















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	43 (295 for year) Average 114km p/h of low-level flight	4,800 (32,978km for year) Flights carried out jointly with KWS staff
 Rhino specific flights	19 (86.5 for year)	2,016 (12,344km for year)
Field Patrol Days		Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 155 days (661 to date) Monitoring teams: 54 days (282 to date)	Vehicle patrols: 10,553km (43,202km to date) Foot patrols: 881km (3,168km to date) Monitoring teams: 5,156km (34,663km to date)
 Big “Tuskers” observed	12 Tuskers - 6 Super Tusker bulls, 5 emerging bulls, 1 cow Tusker = 29 individual observations	
Ivory recovered	Nil elephant tusks (7 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 - Nil	Recent – 1
Arrests	7 – by KWS / TT – 3 bushmeat poachers; 4 herders (24 for year to date); Bushmeat recvd (wet & dried): 88kg (204kg for year to date)	
Snares/traps recovered	52 by Tembo Teams: 288 snares to date 2021 (224 small; 45 medium, 19 large)	
Human Wildlife Conflict	Joint TT-KWS team: 274 elephants driven from farmlands east of Mtito Andei (1,177 elephants pushed out of farms in 2021 to date)	
Illegal Livestock (only in PA)	4 live cattle bomas (5,591 cows + 13 men)	
Written reports to KWS	68 (daily Situation reports, various communications & 1 monthly report)	
Significant notes	<ul style="list-style-type: none"> • Serious HEC continues east of Mtito / Kamungi. Joint TT – KWS PAMU mobile teams • Ongoing plans for HEC mitigation fence: Mtito East • 3/5/21: Connected piped water from Ngiluni Dispensary bore hole to Ngiluni School • 26/5/21: In support of KWS TWNP-IPZ – deployment of 5 tented Ops • 27/5/21: T1 team located a snared elephant, TENP, called in KWS TCA Vet Unit and removed snare 	
COMMUNITY CONSERVANCY PROGRAM:		
Kamungi Conservancy North boundary TWNP 	<ul style="list-style-type: none"> • Employment (through T/Trust): 36 permanent, 15 temporaries • Membership: 1,400 people • Community Mobilization meetings: 7 • Ongoing Projects: Water project; 10% fence plan; VSLA 's; HEC-fence; Dispensary support; Permaculture Project; trainings • Human Wildlife Conflict (HWC): 88 reports, mainly crop raiding elephants, leopard issues • Security Ops (T3 & KS): 	
Shirango Conservancy South East boundary TENP 	<ul style="list-style-type: none"> • Employment (through T/Trust): 12 permanents • Membership: 2,300 people • Community Mobilization meetings: 2 • Ongoing Projects: Water project; anti-poaching; land tenure • Human Wildlife Conflict (HWC): 10 reports all livestock predations • Security Ops (T1, T7 & SS): 2 b/meat poachers & 4 herders arrested & equip, 30 snares, 53kg b/meat recvd. 	
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
<i>BTP individual Tusker sightings</i>	Total = 29 sightings
<i>Super Tusker Bulls</i>	6 individuals (11 sightings)
<i>Emerging Tuskers (bulls)</i>	5 individuals (9 sightings)
<i>Iconic Cow Tuskers</i>	1 individual (9 sighting)
<i>Elephant Mortality</i>	Nil: - fresh (c of d:)
<i>Ivory Recovered</i>	Nil tusks
<i>Elephant Treatment/Translocation</i>	1 cable snare successfully removed 27/5/21
<i>Wildlife Rescues</i> (mainly venomous reptiles)	9: all snakes incl. 1 spitting cobra (removed alive from community to Park boundary)
<i>Rhino Aerial Patrol Support</i> (KWS / ZSL / TT partnership)	7 rhino specific reces: 2,016km flown = 19hrs (6 TW & 1 TE)
<i>HWC cases attended to</i>	91 (274 elephants driven from community farmland east of Mtito Andei)
<i>Arrests</i>	7 (3 bushmeat poachers & 4 herders)
<i>Wire Snares Recovered</i>	52 (40 small, 11 medium, 1 large)
<i>Bush Meat Recovered (Kg)</i>	88kg (1 L/Kudu, 3 impala, 5 Dik-diks, 1 Bustard)
<i>Poachers Equip. Recovered</i>	4 spotlight, 2 siren, 2 knives, 2 panga, 2 spades
<i>Poachers' camps/Blinds</i>	1 (1 inactive tree shooting blind)
<i>Night Ambushes set</i>	5 (2 Kulalu, 2 Lukenya, 1 Voi River)
<i>Response to Armed Situations</i>	Nil
<i>Foot patrols (km) Tembo Teams</i>	881km foot patrols – 6 teams
<i>Collared Elephant Observations</i>	9 forms submitted to STE (joint KWS/TT teams)
<i>High Value Wildlife Monitoring</i>	Ongoing partner to KWS TCA Research (Hirola, Grevy's zebra, carnivores)
<i>Firefighting cases</i>	Nil
<i>Illegal Cattle Drive KWS Support</i>	Nil
<i>Charcoal & Logging</i>	2 (2 charcoal kilns - Kambu)
<i>Training</i>	2 TT Officers Masters training; 1 KWS Officer Masters training; HWC community training; 4 Scouts – Pangolin training
<i>TT HQ Rainfall</i>	Nil mm. Total rainfall to date: 265mm

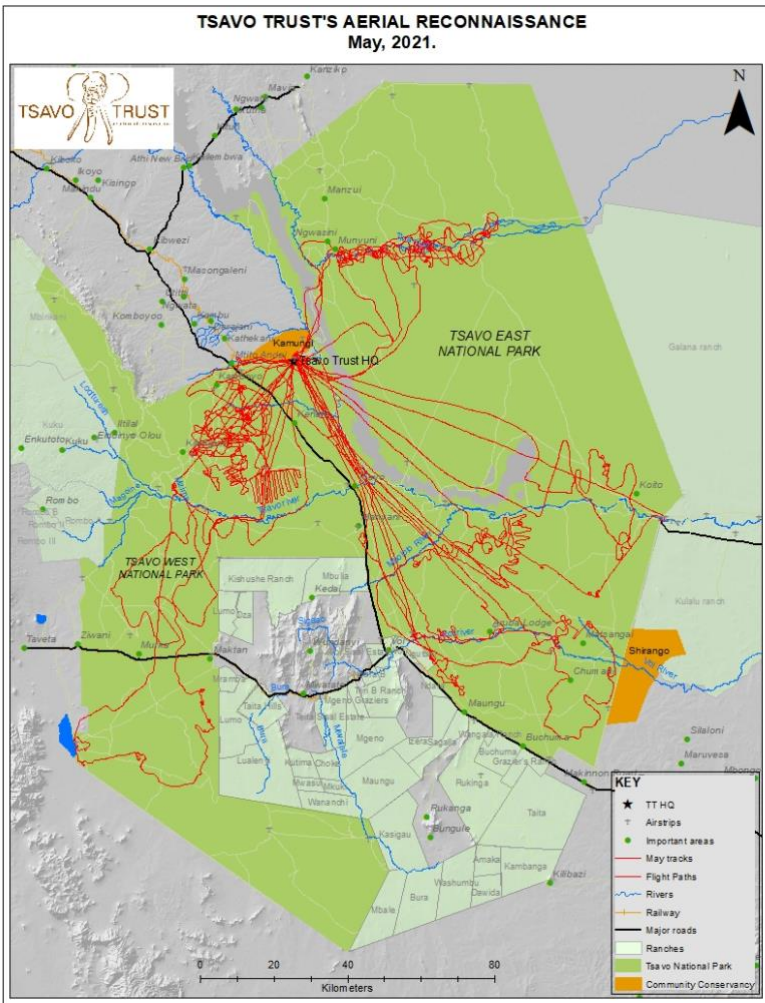


Photo shows one of Tsavo Trust aircraft registration 5Y TTZ during aerial patrol with KWS over the Tsavo River in TWNP.



Aerial Reconnaissance – Areas Covered:

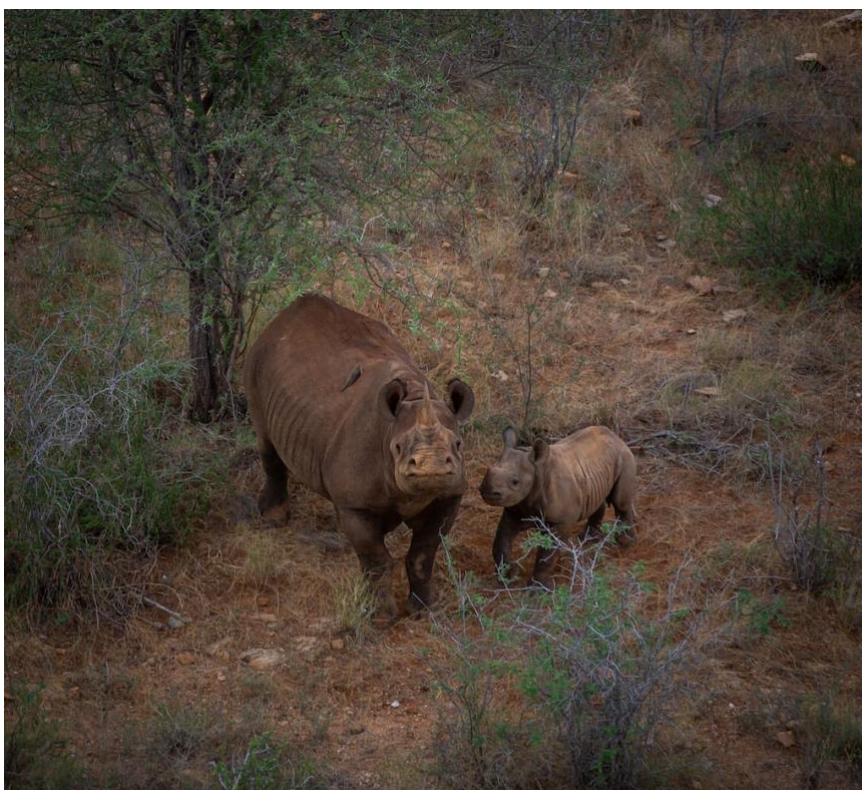
- This vital conservation tool provides “*eyes in the skies*” and directional guidance to ground units.
- All flight paths are logged and recorded with all relevant real-time observations relayed to KWS daily for necessary rapid actions and their records.



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

43 hours flown covering 4,800 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.



11th May 2021: photo (courtesy of Nick Haller) shows black rhino Mbitu and her young calf in TENP.

Tsavo Trust has supported KWS significantly over the last 9 years with several thousand hours flown in direct support of KWS's rhino conservation objectives and this activity is now one of our key projects.

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	Nil	-	-		
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
24/5/21	1	-	1 old	-	TWNP, pipeline
Month Total	1	-	1	-	-
Total 2021	14	-	1	13	-
<i>Not included</i>	<i>Charcoalers camps close to TENP boundary – Kulalu Ranch, and cattle bomas outside the Parks</i>				

- **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	1	300 cows
TWNP	2	3	5, 291 cows; 13 men
TOTALS	2	5	5,591 cows; 13 men

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>
12/5/21	Routine recce: Over 500 elephants, iconic cow Tusker F-DI1, 12 wild dogs	TENP – Aruba, Voi River
18/5/21	Rhino recce: 19 rhinos	TWNP, NRS
19/5/21	Illegal livestock flight: 1 active boma, 3,770 cows & 5 men	TWNP- Southern sector

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	43hrs in Super Cub aircraft @ \$250 all incl.	10,750
Vehicle running costs - Field Mobile Teams (Tembo 1, 2, 3, 4, 5 & 7) – ongoing TENP & TWNP	6 vehicles covered 15,709km @ \$1 p/km incl. fuel, tires, maintenance, servicing & f/c insurance	15,709
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 – IPZ – Outposts x 5	Deployment of 5 tented outposts into TW IPZ	25,000
TWNP - NRS / IPZ Rhino fuel support	200ltrs diesel – rhino security	200
TWNP – Materials – Mzima Springs	Touch up paint for Mzima Springs entrance	240
TOTAL MONTH		\$52,039
TOTAL 2021 to DATE:		\$181,370

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.	Bushmeat 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	1 Bushmeat poacher	-	18 6 small 11 string traps 1 large	45kg 1 l/kudu 1 impala 3 Dik-dik 1 Serval cat	1 spotlight 1 panga 1 siren	1 Active	1 HEC Over 50 elephants driven from farms at night	2,572	304
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	31	1 Bushmeat poacher	-	-	35kg 2 impalas	1 spotlight 1 siren	1 Active	88 HWC 87 HEC 1 HCC Total 274 elephants driven from farms at night by TT/KWS team	2,322	Nil
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	31	-	-	7 7 small	-	-	1 Inactive	-	2,437	183
Tembo 7 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	31	5 1 Bushmeat poachers 4 illegal herders	-	12 1 small 11 medium	8kg 2 Dik-dik 1 buff-crested bustard	1 spotlight 1 panga	1 Active	1 HEC 1 HCC 8 elephants driven from farms	3,222	140
Kamungi Scouts 4 Scouts	31	-	-	15 15 small	-	-	-	-	Nil	254
TOTALS	155	7	-	52	88kg	As above	1	91	10,553	881
Total 2021	661	24	5	288	204kg	-	14	370	43,202	3,168

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) 	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 – 20 sighting -Hirola – 5 -Grevy's Zebra – 2 -Large Carnivores – 19 Ground Hornbill - 4 -Road & Rail kills – 7 -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	2,810
Tembo 4 (TWNP) (2 TT staff + 2 KWS) 	31	-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 and Triangle	2,346
TOTALS	54	As above	As above	As above	5,156
Total 2020	282	-	-	-	34,663



13th April 2021: shows one of the 3 arrested bushmeat poachers this month, caught with poached bushmeat consisting of: 1 lesser kudu, 1 impala and 3 dik-dik. Bushmeat poaching, both commercial and subsistence is on the increase in the TCA.



26th May 2021: As part of the ongoing Tsavo Trust Rhino conservation support to KWS with outpost and observation post upgrades.

Left: Old TWNP-IPZ outpost.

Below: New tents and water storage tanks for 5 outposts.

This vital activity was supported through the Wildlife Conservation Networks – Rhino Recovery Fund for which we are very grateful for.





COMMUNITY CONSERVANCY PROGRAM:



ACTIVITY	KAMUNGI Conservancy	SHIRANGO Community Conservancy
<i>Ongoing partnership between Tsavo Trust & KC & SCC</i>	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.
<i>Employment (through Tsavo Trust)</i>	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.
<i>Community Mobilization and Sensitization Meetings</i>	<ul style="list-style-type: none"> ➤ 7 community meetings held ➤ HEC meetings took place ➤ Permaculture training ➤ Digging water pipeline to Ngiluni school 	<ul style="list-style-type: none"> ➤ 2 community meetings held ➤ Land tenure meetings – County Govt
<i>Membership</i>	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.
<i>Water Project</i>	73,970 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.
<i>Basic Health care</i>	112 patients attended (1,126 for year to date).	This is currently dis-functional. Nearest health centre is 10km away. 50% of residents rely on traditional herbal medicines.
<i>Constructions</i>	Scouts HQ & Office/store completed	Scouts HQ completed
<i>Feeding Program due to COVID-19</i>	Dis-continued through lack of funding	None at present due to distances involved and lack of funds to implement.
<i>Basic Education</i>	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.
<i>VSLA – Savings Groups</i>	Village savings & loan groups are in progress – partnership between ZSL / KC & TT	None at present.
<i>Training</i>	VSLA, permaculture & HWC mitigation	Scouts trained on GPS use & data collection
<i>HWC Elephant Bee Fence</i>	7 x 1-acre bee fences, total 105 beehives with 21 currently occupied.	N/A yet
<i>10% Fence Plan</i>	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
<i>Human Wildlife Conflict (HWC)</i>	55 cases recorded: 48 elephant cases; 1 Leopard; 3 lion; 1 mongoose; 2 human venomous snake bite	10 cases recorded: 8 hyenas; 2 Cheetah
<i>Land Tenure</i>	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.
<i>Wildlife Census Transects</i>	None	None
<i>Operations and Security</i>	➤ See table above	➤ See table above

Unusual Photo of the Month:



*19th May 2021: Camera trap photo of a striped hyena (*hyaena hyaena*) coming into one of the recently constructed sand dam water seepages, TENP, Mbololo sand dam B.*

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; Maliasili; EU-Biopama Programme; 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; Empowers Africa; Off Piste Africa; Enos Enterprises–Tembo Wine; Salama Fikira; 51 degrees-Vulcan; Conservation Alpha; JW Seagon Insurance; 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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