

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	61 (131 for year) Average 114km p/h of low-level flight	6,948 (14,590km for year) Flights carried out jointly with KWS staff
 Rhino specific flights	13 (27.5 for year)	1,503 (3,216km for year)
	Field Patrol Days	Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 112 days (224 to date) Monitoring teams: 56 days (113 to date)	Vehicle patrols: 7,135km (14,400km to date) Foot patrols: 545km (1,118km to date) Monitoring teams: 7,834km (14,757km to date)
 Big “Tuskers” observed	16 Tuskers - 7 Super Tusker bulls, 7 emerging bulls, 2 cow Tuskers = 53 individual observations	
Ivory recovered	Nil elephant tusks (3 for year)	
Elephant mortality	Fresh (less than 3 weeks old)	Recent (less than 3 months old)
	Nil – (c of d: -)	Nil (c of d: -)
Poacher camps/hides	Fresh - 6	Recent – 1
Arrests	4 – by KWS / TT – 1 bushmeat poacher; 3 charcoalers (7 for year to date); Bushmeat recvd: 29kg (45kg for year to date)	
Snares/traps recovered	57 by Tembo Teams: 101 snares to date 2021 (76 small; 10 medium, 15 large)	
Human Wildlife Conflict	Joint TT-KWS team: 344 elephants driven from farmlands east of Mtito Andei (529 pushed out of farms in 2021 to date)	
Illegal Livestock (only in PA)	4 live cattle bomas (2,750 cows+) Only 2 livestock flight	
Written reports to KWS	48 (daily Situation reports, various communications & 1 monthly report)	
Significant notes	- Serious HEC continues east of Mtito / Kamungi. Joint TT – KWS PAMU mobile teams (344 elephants pushed from farmlands in Feb21 alone) - Ongoing plans for HEC mitigation fence: Mtito East 25/2/21: Treated Super Tusker IL1 for leg wounds - Highest no. of Tusker observations since TT started in Jan2013	
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: 10 - Ongoing Projects: Water project; 10% fence plan; VSLA's; feeding program; HEC-fence; Dispensary support; trainings - Human Wildlife Conflict (HWC): 30 reports, mainly crop raiding elephants, leopard issues - Security Ops: 1 snares recvd.	
Shirango Conservancy South East boundary TENP 	<u>Employment</u> (through T/Trust): 12 permanents <u>Membership</u>: 2,300 people - Community Mobilization meetings: 5 - Ongoing Projects: Water project; anti-poaching; land tenure - Human Wildlife Conflict (HWC): 11 reports all livestock predations - Security Ops: T1 team: 1 arrests (bushmeat); 45 snares recvd; 29kg bushmeat	
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 = 53 sightings (highest monthly sightings since started in Jan2013)
Super Tusker Bulls	7 individuals (39 sightings – highest monthly sightings since started in Jan2013). Tusker IL1 seen 25 times in Feb21 – MWCT/TT monitoring his leg injury
Emerging Tuskers (bulls)	7 individuals (10 sightings)
Iconic Cow Tuskers	2 individuals (4 sighting)
Elephant Mortality	1: Nil fresh; Nil old (c of d:-)
Ivory Recovered	Nil tusks (-)
Elephant Treatment/Translocation	1: to S/Tusker IL1 for serious foot injury
Wildlife Rescues	Nil
Rhino Aerial Patrol Support (KWS / ZSL / TT partnership)	7 rhino specific reces: 1,503km flown = 13hrs (6 TW & 1 TE)
HWC cases attended to	96 (344 elephants driven from community farmland east of Mtito Andei)
Arrests	4 (1 bushmeat poacher & 3 illegal charcoal burners)
Wire Snares Recovered	57 (36 small, 6 medium; 15 large)
Bush Meat Recovered (Kg)	29kg (15 Dikdiks, 1 hare)
Poachers Equip. Recovered	4 spotlights, 2 lamping horn, 5 pangas, 4 bicycle, 2 axes, 2 slashers, 1 solar panel, 14 jerrycans, 2 spades, cooking equip
Poachers' camps/Blinds	7 (6 active, 1 inactive)
Night Ambushes set	5 (1 TW Manga, 4 TE Voi River, Miasenyi)
Response to Armed Situations	Nil
Foot patrols (km) Tembo Teams	545km foot patrols – 4 teams
Collared Elephant Observations	8 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	Nil
Illegal Cattle Drive KWS Support	Nil
Charcoal & Logging	6 (3 arrests)
Training	2 TT Officers Masters training; 1 KWS Officer Masters training; HWC community training;
TT HQ Rainfall	75mm . Total rainfall to date: 86mm



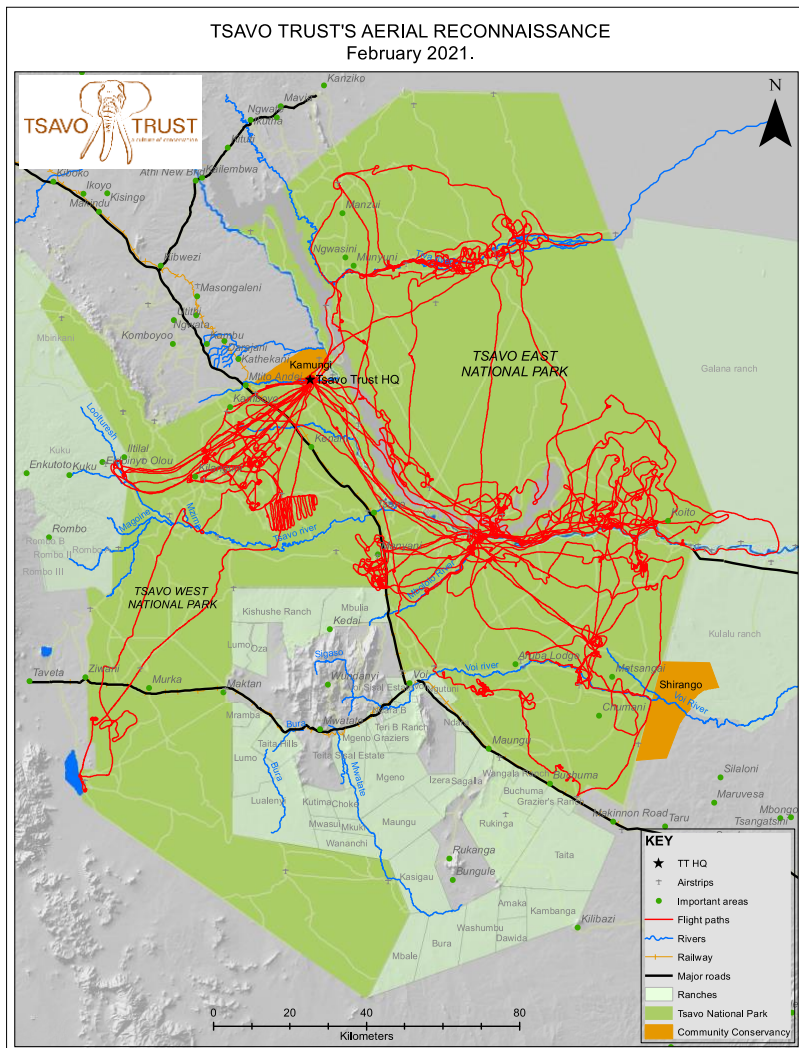
24th February 2021: photo shows Tusker coded IL1 being treated for a serious foot wound. This was first reported by MWCT to TT (in line with the Big Tusker Project – BTP)

and MWCT/TT made a ground follow up on 23rd Feb21 to closely ascertain the extent of injury before alerting the TCA Vet Unit who were later called, and treatment took place on 24th Feb21. IL1 is one of the 10 Super Tuskers of Tsavo with ivory reaching the ground. This operation was conducted jointly by Tsavo Trust (ground teams' vehicle and spotter aircraft), Maasai Wilderness Conservation Trust (ground teams and vehicle) and the KWS Tsavo Vet Unit (that is supported by DSWT).



Aerial Reconnaissance - Areas Covered:

- This vital conservation tool provides “*eyes in the skies*” 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 necessary rapid actions and their records.



7 bushmeat poachers camps were located in February 2021, 5 outside of the Park and 2 just inside. 15 freshly poached Dikdiks recovered, and 1 arrest made with 4 bicycles, 4 spotlights, 2 horns, 5 pangas, 2 axes, 2 slashers and cooking equipment recovered. Poaching for bushmeat is certainly a major threat to wildlife in certain hotspot areas within the TCA.

Field Teams Activities:

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

Date	No.	Fresh Carcass	Recent Carcass	Cause of Death	Location
-	Nil	-	-		
Month Total	-	-	-		
Total 2021	2	1	1		

- **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
6/2/2021	1	-	-	1	TWNP – Kishushe
11/2/2021	3	-	-	3	Shirango
13/2/2021	2	-	-	2	Giriama Ranch
15/2/2021	1	-	-	1	TWNP - Kishushe
Month Total	7	-	-	7	-
Total 2021	8	-	-	8	-
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	1	3	1,000 cows
TWNP	1	1	1,750 cows
TOTALS	2	4	2,750 cows

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 compliment KWS Park field operations & management</i>	<i>TENP, TWNP and dispersal areas</i>
1/2/21	Livestock recce: 3 live bomas, 1,000 cows and 6 men; over 200 elephants	TENP – Tiva, Ndiandaza
18/2/20	Rhino recce: 8 transmittered rhinos observed	TWNP - IPZ
23 & 24/2/20	Super Tusker IL1 treatment: Following reports from MWCT of injured Tusker IL1, TT carried out 2 flights – 1 to ascertain the extent and 1 to treat the injury, alongside KWS and MWCT	TWNP boundary with Kuku Ranch

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	61hrs in Super Cub aircraft @ \$250 all incl.	15,250
Vehicle running costs - Field Mobile Teams (Tembo 1, 2, 3, 4 & 5) – ongoing TENP & TWNP	5 vehicles covered 14,969km @ \$1 p/km incl. fuel, tires, maintenance, servicing & f/c insurance	14,969
TT Field Staff x 30 (Tembo teams)	Not Included	-
TENP - Dakota Platoon Vehicle Diesel - ongoing	100ltrs p/month	100
TENP - DSTV Dakota Base - ongoing	Monthly subscription	40
TENP – KWS staff training	Research Scientist Masters training support over 2 years - ongoing.	-
TCA – Bat Research Study	Support to TCA Research Dept.: Bat Project	1,000
TOTAL MONTH		\$31,359
TOTAL 2021 to DATE:		\$64,042

Field Mobile Units:

Tembo 1, 3, 5 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, 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 (12 TT Scouts + 3 KWS Rangers)	28	1 1 Bushmeat poacher	-	45 30 small 15 large	29kg 15 Dikdiks 1 cape hare	4 spotlights 4 pangas 2 lamp horn 4 bicycles 2 slashers 14 jerry cans 1 solar panel cooking equip	5 Active	-	2,550	184
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	28	-	-	-	-	-	-	96 HEC Total 344 elephants driven from farms at night by TT/KWS team	1,914	Nil
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	28	3 Charcoal burners	-	11 5 small 6 medium	-	2 spades 1 panga	2 1 active 1 inactive	-	2,671	175
Kamungi Scouts 4 Scouts	28	-	-	1 1 small	-	-	-	-	N/A Bicycle patrol	186
TOTALS	112	4	Nil	57	29kg	As above	7	96	7,135	545
Total 2021	224	7	1	101	45kg	-	8	152	14,400	1,118

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) 	28	-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 – 13 sighting -Hirola – 1 -Grevy's Zebra – Nil -Large Carnivores – 16 -Road & Rail kills – 8 -Elephant carcasses – Nil -Ivory recvd. – Nil -Rain gauge readings -Collared elephants – 5 Carnivore scat collect – 0	Tsavo East Nat. Park – mainly southern, central and eastern sections including Shirango Conservancy	3,622
Tembo 4 (TWNP) (2 TT staff + 2 KWS) 	28	-RHINO monitoring – TW IPZ -Camera trap surveys - rhino -Big Tusker monitoring -Large Carnivore monitoring -Collared elephant reporting	-IPZ Rhinos – 18 -Tuskers - Nil -Large Carnivores – 2 -Collared elephants – Nil -Elephant carcasses – Nil -NRS Rhino night census – n/a	Tsavo West Nat. Park – IPZ	4,212
TOTALS	56	As above	As above	As above	7,834
Total 2020	113	-	-	-	14,757

21st February 2021: Photo below shows several hundred Catfish (*Clarias gariepinus*) all clumped together in a drying out water hole in the seasonal Tiva river in TENP northern area. These highly adapted fish are able to slither distances over dry land and are able to breath out of water for long periods.



February 2021, photo shows one of the 10% Fence Plan plots within Kamungi Conservancy that borders onto TWNP – Triangle. During Jan & Feb21 alone 529 elephants have been chased out of small-scale farmlands by joint KWS/TT teams – all at night. Tsavo Trust has developed the 10% fence Plan in an effort to find ways of HEC mitigation. Of the 3 pilot plots put in place in 2020, not a single plot has been breached by elephants, making it 100% successful so far. This has enabled local subsistence farmers to harvest ample food for the first time ever with no HEC. The photo below shows maize about to be harvested with the areas outside the fence left to fall for smaller wildlife such as Duikers and Dikdiks to feed. This project has been made possible through our partnership with the Tofauti Foundation.



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 and its partners 36 permanent staff and 15 casual staff were 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 as a result.
Community Mobilization and Sensitization Meetings	➤ 10 community meetings held ➤ Serious HEC and various meetings took place	➤ 5 community meetings held
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	15,360 litres of water issued.	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	395 patients attended (554 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
Feeding Program due to COVID-19	Dis-continued	None at present due to distances involved and lack of funds to implement.
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	Village savings & loan groups are in progress – partnership between ZSL / KC & TT	None at present.
Training	VSLA & HWC mitigation trainings	None at present.
HWC	7 x 1-acre bee fences, total 105 beehives with 21 currently occupied.	N/A yet
Elephant Bee Fence	10% fence plan completed Phase 1: 3 plots (electric fencing of 10% of individual land).	N/A yet
10% Fence Plan	3 predator proof bomas set up: by TT/ZSL	N/A yet
Human Wildlife Conflict (HWC)	30 cases recorded: 427elephant cases; 1 Leopard; 1 baboon;	18 cases recorded: 2 hyenas; 11 Cheetah; 3 lion; 2 Honey Badger
Land Tenure	KC: historically Ngai Ndeithia 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	None	None
Operations and Security Tembo 1 Team = T1 Tembo 3 Team = T3 Kamungi Scouts = KS Shirango Scouts = SS	➤ Arrests: Nil ➤ Snares / traps / bushmeat: 1 snare ➤ Equip. recvd.: Nil ➤ Elephant carcass / Ivory: Nil ➤ Night ambushes: Nil ➤ HEC: 1 ➤ Foot patrols: 186km	➤ Arrests: 1 (1 bushmeat poacher) ➤ Snares & traps recvd.: 45 ➤ Equip. recvd.: 4 bicycles; 4 spotlights; 2 horns; 4 pangas; 2 slashers; 1 solar; 14 jerrycans; cooking equip ➤ Elephant carcass / Ivory: Nil ➤ Night ambushes: 4 ➤ Poachers camps: 5 active ➤ Foot patrols: 184km

Unusual Photo of the Month:



Aerial photo taken from Tsavo Trust Super Cub (courtesy of Sam Stogdale) – of two Honey Badgers (Mellivora capensis) on 22nd February 2021 in TENP.

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; Zoological Society of London (ZSL); Save The Elephants (STE)/Elephant Crisis Fund (ECF)/Wildlife Conservation Network (WCN); Global Wildlife Conservation; Tusk Trust; Rhino Recovery Fund (WCN); International Elephant Foundation (IEF); Disney/Wildlife Conservation Society (WCS); Georg Waechter Memorial Foundation; Glassybaby White Light Fund; 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; International Fund for Animal Welfare (IFAW); TUI Care Foundation; Empowers Africa; Off Piste Africa; Enos Enterprises–Tembo Wine; Salama Fikira; 51 degrees; Conservation Alpha; JW Seagon Insurance; Saving the Survivors; 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; the late John Fletcher; Paul & James Wilson; James Chiappa; David Calderone; Will Burrard-Lucas; Drew Doggett photography; Goh & Courtney Iromoto; the Kiddingtons; Renzo Bernardi; Howard Saunders; Sandor Carter; Sean Dundas; Karen Laurence-Rowe; James Lewin; Anthony Cheffings; Andreas Fox; 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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