

Tsavo Trust is an action orientated, field-based, Kenyan not-for-profit conservation organization that recognizes the importance of a holistic approach to biodiversity conservation. www.tsavotrust.org

Tsavo Trust film clip: https://www.voutube.com/watch?v=qGgM6-gqZ0E&t=270s

NOVEMBER 2022 MONTHLY REPORT



Kwaheri 'Dida'. Iconic cow Tusker Dida's carcass was found on 31/10/2022 having last been sighted alive on 03/09/2022. Her death is a positive to conservation efforts by the Kenya Wildlife Service and its partners like Tsavo Trust as Dida lived a full life and died of old age, at a time where elephants face a myriad of challenges such as climate change, human-elephant conflict, habitat loss and fragmentation, and trophy poaching. Photo credit Tsavo Trust – Nick Haller.



TRUST SUMMARY of ACTIVITIES:

Activity	Hours Flown		Kilon	neters Covered	
Aerial Unit	48 (612 for year) Average 127km p/h of low-lev	vel flight	8,165	(79,807km for year) out jointly with KWS staff	
Rhino Aerial Patrols	Aerial Patrols: 15 (6 TWNP; Nil TENP) (215hrs for year to date)		Aerial: 1,648 (25,384km for year)		
	Field Patrol Days		Kilometers Covered		
Ground Protection Activities (Joint with KWS / TT & Community Scouts)	Protection teams: 180 days (1,756 to date) Monitoring teams: 60 days (610 to date) Vehicle patrols: 17,660km (134,267) Foot patrols: 899km (10,838km to date) Monitoring teams: 7,514km (83,72)			km (10,838km to date)	
Big Tusker Project	12 Tuskers - 6 Super Tuskers (•	sights), 5 emerging individual observ		
Collared Elephant Sightings: Joint KWS/STE/TT program	8 sightings: record form	s submitted	to STE (aerial and	ground observations)	
Ivory recovered	36 ele	phant tusks	s (94 for year to da	nte)	
Elephant mortality	Fresh: 17 (c of d: 14 natural, 2 unknown, 1 poached) (Less than 3 weeks old) Recent: (c of d: Natu (Less than 3 mont)		f d: Natural)	Old: 2 (c of d: All unknown) (More than 3 months old)	
High Value Species Monitoring	Ongoing partner with KWS T large carnivores, R			_ · ·	
Wildlife - Treatment &	Venomous snakes re-located from communities: 1 Puff Adder				
Translocation	Others: Nil				
Poacher camps/hides	Fresh-1 (12 to date	e)	Rece	nt - 1 (5 to date)	
Arrests – joint KWS/TT	67 – 1 illegal herder; 6 busl	•	rs; 50 illegal entry a year to date)	nd 10 illegal immigrants	
Snares/traps recovered	137 by Tembo Teams: 1,6	46 snares to	date 2022 (1,323 s	mall; 274 medium; 49 large)	
Bushmeat recoveries (wet & dried)	50		g for year to date) ks; 1 Impala		
Poachers Equip. Recvd.	6 pangas; 3 bicycles; 2 knife;	13 lamping l	norns; mobile phor	nes and cooking equipment	
Night Ambushes	Joint KWS / TT: 18 (Murondo Rat	nch; athi River; N	Atito River; Kishushe; Ku	ılalu Ranch; KMC Ranch; Kilifi dam)	
Firefighting	Nil - (Fire outbreaks	greatly redu	ced by rainfall exp	perienced in Nov)	
Human Elephant Conflict	Joint TT-KWS team: 10 elephants driven from farmlands east of Mtito Andei (184 elephants pushed from farms – Jan-Oct22 compared to 1,679 in Jan-Oct21 = 89% reduction following TT fence)				
Illegal Livestock (only in PA)	10 active cattle bor	na (5,800 cov	ws; 330 shoats; 5 do	nkeys; 29 people)	
Written reports to KWS	74 (daily Situation re	ports, various	communications &	1 monthly report)	
TT Staff Training activities	3 TT Officers Masters training; 1 KWS Officer Masters training; HWC community training; Community livelihood training on Climate Smart Agriculture.				
TT HQ Rainfall figures	113. Total rainfall to date for 2022: 193mm				

Significant notes

- officers notified and the rhino successfully treated.
- Drought related wildlife mortalities increased with 20 buffaloes, 16 zebra, 4 eland 3 coke's hartebeest are recorded in a single aerial monitoring patrol done on 22/10/2022.
- Tsavo's most iconic cow elephant "Dida" died of old age hastened by drought. Dida's age was approximately 60 years and she lived longer than most of us thought she would.

COMMUNITY CONSERVANCY PROGRAM:



Kamungi Conservancy

- > Located: Northern boundary TWNP Triangle
- TT has played a stewardship role and partnered with KC since 2014



Shirango Community Conservancy

- Located: Southeast boundary TENP
- 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)













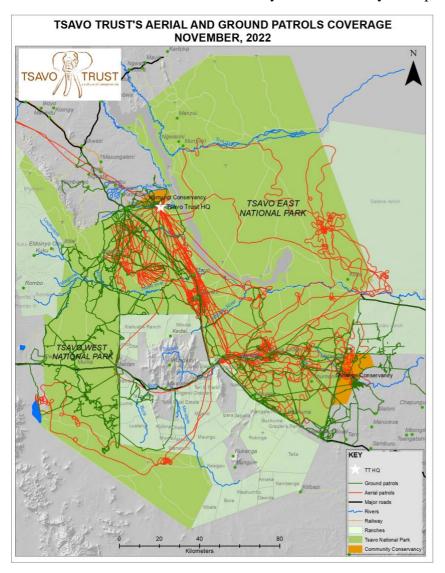






Aerial Reconnaissance and Ground Patrols - Areas Covered:

- 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.



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 22,000km² (TENP, TWNP & CHNP) and then a further 20,000km² totaling 42,000km² to form the Tsavo Conservation Area (TCA).

Aerial: 48 hours flown covering 8,165 kilometers over Tsavo in support of KWS.

Ground: 899 kilometers of foot patrol and a further 25,174 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: 14/10/22: Photo shows Tsavo Trust's donation of 70 bags of maize and 30 bags of beans (1 bag equals 90kg) delivery at Jira Primary School. The long dry spell not only affected wildlife but communities and their livestock as well. In the case here, school attendance had dropped from 720 to 400 pupils due to lack of food. Tsavo Trust has initiated Climate Smart Agriculture training as a long-term measure to mitigate effects of prolonged dry spells in future.



Field Key Notes & Observations:

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

Date	No.	Fresh	Recent	Old	Cause of Death	Location
01/11/2022	1	1	-	-	Natural, KWS/TT recovered 2 tusks	TENP – Aruba
01/11/2022	1	-	-	1	Unknown, 2 tusks retrieved by KWS/TT	TENP – Aruba
04/11/2022	1	1	1	-	natural, KWS/TT recovered 2 tusks	TENP - Aruba
04/11/2022	1	1	-	-	Natural, KWS recovered 2 tusks	TENP – Punda Milia
04/11/2022	1	1	-	-	Natural, KWS/TT retrieved 2 tusks	TWNP - Kishushe
05/11/2022	1	-	1	-	Natural, KWS/TT retrieved 2 tusks	TENP – Mukwaju
08/11/2022	1	1	-	-	Natural, Ele calf, Tusks not developed.	TENP - Aruba
10/11/2022	1	1	-	-	Unknown, KWS/TT recovered 2 tusks	TWNP - Mgange
11/11/2022	1	1	-	-	Natural, KWS/TT recovered 2 tusks	TWNP - Mzima pipeline
15/11/2022	1	1	-	-	Unknown, KWS/TT recovered 2 tusks	TWNP - Ngulia
18/11/2022	1	1	-	-	Natural, KWS recovered 2 tusks	TWNP - Mgange
18/11/2022	1	1	-	-	Natural, KWS recovered 2 tusks	TENP - Aruba
19/11/2022	1	1	-	-	Natural, KWS/TT recovered 2 tusks	TWNP – Mzima pipeline
19/11/2022	1	1	-	-	Natural, KWS/TT recovered 2 tusks	TENP – Satao
21/11/2022	1	1	-	-	Natural, KWS/TT recovered 2 tusks	TWNP – Manyani
23/11/2022	1	1	-	-	Natural, KWS/TT recovered 2 tusks	TWNP - Kavai
26/11/2022	1	1	-	-	Natural, KWS recovered 2 tusks	TENP - Snagakalama
26/11/2022	1	1	1	-	Natural, KWS recovered 2 tusks	Galana - NIB
26/11/2022	1	-	1	1	Natural, KWS recovered 2 tusks	TENP - Durusirkale
29/11/2022	1	1	1	-	Opportunistic poaching, Tusks missing.	Taita Ranches - LMD
Month Total	20	17	1	2		
Total 2022	57	40	9	9		

• 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		
04/11/2022	1	1	1	TWNP - Kishushe GPS Ref 37M 0406810 9657186		
28/11/2022	1	1	-	Kishushe Ranch – Ndolwa GPS Ref 37M 0406518 9632865		
Month Total	2	1	1	-		
Total 2022	16	11	5			
Not included	t included 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	Cows	Shoats	Herders/People	Others / Notes
	Bomas				
TENP	2	1,590	230	25	Illegally grazing within boundary with Galana
TWNP	8	4,210	100	24	Illegally grazing in mainly TWNP southern sector
TOTALS	10	5,800	330	29	

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

Date	Incident	Location
Routine &	Regular aerial patrols carried out to complement KWS Park field operations &	TENP, TWNP, and dispersal
Monthly	management	areas
09/11/2022	Routine Ngulia Rhino Sanctuary Monitoring flight – 21 rhinos sighted	TWNP - NRS
21/11/2022	Carcass of Super Tusker LU1 sighted with both tusks intact.	TWNP - Manyani

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	No.	No.	No.	No.	Bushmeat	Poacher	No.	No.	Vehicle	Foot
teams	Field	Arrest	Ivory	Snare	recvd.	equip.	Poacher	HWC	mileage	Patrol
	days		recvd	recvd	Kg	recvd.	camps	Cases	km	km
Tembo 1 (TENP) & Shirango Scouts (6 TT Scouts + 3 KWS Rangers)	30	3 bushmeat poachers	-	13 5 small 8 medium	10 kg _{Dik-dik}	3 panga, 3 bicycle,3 lamping horn and cooking equipment	-	HEC. 8 elephants driven from homesteads at night	2,595	214
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	30	1 Illegal herder	2	6 All small game snares	-	2 lamping horns	-	-	2,807	149
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	30	13 10 Illegal immigrants, 1 bushmeat poacher, 2 illegal entry	6	-	30 kg Dik-diks and Impala	3 lamping horns	2 1 active 1 recent	-	2,586	132
Tembo 7 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	30	-	-	66 52 small 12 medium 2 large	6 kg Dik-diks	2 pangas, 3 lamping horns	-	HEC. elephant driven from a homestead at night	2,868	105
Tembo 9 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	30	48 All for illegal entry	-	2 medium game snares	-	1 panga, 2 knives, 2 lamping horns and mobile phones	-	-	4,780	120
Kamungi Scouts 4 Scouts	30	Bushmeat poachers	-	50 46 small 4 medium	4 kg Dik-dik	2 lamping horns and cooking equip.	-	6 3 HEC & 3 HCC	2,024	179
TOTALS	180	67	8	137	50 kg	As above	2	8	17,660	899
Total 2021	1,756	202	28	1,646	2,216 kg	-	18	86	134,267	10,838

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) (3 TT staff + 2 KWS)	21	-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 – 5 sightings -Hirola – 7 sightings -Grevy's Zebra – 1 sighting -Large Carnivores – 20 sightings Ground Hornbill – 2 sightings -Road & Rail kills – Nil -Elephant carcasses – 7 -Ivory recovered. – 3 -Rain gauge readings -Collared elephants – 1	Tsavo East Nat. Park – mainly southern, central, and eastern sections including, Voi River & Shirango Conservancy	3,022
Tembo 4 (TWNP) (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 – 21 -Tuskers - Nil -Large Carnivores – 1 sighting -Collared elephants – Nil -Elephant carcasses – 4 -NRS Rhino night census – N/A	Tsavo West Nat. Park – IPZ and Triangle	4,492
TOTALS	51	As above	As above	As above	7,514
Total 2022	610	-	-	-	83,721



COMMUNITY CONSERVANCY PROGRAM:



ACTIVITY	KAMUNGI Conservancy	SHIRANGO Community Conservancy
Ongoing partnership	North boundary of TWNP – Triangle, since 2014.	South boundary of TENP – Voi River area, since 2016.
between Tsavo Trust & KC	Total area approx. 100km ² Makueni County;	Total area 270km ² . Kilifi County; Ganze Sub-location;
& SCC	Kibwezi Sub County; Mtito Andei Division; Mtito	Bamba Ward; Mitangani location; Gede Sub-location.
F1	Andei Sub-location; Ngiluni Village.	T Ttl 14 -t-ff f CCC :
Employment Town Town	Between Tsavo Trust & partners 45 permanent staff & 15 casual staff employed generating over	Tsavo Trust employs 14 staff from SCC including a Community Liaison Officer (CLO) to spearhead
(Through Tsavo Trust)	\$12,000 (Ksh.1,320,000) of income into Kamungi	activities. Salaries generate over \$3,000 (Ksh.330,000) of
	monthly.	income monthly.
Community Mobilization	14 community meetings held	5 community meetings held
and Sensitization Meetings	> 28/11/2022. MADET capacity building	> 22/11/2022. Interviews for the Shirango
with Series and Marketings	workshop held in Nairobi.	Conservancy Manager were conducted, and the most
	➤ Kamungi Conservancy Board meeting held on	suitable candidate selected.
	29/11/2022 at the Ngiluni water tank.	➤ 19/11/2022. Tsavo Trust Chief Community Officer
	Kamungi Conservancy Monthly meeting held	had a meeting with the ACC Bamba on Shirango
	on 26/11/2022 at Kamunyu.	Board elections.
	> 22/11/2022. Management Effective Tracking	19/11/2022: Tsavo Trust Chief Community Officer and Tembo 2 driver attended the Shirango AGM. A
	Tool (METT) workshop at Taita Hills lodge facilitated by USAID through IFAW.	total of 126 members from Shirango attended the
	> 17/11/2022. A tree planting event at Iviani	meeting and elected a new office comprising of 5
	Earth Dam Cultural Centre. The event was	executives and 7 officials.
	organized by Makueni County Government.	Six-day training on Climate smart agriculture. 60
	30 trees planted.	farmers benefited from the training done by
	 Chief's/Local administration meeting to share 	KALRO.
	security related reports held on 10/11/2022.	
Membership	Through a registered CBO KC membership	Through a registered CBO SCC membership represents at least 2,300 individuals from 5 villages, mainly from
	represents 140 families & over 1,400 individuals from 2 villages, mainly from the WaKamba	the Watha and Giriama ethnic groups.
	community.	the watha and Offiania cumic groups.
	Considerable interest for more membership from	
	villages to the west towards Mtito	
Water Project	43,810 litres of water issued.	Borehole, pump, and solar panels are in place, but saline
	(925,900 litres for year to date)	water.
D ' II I.I	Ngiluni Primary School connected to piped water.	Construction of an earth dam completed.
Basic Health care	378 patients attended (3,162 for year to date).	There is a need to support this project
Constructions	Honey processing room completed and opened by Governor Makueni C. on 25/01/22	Scouts HQ completed Construction of an Earth dam completed
Education	Paid for 2 teachers (1-Ngiluni & 1-Kamunyu	Construction of an Earth dam completed
<u>Education</u>	School in KC) for the last 9 years. Ongoing.	None at present
Bursary Scheme	Started on April 22	None at present
	5 needy students selected being supported.	
Village Saving & Loan	5 women-run VSLAs are in progress: partnership	None at present
Associations – VSLA's	between ZSL / KC & TT	
Poultry Project	3 poultry projects:	None at present
Tuainina	partnership between ZSL / KC & TT VSLA livelihoods, HWC Mitigation, Climate	
Training	Smart Agriculture, permaculture	Climate Smart agriculture by KALRO.
HWC Mitigation	7 x 1-acre bee fences, total 105 beehives with 9	N/A yet
Elephant Bee Fence	currently occupied.	
_	10% fence plan completed Phase 2 completed:	N/A yet
10% Fence Plan	Total 12 plots (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	
Predator Proof bomas	7 predator-proof bomas set up: by TT/ZSL	N/A yet
Mtito 32km fence line	Completed 30/11/21 with 95% HEC reduction	N/A yet
Human Wildlife Conflict	18 cases recorded: 6 elephant; 5 lion; 2 leopard; 2	4 cases were recorded: 1 hyena; 1 lion and 2 elephant.
(HWC)	baboon; 1 buffalo; 1 snake and 1 spotted hyena.	- 1
Land Tenure	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.
Wildlife Census Transects	1	None
Operations and Security	See the Field Units table above	See the Field Units table above

Unusual Photos of the Month:



Lions are known to be not so good at tree climbing. With the Tsavo's scorching sun, the lion in this picture climbed the tree to enjoy a cool breeze. What was astonishing was that neither the lion nor the elephants were bothered by the other's presence as they both sought refuge from Tsavo's heat. Photo taken by Tsavo Trust's Kyalo Joseph on 21/10/2022.

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; Cheyenne Mountain Zoo; Leopardess Foundation; JM Foundation Africa; Save The Elephants (STE); Elephant Crisis Fund; 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; Maliasili; EU-Biopama Programme; Tofauti Foundation; Chesbro Foundation; Milkywire; Satao Camp & Southern Cross Safaris (Msa); Origins Safaris; Ker & Downey Safaris; Ndovu Trust (UK); Tropical Ice Ltd; OnSafari-Kenya; Askari Project—Australia; Exodus Travel; Maasai Wilderness Conservation Trust (MWCT); Off Piste Africa; Empowers Africa; 51 degrees-Vulcan; Conservation Alpha; Lewa Canada; Prints for Conservation; twio, Remembering Wildlife Books and many more anonymous donors.

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

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