

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

## AUGUST 2022 MONTHLY REPORT



*The above photo shows Super Tusker Coded "BA1" walking down an elephant path in Tsavo on 2<sup>nd</sup> August 2022. The Tsavo Conservation Area boasts of a strong Tusker gene pool. Through its Big Tuskers Project, Tsavo Trust supports KWS to conserve these magnificent elephants.*  
*Photo credit Tsavo Trust – Nick Haller.*

**WILDLIFE CONSERVATION PROGRAM: Big Tusker Project – Aerial & Ground Activities**

Activity	Hours Flown	Kilometers Covered	
 <b>Aerial Unit</b>	<b>62</b> (427 for year) Average 123km p/h of low-level flight	<b>9,062</b> (52,678km for year) Flights carried out jointly with KWS staff	
 <b>Rhino Aerial Patrols</b>	<b>Aerial Patrols: 20</b> (7 TWNP; 3 TNP) (150hrs for year to date)	<b>Aerial: 2,679</b> (18,693km for year)	
Field Patrol Days		Kilometers Covered	
<b>Ground Protection Activities</b> (Joint with KWS / TT & Community Scouts)	<b>Protection teams: 186 days</b> (1,210 to date) <b>Monitoring teams: 56 days</b> (452 to date)	<b>Vehicle patrols: 14,484km</b> (86,305km to date) <b>Foot patrols: 1,195km</b> (7,697km to date) <b>Monitoring teams: 8,473km</b> (61,928km to date)	
 <b>Big Tusker Project</b>	<b>12</b> Tuskers - 4 Super Tusker bulls (24 sights), 4 emerging bulls (6 sights), 4 cow Tuskers (5 sights): <b>35 individual observations</b>		
<b>Collared Elephant Sightings: Joint KWS/STE/TT program</b>	<b>9 sightings:</b> record forms submitted to STE (aerial and ground observations)		
<b>Ivory recovered</b>	<b>2</b> elephant tusks ( <b>22</b> for year to date)		
<b>Elephant mortality</b>	<b>Fresh:</b> Nil (Less than 3 weeks old)	<b>Recent:</b> Nil (Less than 3 months old)	<b>Old:</b> <b>1</b> (c of d: unknown) (More 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> 3 Puff Adder and 1 Red spitting cobras		
	<b>Others:</b> Nil		
<b>Poacher camps/hides</b>	<b>Fresh – 2</b> (10 to date)		<b>Recent – Nil</b> (1 to date)
<b>Arrests – joint KWS/TT</b>	<b>20</b> – 6 illegal herders; 3 bushmeat poachers; 1 firewood collection; 1 harvesting khat; 8 Trespassing (searching for grazing areas). <b>(83 for year to date)</b>		
<b>Snares/traps recovered</b>	<b>194</b> by Tembo Teams: <b>1,167</b> snares to date 2022 (945 small; 191 medium; 31 large)		
<b>Bushmeat recoveries (wet &amp; dried)</b>	<b>48kg</b> (1,689kg for year to date) 1 subadult Lesser kudu; 8 Dik diks; 1 Baboon and 1 Guinea fowl		
<b>Poachers Equip. Recvd.</b>	3 pangas; 1 bicycle; 1 motorcycle; 9 knives; 3 lamping horns and cooking equipment		
<b>Night Ambushes</b>	Joint KWS / TT: <b>12</b> (Kamboyo; Murondo; Kulalu; Mnara; Manda; Manelete; Digiria; Girimama ranch)		
<b>Firefighting</b>	<b>4</b> – (Responded to and helped put out 3 fires in Chyulu hills NP and 1 at Kanga)		
<b>Human Elephant Conflict</b>	Joint TT-KWS team: <b>7</b> elephants driven from farmlands east of Mtito Andei <b>(7 elephants pushed from farms – Aug22 compared to 52 in Aug21 = 87% reduction following TT fence)</b>		
<b>Illegal Livestock (only in PA)</b>	<b>13</b> active cattle boma (4,650 cows; 1,800 shoats; 2 donkey; 28 people)		
<b>Written reports to KWS</b>	<b>74</b> (daily Situation reports, various communications & 1 monthly report)		
<b>TT Staff Training activities</b>	3 TT Officers Masters training; 1 KWS Officer Masters training; HWC community training; Community livelihood training on beekeeping.		
<b>TT HQ Rainfall figures</b>	<b>Nil.</b> Total rainfall to date for 2022: <b>80mm</b>		
<b>Significant notes</b>	<ul style="list-style-type: none"> <li>10/08/2022: Tsavo Trust officially handed over 4 vehicles to the Kenya Wildlife Service. The vehicles will assist in combatting wildlife crime and strengthening transboundary collaboration in the southern sector of Tsavo West National Park. This was made possible through the generous support from the European Union under the CITIES/MIKE program.</li> <li>21/08/2022: Shirango Earth dam Inspection visit by Kilifi County Government, Tsavo Trust, Shirango Conservancy officials and Shirango community members.</li> <li>30/08/2022: WRC push-up challenge. Tsavo Trust rangers joined other Ranger Teams from over 16 African countries in the annual Wildlife Ranger Challenge, raising money for front-line conservation and raising awareness of the importance of their role in protecting wildlife, habitats, communities, and our planet.</li> </ul>		

**COMMUNITY CONSERVANCY PROGRAM:**

	<b>Kamungi Conservancy</b> ➤ Located: Northern boundary TWNP Triangle ➤ TT has played a stewardship role and partnered with KC since 2014		<b>Shirango Community Conservancy</b> ➤ Located: Southeast boundary TNP ➤ TT has played a stewardship role and partnered with SCC since 2016
--	---	---	--

**FORMAL FIELD CONSERVATION PARTNERS PROGRAM: (Full list of supporters/partners shown on last page)**

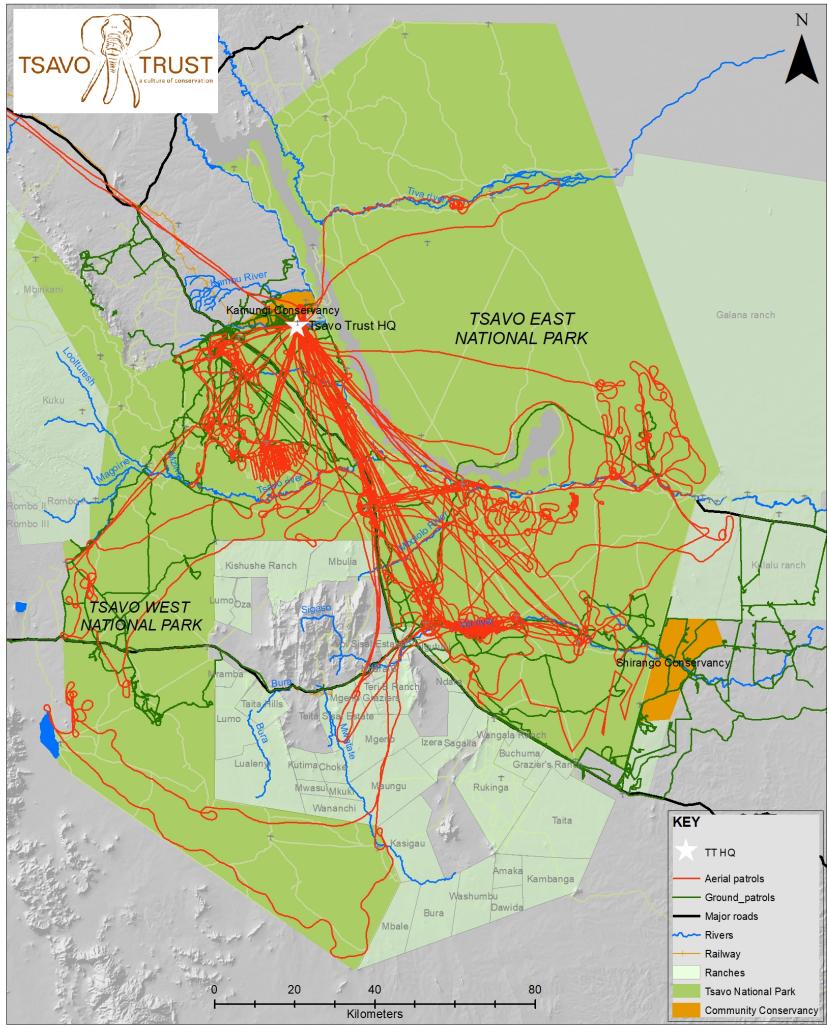
							
<b>Excellent</b>   Pioneers of Sand Dams							



## 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  
AUGUST, 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:** 62 hours flown covering 9,062 kilometers over Tsavo in support of KWS.

**Ground:** 1,195 kilometers of foot patrol and a further 22,957 kilometers of vehicle patrol in Tsavo to support KWS.

**Activities covered:** Air & ground security patrols; Big Tusker monitoring; Rhino related activities; Locating illegal activities; Wildlife monitoring; Aerial census & telemetry tracking & Community Conservancy aerial and ground activities.

**Below:** 08/08/22: Tsavo Trust's Chief Operations Officer and Pilot Nick Haller with Kenya Wildlife Service Senior Officers during the handover of 4 brand new vehicles purchased with support from the European Union under the CITE/MIKE program. The vehicles will assist in combating wildlife crime and strengthening cross-border collaboration in the southern sector of Tsavo West National Park.



## Field Key Notes & Observations:

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

Date	No.	Fresh Carcass	Recent Carcass	Old Carcass	Cause of Death	Location
11/08/2022	1	-	-	1	Unknown, KWS/TT recovered 2 tusks	TENP – Aruba
19/08/2022	1	1	-	-	Unknown, Ivory retrieved by KWS	TWNP – Kishushe
<b>Month Total</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>1</b>		
<b>Total 2022</b>	<b>16</b>	<b>8</b>	<b>4</b>	<b>4</b>		

- **Table 3: Poachers Activities Observed: Shows fresh and recent poachers' blinds/hides/platforms observed:**

Date	No	Fresh Poachers hide, blind, camp	Recent Poachers hide, blind, camp	Location
14/08/2022	1	1	-	Giriama ranch 37M 0546395 9626797
17/08/2022	1	1	-	Giriama ranch 37M 0534466 9623266
<b>Month Total</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>
<b>Total 2022</b>	<b>10</b>	<b>9</b>	<b>1</b>	
<i>Not included</i>				Charcoalers camps close to TENP boundary – Kulalu Ranch, and cattle bomas outside the Parks

- **Table 4: Illegal livestock grazing: Shows aerial & ground observations - active livestock bomas & estimated number livestock inside the Parks only:**

TCA Park	Active Bomas	Cows	Shoats	Herders/People	Others / Notes
<b>TENP</b>	<b>2</b>	<b>0</b>	<b>1,000</b>	<b>0</b>	Illegal livestock incursions along the Tiva.
<b>TWNP</b>	<b>11</b>	<b>4,650</b>	<b>800</b>	<b>19</b>	14 illegal livestock herders arrested by Joint KWS/TT Tembo 9 Rapid Response Team
<b>TOTALS</b>	<b>13</b>	<b>4,270</b>	<b>1,800</b>	<b>28</b>	

**Table 5: Shows some examples of joint KWS/TT activities and outcomes from aerial patrols:**

Date	Incident	Location
<i>Routine &amp; Monthly</i>	<i>Regular aerial patrols carried out to complement KWS Park field operations &amp; management</i>	<i>TENP, TWNP, and dispersal areas</i>
01/08/2022	Potential sand dam sites identification. 8 sites identified: 2 sites chosen	TENP – IPZ - Sobo
03/08/2022	Rhino Monitoring flight – 17 NRS rhinos sighted and recorded.	TWNP - NRS
19/08/2022	Rhino Monitoring flight. 8 free ranging rhinos spotted and recorded.	TWNP - IPZ
21/08/2022	24 herders illegally grazing 4,050 cattle inside National Park reported	TWNP Southern sector

## Field Mobile Units:

**Tembo 1, 3, 5, 7, 9 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, 9 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)	31	<b>1</b> Bushmeat poacher	-	<b>48</b> 6 small 38 medium 4 bird traps	<b>13 kg</b> 5 Dik-diks 1 Guinea fowl	1 panga, 1 motorbike, 1 lamping horn, and cooking equipment	2 active	-	2,710	230
<b>Tembo 3 (TWNP)</b> (6 TT Scouts + 3 KWS Rangers)	31	<b>1</b> Bushmeat poachers	-	<b>44</b> 43 small 1 medium	<b>9 kg</b> 3 Dik-diks	-	-	9 2 HEC, 7 HCC 7 elephants driven from farms at night	2,329	196
<b>Tembo 5 (TWNP)</b> 6 TT Scouts + 3 KWS Rangers	31	<b>2</b> Illegal firewood collection	-	<b>9</b> All small game snares	-	-	-	-	2,286	125
<b>Tembo 7 (Kulalu/TENP)</b> 5 TT Scouts + 3 KWS Rangers	31	<b>1</b> Bushmeat poacher	-	<b>76</b> 41 small 35 medium	<b>26 kg</b> 1 sub-adult L. kudu 1 baboon	2 pangas, 2 lamping horns, 1 knife, 1 bicycle and cooking equipment	-	-	2,997	207
<b>Tembo 9 (Kulalu/TENP)</b> 5 TT Scouts + 3 KWS Rangers	31	<b>15</b> 8 illegal entry, 6 illegal herding, 1 harvesting khat.	-	-	-	8 knives	-	-	4,129	158
<b>Kamungi Scouts</b> 4 Scouts	31	-	-	<b>17</b> All small game snares	-	-	-	-	33	279
<b>TOTALS</b>	<b>186</b>	<b>20</b>	Nil	<b>194</b>	<b>48 kg</b>	<b>As above</b>	<b>2</b>	<b>9</b>	<b>14,484</b>	<b>1,195</b>
<b>Total 2021</b>	<b>1,210</b>	<b>83</b>	<b>10</b>	<b>1,167</b>	<b>1,689 kg</b>	-	<b>10</b>	<b>54</b>	<b>86,305</b>	<b>7,697</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)	25	-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 – 15 sighting -Hirola – 5 sightings -Grevy's Zebra – Nil -Large Carnivores – 24 Ground Hornbill - 3 -Road & Rail kills – Nil -Elephant carcasses – 1 -Ivory recovered. – 2 -Rain gauge readings -Collared elephants – Nil Carnivore scat collect – Nil	Tsavo East Nat. Park – mainly southern, central, and eastern sections including, Voi River & Shirango Conservancy	3,342
<b>Tembo 4 (TWNP)</b> (2 TT staff + 4 KWS)	31	-RHINO monitoring – TW IPZ -Camera trap surveys - rhino -Big Tusker monitoring -Large Carnivore monitoring -Collared elephant reporting	-IPZ Rhinos – 20 -Tuskers - 0 -Large Carnivores – 2 sightings -Collared elephants – Nil -Elephant carcasses – Nil -NRS Rhino night census – N/A	Tsavo West Nat. Park – IPZ and Triangle	5,131
<b>TOTALS</b>	<b>56</b>	<b>As above</b>	<b>As above</b>	<b>As above</b>	<b>8,473</b>
<b>Total 2022</b>	<b>452</b>	-	-	-	<b>61,928</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>17 community meetings held</b> <ul style="list-style-type: none"> <li>➤ Meeting with Ngiluni Community health unit to discuss health data collection that TT supported.</li> <li>➤ MADET Strategic plan board forum held in Wote on 18/08/22.</li> <li>➤ Kamungi Conservancy beekeeping group meeting held on 21/08/22.</li> <li>➤ Kamungi Conservancy board meeting 22/08/22</li> <li>➤ Kamungi Conservancy monthly meeting held on 26/08/2022.</li> <li>➤ Mid-term socio-economic survey for Kamungi VSLA groups under the UKAM project.</li> <li>➤ Mtito Andei's Chief monthly meeting</li> </ul>	<b>4 community meetings held</b> <ul style="list-style-type: none"> <li>➤ Shirango land tenure and development meeting convened by the Chief.</li> <li>➤ Shirango Earth dam works inspection by Kilifi County and Tsavo Trust officers held on 21/08/22</li> <li>➤ Shirango Women Group. Villagers elders convened meeting to deliberate to support women to be independent and involved in development matters.</li> <li>➤ Identification and selection of 10% fence plan beneficiaries.</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>96,890</b> litres of water issued. <b>(588,620</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 completed.
<b>Basic Health care</b>	<b>345</b> patients attended ( <b>1,859</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 completed
<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 being 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 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 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>26 cases</b> recorded: 14 elephant; 10 lion; 1 leopard and 1 baboon.	<b>10 cases</b> were recorded: 3 lion; 5 hyena and 2 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:



*The photo above shows a Dik-dik with vitiligo – a rare skin condition observed in some humans but can also develop in animals like the case here. The condition causes depigmentation hence the white patch on this Dik-dik's face. The photo was taken by Tsavo Trust's Christine Mwende on 23/08/2022.*

### **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; 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 dedicated enthusiasts.

---

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

*All photographs ©Tsavo Trust 2022*