

MONTHLY REPORT:

NOVEMBER 2020

SUMMARY of ACTIVITIES:

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

WILDLIFE CONSERVATION PROGRAM: Big Tusker Project – Aerial & Ground Activities		
Activity	Hours Flown	Kilometers Covered
 Aerial Reconnaissance	61 (655 for year) Average 115km p/h of low-level flight	7,022 (72,457km for year) Flights carried out jointly with KWS staff
 Rhino specific flights	28 (239.5 for year)	3,161 (27,036km for year)
	Field Patrol Days	Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 90 days (1,065 to date) Monitoring teams: 59 days (520 to date)	Vehicle patrols: 5,177km (62,318km to date) Foot patrols: 561km (7,206km to date) Monitoring teams: 6,608km (60,442km to date)
 Big “Tuskers” observed	15 Tuskers - 5 Super Tusker bulls, 7 emerging bulls, 3 cow Tuskers = 32 individual observations	
Ivory recovered	6 elephant tusks (43 for year)	
Elephant mortality	Fresh (less than 3 weeks old)	Recent (less than 3 months old)
	Nil – (c of d:)	3 old (c of d: Unconfirmed)
Poacher camps/hides	Fresh - Nil	Recent – Nil
Arrests	2 – by KWS / TT – 22 for year to date Bushmeat recvd: 37kg (1,450kg for year to date)	
Snares/traps recovered	17 by Tembo Teams: 483 snares to date 2020 (350 small; 107 medium, 24 large)	
Support to KWS-armed incidents	Nil	
Illegal Livestock (only in PA)	No livestock flights this month	
Written reports to KWS	43 (daily Situation reports, various communications & 1 monthly report)	
General & significant notes	17/11/20: KWCA visit to Shirango Conservancy - Significant funding support through WCN/RRF for TWNP IPZ rhino security - Good rains in most parts of Tsavo throughout the month	
COMMUNITY CONSERVANCY PROGRAM:		
Kamungi Conservancy North boundary TWNP 	<u>Employment</u> (through T/Trust): 30 permanent, 20 temporaries <u>Membership: 1,400 people</u> - Community Mobilization meetings: 12 - Ongoing Projects: Water project; Dispensary; 10% fence plan; VSLA’s; feeding program; HEC-Mtito fence planning - Human Wildlife Conflict (HWC): 33 reports, mainly crop raiding elephants, leopard issues - Wildlife Counts: 1 sample transect counts - Security Ops: 3 snares recvd., other equip. recvd.	
Shirango Conservancy South East boundary TENP 	<u>Employment</u> (through T/Trust): 11 permanents <u>Membership: 2,300 people</u> - Community Mobilization meetings: 7 - Ongoing Projects: Water project; HQ/outpost completed; anti-poaching; land tenure - Human Wildlife Conflict (HWC): 8 reports all livestock predations - Wildlife Counts: Nil - Security Ops: T1 team – Nil arrest (bushmeat poachers); Nil snares recvd;	
FIELD CONSERVATION FORMAL PARTNERS:		
KWS-Kenya Wildlife Service	Partner to KWS: through MoU. Incl. Rhino Strategy & Hirola Recovery Plan	
ZSL-Zoological Society London	Partner with ZSL: Rhino Impact Bond (RIB) in TWNP & Community development	
STE-Save The Elephants	Partner in aerial & ground monitoring - collared elephants; Elephants & Bees project	
ASDF-African Sand Dam Fdn	Construction of Sand Dams – partnership with ASDF & Excellent Development UK	
JAAT-Anti-venom Trust	Partner to JAAT (supplier of top-quality snake bite antivenom) – Tsavo outlet	
MWCT-Maasai Wilderness	Partner – general conservation initiatives/activities	



2nd November 2020, photo shows a TENP cow rhino with her young healthy calf. Tsavo Trust aerial patrols are called upon by KWS regularly to cover known home range areas in TE IPZ.

WILDLIFE CONSERVATION PROGRAM:



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

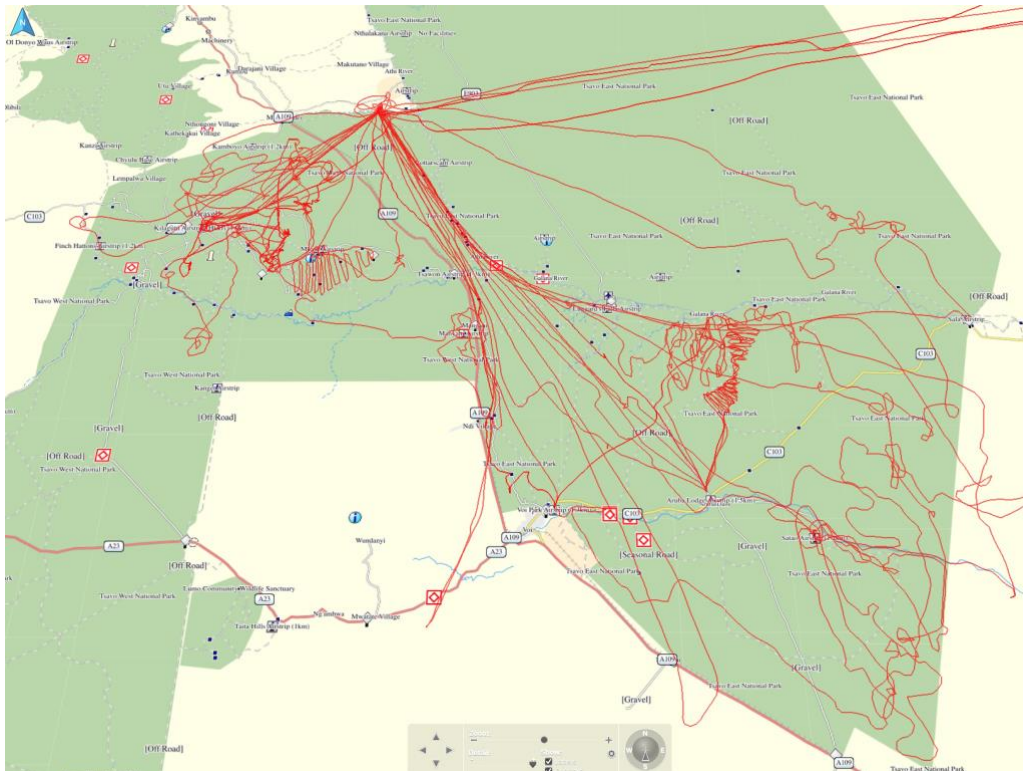
Table 1: Summary of Big Tusker Project (BTP)

Activity / Detail	Number & Brief Remarks
BTP individual Tusker sightings	Total = 32 sightings – TT monthly record
Super Tusker Bulls	5 individuals (10 sightings)
Emerging Tuskers (bulls)	7 individuals (19 sightings)
Iconic Cow Tuskers	3 individuals (3 sighting)
Elephant Mortality	3: Nil fresh; 3 old (3 unconfirmed c of d)
Ivory Recovered	6 tusks (from found elephant carcasses)
Elephant Treatment	Nil
Wildlife Rescues	Nil
Rhino Aerial Patrol Support (KWS / ZSL / TT partnership)	10 rhino specific reces: 3,161km flown = 28hrs (6 TW & 4 TE)
HWC cases attended to	3
Arrests	2 (bushmeat poachers)
Wire Snares Recovered	17 (4 medium, 13 small)
Bush Meat Recovered (Kg)	37kg (11 fresh Dikdiks, 1 Hare)
Poachers Equip. Recovered	3 spotlights, 1 lamping horn, 2 knives, 1 file
Poachers camps/Blinds	Nil
Night Ambushes set	2 (2 TW Kishushe, Manyani)
Response to Armed Situations	Nil
Foot patrols (km) Tembo Teams	561km foot patrols – 3 teams
Collared Elephant Observations	16 forms submitted to STE (joint KWS/TT teams)
High Value Wildlife Monitoring	Ongoing partner to KWS TCA Research (carnivores, endangered species)
Firefighting cases	Nil
Illegal Cattle Drive KWS Support	Nil
Charcoal & Logging	Nil
Training	2 TT Officers Masters training; Pangolin Training; HWC community training; TT & Kamungi Officers - 4-day training in Permaculture
TT HQ Rainfall	253mm. Total rainfall to date: 706mm



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 on a daily basis for necessary rapid actions and their records.



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

61 hours flown covering 7,022 kilometers over Tsavo in support of KWS.

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



Photo shows brand new Toyota Land Cruiser deployed to Tsavo Trust Tembo 5 de-snaring unit fully rigged with Tsavo Trust colors and field vehicles specs. This is a very generous donation along with other significant field support from Department of Interior / USAID Kenya for 2020/21. Tsavo Trust has enjoyed a meaningful partnership with DOI / USAID in support of field conservation for some years now. We value this greatly.

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
15/11/20	1	-	Old	Unconfirmed, ivory x 2 recvd. TT/KWS	TENP, IPZ
16/11/20	1	-	Old	Unconfirmed, ivory x 2 recvd., TT/KWS	TENP, Satao area
16/11/20	1	-	Old	Unconfirmed, ivory x 2 recvd. TT/KWS	TENP, Mukauju area
Month Total	3	-	3		
Total 2020	23	15	8		

- **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
Nil	-	-	-	-	-
Month Total	-	-	-	-	-
Total 2020	10	1	3	6	-
<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	-	-	No livestock related flights carried out
TWNP	-	-	No livestock related flights carried out
TOTALS	-	-	Nil cows

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

Date	Incident	Location
Routine & Monthly	Regular aerial patrols carried out to compliment KWS Park field operations & management	TENP, TWNP and dispersal areas
2/11/20	Rhino recce: 11 rhinos of the 18 total in TE were observed	TENP - IPZ
4/11/20	Routine recce: 1 Super Tusker KO1; 1 Emerging Tusker BL1; 2 collared elephants; 4 lions & 2 honey badgers observed	TENP, Emusaya

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	61hrs in Super Cub aircraft @ \$250 all incl.	15,250
Vehicle running costs - Field Mobile Teams (Tembo 1, 2, 3, 4 & 5) – ongoing TENP & TWNP	4 vehicles covered 11,785km @ \$1 p/km incl. fuel, tires, maintenance, servicing & f/c insurance	11,785
TT Field Staff x 30 (Tembo teams)	Not Included	-
TENP - Dakota Platoon Vehicle Diesel - ongoing	100ltrs p/month	100
TENP - DSTV Dakota Base - ongoing	Monthly subscription	40
TENP – KWS staff training	Research Scientist Masters training support over 2 years - ongoing.	-
TOTAL MONTH		\$27,175
TOTAL 2020 to DATE:		\$464,664

Field Mobile Units:

Tembo 1, 3, 5 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, Kamungi & Shirango Scout teams:

De-snaring teams	No. Field days	No. Arrest	No. Ivory recvd.	No. Snare recvd.	Bushmeat recvd. Kg	Poacher equip. recvd.	No. Poacher camps	No. HWC Cases	Vehicle mileage km	Foot Patrol km
Tembo 1 (TENP) & Shirango Scouts (12 TT Scouts + 3 KWS Rangers)	30	-	6	-	-	-	-	-	2,649	139
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	30	2 Bushmeat poachers	2	14 10 small & 4 medium	37kg 11 fresh Dikdiks, 1 Hare	3 spotlights, 1 lamping horn, 2 knives, 1 file	-	-	2,488	193
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	Shortly to be re deployed to field	-	-	-	-	-	-	-	-	-
Kamungi Scouts 4 Scouts	30	-	-	3 All small	-	-	-	3 Drove elephants from farmlands	40	229
TOTALS	90	2	2	17	37	As above	-	3	5,177	561
Total 2020	1,065	22	16	483	1,450kg	-	10	18	62,318	7,206

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)	29	-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 – 21 sighting -Hirola – 12 -Grevy's Zebra – Nil -Large Carnivores – 11 -Road & Rail kills – Nil -Elephant carcasses – 2 old -Ivory recvd. – 4 tusks (old) -Rain gauge readings -Collared elephants – 6 Carnivore scat collect – 0	Tsavo East Nat. Park – mainly southern, central and eastern sections including Shirango Conservancy	3,399
Tembo 4 (TWNP) (2 TT staff + 2 KWS) 	30	-RHINO monitoring – TW IPZ -Camera trap surveys - rhino -Big Tusker monitoring -Large Carnivore monitoring -Collared elephant reporting	-IPZ Rhinos – 18 -Tuskers - 0 -Large Carnivores – Nil -Collared elephants – 0 -Elephant carcasses – Nil -NRS Rhino night census – n/a	Tsavo West Nat. Park – IPZ	3,209
TOTALS	59	As above	As above	As above	6,608
Total 2020	520	-	-	-	60,442



27th November 2020, Photo shows one of the Kamungi Conservancy members by her cultivated farm encompassed by one of the 7 “elephant-bee fences”. These fences are a successful deterrent to potential crop raiding elephants in most cases.



Photo shows one of the Kamungi Conservancy children enjoying clean water at the Ngiluni village water dispensing kiosk.

This water supply has changed the lives of so many in this area and it is with sincere thanks to Cheyenne Mountain Zoo and the Kratt Family that this was made possible.

It has been well portrayed that this vital water supply has come from the wildlife and over time, a “culture of conservation” has genuinely evolved since Kamungi Conservancy was established by Tsavo Trust over 5 years ago.

COMMUNITY CONSERVANCY **PROGRAM:**

ACTIVITY	KAMUNGI Conservancy	SHIRANGO Community Conservancy
Ongoing partnership between Tsavo Trust & KC & SCC	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.
Employment (through Tsavo Trust)	Between Tsavo Trust and its partners 30 permanent staff and 20 casual staff were employed generating over \$10,000 (Ksh.1,000,000) of income into Kamungi monthly.	Tsavo Trust employs 11 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.
Community Mobilization and Sensitization Meetings	➤ 12 community meetings held ➤ 14/11/20: Board Meeting	➤ 7 community meetings held ➤ 17/11/20: KWCA / TTWCA meeting ➤ 25 & 26Nov20: Shirango Manager attended KWCA Coastal landscapes workshop in Malindi
Membership	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.
Water Project	100,000 litres of water was issued – Dispensary bore hole drilled, solar pump and panels installed and good quantities of water available for Kamungi community	Bore hole, pump and solar panels are in place, but saline water. Plans for construction of an earth dam underway if funded.
Basic Health care	293 patients attended (2,963 for year to date).	This is currently dis-functional. Nearest health centre is 10km away. 50% of residents rely on traditional herbal medicines.
Constructions	Scouts HQ & Office/store completed	Scouts HQ ongoing and nearing completion
Feeding Program due to COVID-19	27/11/20: 9 th Kamungi feeding assistance - 140 households	None at present due to distances involved and lack of funds to implement.
Basic Education	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.
VSLA – Savings Groups	Village savings & loan groups are in the progress – partnership between ZSL / KC & TT	None at present.
Training	Permaculture training took place	None at present.
HWC	7 x 1-acre bee fences, total 105 beehives with 14 currently occupied.	N/A
Elephant Bee Fence	10% fence plan completed Phase 1: 3 plots (electric fencing of 10% of individual land).	N/A
10% Fence Plan		
Human Wildlife Conflict (HWC)	33 cases recorded: 25 elephant cases; 4 Leopard; 2 Hyena, 1 crocodile, 1 zebra	8 cases recorded: 2 hyenas; 2 Cheetah; 1 leopard; 3 honey badger
Land Tenure	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.
Wildlife Census Transects	1 transect count – 59 direct sightings of 11 different species.	Annual aerial census due to take place.
Operations and Security Tembo 1 Team = T1 Tembo 3 Team = T3 Kamungi Scouts = KS Shirango Scouts = SS	➤ Arrests: Nil ➤ Snares / traps / bushmeat: 3 snares ➤ Equip. recvd.: Nil ➤ Elephant carcass / Ivory: Nil ➤ Night ambushes: Nil ➤ HEC: 3	➤ Arrests: Nil () ➤ Snares & traps recvd.: Nil ➤ Equip. recvd.: Nil ➤ Elephant carcass / Ivory: Nil ➤ Night ambushes: Nil ➤ Poachers camps: Nil

Unusual Photo of the Month:



Aerial photo taken by Tsavo Trust pilot – Nick Haller of a honeymoon couple of lions in TENP.

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)/Elephant Crisis Fund (ECF)/Wildlife Conservation Network (WCN); Global Wildlife Conservation; Tusk Trust; Rhino Recovery Fund (WCN); International Elephant Foundation (IEF); Disney/Wildlife Conservation Society (WCS); Georg Waechter Memorial Foundation; 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; International Fund for Animal Welfare (IFAW); TUI Care Foundation; Empowers Africa; Enos Enterprises–Tembo Wine; Salama Fikira; Design by Freedom; 51 degrees; Conservation Alpha; JW Seagon Insurance; Saving the Survivors; World Book; Lewa Canada; Prints for Conservation; Remembering Wildlife Books and many more.

Individuals: Stuart Herd; Sir Colin Southgate; Nick Southgate; Nicole Honegger; Alex Graham; Nick Powell; James Robertson; Markus Jebesen; The Kratt Family; Loic Gouzer; Nick Lapham; The Davies Family; Mike Kirkland; Paul Block; Anita Mishra & Paolo Mapelli; the late John Fletcher; Paul & James Wilson; James Chiappa; Will Burrard-Lucas; Drew Doggett photography; Goh & Courtney Iromoto; the Kiddingtons; Catherine Lagrange; Renzo Bernardi; Steve Parkinson; Howard Saunders; Sandor Carter; Sean Dundas; Karen Laurence-Rowe; James Lewin; Anthony Cheffings; Alan Binks; Andreas Fox; Prints for Conservation; Johan Marais; Chris Acreman; Alex Hunter and numerous other enthusiasts.

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

All photographs ©Tsavo Trust 2020