



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

## JUNE 2022 MONTHLY REPORT



13<sup>th</sup> June 2022, photo taken by Nick Haller shows a healthy black rhino cow 'Manyonge' with her calf. Tsavo Trust supports KWS in monitoring and securing rhino through aerial and ground patrols.

WILDLIFE CONSERVATION PROGRAM: <i>Big Tusker Project – Aerial &amp; Ground Activities</i>		
Activity	Hours Flown	Kilometers Covered
 <b>Aerial Unit</b>	<b>36</b> (308 for year) Average 115km p/h of low-level flight	<b>4,143</b> (35,538km for year) Flights carried out jointly with KWS staff
 <b>Rhino Aerial Patrols</b>	<b>Aerial Patrols: 11.7</b> (4 TWNP; 1 TENP) (94.5hrs for year to date)	<b>Aerial: 1,371</b> (11,360km for year)
Field Patrol Days		Kilometers Covered
<b>Ground Protection Activities</b> (Joint with KWS / TT & Community Scouts)	<b>Protection teams: 150 days</b> (859 to date) <b>Monitoring teams: 60 days</b> (335 to date)	<b>Vehicle patrols: 11,299km</b> (58,389km to date) <b>Foot patrols: 997km</b> (5,391km to date) <b>Monitoring teams: 9,496km</b> (45,700km to date)
 <b>Big Tusker Project</b>	13 Tuskers - 4 Super Tusker bulls (8 sights), 8 emerging bulls (12 sights), Nil cow Tusker (Nil sights): <b>20 individual observations</b>	
<b>Collared Elephant Sightings:</b> <i>Joint KWS/STE/TT program</i>	<b>10 sightings:</b> record forms submitted to STE (aerial and ground observations)	
<b>Ivory recovered</b>	<b>Nil</b> elephant tusks ( <b>16</b> for year to date)	
<b>Elephant mortality</b>	<b>Fresh: 1</b> (c of d: unknown) (Less than 3 weeks old)	<b>Recent: Nil</b> (c of d: unknown) (Less than 3 months old)
<b>High Value Species Monitoring</b>	Ongoing partner with KWS TCA Research under WRTI: Monitoring Hirola, Grevy's zebra, large carnivores, Roadkill Surveys, Southern Ground Hornbill etc	
<b>Wildlife - Treatment &amp; Translocation</b>	<b>Venomous snakes re-located from communities:</b> 1 P. Adder; 1 Smith's racer and 1 Sand snake	
	<b>Others:</b> Jointly with KWS, STE, ZSL and SWT. Translocated problem elephant from Mangelete community to Lugards in TENP.	
<b>Poacher camps/hides</b>	<b>Fresh – 1</b> (7 to date)	<b>Recent – Nil</b> (1 to date)
<b>Arrests – joint KWS/TT</b>	<b>21</b> – 13 illegal herders; 4 bushmeat poachers; 4 illegal wood harvesting <b>(50 for year to date)</b>	
<b>Snares/traps recovered</b>	<b>190</b> by Tembo Teams: <b>656</b> snares to date 2022 (564 small; 63 medium, 29 large)	
<b>Bushmeat recoveries</b> (wet & dried)	<b>114kg</b> (1,045kg for year to date) 2 Zebra (not whole); 1 Sub-adult L/Kudu; 14 Dik-dik; 2 Duiker	
<b>Poachers Equip. Recvd.</b>	1 motorbike; 3 bicycles; 7 pangas; 2 knives; 1 axe; 1 slasher; 1 hoe; 1 spade; 3 ropes; 1 lamping horn; 2 spotlights saw and cooking equipment	
<b>Night Ambushes</b>	Joint KWS / TT: <b>13</b> (Kamboyo; Lukenya; Taru; Kulalu; Kangechwa; Mbulia; Chakaola; Maktau; Subati)	
<b>Firefighting</b>	Nil	
<b>Human Elephant Conflict</b>	Joint TT-KWS team: <b>34</b> elephants driven from farmlands east of Mtito Andei <b>(34 elephants pushed from farms – Jun22 compared to 171 in Jun21 = 80% reduction following TT fence)</b>	
<b>Illegal Livestock (only in PA)</b>	<b>4</b> active cattle boma (4,396 cows; Nil shoats; Nil donkey; 34 people)	
<b>Written reports to KWS</b>	<b>79</b> (daily Situation reports, various communications & 1 monthly report)	
<b>TT Staff Training activities</b>	<b>2</b> TT Officers Masters training; aircraft pilot training; <b>2</b> KWS Officer GIS training; HWC community training; Maliasili – African Conservation Leadership Course	
<b>TT HQ Rainfall figures</b>	<b>Nil.</b> Total rainfall to date for 2022: <b>77mm</b>	
<b>Significant notes</b>	<ul style="list-style-type: none"> <li>Makueni Development Trust (MADET): Since January 2022 Tsavo Trust was chosen to support and help operationalize MADET with seed funding from USAid through the Aga Khan Foundation (EA) – Yetu Initiative. This is a key development project for Makueni County.</li> <li>Deployment of brand new Landcruiser Registration KDG 244X in Tsavo West National Park IPZ. The vehicle will support KWS to better monitor and secure Black rhino population.</li> </ul>	

**COMMUNITY CONSERVANCY PROGRAM:**

	<b>Kamungi Conservancy</b> <ul style="list-style-type: none"> <li>Located: Northern boundary TWNP Triangle</li> <li>TT has played a stewardship role and partnered with KC since 2014</li> </ul>		<b>Shirango Community Conservancy</b> <ul style="list-style-type: none"> <li>Located: Southeast boundary TENP</li> <li>TT has played a stewardship role and partnered with SCC since 2016</li> </ul>
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**FORMAL FIELD CONSERVATION PARTNERS PROGRAM:** (Full list of supporters/partners shown on last page)

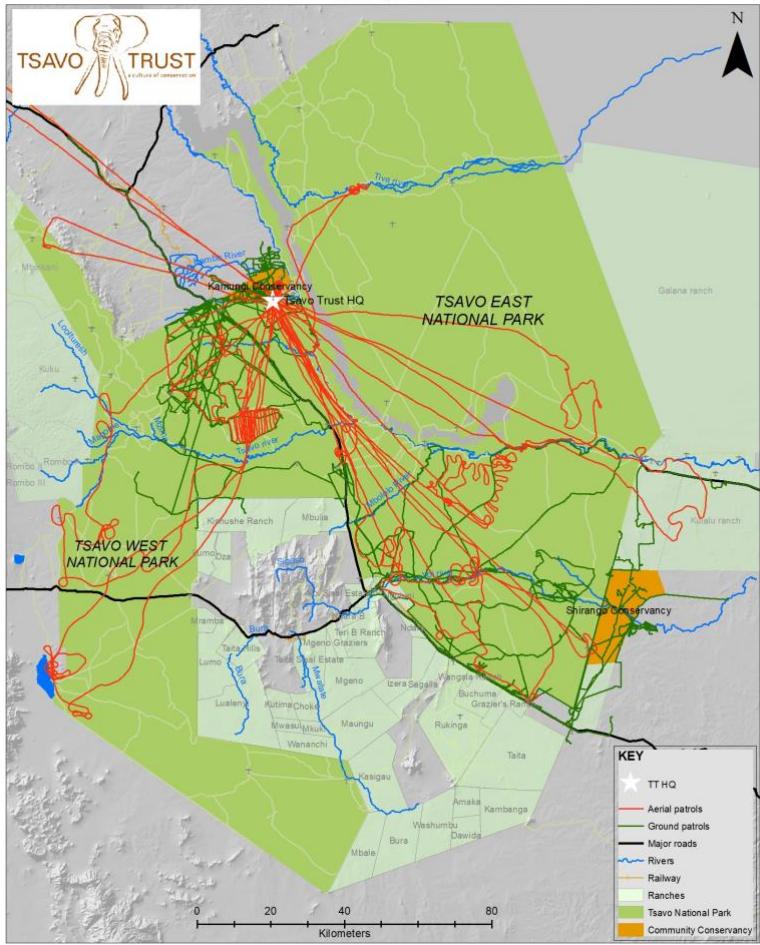
							
	Pioneers of Sand Dams	Africa Sand Dam Foundation					



## 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 aerial patrols 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.

TSAVO TRUST'S AERIAL AND GROUND PATROLS COVERAGE  
JUNE, 2022



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

**Note:** The Tsavo Parks are huge comprising 22,000km<sup>2</sup> (TENP, TWNP & CHNP) and then a further 20,000km<sup>2</sup> totaling 42,000km<sup>2</sup> to form the Tsavo Conservation Area (TCA).

**Aerial:** 36 hours flown covering 4,143 kilometers over Tsavo in support of KWS.

**Ground:** 997 kilometers of foot patrol and a further 20,795 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.

**Below:** 2<sup>nd</sup> June 2022: Photo shows a brand new 4x4 rigged Landcruiser funded by Rhino Recovery Fund. The vehicle will help to better monitor and protect Tsavo West National Park IPZ Black Rhinos.



## Field Mobile Units:

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

**Tembo 2 (TENP) & 4 (TWNP) 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 recv'd	No. Snare recv'd	Bushmeat recv'd. Kg	Poacher equip. recv'd.	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	<b>6</b> 1 bushmeat poacher, 4 illegal loggers, 1 illegal herder	-	<b>1</b> Large	<b>63kg</b> 1 sub-adult Lesser kudu; 13 Dik diks; 2 Duikers; 2 birds	1 motorbike, 3 axes, 4 pangas, 1 spade, 1 bicycle, 1 camping horn, 1 jembe	-	-	3,429	208
<b>Tembo 3 (TWNP)</b> (6 TT Scouts + 3 KWS Rangers)	30	<b>3</b> All bushmeat poachers	-	<b>145</b> 124 small 2 medium 19 bird traps	<b>1kg</b> 1 Dik-dik	3 pangas, 2 bicycles, 1 axe, and cooking equipment	1 active	7 6 HEC, 1 HCC 34 elephants driven from farms at night by TT/KWS Team	2,321	195
<b>Tembo 5 (TWNP)</b> 6 TT Scouts + 3 KWS Rangers	30	<b>1</b> Illegal herder	1 broken piece	<b>5</b> Large	<b>50kg</b> 2 Zebras (snared)	-	-	1 HEC Jointly with KWS,STE,ZSL & SWT. Translocated 1 problematic ele	2,758	180
<b>Tembo 7 (Kulalu/TENP)</b> 5 TT Scouts + 3 KWS Rangers	30	<b>11</b> All Illegal herders	-	-	-	2 spotlight and 2 knives	-	-	2,758	116
<b>Kamungi Scouts</b> 4 Scouts	30	-	-	<b>39</b> 20 small 14 medium 5 bird traps	-	-	-	-	33	298
<b>TOTALS</b>	<b>150</b>	<b>21</b>	1 piece	<b>190</b>	<b>114 kg</b>	As above	<b>1</b>	<b>8</b>	<b>11,299</b>	<b>997</b>
<b>Total 2021</b>	<b>859</b>	<b>50</b>	<b>10</b>	<b>656</b>	<b>1,045 kg</b>	-	<b>8</b>	<b>38</b>	<b>58,389</b>	<b>5,391</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> (3 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 – 14 sighting -Hirola – 18 sightings -Grevy's Zebra – 1 sighting -Large Carnivores – 20 Ground Hornbill - 9 -Road & Rail kills – 1 -Elephant carcasses – 1 -Ivory recv'd. – Nil -Rain gauge readings -Collared elephants – 4 Carnivore scat collect – 0	Tsavo East Nat. Park – mainly southern, central and eastern sections including, Voi River & Shirango Conservancy	3,825
<b>Tembo 4 (TWNP)</b> (2 TT staff + 4 KWS)	30	-RHINO monitoring – TW IPZ -Camera trap surveys - rhino -Big Tusker monitoring -Large Carnivore monitoring -Collared elephant reporting	-IPZ Rhinos – 22 -Tuskers - 0 -Large Carnivores – 1 -Collared elephants – Nil -Elephant carcasses – Nil -NRS Rhino night census – N/A	Tsavo West Nat. Park – IPZ and Triangle	5,671
<b>TOTALS</b>	<b>60</b>	<b>As above</b>	<b>As above</b>	<b>As above</b>	<b>9,496</b>
<b>Total 2022</b>	<b>335</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>45,700</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, since 2014. Total area approx. 100km <sup>2</sup> Makueni County; Kibwezi Sub County; Mtito Andei Division; Mtito Andei Sub-location; Ngiluni Village.	South boundary of TENP – Voi River area, since 2016. 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 45 permanent staff & 15 casual staff employed generating over \$12,000 (Ksh.1,320,000) of income into Kamungi monthly.	Tsavo Trust employs 14 staff from SCC including a Community Liaison Officer (CLO) to spearhead activities. Salaries generate over \$3,000 (Ksh.330,000) of income monthly.
<b>Community Mobilization and Sensitization Meetings</b>	<b>10 community meetings held</b> <ul style="list-style-type: none"> <li>➤ Kamungi Monthly Meeting 28/06/22</li> <li>➤ VSLA livelihoods meetings</li> <li>➤ USAID funded BLOCKS project AMEL planning meeting</li> <li>➤ MADET's MERL and collaborative learning meeting.</li> <li>➤ Kibwezi East sub-county Madaraka day celebration.</li> <li>➤ Mtito Andei's Chief monthly meeting</li> </ul>	<b>2 community meetings held</b> <ul style="list-style-type: none"> <li>➤ Earth dam construction site visit 21/06/2022</li> <li>➤ Chiefs Office baraza re Land Management Committee &amp; registration – ongoing</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. Considerable interest for more membership from villages to the west towards Mtito	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>	<b>46,900</b> litres of water issued. ( <b>399,310</b> litres for year to date) Ngiluni Primary School connected to piped water.	Borehole, pump, and solar panels are in place, but saline water. Construction of an earth dam is ongoing.
<b>Basic Health care</b>	<b>253</b> patients attended ( <b>1,248</b> for year to date).	There is a need to support this project
<b>Constructions</b>	Honey processing room completed and opened by Governor Makueni C on 25/1/22	Scouts HQ completed Construction of an Earth dam is nearly complete
<b>Education</b>	Paid for 2 teachers (1-Ngiluni & 1-Kamunyu School in KC) for the last 9 years. Ongoing.	None at present
<b>Bursary Scheme</b>	Started on April 22 5 needy students selected were supported.	None at present
<b>Village Saving &amp; Loan Associations – VSLA's</b>	5 women-run VSLAs are in progress: partnership between ZSL / KC & TT	None at present
<b>Poultry Project</b>	3 poultry projects: partnership between ZSL / KC & TT	None at present
<b>Training</b>	VSLA livelihoods, HWC mitigation, permaculture	Scouts trained on GPS use & data collection
<b>HWC Mitigation</b> <b>Elephant Bee Fence</b>	7 x 1-acre bee fences, total 105 beehives with 9 currently occupied.	N/A yet
<b>10% Fence Plan</b>	10% fence plan completed Phase 2 completed: <b>Total 12 plots</b> (HWC electric fencing of 10% of individual land). There are issues with plots/land being purchased by a local NGO in this area that is threatening this innovative project, but mitigating measures are in place	N/A yet
<b>Predator Proof bomas</b> <b>Mtito 32km fence line</b>	7 predator-proof bomas set up: by TT/ZSL Completed 30/11/21 with 95% HEC reduction	N/A yet
<b>Human Wildlife Conflict (HWC)</b>	<b>38 cases</b> recorded: 33 elephant; 3 lion; 1 leopard and 1 mongoose.	<b>11 cases</b> were recorded: 3 lions; 4 hyena; 4 elephant
<b>Land Tenure</b>	Ongoing	SCC land is currently a traditional communal mode of ownership, not legally protected. Efforts are underway to ensure the local communities legally own their land.
<b>Wildlife Census Transects</b>	1	None
<b>Operations and Security</b>	➤ See the Field Units table above	➤ See the Field Units table above

## Unusual Photo of the Month:



1<sup>st</sup> June 2022: Photo taken from the Super Cub by Nick Haller (TT Pilot and Chief Operations Officer) showing a striped hyena scavenging on a buffalo carcass near Tiva in TENP. The smallest of the two hyena species found in Tsavo is nocturnal and rarely seen after sunrise.

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

**Organizations:** Kenya Wildlife Service; Government of Makueni County; USAID / DOI; US Fish & Wildlife Service; CITES / MIKE Programme-funded by the European Union; Leopardess Foundation; JM Foundation Africa; Cheyenne Mountain Zoo; Save The Elephants (STE); Re:wild; Tusk Trust; Rhino Recovery Fund (WCN); Lion Recovery Fund (WCN); International Elephant Foundation (IEF); Disney/Wildlife Conservation Society (WCS); IUCN Save Our Species; Zoological Society of London (ZSL); The Glassybaby Foundation; Georg Waechter Memorial Foundation; Maliasili; EU-Biopama Programme; Tofauti Foundation; Ndovu Trust (UK); Satao Camp & Southern Cross Safaris (Msa); Origins Safaris; Ker & Downey Safaris; Tropical Ice Ltd; OnSafari-Kenya; Askari Project—Australia; Exodus Travel; Maasai Wilderness Conservation Trust (MWCT); Chesbro Foundation; Milkywire; Off Piste Africa; Empowers Africa; Enos Enterprises—Tembo Wine; 51 degrees-Vulcan; Conservation Alpha; World Book; Lewa Canada; Prints for Conservation; twio, Remembering Wildlife Books and many more.

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

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**Report compiled by Richard Moller (C.E.O) and the Tsavo Trust Team.**

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