

MONTHLY REPORT:

DECEMBER 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	53 (708 for year) Average 111km p/h of low-level flight	5,586 (78,043km for year) Flights carried out jointly with KWS staff
 Rhino specific flights	15 (255 for year)	1,718 (28,754km for year)
	Field Patrol Days	Kilometers Covered
Ground Activities (Joint KWS / TT)	Protection teams: 93 days (1,158 to date) Monitoring teams: 32 days (552 to date)	Vehicle patrols: 4,818km (67,136km to date) Foot patrols: 533km (7,739km to date) Monitoring teams: 4,544km (64,986km to date)
 Big “Tuskers” observed	5 Tuskers - 2 Super Tusker bulls, 3 emerging bulls, Nil cow Tuskers = 10 individual observations	
Ivory recovered	Nil elephant tusks (43 for year)	
Elephant mortality	Fresh (less than 3 weeks old)	Recent (less than 3 months old)
	Nil – (c of d:)	Nil (c of d:)
Poacher camps/hides	Fresh - 4	Recent – Nil
Arrests	3 – by KWS / TT – 1 elephant & 2 bushmeat poachers 25 for year to date Bushmeat recvd: 27kg (1,477kg for year to date)	
Snares/traps recovered	41 by Tembo Teams: 524 snares to date 2020 (385 small; 114 medium, 25 large)	
Support to KWS-armed incidents	Nil	
Illegal Livestock (only in PA)	2 live cattle bomas (1,000 cows+, 100 shoats) Only 1 livestock flight	
Written reports to KWS	54 (daily Situation reports, various communications & 1 monthly report)	
General & significant notes	- Serious HEC east of Mtito and within Kamungi 30/12/20: TT staff member tragically killed by a rogue elephant 16/12/20: Opening of Kamungi Water Project Phase 2. Funded by Cheyenne Mtn Zoo 22/12/20: Donation of 1 new Toyota Land Cruiser, 1 tractor & 2 trailers to KWS TWNP specific for rhino protection in IPZ. Funding support from WCN/RRF	
COMMUNITY CONSERVANCY PROGRAM:		
Kamungi Conservancy North boundary TWNP 	<u>Employment</u> (through T/Trust): 30 permanent, 20 temporaries <u>Membership</u>: 1,400 people - Community Mobilization meetings: 6 - Ongoing Projects: Water project; 10% fence plan; VSLA’s; feeding program; HEC-Mtito fence planning - Human Wildlife Conflict (HWC): 39 reports, mainly crop raiding elephants, leopard issues - Wildlife Counts: Nil sample transect counts - Security Ops: 1 snare recvd., other equip. recvd.	
Shirango Conservancy South East boundary TENP 	<u>Employment</u> (through T/Trust): 11 permanents <u>Membership</u>: 2,300 people - Community Mobilization meetings: 4 - Ongoing Projects: Water project; anti-poaching; land tenure - Human Wildlife Conflict (HWC): 9 reports all livestock predations - Wildlife Counts: 15th December 2020: Annual Aerial Total Count - Security Ops: T1 team: 2 arrests (bushmeat); 2 snares recvd; 4 poacher camps; 27kg bushmeat	
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	



22nd December 2020, photo shows Tsavo Trust donation to KWS TWNP of 1 new Toyota Land Cruiser, 1 x 55hp 4x4 tractor and 2 trailers to enhance rhino security within the vital IPZ area. This generous support was made available from Wildlife Conservation Network / Rhino Recovery Fund. Tsavo Trust has partnered with KWS and ZSL for the last 7 years in support of rhino conservation activities in TWNP.

WILDLIFE CONSERVATION PROGRAM:



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

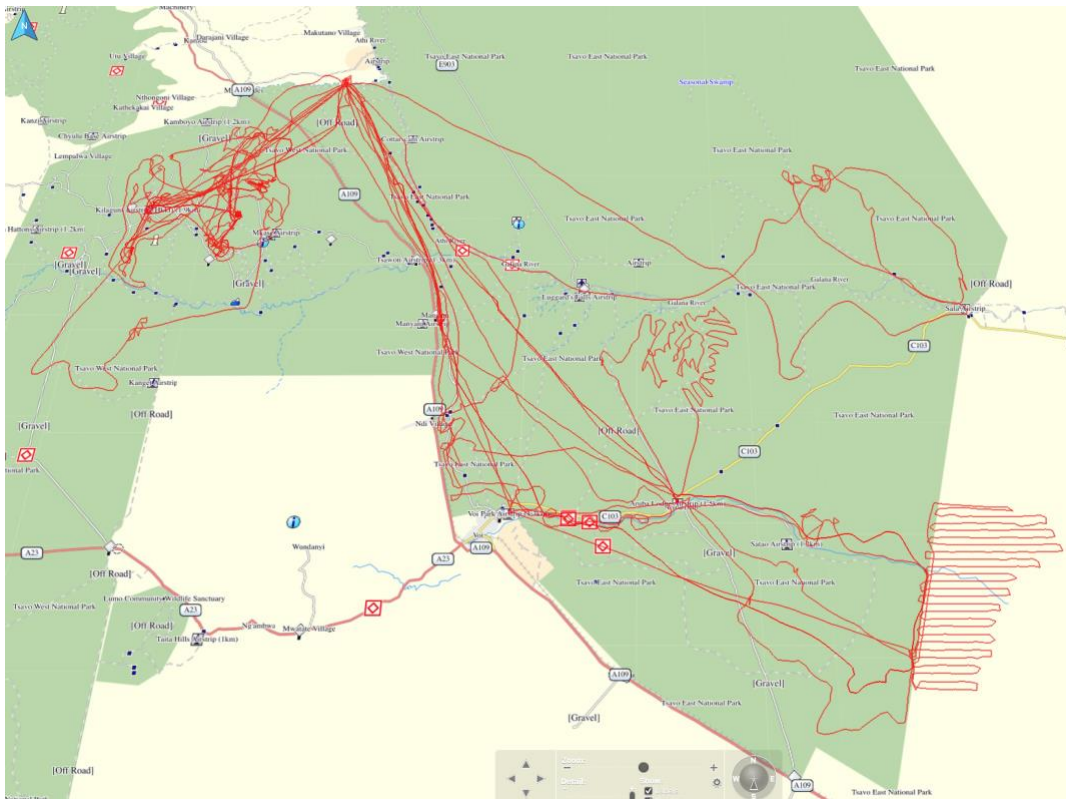
Table 1: Summary of Big Tusker Project (BTP)

Activity / Detail	Number & Brief Remarks
BTP individual Tusker sightings	Total = 10 sightings – TT monthly record
Super Tusker Bulls	2 individuals (6 sightings)
Emerging Tuskers (bulls)	3 individuals (4 sightings)
Iconic Cow Tuskers	Nil individuals (Nil sighting)
Elephant Mortality	Nil: Nil fresh; Nil old (c of d)
Ivory Recovered	Nil tusks 43 for 2020 (from found elephant carcasses)
Elephant Treatment	Nil
Wildlife Rescues	Nil
Rhino Aerial Patrol Support (KWS / ZSL / TT partnership)	5 rhino specific reces: 1,718km flown = 15hrs (4 TW & 1 TE)
HWC cases attended to	16 (1 human fatality; 1 human air evacuation to medical help)
Arrests	3 (1 suspected elephant poacher & 2 bushmeat poachers)
Wire Snares Recovered	41 (5 medium, 35 small, 1 large)
Bush Meat Recovered (Kg)	27kg (1 giraffe skin, 1 dried ostrich, part lesser kudu dried)
Poachers Equip. Recovered	5 spotlights, 3 lamping horn, 3 pangas, 1 bicycle, 1 knives, cooking equip
Poachers camps/Blinds	4 active
Night Ambushes set	3 (1 TW Mangaleta, 1 Ndaraku)
Response to Armed Situations	Nil
Foot patrols (km) Tembo Teams	533km foot patrols – 3 teams
Collared Elephant Observations	7 forms submitted to STE (joint KWS/TT teams)
High Value Wildlife Monitoring	Ongoing partner to KWS TCA Research (Hirola, Grevy’s zebra, carnivores etc)
Firefighting cases	Nil
Illegal Cattle Drive KWS Support	Nil
Charcoal & Logging	Nil
Training	2 TT Officers Masters training; Pangolin Training; HWC community training
TT HQ Rainfall	130mm . Total rainfall to date: 836mm (highest recorded in last 12 years)



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.

53 hours flown covering 5,586 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 a new Toyota Land Cruiser donated to KWS TWNP to boost and compliment the rhino security details within the TW IPZ. This area represents Kenya's best location for significant rhino growth over the coming years with 3,000km² of ideal rhino habitat available. We are very happy to play a part in this important conservation process by enhancing KWS's position.

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.	Bushme at 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)	31	3 1 elephant poacher suspect 2 bushmeat poachers	-	2 1 medium 1 small	27kg Giraffe skin, dried ostrich meat, part dried lesser kudu	5 spotlights, 3 pangas, 3 lamping horns, 1 bicycle, cooking equip	4 active	1 cow killed by lion	2,674	152
Tembo 3 (TWNP) (6 TT Scouts + 3 KWS Rangers)	31	2 Bushmeat poachers	-	38 33 small 4 medium 1 large	-	3 spotlights, 1 lamping horn, 2 knives, 1 file	-	10 1 TT employee killed by elephant TT CEO wife knocked down by elephant Drove elephants from farms 8 times	2,144	157
Tembo 5 (TWNP) 6 TT Scouts + 3 KWS Rangers	Shortly to be re deployed to field	-	-	-	-	-	-	-	-	-
Kamungi Scouts 4 Scouts	31	-	-	1 1 small	-	-	-	4 Drove elephants from farmlands	-	224
TOTALS	93	3	2	41	27	As above	4	14	4,818	533
Total 2020	1,158	25	16	524	1,477kg	-	14	32	67,136	7,739

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)	1 Annual Leave	-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 – 1 sighting -Hirola – 1 -Grevy's Zebra – Nil -Large Carnivores – Nil -Road & Rail kills – Nil -Elephant carcasses – Nil -Ivory recvd. – Nil -Rain gauge readings -Collared elephants – Nil Carnivore scat collect – 0	Tsavo East Nat. Park – mainly southern, central and eastern sections including Shirango Conservancy	359
Tembo 4 (TWNP) (2 TT staff + 2 KWS) 	31	-RHINO monitoring – TW IPZ -Camera trap surveys - rhino -Big Tusker monitoring -Large Carnivore monitoring -Collared elephant reporting	-IPZ Rhinos – Nil -Tuskers - Nil -Large Carnivores – 2 -Collared elephants – Nil -Elephant carcasses – Nil -NRS Rhino night census – n/a	Tsavo West Nat. Park – IPZ	4,185
TOTALS	32	As above	As above	As above	4,544
Total 2020	552	-	-	-	64,986

Table 9 and graph below: Shows a summary of Tsavo Trusts field activities and findings over the last 8 years, from 1st January 2013 (our operational start date) to end December 2020. It is very clear to see that Illegal Wildlife Trade activities have decreased very significantly over these years, especially elephant and rhino poaching. Tsavo Trust is delighted to have contributed towards this positive trend by assisting Kenya Wildlife Service and complimenting their successes alongside other Tsavo stakeholders.

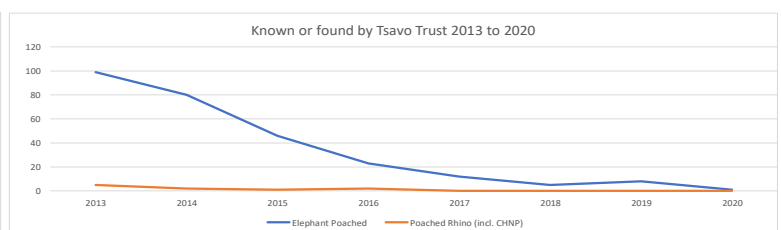
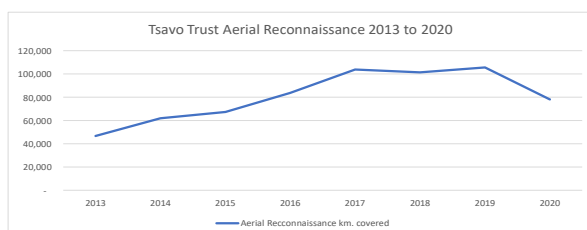


Tsavo Trust Field Activities Summary - Aerial and Ground Operations 2013 to 2020

	2013	2014	2015	2016	2017	2018	2019	2020	Total
Aerial Reconnaissance km. covered	46,685	61,931	67,377	83,831	103,777	101,262	105,716	78,043	648,621
Aerial Reconnaissance hours flown	383	515	567	691	867	863	927	708	5,521
Super Cub aircraft	1	1	1	1	2	2	2	2	
Ground Protection Teams	0	1	3	3	3	4	4	3	
Ground Monitoring Teams	0	1	1	1	2	2	2	2	
Ground Protection Teams - Patrol Days	-	152	109	120	677	860	1,037	1,158	4,113
Ground Protection Teams - Distance	-	13,272	7,458	7,665	81,166	87,513	113,955	67,136	378,165
Ground Monitoring Teams - Patrol Days	81	243	294	326	359	455	545	552	2,855
Ground Monitoring Teams - Distance	9,123	28,608	29,932	37,623	57,070	63,570	72,007	64,986	362,919
Individual Super Tusker Bulls	11	12	10	10	10	8	8	10	79
Individual Emerging Tusker Bulls	6	11	18	16	18	20	27	33	149
Individual Cows Tuskers	4	5	7	7	7	5	6	6	47
Big Tusker sightings - Bulls	52	215	475	174	150	365	335	317	2,083
Big Tusker sightings - Cows	9	12	97	51	73	27	24	39	332
Total Big Tusker Sightings	61	227	572	225	223	392	359	356	2,415
Ave Tusker sighting per day	0.17	0.6	0.6	0.6	0.6	1.1	1.0	1.0	
Tuskers lost - bulls	3	4	3	2	6	2	2	2	24
Tuskers lost - cows	0	1	-	1	3	1	-	-	6
Ivory Recovered	31	34	18	97	241	129	66	43	659
Rhino horn recovered	-	-	-	-	-	-	2	2	4
Elephant carcasses - Fresh	36	78	45	64	110	17	30	15	395
Elephant carcasses - Recent	39	28	10	19	52	46	15	8	217
Elephant carcasses - Total	75	106	55	83	162	63	45	23	612
Hours flown per carcass located	5.11	4.86	10.31	8.33	5.35	13.70	20.60	30.78	9.75
Poachers camps/hides - Fresh	43	24	5	9	27	20	12	13	153
Poachers camps/hides - Recent	8	15	11	12	16	3	14	1	80
Arrests	29	47	276	153	101	42	67	25	740
Bushmeat Recovered	98	150	352	450	426	99	417	1,477	3,469
Snares recovered	155	283	149	1,043	1,008	841	644	524	4,647
Responses to armed incidents	12	17	11	3	7	-	-	-	50
Cattle bomas	126	391	288	481	627	210	167	49	2,339
Cows	117,500	209,500	181,000	219,000	244,590	125,260	120,350	18,170	1,235,370
Shoats	65,000	72,500	68,000	90,500	88,000	51,100	13,300	5,250	453,650
Camels and donkeys	1,100	800	1,200	900	1,764	1,500	-	2	7,266
People	181	215	203	281	1,113	316	267	47	2,623
Charcoal kilns	139	212	229	89	27	18	19	15	748
Written reports to KWS	113	236	373	453	514	689	841	562	3,781

Poached Elephant and Rhino numbers (only those known or found by Tsavo Trust - not official KWS figures)

	2013	2014	2015	2016	2017	2018	2019	2020	Total
Elephant Poached	99	80	46	23	12	5	8	1	274
Poached Rhino (incl. CHNP)	5	2	1	2	-	-	-	-	10
Elephant - Gun shot	63	51	27	11	5	2	2	-	161
Elephant - Poisoned arrow	36	29	19	12	7	3	6	-	112
Elephant - Cable snare	6	4	2	0	2	-	-	-	14
Rhino - Gun shot	5	2	0	2	-	-	-	-	9
Rhino - Poisoned arrow	0	0	0	0	-	-	-	-	0
Rhino - Cable snare	0	0	1	0	-	-	-	-	1



16th December 2020 shows the official opening of Kamungi Conservancy Water Project (Phase 2). Mtito Andei location Chief, Kamungi Chairman and Tsavo Trust CEO in foreground. This important project, bringing water on tap to local communities is an important development and one that has changed the lives of many for the better. Sincere thanks must go to Cheyenne Mountain Zoo and the Kratt Family that made this possible.



15th December 2020, Shirango Community Conservancy Board Meeting took place following social distancing guidelines and in the open air. A basic Shirango Conservancy HQ has recently been constructed in this location on the southern boundary of TENP.

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	➤ 6 community meetings held ➤ 16/12/20: Water Project opened ➤ Serious community unrest HEC meetings took place in late Dec20 following Kamungi member being killed by an elephant. Nightly crop raiding has taken place following the good rains.	➤ 4 community meetings held ➤ 15/12/20: Board 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	4,021 litres of water issued.	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	253 patients attended (3,216 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 completed
Feeding Program due to COVID-19	16/12/20: 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 8 years. This is ongoing.	No activities as yet.
VSLA – Savings Groups	Village savings & loan groups are in progress – partnership between ZSL / KC & TT	None at present.
Training	None	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)	39 cases recorded: 29 elephant cases; 6 Leopard; 1 snake, 3 zebra	9 cases recorded: 3 hyenas; 2 Cheetah; 1 lion; 4 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	None	Annual aerial census due to take place.
Operations and Security	➤ Arrests: Nil ➤ Snares / traps / bushmeat: 1 snare ➤ Equip. recvd.: Nil ➤ Elephant carcass / Ivory: Nil ➤ Night ambushes: Nil ➤ HEC: 4; Charles Mutisya killed by elephant on 30/12/20 ➤ Foot patrols: 224km	➤ Arrests: 3 (1 elephant, 2 b/meat poachers) ➤ Snares & traps recvd.: 2 ➤ Equip. recvd.: 5 spotlights, 3 horns, 2 pangas, 1 bicycle, 1 knife, cooking equip ➤ Elephant carcass / Ivory: Nil ➤ Night ambushes: 1 ➤ Poachers camps: 4 ➤ Foot patrols: 152km
Tembo 1 Team = T1		
Tembo 3 Team = T3		
Kamungi Scouts = KS		
Shirango Scouts = SS		

Unusual Photo of the Month:



Aerial photo taken by Tsavo Trust pilot – Nick Haller of a southern ground hornbill (Bucorvus leadbeateri) having just caught his lunch in TENP on 12th December 2020.

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; Off Piste 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 Jebsen; 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; David Calderones; 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

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