this vital activity jointly.



- TSAVO TRUST'S AERIAL AND GROUND PATROLS**
July, 2021.



Aerial: 53 hours flown
covering 5,270
kilometers over Tsavo in
support of KWS.

Ground: 997 kilometers of foot patrol and a further 19,031 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.



Field Key Notes & Observations:

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

Date	No.	Fresh Carcass	Recent Carcass	Cause of Death	Location
9/7/21	1	1	-	Poached (cable snare), KWS/TT recvd. 2 tusks	Kulalu, Degudegu
19/7/21	1	1	-	Poached (spear wound), KWS recvd. 2 tusks	TWNP, Manda
Month Total	2	2	-		
Total 2021	12	9	3		

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

Date	No	Fresh Hide, Blind, platform	Recent Hide, Blind, P/Camp	Fresh Poacher camp	Location
-	-	-	-	-	
Month Total	Nil	-	-	-	
Total 2021	15	-	1	14	-
Not included	Charcoalers camps close to TENP boundary – Kulalu Ranch, and cattle bomas outside the Parks				

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

TCA Park	No. Flights	Active Bomas	Livestock numbers est.
TENP	3	19	21,840 cows; 4,280 shoats; 330 camels; 74 men
SKNR	1	1	
TWNP	1	12	4,620 cows; 2,270 shoats
TOTALS	5	32	26,460 cows; 6,550 shoats; 32 bomas; 330 camels; 74 men

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

Date	Incident	Location
Routine & Monthly	Regular aerial patrols carried out to compliment KWS Park field operations & management	TENP, TWNP and dispersal areas
9/7/21	Rhino recce: 7 rhino & 1 iconic cow Tusker F-DI1	TENP, IPZ
14/7/21	Illegal livestock recce: 8 live bomas; 10,400 cows; 1,170 shoats; 14 men	TENP, Tiva to Emusaya
19/7/21	Illegal livestock recce: 12 live bomas; 4,620 cows; 2,270 shoats; 1 freshly speared elephant carcass; 1 collared elephant; 3 cheetah; 4 southern ground hornbill	TWNP, Manda

Financial Support to KWS Activities Inside TWNP & TENP:

Table 6: Shows brief costs of activities carried out by Tsavo Trust to compliment KWS in Tsavo:

TT Activity	Cost (\$) Justification	Total \$
Aerial support – ongoing TENP & TWNP	53hrs in Super Cub aircraft @ \$250 all incl.	13,250
Vehicle running costs - Field Mobile Teams (Tembo 1, 2, 3, 4, 5 & 7) – ongoing TENP & TWNP	6 vehicles covered 19,031km @ \$1 p/km incl. fuel, tires, maintenance, servicing & f/c insurance	19,031
TT Field Staff x 33 (Tembo teams)	Not Included	-
TENP - Dakota Platoon Vehicle Diesel	100ltrs p/month – security vehicle	100
TENP - DSTV Dakota Base - ongoing	Monthly subscription – staff welfare	40
TENP – Vehicle canvas cover	New L/Cruiser canvas cover SO Ops vehicle	520
TWNP – NRS Rhino Night Census	50% costs of KWS NRS rhino night census	750
TWNP – Cattle drive	Assistance of field rations to KWS (June21)	250
TWNP - NRS / IPZ Rhino fuel support	200ltrs diesel – rhino security	200
TWNP – Grader maintenance	60 litres grader hydraulic fluid	240
TCA Aerial Census support – June21	10 x 200ltr drums Avgas fuel for aircraft	4,650
TOTAL MONTH		\$39,031
TOTAL 2021 to DATE:		\$266,711

Field Mobile Units:

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

Tembo 2 & 4 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.	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	-	-	6 1 small 4 medium 1 large	-	-	-	-	2,422	266
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	31	4 3 Bushmeat 1 hardwood poacher	-	161 152 small 4 medium 5 bird traps	2kg 2 Dik-diks	1 spotlight 1 axe 1 panga 1 bicycle	-	31 HWC 27 HEC 3 HCC Total 117 elephants driven from farms at night by TT/KWS team	2,938	178
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	31	Nil	-	42 37 small 5 medium	-	-	-	-	2,632	179
Tembo 7 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	31	4 Bushmeat poachers	2 Elephant tusks	5 5 small 1 large	6kg Dried Lesser Kudu & Dik-dik meat	3 axes 3 pangas 2 bicycles 1 bag	-	2 HWC 1 elephant and 1 hippo driven from community	2,806	127
Kamungi Scouts 4 Scouts	31	Nil	-	-	-	-	-	-	30	221
TOTALS	155	8	2	214	8kg	As above	Nil	33	11,828	971
Total 2021	966	36	18	631	220kg	-	15	447	65,512	4,939

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) (2 TT staff + 2 KWS) 	22	-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 – 9 sighting -Hirola – 4 -Grevy's Zebra – 2 -Large Carnivores – 12 Ground Hornbill - 2 -Road & Rail kills – 1 -Elephant carcasses – Nil -Ivory recvd. – Nil -Rain gauge readings -Collared elephants – 3 Carnivore scat collect – 0	Tsavo East Nat. Park – mainly southern, central and eastern sections including Shirango Conservancy	2,678
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 – 21 -Tuskers - nil -Large Carnivores – 4 -Collared elephants – nil -Elephant carcasses – nil -NRS Rhino night census – 118	Tsavo West Nat. Park – IPZ and Triangle	4,525
TOTALS	53	As above	As above	As above	7,203
Total 2020	395	-	-	-	50,104



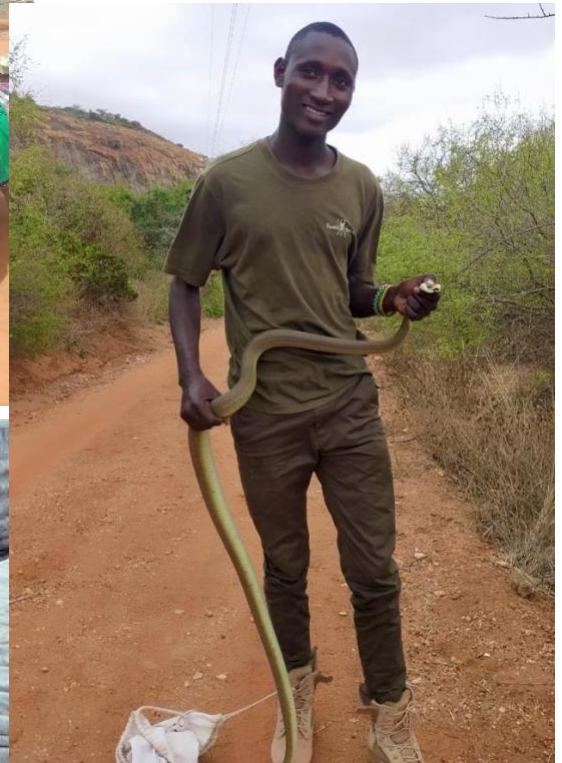
COMMUNITY CONSERVANCY PROGRAM:



ACTIVITY	KAMUNGI Conservancy	SHIRANGO Community Conservancy
Ongoing partnership between Tsavo Trust & KC & SCC	North boundary of TWNP – Triangle. Total area 101km ² Makueni County; Kibwezi Sub county; Mtito Andei Division; Mtito Andei Sub-location; Ngiluni Village.	South boundary of TENP – Voi River area. Total area 270km ² Kilifi County; Ganze Sub-location; Bamba Ward; Mitangani location; Gede Sub-location.
Employment (through Tsavo Trust)	Between Tsavo Trust & partners 36 permanent staff & 15 casual staff employed generating over \$10,000 (Ksh.1,000,000) of income into Kamungi monthly.	Tsavo Trust employs 12 staff from SCC including a Community Liaison Officer (CLO) to spear head activities. Salaries generate over \$2,200 (Ksh.220,000) of income monthly.
Community Mobilization and Sensitization Meetings	15 community meetings held ➤ Makueni Dev. Trust ➤ SAPA meetings ➤ Board Meeting ➤ VSLA's ➤ KWCA ➤ 10% Fence Planning meeting	3 community meetings held ➤ 7/7/21: Kilifi Lands Office ➤ 13/7/21: Asst. County Commissioner ➤ 14/7/21: SCC Board & Chief meeting - Ndaraku
Membership	Through a registered CBO KC membership represents 140 families & over 1,400 individuals from 2 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	120,281 litres of water issued. Connected piped water to Ngiluni school	Bore hole, pump and solar panels are in place, but saline water. Plans for construction of an earth dam underway if funded.
Basic Health care	294 patients attended (1,663 for year to date).	This is currently dis-functional. Nearest health centre is 10km away. 50% of residents rely on traditional herbal medicines.
Constructions	Scouts HQ & Office/store completed	Scouts HQ completed
Basic Education	Tsavo Trust has paid for 2 teachers (1 at Ngiluni & 1 at Kamunyu School within KC) for the last 8 years. This is ongoing.	No activities as yet.
VSLA – Savings Groups	5 Village Savings & Loan Association (VSLA) are in progress – partnership between ZSL / KC & TT	None at present.
Training	VSLA, permaculture & HWC mitigation	Scouts trained on GPS use & data collection
HWC	7 x 1-acre bee fences, total 105 beehives with 15 currently occupied.	N/A yet
Elephant Bee Fence	10% fence plan completed Phase 2 started with another 3 plots: Total 6 plots (HWC electric fencing of 10% of individual land).	N/A yet
10% Fence Plan	7 predator proof bomas set up: by TT/ZSL	N/A yet
Human Wildlife Conflict (HWC)	58 cases recorded: 42 elephant cases; 4 Leopard; 12 lion	11 cases recorded: 3 elephants; 3 Cheetah; 1 lion; 4 hyena
Land Tenure	KC: historically Ngai Ndethia NR. Land surveyed and sold to individuals under Ngiluni Settlement Scheme in the 1970's but Title Deeds have yet to be issued. 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 table above	➤ See table above



Left: 14th July 2021: Community meeting held at Ndaraku center discussing Shirango Conservancy needs with local Government regarding land tenure and other issues.



Above right: 15th July 2021: Patrick Mutua, Tsavo Trust's trained and professional snake handler, having just caught a highly venomous 9-foot Black Mamba (*Dendroaspis polylepis*) at a residence at Wildlife Works (conservation partner of TT) near TENP. This snake along with many others have been caught and moved to safer locations away from humans as part of an ongoing project between Tsavo Trust / Bio Ken Snake Farm (also known as the Taylor Ashe Antivenom Trust - TAAT) and KWS.



Above: 8th July 2021 shows the desperate situation that this juvenile elephant was in, having been caught in a cable snare, and found by joint KWS / Tsavo Trust Tembo 7 de-snaring team on Kulalu Ranch outside TENP. Although the snare was removed by the TCA Vet Unit, attempts to revive this elephant sadly failed.



23rd July 2021: a herd of elephants enjoying water at the Mbololo B sand dam seepage in TENP. Sand dams are proving a sustainable water source success story.

Unusual Photo of the Month:



*27th July 2021 shows a rare White-Headed Vulture (*Trigonoceps occipitalis*) in Tsavo East NP. These vultures are critically endangered (listed in 2015) and there are believed to be less than 5,500 individuals remaining, where large Protected Areas remain their only viable habitat, such as Tsavo where we have some breeding pairs that are regularly observed.*

With sincere thanks and appreciation:

Organisations: Kenya Wildlife Service; USAID/DOI; US Fish & Wildlife Service; The Oak Foundation; Leopardess Foundation; JM Foundation Africa; Cheyenne Mountain Zoo; Save The Elephants (STE); Global Wildlife Conservation (GWC); Tusk Trust; Rhino Recovery Fund (WCN); International Elephant Foundation (IEF); Disney/Wildlife Conservation Society (WCS); Zoological Society of London (ZSL); Georg Waechter Memorial Foundation; Maliasili; EU-Biopama Programme; The Glassybaby Foundation; Ndovu Trust (UK); Satao Camp & Southern Cross Safaris (Msa); Origins Safaris; Ker & Downey Safaris; Tropical Ice Ltd; OnSafari-Kenya; Askari Project–Australia; Tofauti Foundation; Maasai Wilderness Conservation Trust (MWCT); Chesbro Foundation; Milkywire; Elephant Cooperation; Off Piste Africa; Empowers Africa; Enos Enterprises–Tembo Wine; 51 degrees-Vulcan; Conservation Alpha; JW Seagon Insurance; World Book; Lewa Canada; Prints for Conservation; Remembering Wildlife Books and many more.

Individuals: Stuart Herd; Sir Colin Southgate; Nick Southgate; Nicole Honegger; Alex Graham; Nick Powell; James Robertson; The Kratt Family; Loic Gouzer; Griet Van Malderen; Nick Lapham; The Davies Family; Mike Kirkland; Paul Block; Anita Mishra & Paolo Mapelli; James Lewin; the late John Fletcher; Paul & James Wilson; James Chiappa; David Calderone; Will Burrard-Lucas; Drew Doggett photography; Goh & Courtney Iromoto; the Kiddingtons; Marie de Brouwer; Renzo Bernardi; Howard Saunders; Sandor Carter; Sean Dundas; Karen Laurence-Rowe; John Carr; Anthony Cheffings; Andreas Fox; Paolo Parazzi; Sam Stogdale; Prints for Conservation; Johan Marais; Chris Acreman; Alex Hunter and numerous other enthusiasts.

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

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