

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

<b>WILDLIFE CONSERVATION PROGRAM: Big Tusker Project – Aerial &amp; Ground Activities</b>		
Activity	Hours Flown	Kilometers Covered
 <b>Aerial Reconnaissance</b>	<b>111</b> (610 for year) Average 115km p/h of low-level flight	<b>8,313</b> (66,161km for year) Flights carried out jointly with KWS staff
 <b>Rhino specific flights</b>	<b>16.5</b> (161.5 for year)	<b>1,865</b> (20,948km for year)
	Field Patrol Days	Kilometers Covered
<b>Ground Activities</b> (Joint KWS / TT)	<b>Protection teams: 150 days</b> (1,271 to date) <b>Monitoring teams: 49 days</b> (503 to date)	<b>Vehicle patrols: 11,410km</b> (89,254km to date) <b>Foot patrols: 985km</b> (6,828km to date) <b>Monitoring teams: 6,995km</b> (65,643km to date)
 <b>Big “Tuskers” observed</b>	<b>15</b> Tuskers - 6 Super Tusker bulls, 9 emerging bulls, Nil cow Tusker = <b>43 individual observations</b>	
<b>Ivory recovered</b>	<b>4</b> elephant tusks ( <b>27</b> for year)	
<b>Elephant mortality</b>	<b>Fresh</b> (less than 3 weeks old)	<b>Recent</b> (less than 3 months old)
	<b>3</b> – (c of d: 3 natural)	<b>Nil</b> - (c of d:)
<b>Poacher camps/hides</b>	<b>Fresh - 3</b>	<b>Recent - 1</b>
<b>Arrests</b>	<b>12</b> – by KWS / TT – 12 bushmeat poachers ( <b>57</b> for year to date); <b>Bushmeat recvd (wet &amp; dried): 160kg</b> (636kg for year to date)	
<b>Snares/traps recovered</b>	<b>315</b> by Tembo Teams: <b>1,086</b> snares to date 2021 (752 small; 243 medium, 91 large)	
<b>Human Wildlife Conflict</b>	<b>Joint TT-KWS team: 113</b> elephants driven from farmlands east of Mtito Andei (1,630 elephants pushed out of farms in 2021 to date – ave. 6 per night)	
<b>Illegal Livestock (only in PA)</b>	<b>10</b> live cattle bomas (27,700 cows; 7,400 shoats; 20 men)	
<b>Written reports to KWS</b>	<b>78</b> (daily Situation reports, various communications & 1 monthly report)	
<b>Significant notes</b>	<ul style="list-style-type: none"> <li>11/9/21: TT teams joined joint Stakeholder Mombasa Highway clean-up day</li> <li>13/9/21: TT/KWS team responded to HEC near Il Talal – 1 fatality and 2 injuries</li> <li>17/9/21: Wildlife Ranger Challenge 2021: TT team finished 22<sup>nd</sup> out of 185 teams across Africa</li> <li>19<sup>th</sup> to 21<sup>st</sup> Sept21: 3<sup>rd</sup> KWS led NRS full moon rhino census sponsored by TT &amp; ZSL</li> <li>25/9/21: TENP TT/KWS team reunited elephant calf with mother after it fell into man made trough</li> </ul>	
<b>COMMUNITY CONSERVANCY PROGRAM:</b>		
<b>Kamungi Conservancy</b> North boundary TWNP 	<ul style="list-style-type: none"> <li><b>Employment</b> (through T/Trust): <b>36</b> permanent, <b>15</b> temporaries</li> <li><b>Membership: 1,400 people</b></li> <li>Community Mobilization meetings: <b>10</b></li> <li>Ongoing Projects: Water project; 10% fence plan; VSLA’s; HEC-Mtito fence; Dispensary support; Permaculture Project; trainings</li> <li>Human Wildlife Conflict (HWC): <b>52</b> reports; crop raiding elephants, leopard &amp; lion issues</li> <li>Security Ops (KWS, T3 &amp; KS):</li> </ul>	
<b>Shirango Conservancy</b> Southeast boundary TENP 	<ul style="list-style-type: none"> <li><b>Employment</b> (through T/Trust): <b>12</b> permanents</li> <li><b>Membership: 2,300 people</b></li> <li>Community Mobilization meetings: <b>4</b></li> <li>Ongoing Projects: Water project; anti-poaching; land tenure</li> <li>Human Wildlife Conflict (HWC): <b>18</b> reports elephant &amp; livestock predations</li> <li>Security Ops (KWS T1, T7 &amp; SS):</li> </ul>	
<b>FORMAL FIELD CONSERVATION PARTNERS:</b> (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>	<b>Total = 43</b> sightings
<i>Super Tusker Bulls</i>	<b>6</b> individuals (23 sightings)
<i>Emerging Tuskers (bulls)</i>	<b>9</b> individuals (20 sightings)
<i>Iconic Cow Tuskers</i>	<b>Nil</b> individual (- sighting)
<i>Elephant Mortality</i>	<b>3: - 3 fresh</b> (c of d: 3 natural - drought)
<i>Ivory Recovered</i>	<b>4</b> tusks
<i>Elephant Treatment/Translocation</i>	<b>Nil</b>
<i>Wildlife Rescues (mainly venomous reptiles)</i>	<b>10: 1</b> elephant calf reunited with mother; <b>3</b> Puff-adder; <b>5</b> Red spitting cobra; <b>1</b> Sand Boa
<i>Rhino Aerial Patrol Support (KWS / ZSL / TT partnership)</i>	<b>7</b> rhino specific recces: 1,865km flown = 16.5hrs (5 TW & 2 TE)
<i>HWC cases attended to</i>	<b>33</b> (113 elephants driven from community farmland east of Mtito Andei)
<i>Arrests</i>	<b>12</b> (12 bushmeat poachers)
<i>Wire Snares Recovered</i>	<b>315</b> (109 small, 135 medium, 71 large)
<i>Bush Meat Recovered (Kg)</i>	<b>160kgkg</b> (21 Dik-dik, 2 lesser kudu, 3 warthog, 3 dried Eland, 1 lion remains)
<i>Poachers Equip. Recovered</i>	5 motorbikes; 4 spotlights; 3 siren; 2 slasher; 9 pangas; 3 bicycles; 6 knives, 3 catapult, 14 poisoned arrows
<i>Poachers' camps/Blinds</i>	<b>3 active, 1 old</b>
<i>Night Ambushes set</i>	<b>7</b> (4 Kulalu/Giriama/Shirango/Dakota; 1 CHNP; 1 Voi River; 1 Kanjaocha)
<i>Response to Armed Situations</i>	<b>Nil</b>
<i>Foot patrols (km) Tembo Teams</i>	<b>985km</b> foot patrols – 6 teams
<i>Collared Elephant Observations</i>	<b>11</b> sighting record 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>	<b>Nil</b> ()
<i>Illegal Cattle Drive KWS Support</i>	<b>1</b> TENP, Mifupa ya Ndovu area (1,500 cows driven out)
<i>Charcoal &amp; Logging</i>	<b>Nil</b>
<i>Training</i>	<b>2</b> TT Officers Masters training; aircraft training; HWC community training
<i>TT HQ Rainfall</i>	<b>Nil mm.</b> Total rainfall to date: <b>265mm</b>



*10<sup>th</sup> September 2021: Photo shows the iconic Tsavo Super Tusker coded as BA1, TENP.*

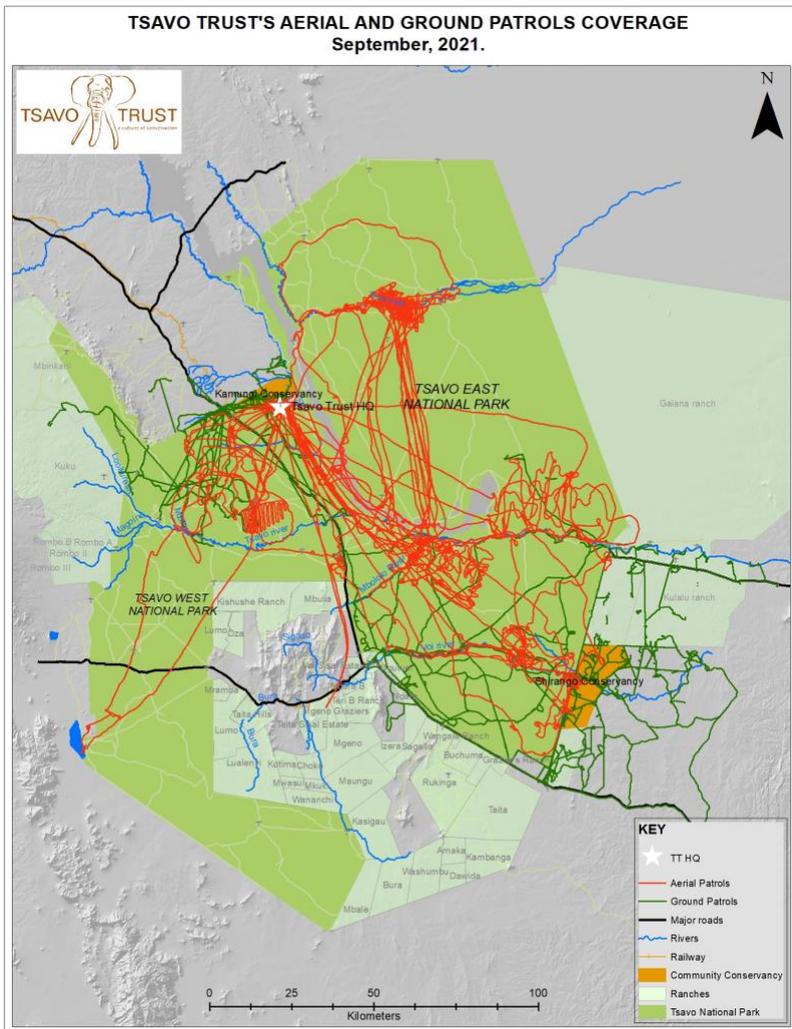
*BA1 was observed a record 8 times in September 21.*

*The TT/KWS Big Tusker Project has known and monitored this magnificent bull elephant since April 2014.*



## 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.



*Map shows Tsavo Trust's flight paths in **RED** and ground patrol paths in **GREEN** over the TCA this month.*

***Aerial:** 111 hours flown covering 8,313 kilometers over Tsavo in support of KWS.*

***Ground:** 985 kilometers of foot patrol and a further 18,405 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.*



*9<sup>th</sup> September 2021: Photo shows a herd of elephants on the Tiva River, TENP digging for water. Super Tusker coded KO1 in the middle-right dwarfing a cow elephant with his size and his impressive ivory.*

## 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
<b>Tembo 1 (TENP) &amp; Shirango Scouts</b> (6 TT Scouts + 3 KWS Rangers)	30	6 Bushmeat poachers	2	88 37 small 49 medium 2 large	91kg 8 Dik-diks 2 warthog Dried eland	1 motorbike 2 bicycles 4 pangas 1 siren 2 spotlights 1 slasher 4 knife 2 catapults	1 Active	-	2,981	309
<b>Tembo 3 (TWNP)</b> (6 TT Scouts + 3 KWS Rangers)	30	-	-	57 39 small 17 medium 1 bird trap	-	-	-	30 HEC 113 elephants driven from farms at night by TT/KWS team	2,496	221
<b>Tembo 5 (TWNP)</b> 6 TT Scouts + 3 KWS Rangers	30	-	-	21 19 small 2 medium	-	-	1 old	3 HEC 3 elephants driven from farms	2,195	147
<b>Tembo 7 (Kulalu/TENP)</b> 5 TT Scouts + 3 KWS Rangers	30	6 Bushmeat poachers	2	147 10 small 67 medium 69 large 1 bird trap	69kg 13 Dik-dik 1 l/kudu 1 warthog 1 lion carcass	4 motorbikes 1 bicycle 2 spotlights 2 sirens 5 pangas 1 bicycle 2 knife 14 p/arrows	2 Active	-	3,708	94
<b>Kamungi Scouts</b> 4 Scouts	30	-	-	2 1 small 1 bird trap	-	-	-	-	30	214
<b>TOTALS</b>	<b>150</b>	<b>12</b>	<b>4</b>	<b>315</b>	<b>160kg</b>	<b>As above</b>	<b>4</b>	<b>33</b>	<b>11,410</b>	<b>985</b>
<b>Total 2021</b>	<b>1,271</b>	<b>57</b>	<b>26</b>	<b>1,086</b>	<b>636kg</b>	<b>-</b>	<b>21</b>	<b>496</b>	<b>89,254</b>	<b>6,828</b>

## 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
<b>Tembo 2 (TENP)</b> (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 – 11 sighting -Hirola – 8 -Grevy's Zebra – 3 -Large Carnivores – 24 Ground Hornbill - 5 -Road & Rail kills – 2 -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	4,275
<b>Tembo 4 (TWNP)</b> (2 TT staff + 4 KWS) 	19	-RHINO monitoring – TW IPZ -Camera trap surveys - rhino -Big Tusker monitoring -Large Carnivore monitoring -Collared elephant reporting	-IPZ Rhinos – 25 -Tuskers - 0 -Large Carnivores – 1 -Collared elephants – nil -Elephant carcasses – nil -NRS Rhino night census – 121	Tsavo West Nat. Park – IPZ and Triangle	2,720
<b>TOTALS</b>	<b>49</b>	<b>As above</b>	<b>As above</b>	<b>As above</b>	<b>6,995</b>
<b>Total 2020</b>	<b>503</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>65,643</b>



**COMMUNITY CONSERVANCY**  
**PROGRAM:**



ACTIVITY	KAMUNGI Conservancy	SHIRANGO Community Conservancy
<b>Ongoing partnership between Tsavo Trust &amp; KC &amp; SCC</b>	North boundary of TWNP – Triangle. Total area 101km <sup>2</sup> Makueni County; Kibwezi Sub county; Mtito Andei Division; Mtito Andei Sub-location; Ngiluni Village.	South boundary of TENP – Voi River area. Total area 270km <sup>2</sup> . Kilifi County; Ganze Sub-location; Bamba Ward; Mitangani location; Gede Sub-location.
<b>Employment (through Tsavo Trust)</b>	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.
<b>Community Mobilization and Sensitization Meetings</b>	<b>10 community meetings held</b> <ul style="list-style-type: none"> <li>➤ Mtito Fence meeting: GMC, TT/Kamungi, KWS</li> <li>➤ Makueni Dev. Trust</li> <li>➤ Board Meeting</li> <li>➤ VSLA's</li> <li>➤ 10% Fence Planning meeting</li> </ul>	<b>4 community meetings held</b> <ul style="list-style-type: none"> <li>➤ USAid Co-creation</li> <li>➤ MCA Bamba - various</li> <li>➤ General Community – drought etc</li> </ul>
<b>Membership</b>	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.
<b>Water Project</b>	101,120 litres of water issued. (629,021 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 if funded.
<b>Basic Health care</b>	378 patients attended (2,378 for year to date).	This is currently dis-functional. Nearest health center is 10km away. 50% of residents rely on traditional herbal medicines.
<b>Constructions</b>	Honey processing room under construction Scouts HQ & Office/store completed	Scouts HQ completed
<b>Basic Education</b>	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 yet.
<b>VSLA – Savings Groups</b>	5 Village Savings & Loan Association (VSLA) are in progress – partnership between ZSL / KC & TT	None at present.
<b>Training</b>	VSLA, permaculture & HWC mitigation	Scouts trained on GPS use & data collection
<b>HWC Mitigation</b>	7 x 1-acre bee fences, total 105 beehives with 15 currently occupied.	N/A yet
<b>Elephant Bee Fence</b>	10% fence plan completed Phase 2 completed: <b>Total 12 plots</b> (HWC electric fencing of 10% of individual land).	N/A yet
<b>10% Fence Plan</b>	7 predator proof bomas set up: by TT/ZSL	N/A yet
<b>Mtito 30km fence line</b>	13/9/21: Construction started - ongoing	N/A yet
<b>Human Wildlife Conflict (HWC)</b>	<b>52 cases</b> recorded: 52 elephant cases	<b>18 cases</b> recorded: 2 elephants; 2 lion; 11 hyena, 3 Cheetah
<b>Land Tenure</b>	Ongoing	SCC land currently traditional communal mode of ownership, not legally protected. Efforts underway to ensure the local communities legally own their land. Ongoing.
<b>Wildlife Census Transects</b>	1	None
<b>Operations and Security</b>	➤ See Field Units table above	➤ See Field Units table above

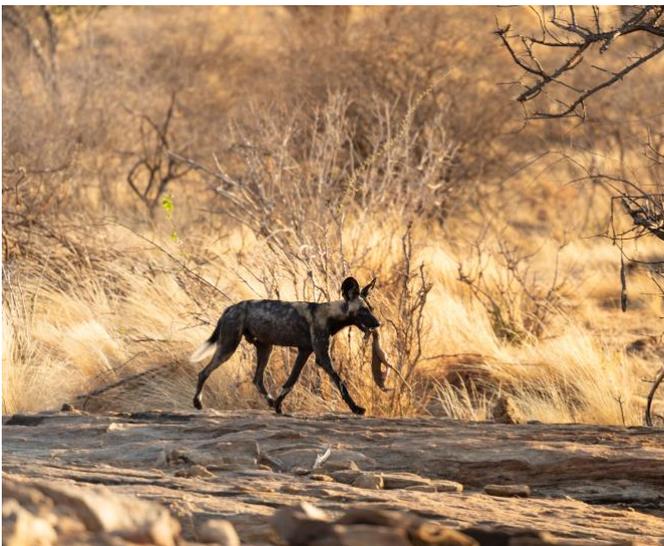


*Left: Photo taken on 9<sup>th</sup> September 2021 of the Tsavo River (brown color) and Athi River (fluorescent green color) junction in TENP.*

*The Tsavo River is not polluted at all but the Athi River emanates from Nairobi and pollution into this water course is extremely worrying.*



*Above: 9<sup>th</sup> September 2021: Illegal livestock incursions into the Protected Areas has increased drastically given the drought taking a grip on the TCA. This was in TENP northern area.*



*Above: 1 of a pack 18 wild dogs with a Dik-dik kill, Tsavo Triangle – September 21.*

*Below: 8<sup>th</sup> September 2021: 2 bull hippos' having what was to become a fatal fight, Tsavo Triangle.*



## *Unusual Photo of the Month:*



*7<sup>th</sup> September 2021 shows a giraffe and ox peckers with an unusual background at Mudanda rock, TENP.*

### **With sincere thanks and appreciation:**

**Organizations:** 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; 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; Kim Makenzi; 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.

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

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