

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	54 (252 for year) Average 114km p/h of low-level flight	6,098 (28,178km for year) Flights carried out jointly with KWS staff
 Rhino specific flights	10 (67.5 for year)	3,347 (10,328km for year)
	Field Patrol Days	Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 150 days (506 to date) Monitoring teams: 60 days (228 to date)	Vehicle patrols: 9,820km (32,649km to date) Foot patrols: 660km (2,287km to date) Monitoring teams: 7,458km (29,507km to date)
 Big “Tuskers” observed	9 Tuskers - 3 Super Tusker bulls, 5 emerging bulls, 1 cow Tusker = 38 individual observations	
Ivory recovered	2 elephant tusks (from S/Tusker Il Talal L: 101lbs R: 102lbs) (7 for year)	
Elephant mortality	Fresh (less than 3 weeks old)	Recent (less than 3 months old)
	2 – (c of d: both natural)	Nil (c of d:)
Poacher camps/hides	Fresh - 3	Recent – 1
Arrests	5 – by KWS / TT – 1 ivory dealer & 4 bushmeat poachers (17 for year to date); Bushmeat recvd (wet & dried): 61kg (116kg for year to date)	
Snares/traps recovered	42 by Tembo Teams: 236 snares to date 2021 (184 small; 34 medium, 18 large)	
Human Wildlife Conflict	Joint TT-KWS team:181 elephants driven from farmlands east of Mtito Andei (903 pushed out of farms in 2021 to date)	
Illegal Livestock (only in PA)	5 live cattle bomas (5,350 cows + 14 men)	
Written reports to KWS	64 (daily Situation reports, various communications & 1 monthly report)	
Significant notes	- Serious HEC continues east of Mtito / Kamungi. Joint TT – KWS PAMU mobile teams - Ongoing plans for HEC mitigation fence: Mtito East 12/4/21: Natural death of Super Tusker called Il Talal (ivory weighed 102lbs & 101lbs) est. age 55yrs - April21: TT Ops Room now set up with the Earth Ranger platform & training thanks to 51 Degrees/Vulcan	
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: 11 - Ongoing Projects: Water project;10% fence plan; VSLA’s; HEC-fence; Dispensary support; Permaculture Project; trainings - Human Wildlife Conflict (HWC): 65 reports, mainly crop raiding elephants, leopard issues - Security Ops: 2 p/arrows recvd.	
Shirango Conservancy South East boundary TENP 	<u>Employment</u> (through T/Trust): 12 permanents <u>Membership</u>: 2,300 people - Community Mobilization meetings: 2 - Ongoing Projects: Water project; anti-poaching; land tenure - Human Wildlife Conflict (HWC): 21 reports all livestock predations - Security Ops: T1 team: 2 arrests (bushmeat); 2 snares recvd; 17kg dried bushmeat; 1 bicycle	
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 = 38 sightings
Super Tusker Bulls	3 individuals (17 sightings:
Emerging Tuskers (bulls)	5 individuals (16 sightings)
Iconic Cow Tuskers	1 individual (5 sighting)
Elephant Mortality	2: 2 fresh (c of d: 2 natural) (S/Tusker called Il Talal sadly died a natural death on 12/4/21; ivory weighed 102lbs & 101lbs)
Ivory Recovered	2 tusks (101lbs & 102lbs)
Elephant Treatment/Translocation	Nil
Wildlife Rescues (mainly venomous reptiles)	14: incl. 5 spitting cobra's (removed alive from community to Park boundary)
Rhino Aerial Patrol Support (KWS / ZSL / TT partnership)	10 rhino specific reces: 3,347km flown = 29hrs (8 TW & 2 TE)
HWC cases attended to	65 (181 elephants driven from community farmland east of Mtito Andei)
Arrests	5 (1 ivory dealer & 4 bushmeat poachers)
Wire Snares Recovered	42 (21 small, 18 medium, 3 large)
Bush Meat Recovered (Kg)	61kg (1 Grants Gazelle, 2 Dikdik, dried buffalo meat, 8 Guinee fowl, 1 serval cat)
Poachers Equip. Recovered	2 bicycle, 3 spotlight, 1 siren, 2 knives, 1 slasher, 1 panga, 1 catapult
Poachers' camps/Blinds	4 (3 active, 1 inactive)
Night Ambushes set	13 (2 Subati, 1 Mtito river, 4 Kulalu, 6 Shirango)
Response to Armed Situations	Nil
Foot patrols (km) Tembo Teams	660km foot patrols – 5 teams
Collared Elephant Observations	3 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	Funding support with diesel fuel: TENP northern area
Charcoal & Logging	2 (2 fresh hard wood logs – TWNP north boundary, 2 charcoal kilns - Shirango)
Training	2 TT Officers Masters training; 1 KWS Officer Masters training; HWC community training; Earth Ranger training TT HQ; Shirango Scouts GPS training
TT HQ Rainfall	167mm. Total rainfall to date: 265mm

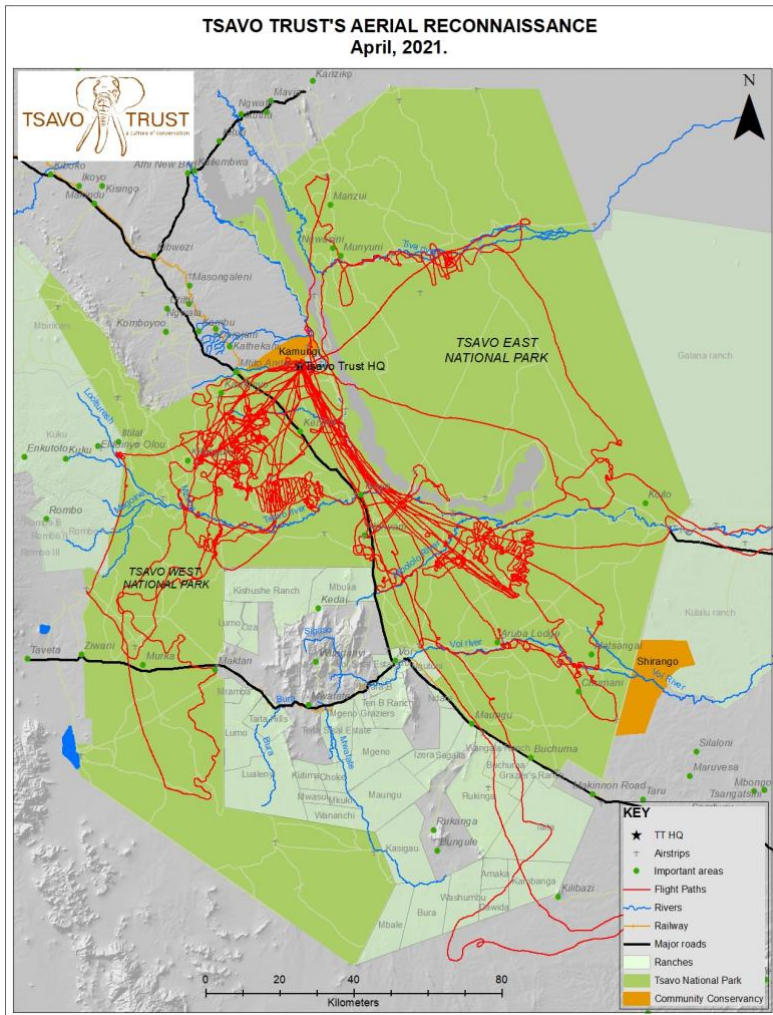


This is one of the last photos of Super Tusker called Il Talal alive. He sadly died of natural causes on 12th April 2021 following a series of illnesses. His ivory weighed 102lbs and 101lbs. Tsavo Trust had monitored Il Talal, alongside MWCT field scouts, for the last 8 years and watched him grow from an emerging Tusker into a Super Tusker.



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 daily for necessary rapid actions and their records.



Map shows Tsavo Trust's flight paths over the TCA this month.

54 hours flown covering 6,098 kilometers over Tsavo in support of KWS.

Covering: Air & ground activities; Big Tusker monitoring; Rhino related flights; Locating illegal activities; Wildlife monitoring; Aerial census and telemetry tracking.



April 2021: photo (courtesy of James Lewin) shows the iconic cow Tusker coded as F-DI1 with her herd in TENP. The Tsavo Trust team has known this magnificent cow elephant since we started operations in January 2013. Since then, we have physically observed F-DI1 95 times. This equates to an average sighting once every month over the last 8 years.

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
9/4/2021	1	1	-	Natural; 2 tusks recvd. KWS	TWNP, Triangle
12/4/2021	1	1	-	Natural; Super Tusker called Il Talal 2 tusks recvd. KWS/TT/MWCT	Il Talal / Kuku Ranch
Month Total	2	2	-		
Total 2021	7	4	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
2/4/21	1	-	-	1	Subati
8/4/2021	1	-	-	1	Shirango Conservancy
9/4/21	1	-	-	1	Msa Highway-power lines
14/4/21	1	-	-	1	Kulalu Ranch
Month Total	4	-	-	4	-
Total 2021	13	-	-	13	-
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	-	Nil cows
TWNP	1	5	5,350 cows; 14 men
TOTALS	2	5	5,350 cows; 14 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
11/4/21	Rhino recce: 11 rhinos observed	TWNP - NRS
12/4/21	Illegal livestock flight: 5 active bomas, 5,350 cows & 14 men; diverted to check on fresh elephant carcass of Super Tusker Il Talal	TWNP- Southern sector & Finch Hattons
19/4/21	Rhino recce: 6 rhinos; 8 wild dogs; 2 southern Ground hornbills; fresh hyena carcass; 7 lions observed	TENP - IPZ

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	54hrs in Super Cub aircraft @ \$250 all incl.	13,500
Vehicle running costs - Field Mobile Teams (Tembo 1, 2, 3, 4, 5 & 7) – ongoing TENP & TWNP	6 vehicles covered 17,278km @ \$1 p/km incl. fuel, tires, maintenance, servicing & f/c insurance	17,278
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
TWNP - NRS / IPZ Rhino fuel support	200ltrs diesel – rhino security	200
TENP - Ranches vehicle support	New canvas tarpaulin for KAW 112Z	430
TENP - Illegal livestock drive support	800ltrs diesel	800
TOTAL MONTH		\$32,348
TOTAL 2021 to DATE:		\$129,331

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)	30	2 Bushmeat poachers	-	2 medium	17kg 8 Guinea fowl 2 smoked Dikdik 1 Serval cat	1 bicycle 1 catapult	1 Active	-	2,584	139
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	30	1 Suspected ivory dealer	-	-	-	2 p/arrows	1 Active	65 HWC 64 HEC Total 181 elephants driven from farms at night by TT/KWS team	1,959	Nil
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	30	-	2 from S/Tusker II Talal	9 7 small 1 medium 1 bird trap	-	-	1 Inactive	-	2,093	144
Tembo 7 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	30	2 Bushmeat poachers	-	31 13 small 15 medium 3 large	44kg 1 Grants Gazelle 1 Dikdik Smoked buffalo meat	3 spotlights 2 knives 1 panga 1 slasher 1 siren 1 bicycle	1 Active	-	3,154	165
Kamungi Scouts 4 Scouts	30	-	-	-	-	-	-	-	30 + Bicycle patrol	212
TOTALS	150	5	2	42	61kg	As above	4	65	9,820	660
Total 2021	506	17	5	236	116kg	-	13	279	32,649	2,387

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) 	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 – 19 sighting -Hirola – 9 -Grevy's Zebra – 1 -Large Carnivores – 10 -Road & Rail kills – 16 -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	4,234
Tembo 4 (TWNP) (2 TT staff + 2 KWS) 	30	-RHINO monitoring – TW IPZ -Camera trap surveys - rhino -Big Tusker monitoring -Large Carnivore monitoring -Collared elephant reporting	-IPZ Rhinos – 15 -Tuskers - Nil -Large Carnivores – 2 -Collared elephants – Nil -Elephant carcasses – Nil -NRS Rhino night census – n/a	Tsavo West Nat. Park – IPZ	3,224
TOTALS	60	As above	As above	As above	7,458
Total 2020	228	-	-	-	29,507



23rd April 2021: As part of Tsavo Trust's ongoing efforts to enhance the Tsavo habitat and seek sustainable water sources for wildlife, the Sand Dam Project is already bearing fruit. Above shows the full Kangechwa A s/dam in TWNP that is being used by many different wildlife species and currently houses 5 resident hippos. So far 4 sand dams have been completed with 25 more planned over the next 5 years. Below shows a camera trap photo taken on 28th April 2021, of the TENP Mbololo 2 s/dam with a herd of elephants drinking at the seepage on the lower side of the wall. Photos of many different species have been captured already including elephant, buffalo, giraffe, lion, leopard, hyena, honey badgers and more. Funding support has come through WCN/Disney Conservation Fund, for which we are very grateful.



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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	➤ 11 community meetings held ➤ HEC meetings took place ➤ Permaculture training	➤ 2 community meetings held ➤ Land tenure meetings – County Govt
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	17,820 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	78 patients attended (1,014 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 through lack of funding	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, permaculture & HWC mitigation	Scouts trained on GPS use & data collection
HWC Elephant Bee Fence 10% Fence Plan	7 x 1-acre bee fences, total 105 beehives with 21 currently occupied.	N/A yet
	10% fence plan completed Phase 1: 3 plots (electric fencing of 10% of individual land).	N/A yet
	3 predator proof bomas set up: by TT/ZSL	N/A yet
Human Wildlife Conflict (HWC)	43 cases recorded: 33elephant cases; 4 Leopard; 6 lion	21 cases recorded: 17 hyenas; 4 Cheetah
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	None	None
Operations and Security Tembo 1 Team = T1 Tembo 3 Team = T3 Kamungi Scouts = KS Shirango Scouts = SS	➤ Arrests: 1 suspected ivory dealer ➤ Snares / traps / bushmeat: Nil ➤ Equip. recvd.: 2 p/arrows ➤ Elephant carcass / Ivory: Nil ➤ Night ambushes: 3 ➤ HEC: 65 cases ➤ Foot patrols: 212km	➤ Arrests: 2 (1 bushmeat poacher2) ➤ Snares & traps recvd.: 2; 17kg dried meat ➤ Equip. recvd.: 1 bicycle, 1 catapult ➤ Elephant carcass / Ivory: Nil ➤ Night ambushes: 6 ➤ Poachers camps: 1 active ➤ Foot patrols: 139km

Unusual Photo of the Month:



April 21: Camera trap photo (courtesy of James Lewin) of several hyena feasting on a fresh elephant carcass (natural death) in TWNP Triangle.

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); Global Wildlife Conservation (GWC); 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-Vulcan; Conservation Alpha; JW Seagon Insurance; Saving the Survivors; World Book; Lewa Canada; Prints for Conservation; Remembering Wildlife Books and many more.

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

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