

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

WILDLIFE CONSERVATION PROGRAM: Big Tusker Project – Aerial & Ground Activities		
Activity	Hours Flown	Kilometers Covered
 Aerial Reconnaissance	50.5 (744 for year) Average 115km p/h of low-level flight	6,299 (81,979km for year) Flights carried out jointly with KWS staff
 Rhino specific flights	17.5 (202for year)	2,060 (25,635km for year)
	Field Patrol Days	Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 150 days (1,576 to date) Monitoring teams: 54 days (588 to date)	Vehicle patrols: 11,384km (101,660km to date) Foot patrols: 952km (7,691km to date) Monitoring teams: 7,891km (78,175km to date)
 Big “Tuskers” observed	11 Tuskers - 3 Super Tusker bulls, 7 emerging bulls, 1 cow Tusker = 26 individual observations	
Ivory recovered	19 elephant tusks (57 for year to date)	
Elephant mortality	Fresh (less than 3 weeks old)	Recent (less than 3 months old)
	9 – (c of d: all natural-drought)	1 - (c of d: natural)
Poacher camps/hides	Fresh - Nil	Recent – Nil
Arrests	40 – by KWS / TT – 2 ivory dealers; 1 bushmeat poacher; 37 illegal cattle herders (106 for year to date); Bushmeat recvd (wet & dried): 68kg (728kg for year to date)	
Snares/traps recovered	42 by Tembo Teams: 1,213 snares to date 2021 (858 small; 261 medium, 94 large)	
Human Elephant Conflict	Joint TT-KWS team: 39 elephants driven from farmlands east of Mtito Andei (1,679 elephants pushed out of farms in 2021 to date – ave. 5 per night)	
Illegal Livestock (only in PA)	2 live cattle bomas (13,730 cows; 1,500 shoats; 20 camels; 49 men)	
Written reports to KWS	67 (daily Situation reports, various communications & 1 monthly report)	
Significant notes	14/11/21: TT/KWS T4 team rescued elephant stuck in mud water hole and released 19/11/21: TT/KWS T1 team rescued elephant calf from dried water hole, TENP, taken to SWT 30/11/21: HEC 30km Fencing Project: Mtito to Athi fence completed - Very late rains and subsequent drought has ravaged Tsavo leaving many wildlife species dead - Very successful illegal livestock drive lead by KWS with TT support in TWNP. 39 arrests made	
COMMUNITY CONSERVANCY PROGRAM:		
Kamungi Conservancy North boundary TWNP 	<u>Employment</u> (through T/Trust): 36 permanent, 15 temporaries <u>Membership</u>: 1,400 people - Community Mobilization meetings: 16 - Ongoing Projects: Water project; 10% fence plan; VSLA’s; HEC-Mtito fence; Dispensary support; Permaculture Project; SAPA workshops & trainings - Human Wildlife Conflict (HWC): 76 reports; crop raiding elephants & lion predation issues - Security Ops (KWS, T3 & KS):	
Shirango Conservancy Southeast boundary TENP 	<u>Employment</u> (through T/Trust): 14 permanents <u>Membership</u>: 2,300 people - Community Mobilization meetings: 4 - Ongoing Projects: Water project; anti-poaching; land tenure - Human Wildlife Conflict (HWC): 16 reports elephant & livestock predations - Security Ops (KWS T1, T7 & SS):	
FORMAL FIELD CONSERVATION PARTNERS:		
(Full list of supporters/partners shown on last page)		
  	 	   

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 = 26 sightings
Super Tusker Bulls	3 individuals (7 sightings)
Emerging Tuskers (bulls)	7 individuals (18 sightings)
Iconic Cow Tuskers	1 individual (1 sighting)
Elephant Mortality	10: - 9 fresh (c of d: 9 natural – drought; 1 recent – natural)
Ivory Recovered	19 tusks (1 from ivory dealer, remainder from carcass recovery)
Elephant Treatment/Translocation	Nil
Wildlife Rescues (mainly venomous reptiles)	13: 1 baby elephant & 1 zebra foal (taken to SWT Voi); 1 elephant pulled from mud hole; 10 snakes: 2 Puff-adder; 3 Ashes spitting cobra; 2 Red spitting cobra; 1 African rock python; 1 Sand boa; 1 Small-scaled burrowing Asp
Rhino Aerial Patrol Support (KWS / ZSL / TT partnership)	7 rhino specific recces: 2,060km flown = 17.5hrs (5 TW & 2 TE)
HWC cases attended to	15 (39 elephants driven - community farms east of Mtito Andei, 1 lion conflict)
Arrests	40 (2 ivory dealers; 1 bushmeat poacher; 37 illegal cattle herders)
Wire Snares Recovered	42 (31 small, 11 medium)
Bush Meat Recovered (Kg)	68kg (3 Grants gazelle & 2 dried Dik-dik,)
Poachers Equip. Recovered	2 pangas; 2 bicycles; 2 lamping torches; 2 knives
Poachers' camps/Blinds	Nil
Night Ambushes set	7 (1 Tambarare; 5 Kulalu/Giriama/Shirango/Dakota/Voi River; 1 Mtito p/line
Response to Armed Situations	Nil
Foot patrols (km) Tembo Teams	952km foot patrols – 6 teams
Collared Elephant Observations	13 sighting record forms submitted to STE (joint KWS/TT teams)
High Value Wildlife Monitoring	Ongoing partner to KWS TCA Research (Hirola, Grevy's zebra, carnivores)
Firefighting cases	2 (Chyulu Hills NP)
Illegal Cattle Drive KWS Support	1 TWNP, Ziwani/Manda
Charcoal & Logging	Nil
Training	2 TT Officers Masters training; aircraft training; HWC community training; Maliasili – African Conservation Leadership Course
TT HQ Rainfall	12 mm. Total rainfall to date: 277mm



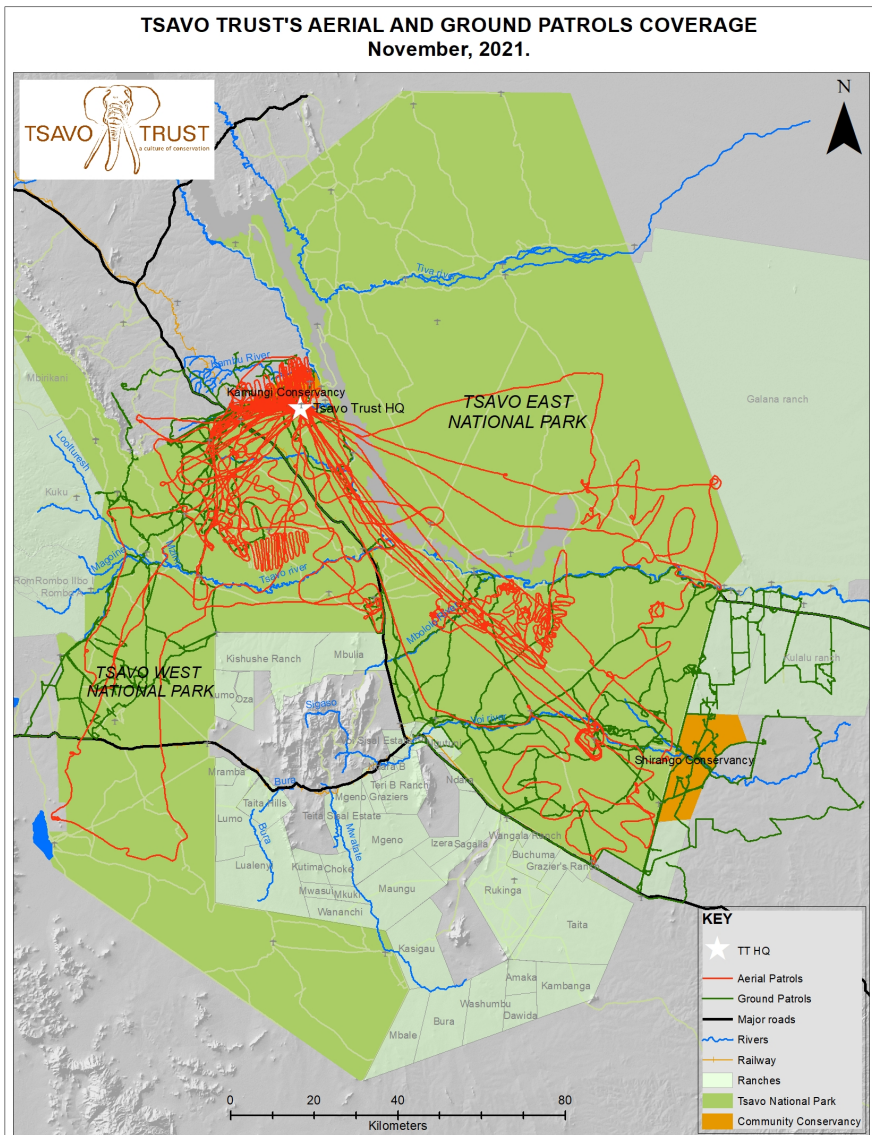
13th November 2021: Photo shows the desperate effects of the recent drought that hit many parts of Kenya, including Tsavo.

This poor giraffe died in a dried-out water hole in TWNP, just 2 weeks before the rains fell. Such is the harshness and reality of nature.



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 flight paths 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.



*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:** 50.5 hours flown covering 6,299 kilometers over Tsavo in support of KWS.*

***Ground:** 952 kilometers of foot patrol and a further 16,534 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.*



November 2021: Photo shows one of the Tsavo black rhinos having an evening nap. This population is heavily guarded by KWS in the NRS as well as those outside in the IPZ.

Tsavo Trust and partners Zoological Society of London (ZSL) play a significant role in supporting KWS within Tsavo's rhino ranges, as reliable partners.

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 recvd.	No. Snare recvd.	Bushme at recvd. Kg	Poacher equip. recvd.	No. Poacher camps	No. HWC Cases	Vehicle mileage km	Foot Patrol km
Tembo 1 (TENP) & Shirango Scouts (6 TT Scouts + 3 KWS Rangers)	30	-	2	7 1 small 6 medium	5kg 1 porcupine	1 bicycle	-	1 HCC Lioness killed 3 cows	2,925	223
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	30	-	2	19 19 small	-	-	-	14 HEC 39 elephants driven from farms at night by TT/KWS team	2,860	150
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	30	39 2 ivory dealers 37 illegal cattle herders	1	2 2 small	-	-	-	As above	2,982	238
Tembo 7 (Kulalu/TENP) 5 TT Scouts + 3 KWS Rangers	30	1 Bushmeat poacher	4	5 5 medium	63kg Dried: 3 Dik-dik 1 Grants gazelle	2 bicycle 2 lamping torches 2 pangas 2 knife	-	-	2,617	157
Kamungi Scouts 4 Scouts	30	-	-	9 9 small	-	-	-	-	-	184
TOTALS	150	40	9	42	68kg	As above	-	15	11,384	952
Total 2021	1,576	106	46	1,213	728kg	-	24	514	113,044	8,643

Monitoring & Evaluation teams:

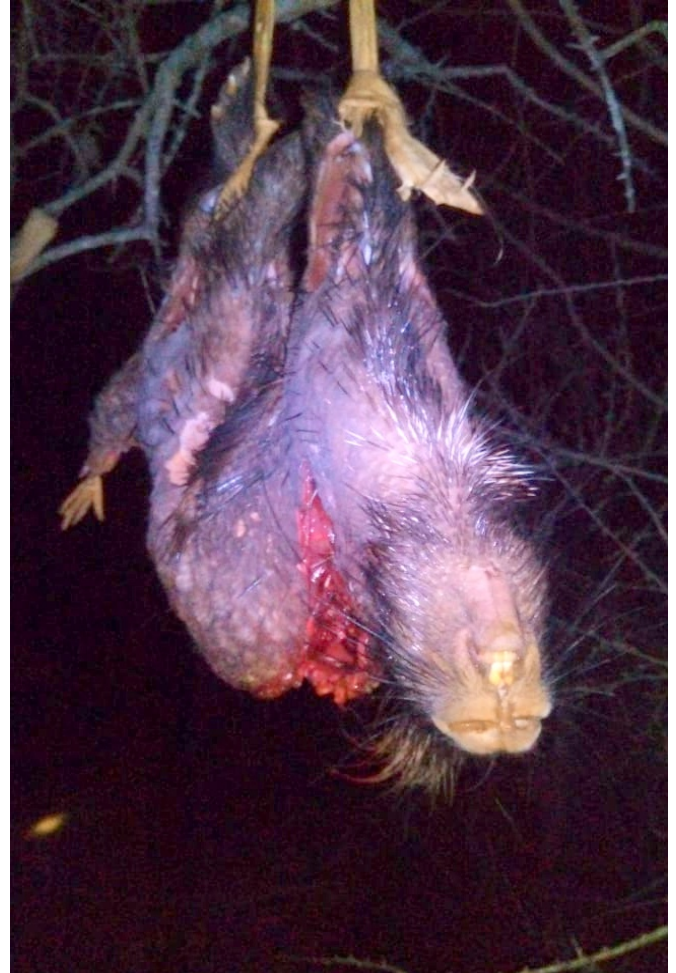
Table 8: Shows activities carried out by Tembo 2 & 4 teams – monitoring & evaluation:

Monitoring teams	No. Field days	Activities	Endangered species records / sightings	Operating locations	Vehicle mileage km
Tembo 2 (TENP) (2 TT staff + 2 KWS) 	24	-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 – 16 sighting -Hirola – 13 -Grevy's Zebra – 2 -Large Carnivores – 28 Ground Hornbill - 4 -Road & Rail kills – 1 -Elephant carcasses – 4 -Ivory recvd. – 8 -Rain gauge readings -Collared elephants – 4 Carnivore scat collect – 0	Tsavo East Nat. Park – mainly southern, central and eastern sections including Shirango Conservancy	3,356
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 – 23 -Tuskers - 0 -Large Carnivores – 7 -Collared elephants – nil -Elephant carcasses – 2 -NRS Rhino night census – n/a	Tsavo West Nat. Park – IPZ and Triangle	4,535
TOTALS	54	As above	As above	As above	7,891
Total 2020	588	-	-	-	78,175

Bushmeat poaching – November 2021:



Left: 23rd November 2021 – following an informer tip off, in an area outside of TENP, joint KWS/TT teams recovered 63kg dried bushmeat, consisting of: 1 Grants gazelle, 1 young lesser kudu, 12 Dikdiks. Various poaching equipment was recovered including small and medium sized snares, cooking equipment, 2 bicycle, 2 lamping torches etc. 1 arrest was also made.

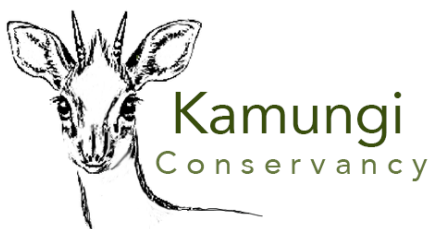


Above: 10th November 2021 – Giriama Ranch outside TENP. This unusual bushmeat recovery of a porcupine (with main quills removed) along with other poaching equipment (snares, 1 bicycle). It clearly demonstrates the desperation by communities in remote areas where livelihood options are very inadequate, if any at all, and so one of the few remaining options is illegal bushmeat poaching for subsistence to survive.

Note: By no means is all bushmeat poaching for subsistence, there are many cases of large-scale commercial poaching as well.



Right: 1st November 2021 – photo taken from inside a bushmeat poachers hide out, outside of TENP, Shirango, showing dried bushmeat hanging from branches inside the hideout.



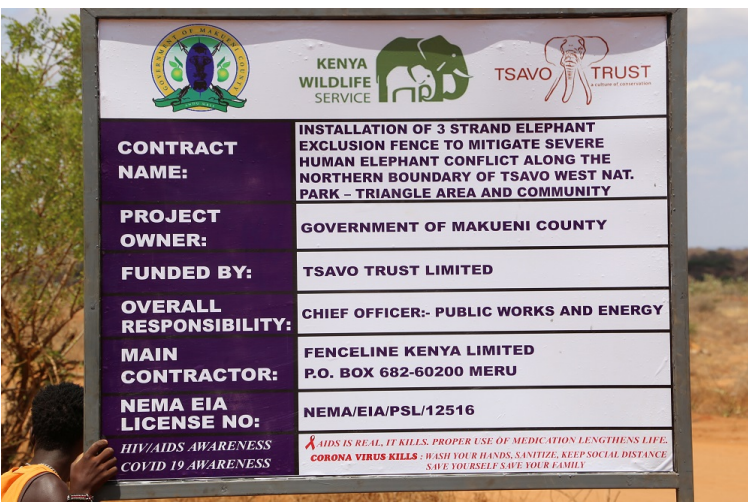
COMMUNITY CONSERVANCY PROGRAM:



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 & partners 36 permanent staff & 15 casual staff employed generating over \$10,000 (Ksh.1,000,000) of income into Kamungi monthly.	Tsavo Trust employs 14 staff from SCC including a Community Liaison Officer (CLO) to spear head activities. Salaries generate over \$2,500 (Ksh.250,000) of income monthly.
Community Mobilization and Sensitization Meetings	16 community meetings held ➤ Mtito Fence meeting: GMC, TT/Kamungi, KWS - HWC ➤ SAPA Process trainings & baraza's ➤ Makueni Dev. Trust ➤ Board Meeting ➤ VSLA's ➤ 10% Fence Planning meeting	4 community meetings held ➤ MCA & ACC's Bamba Office – various security issues ➤ General Community – drought etc ➤ Ndaraku youth meeting
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	123,186 litres of water issued. (881,237 litres for year to date) Piped water to Ngiluni school now	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	502 patients attended (3,164 for year to date).	There is need to support this project.
Constructions	Honey processing room under construction Scouts HQ & Office/store completed	Scouts HQ completed
Basic Education	Paid for 2 teachers (1-Ngiluni & 1-Kamunyu School in KC) for the last 9 years. Ongoing.	No activities yet.
Village Saving & Loan Associations – VSLA's	5 women run VSLA's are in progress: partnership between ZSL / KC & TT	None at present.
Poultry Project	3 poultry projects: partnership between ZSL / KC & TT	
Training	VSLA, HWC mitigation, SAPA	Scouts trained on GPS use & data collection
HWC Mitigation	7 x 1-acre bee fences, total 105 beehives with 12 currently occupied.	N/A yet
Elephant Bee Fence	10% fence plan completed Phase 2 completed: Total 12 plots (HWC electric fencing of 10% of individual land).	N/A yet
10% Fence Plan	7 predator proof bomas set up: by TT/ZSL	N/A yet
Mtito 30km fence line	13/9/21: Started – Completed 30/11/21	N/A yet
Human Wildlife Conflict (HWC)	76 cases recorded: 66 elephant; 6 lion; 4 poisonous snake	16 cases recorded: 4 elephant; 4 lion; 4 hyena, 2 Cheetah; 2 honey badger
Land Tenure	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	Nil	None
Operations and Security	➤ See Field Units table above	➤ See Field Units table above



Above: Nov2021: Photo shows members of Government of Makueni, KWS Officers, Kamungi Conservancy staff, Tsavo Trust staff and local community members during a Human Elephant Conflict fence mitigation project meeting with all the above partners. The 30-kilometer fence has been funded by Tsavo Trust and was completed on 30th November 2021.



Left: Public sign along the Mtito Andei to Ngiluni road clearing showing the wide partnerships involved in this much needed project. The fence was completed just as the rains started to fall and this mitigation project will certainly help in up grading the livelihood potentials by assisting the local community members to become more food resilient and self-reliant as they can harvest crops that were previously destroyed by elephants.

At least 7,000 community members stand to benefit from this project.

Below: Photo shows the 2 strands of wire, 5 foot off the ground (allowing passage of livestock underneath) and the 3rd wire is the earth, set underground. This fence configuration is a tried and tested HEC mitigation system that has worked well.



Unusual Photo of the Month:



*14th November 2021: photo shows a rarely seen Striped hyaena (*Hyaena hyaena*) in TENP. What is unusual about this photo is that it was taken during the late morning and normally by this time, these nocturnal creatures are deep in their burrows or dark caves. They are not uncommon, just not commonly viewed at close range given their shyness.*

With sincere thanks and appreciation:

Organizations: Kenya Wildlife Service; USAID/DOI; US Fish & Wildlife Service; The Oak Foundation; Leopardess Foundation; JM Foundation Africa; Cheyenne Mountain Zoo; Save The Elephants (STE); Global Wildlife Conservation (GWC); Tusk Trust; Rhino Recovery Fund (WCN); International Elephant Foundation (IEF); Disney/Wildlife Conservation Society (WCS); IUCN Save Our Species; Zoological Society of London (ZSL); Georg Waechter Memorial Foundation; Maliasili; EU-Biopama Programme; The Glassybaby Foundation; 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; Off Piste Africa; Empowers Africa; Enos Enterprises–Tembo Wine; 51 degrees-Vulcan; Conservation Alpha; JW Seagon Insurance; 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; Paul Block; Anita Mishra & Paolo Mapelli; James Lewin; the late John Fletcher; Paul & James Wilson; James Chiappa; David Calderone; Will Burrard-Lucas; Drew Doggett photography; Goh & Courtney Iromoto; the Kiddingtons; Marie de Brouwer; Renzo Bernardi; Kim Makenzi; Howard Saunders; Sandor Carter; Sean Dundas; Karen Laurence-Rowe; John Carr; Max Haller; Anthony Cheffings; Andreas Fox; Paolo Parazzi; Sam Stogdale; Prints for Conservation; Johan Marais; Chris Acreman; Alex Hunter and numerous other enthusiasts.

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

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