


### SUMMARY of ACTIVITIES:

<b>WILDLIFE CONSERVATION PROGRAM: <i>Big Tusker Project – Aerial &amp; Ground Activities</i></b>		
Activity	Hours Flown	Kilometers Covered
<i>Aerial Reconnaissance</i>	<b>60</b> (199 for year) Average 110km p/h of low-level flight	<b>6,581</b> (22,444km for year) Flights carried out jointly with KWS staff
<i>Rhino specific flights-TE &amp; TW</i>	<b>20</b> (77 for year)	<b>2,307</b> (8,576km for year)
Field Patrol Days		Kilometers Covered
<i>Ground Activities</i> (Joint KWS / TT)	<b>Protection teams: 81 days</b> (258 to date) <b>Monitoring teams: 22 days</b> (77 to date)	<b>Protection teams: 5,363km</b> (22,461 to date) <b>Monitoring teams: 1,619km</b> (8,867 to date)
<i>Big “Tuskers” observed</i>	<b>11</b> Tuskers - 2 Super Tusker bulls, 6 emerging bulls, 3 cow Tusker = <b>25 individual observations</b>	
<i>Ivory recovered</i>	<b>Nil</b> elephant tusks ( <b>6</b> for year)	
<i>Elephant mortality</i>	<b>Fresh</b> (less than 3 weeks old)	<b>Recent</b> (less than 3 months old)
	<b>Nil</b> – (c of d: nil)	<b>Nil</b> (c of d: nil)
<i>Poacher camps/hides</i>	<b>Fresh - Nil</b>	<b>Recent – Nil</b>
<i>Arrests</i>	<b>2</b> – by KWS / TT – 2 bushmeat <b>6</b> for year to date <b>Bushmeat recvd: 4kg</b> (179kg for year to date)	
<i>Snares/traps recovered</i>	<b>13</b> by Tembo Teams: <b>128</b> snares to date 2020 (99 small; 29 medium)	
<i>Support to KWS-armed incidents</i>	<b>Nil</b>	
<i>Illegal Livestock (only in PA)</i>	<b>5</b> cattle bomas (1,050 + cows, 100 shoats, 1 man)	
<i>Written reports to KWS</i>	<b>45</b> (daily Situation reports, various communications & 1 monthly report)	
<i>General &amp; significant notes</i>	<ul style="list-style-type: none"> <li>• Effects of COVID-19 hitting the conservation community hard</li> <li>• 2<sup>nd</sup> half March: Social Economic Survey of Shirango Community Conservancy</li> <li>• Mid-March: Start of sand dam construction, TENP</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>25</b> permanent, <b>20</b> temporaries</li> <li>• <b>Membership: 1,000 people</b></li> <li>• Community Mobilization meetings: <b>6</b></li> <li>• Ongoing Projects: Water project; Dispensary support; Kamungi HQ construction; VSLA’s</li> <li>• Human Wildlife Conflict (HWC): <b>23</b> reports, mainly crop raiding elephants</li> <li>• Wildlife Counts: <b>Nil</b> sample transect counts.</li> <li>• Security Ops: Ongoing patrols</li> </ul>	
<b>Shirango Conservancy</b> South East boundary TENP	<ul style="list-style-type: none"> <li>• <b>Employment</b> (through T/Trust): <b>10</b> permanents</li> <li>• <b>Membership: 2,100 people</b></li> <li>• Community Mobilization meetings: <b>4</b></li> <li>• Ongoing Projects: Water project; security outpost development; Social Economic Survey carried out</li> <li>• Human Wildlife Conflict (HWC): <b>20</b> reports, mainly lion &amp; hyena</li> <li>• Wildlife Counts: <b>Nil</b></li> <li>• Security Ops: T1 team – 2 arrests (bushmeat); 11 snares recvd; 4kg Dikdik meat recvd.</li> </ul>	
<b>FIELD CONSERVATION PARTNERS:</b>		
<i>Kenya Wildlife Service (KWS)</i>	<ul style="list-style-type: none"> <li>• Partner to KWS &amp; ZSL in the Tsavo’s in line with KWS Rhino Strategy – RII Project</li> <li>• Partner in implementation of the KWS Hirola Recovery Plan</li> </ul>	
<i>Zoological Society of London (ZSL)</i>	<ul style="list-style-type: none"> <li>• Partner with KWS &amp; ZSL in Rhino Impact Investment (RII) in TWNP</li> <li>• Community development projects – Mangaleta &amp; Kamungi locations</li> </ul>	
<i>Save The Elephants (STE)</i>	<ul style="list-style-type: none"> <li>• Assist in aerial and ground monitoring of collared elephants</li> <li>• Partner with STE – Elephants &amp; Bees project – Kamungi Conservancy</li> </ul>	
<i>African Sand Dam Foundation-ASDF</i>	<ul style="list-style-type: none"> <li>• Construction of sand dams to assist in habitat recovery – partnership with KWS / ASDF &amp; Excellent Development UK</li> </ul>	
<i>James Ashe Anti-venom Trust - JAAT</i>	<ul style="list-style-type: none"> <li>• Partner to JAAT (professional supplier of top-quality snake bite antivenom) – Tsavo outlet</li> </ul>	

## **WILDLIFE CONSERVATION PROGRAM:**

### **“Big Tusker Project”- aerial and ground mobile teams:**

*Table 1: Summary of Big Tusker Project (BTP)*

<b>Activity / Detail</b>	<b>Number &amp; Brief Remarks</b>
<i>BTP individual Tusker sightings</i>	<b>Total = 21</b> sightings – with recent rains, elephants are spread far and wide
<i>Super Tusker Bulls</i>	<b>2</b> individuals
<i>Emerging Tuskers (bulls)</i>	<b>6</b> individuals – BL1 moved over 150km
<i>Iconic Cow Tuskers</i>	<b>3</b> individuals
<i>Elephant Mortality</i>	<b>Nil</b>
<i>Ivory Recovered</i>	<b>Nil</b> (1 natural)
<i>Elephant Treatment</i>	<b>Nil</b>
<i>Wildlife Rescues</i>	<b>Nil</b>
<i>Rhino Support (KWS / ZSL / TT partnership)</i>	Regular aerial recces with KWS over TWNP & TENP rhino areas in partnership with <b>KWS / ZSL</b> . 6 rhino specific recces resulting in 2,307km flown over 20hrs (4 TW & 2 TE).
<i>HWC cases attended to</i>	<b>Nil</b> all in Kamungi area – crop raiding elephants
<i>Arrests</i>	<b>2</b> (bushmeat poachers)
<i>Wire Snares Recovered</i>	<b>13</b> (13 medium)
<i>Bush Meat Recovered (Kg)</i>	<b>4kg</b> (1 Dikdik)
<i>Poachers Equip. Recovered</i>	<b>Nil</b>
<i>Poachers camps/Blinds</i>	<b>Nil</b> (1 fresh)
<i>Night Ambushes set</i>	<b>Nil</b>
<i>Response to Armed Situations</i>	<b>Nil</b>
<i>Tembo Teams foot patrols (km)</i>	<b>769km</b> foot patrols – 4 teams
<i>Collared Elephant Observations</i>	<b>15</b> forms submitted to STE (joint KWS/TT teams)
<i>Carnivore Monitoring</i>	Ongoing partner to KWS TCA Research for carnivore monitoring
<i>Invasive Plants</i>	Ongoing mapping and monitoring of Opuntia cactus – TENP
<i>Critically Endangered Raptors</i>	Ongoing monitoring
<i>Illegal Cattle Drive KWS Support</i>	<b>Nil</b>
<i>Charcoal &amp; Logging</i>	<b>Nil</b> inside TWNP. (Certain areas outside the Parks are out of control)
<i>Training</i>	<b>1</b> TT Scout – snake handling at Bio-Ken Snake Farm, Watamu <b>1</b> KWS Research Officer-Masters training with funding support from TT <b>8</b> TT scouts trained in use of SMART by ZSL
<i>TT HQ Rainfall</i>	<b>107mm</b> . Total rainfall to date: <b>303mm</b>



*Photo shows Tusker coded as WS1 taken on 18<sup>th</sup> March 2020, TENP.*

*WS1 is one of the 10 Super Tuskers that live in Tsavo today.*

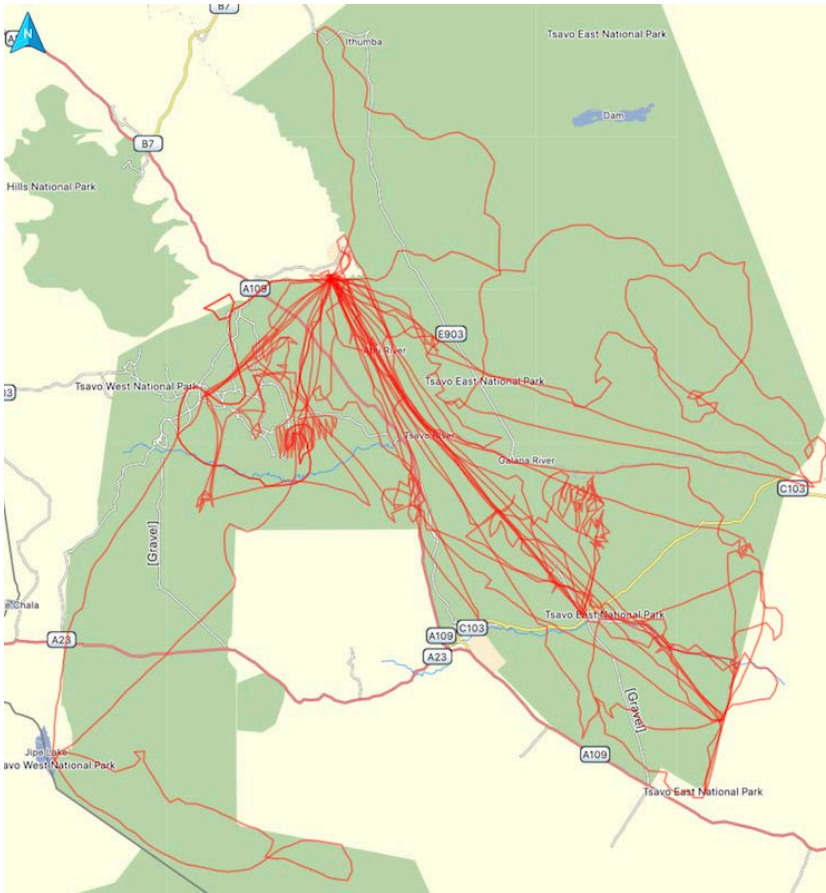
*It is these Tuskers, as well as the iconic cow Tuskers and emerging Tuskers that form the basis of the joint Tsavo Trust / KWS Big Tusker Project.*

*WS1 has been physically observed by Tsavo Trust / KWS 287 times since 15<sup>th</sup> August 2013, the date he was first recorded into the BTP database.*

*This averages 1 sighting every 8 days since then.*

**Aerial Reconnaissance - Areas Covered:**

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



*Map shows Tsavo Trust's flight paths over the TCA in March 2020.*

*60 hours flown covering 6,581 kilometers over Tsavo in support of KWS.*

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



*29<sup>th</sup> March 2020; photo taken from the air, shows a hippopotamus having died naturally in a fight, along with several crocodiles lining up for a feast – TENP.*

## Field Mobile Units:

Tsavo Trust's mobile field teams work alongside KWS, who take the lead role, on a daily basis. **Tembo 1, 3, 5 teams & Kamungi Scouts** are habitat protection / de-snaring focused whilst **Tembo 2 & 4 teams** are wildlife monitoring based. All teams provide further "eyes and ears on the ground".

## Habitat Protection / De-snaring teams:

**Table 7: Shows outcomes from field activities from Tembo 1, 3, 5 & Kamungi Scouts teams:**

De-snaring teams	No. Field days	No. Arrest	No. Ivory recvd.	No. Snare recvd.	Bushmeat recvd.	Poachers equip. recvd.	No. Poacher camps	No. HWC Cases	Vehicle mileage km
<b>Tembo 1 (TENP)</b> (6 TT Scouts + 3 KWS Rangers)	31	2 Bushmeat poachers	Nil	11 11 medium	4kg Dikdik	Nil	Nil	Nil	2,560
<b>Tembo 3 (TWNP)</b> (6 TT Scouts + 3 KWS Rangers)	31	Nil	Nil	2 2 medium	Nil	Nil	Nil	Nil	2,264
<b>Tembo 5 / Kamungi (TWNP)</b> 14 TT Scouts + 3 KWS Rangers	19	Nil	Nil	Nil	Nil	Nil	Nil	Nil	539
<b>TOTALS</b>	<b>81</b>	<b>2</b>	<b>Nil</b>	<b>13</b>	<b>4kg</b>	<b>As above</b>	<b>Nil</b>	<b>Nil</b>	<b>5,363</b>
<b>Total 2020</b>	<b>258</b>	<b>6</b>	<b>2</b>	<b>128</b>	<b>179kg</b>	<b>-</b>	<b>2</b>	<b>10</b>	<b>22,461</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)	22	-Tusker monitoring -Hirola monitoring -Grevy's zebra monitoring -Carnivore monitoring -Carnivore scat collection for analysis – hair content -Mombasa/Nairobi - Road & SGR kill surveys -Camera trap surveys -Fixed point photos -Collared elephant reporting	-Tuskers – 4 sighting -Hirola – 1 -Grevy's Zebra – 0 -Large Carnivores – 0 -Road & Rail kills – 0 -Elephant carcasses – 0 -Rain gauge readings -Collared elephants – 0 Carnivore scat collect – 0 Shirango Social Eco Survey of 100 households	Tsavo East Nat. Park – mainly southern, central and eastern sections including Shirango Conservancy	1,619
<b>Tembo 4 (TWNP)</b> (2 TT staff + 2 KWS)	Not Deployed Vehicle problems	-Tusker monitoring -Rhino monitoring in IPZ -Carnivore monitoring -Mombasa/Nairobi - Road & SGR kill surveys -Rainfall data collection -Camera trap surveys -Fixed point photos -Collared elephant reporting	-Tuskers – 0 sighting -Rhino monitoring IPZ -NRS night census – n/a -Large Carnivores – 0 -Road & Rail kills – 0 -Elephant mortality - 0 -Rain gauge readings -Collared elephants – 0 Kamungi Cons. Game census transects – 2	Tsavo West Nat. Park – N/A	Nil
<b>TOTALS</b>	<b>22</b>	<b>As above</b>	<b>As above</b>	<b>As above</b>	<b>1,619</b>
<b>Total 2020</b>	<b>77</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>8,867</b>

ACTIVITY	KAMUNGI Conservancy	SHIRANGO Community Conservancy
<b>Ongoing partnership between Tsavo Trust &amp; KC &amp; SCC</b>	North boundary of TWNP – Triangle. 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 and its partners 25 permanent staff and 20 casual staff were employed generating over \$ 10,000 (Ksh. 1,000,000) of income into Kamungi monthly.	Tsavo Trust employs 10 staff from SCC including a Community Liaison Officer (CLO) to spear head activities. Salaries generate over \$2,200 (Ksh.220,000) of income monthly as a result.
<b>Community Mobilization and Sensitization Meetings</b>	<ul style="list-style-type: none"> <li>➤ 6 community meetings held</li> <li>➤ 4 ZSL/Darwin – VSLA meetings help</li> </ul>	<ul style="list-style-type: none"> <li>➤ 4 community meetings held</li> <li>➤ Social Economic Survey carried out in last half of March 20 where 100 households surveyed with Govt. input.</li> </ul>
<b>Membership</b>	Through a registered CBO KC membership represents 100 families & over 1,100 individuals. Mainly WaKamba community.	From 5 villages on the fringes of SCC: Shirango; Gede Jira/Garbiti; Ngambo/Baisa; Dabaso; Chamamba. Registration is ongoing – at least 2,100 to date, mainly come from the Watha and Giriama ethnic groups.
<b>Water Project</b>	NIL litres of water was issued – pump has failed and needs repairs. <i>Tsavo Trust is looking to other alternatives and funding to supplement supply.</i>	Solar bore hole pump and solar panels are in place. Water users committee established. 2 community members now employed at water project. Security outpost is being constructed.
<b>Basic Health care</b>	<i>Tsavo Trust is looking for funding for a bore hole here to support this only healthcare outlet. Numbers of visitors have increased since Dispensary rebuild and upgraded.</i>	This is currently dis-functional due to various challenges. Nearest health centre is 10km away. 50% of residents rely on traditional herbal medicines.
<b>Basic Education</b>	Tsavo Trust has paid for 2 teachers (1 at Ngiluni & 1 at Kamunyu School within KC) for the last 7 years. This is ongoing.	No activities as yet.
<b>VSLA – Savings Groups</b>	Village savings & loan groups are in the progress – partnership between ZSL / KC & Tsavo Trust for next 4 years.	None at present.
<b>Training</b>	Patrick Mutua ongoing training at Bio-Ken Snake Farm, Watamu, for <i>Snake handling and identification</i> . VSLA training to KC communities SMART training to Kamungi Scouts	None at present.
<b>HWC – Elephant Bee Fences</b>	7 x 1-acre bee fences, total 105 beehives with 26 currently occupied. 5/3/20: honey harvesting yielded 4.5kg only?	N/A
<b>Human Wildlife Conflict (HWC)</b>	24 cases recorded: 15 elephant cases; 5 Leopard (11 shoats); 3 hyena 93 shoats)	20 cases recorded: 5 hyenas (5 shoats); 4 leopards (4 shoats); 5 lion (5 cows); 6 honey badger (6 chickens)
<b>Land Tenure</b>	KC was historically Ngai Ndethia NR. Land was surveyed and sold to individuals under Ngiluni Settlement Scheme back in the 1970's. Title deeds have yet to be issued.	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>	Nil – due to COVID-19	Annual aerial census due to take place.
<b>Operations and Security</b> <i>Tembo 1 Team = T1</i> <i>Tembo 5 Team = T5</i> <i>Kamungi Scouts = KS</i>	<ul style="list-style-type: none"> <li>➤ <b>Arrests:</b> 2 bushmeat poachers</li> <li>➤ <b>Snares / traps / bushmeat:</b> 2 snares</li> <li>➤ <b>Equip. recvd.:</b> Nil</li> <li>➤ <b>Elephant carcass / Ivory:</b> Nil</li> <li>➤ <b>Night ambushes:</b> Nil</li> <li>➤ <b>HEC:</b> Nil</li> </ul>	<ul style="list-style-type: none"> <li>➤ <b>Arrests:</b> 2 (bushmeat poachers - Dikdiks)</li> <li>➤ <b>Snares &amp; traps recvd.:</b> 11; 4kg bushmeat</li> <li>➤ <b>Equip. recvd.:</b> Nil</li> <li>➤ <b>Elephant carcass / Ivory:</b> Nil</li> <li>➤ <b>Night ambushes:</b> Nil</li> <li>➤ <b>Poachers camps:</b> Nil</li> </ul>

## **Unusual Photo of the Month:**

*31<sup>st</sup> March 2020: photo shows an Emperor Scorpion (*Pandinoides militaris*) taken at Tsavo Trust HQ. With the continued rains in this area, scorpions and so many other varied insects remain plentiful, especially at night.*

*Photo on the left shows the scorpion in “white light” (normal torch light) and on the right the same scorpion in ultraviolet torch light. These scorpions can look quite dangerous and harmful but in fact they are placid and not as painful a sting as the many other types found here.*



**With sincere thanks and appreciation** to the Kenya Wildlife Service; US Fish & Wildlife Service; The Oak Foundation; USAID / DOI; Cheyenne Mountain Zoo; Leopardess Foundation (Nicole Honegger); JM Foundation Africa; Zoological Society of London (ZSL); Save The Elephants (STE) / Elephant Crisis Fund (ECF) / Wildlife Conservation Network (WCN); Global Wildlife Conservation; Tusk Trust; Stuart Herd; Sir Colin Southgate; Nick Southgate; Alex Graham; Nick Powell; James Robertson; Markus Jebesen; The Kratt Family; Loic Gouzer; Georg Waechter Memorial Foundation; International Elephant Foundation (IEF); Disney/Wildlife Conservation Society (WCS); Ndovu Trust (UK); Nick Lapham; Mike Kirkland - Satao Camp & Southern Cross Safaris (Msa); Ker & Downey Safaris; Paul Block; Anita Mishra & Paolo Mapelli; Glassybaby White Light Fund; Tropical Ice Ltd; the late John Fletcher; Paul & James Wilson; Askari Project – Australia; Skip & Joanie Mooney; Origins Safaris; Catherine Lagrange; Enos Enterprises – Tembo Wine; International Fund for Animal Welfare (IFAW); TUI Care Foundation; Empowers Africa; Salama Fikira; Steve Parkinson; Conservation Alpha; JW Seagon Insurance; Howard Saunders; Sandor Carter; Sean Dundas; Karen Laurence-Rowe; James Lewin; OnSafari-Kenya-Anthony Cheffings; Alan Binks; Andreas Fox; Saving the Survivors – Johan Marais; Chris Acreman; Alex Hunter – Insiders Africa; Will Burrard-Lucas; Lewa Canada; ESRI – E.A.; Spidertracks; Pembroke House School and numerous other individual supporters.

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