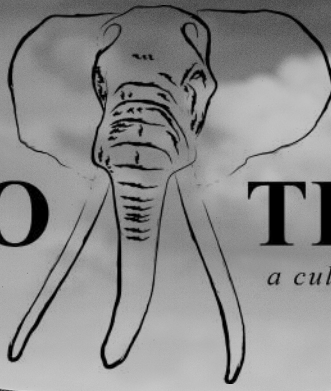


*The*  
**TSAVO TRUST**  
*a culture of conservation*



2021 Annual Report

## Introduction from the CEO

For Tsavo Trust, 2021 has been a key year.

The Tsavo Trust team has grown organically over the last 9 years from 3 permanent employees in January 2013 to 68 by the end of 2021. We have taken on more qualified senior staff with a middle management team evolving. Our operating budget has grown 9-fold. The field vehicle fleet from 1 to 14, we have a fully-fledged vehicle workshop to mention a very few comparisons. And we continue to grow.

The varying work programs that Tsavo Trust carries out, daily, has become vitally important to the Tsavo ecosystem and although the Tsavo Trust foundations are strong it has become clear there is need for a formalized and all-inclusive plan looking ahead with long term succession embedded reflecting a clear focus on the Trust's vision into the future. I am very happy to say that much time and effort has been invested during 2021 in our new Tsavo Trust 2022 to 2027 Strategic Plan that will be launched by mid 2022. This has been an immensely valuable process both in paving the way forward but also by bringing in all levels of staff to have their say in better shaping and guiding what is fast becoming a key and trusted Tsavo ecosystem conservation body. This plan was generously funded by USAid / DOI with the Maliasili team leading the process.

Wildlife Conservation Program: Support to our major partner, Kenya Wildlife Service (KWS), through logistical assistance, vehicle donations, infrastructure support - ranger outposts, aerial patrols, ground patrols (biodiversity protection and monitoring), sand dams and more amounted to USS589,216. Old Chyulu Gate in Tsavo West NP has been totally refurbished and can now comfortably house a section of 10 KWS rangers is just one example. Construction of sand dams for wildlife remains a key Tsavo Trust activity with another 2 in 2021 in Tsavo West. Monitoring of the big Tuskers continues passionately with 389 individual observations during the year (averaging 1.1 per day). 9 Super Tuskers, 27 emerging Tuskers and 5 iconic cow Tuskers remain as at year end. Sorrowfully, the well-loved Il Talal and Wide Satao did die of natural causes and all ivory recovered.

During 2021 there were no known rhino poached in Tsavo and elephant poaching has been reduced to near nothing.

Community Conservancy Program - Kamungi Conservancy: Mitigating Human Elephant Conflict (HEC) has been a key activity. By end of November a 32-kilometer HEC fence, funded by Tsavo Trust, was completed through a 4-way partnership between Tsavo Trust / County Government of Makueni / Kamungi Conservancy / KWS that runs eastwards from Mtito Andei town to Kamunyu Village. During 2021 the joint TT/KWS HEC teams chased out 1,693 elephants from small-scale farmlands bordering the park, an average of 4.5 every night! By December this conflict had been mitigated by 95% giving several thousand people a chance to grow crops without conflict.

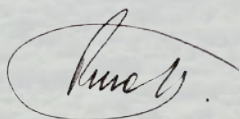
Shirango Conservancy: Tsavo Trust has continued to play a "behind the scenes" role to assist the communities in Shirango to acquire stronger and more robust land tenure. This is an ongoing process, and it does take time. I am happy to report there is progress and over the coming months this will be enhanced significantly. Shirango Scouts continue to make a strong impact in tackling the illegal bushmeat activities in this area.

Makueni Development Trust (MADET): Tsavo Trust was chosen to support and help operationalize MADET with seed funding from USAid through the Aga Khan Foundation (EA) – Yetu Initiative. This is an important development project for Makueni County in supporting this new Local Development Organisation.

Conservation Partnership Program: Tsavo Trust continues to bring more and more interest and support to Tsavo through this strategic program. In 2021, just to mention some: Lion Recovery Fund / WCN; Maliasili; Ker & Downey Safaris; Off Piste Africa and more. There are so many conservation and like-minded people that have been enticed by Tsavo's wilderness, but I would need a few more pages to mention and thank you all.

If 2021 is anything to go by in Tsavo Trust's progression path, I cannot wait for 2022.

A sincere thank you to the Tsavo Trust Board of Directors, the Kenya Wildlife Service and to all our friends and conservation partners. None of what we do could possibly be achieved without this collective relationship.



Richard Moller  
Chief Executive Officer – Tsavo Trust



## **Contents:**

<b>Introduction from the CEO</b>	<b>1</b>
<b>A word from the Chairman</b>	<b>3</b>
<b>Executive Summary</b>	<b>5</b>
<b>2021 Summary</b>	<b>7 - 8</b>
<b>Wildlife conservation Programs</b>	<b>11 - 18</b>
<b>Community Conservation Programs</b>	<b>19 - 24</b>
<b>Sand Dams in Tsavo</b>	<b>25</b>
<b>Finances &amp; Support</b>	<b>29 - 31</b>
<b>Thanks &amp; Appreciation</b>	<b>33 - 34</b>

## A word from the Chairman

The year has flown by despite the Covid 19 pandemic seeming to slow things down. Despite this we have continued enthusiastically with our three main programs, the Wildlife Conservation program; Community Conservancy Program and Conservation Partnerships Programs.

Our partnership with the Kenya Wildlife Service, in many varying roles, continues to strengthen and we thank KWS for their continued access as a partner in our numerous projects from biodiversity protection to high value species monitoring. We were selected by KWS to act as the implementing partner for the CITES (MIKE) Program, funded by the European Union through United Nations Environmental Program that rolls out just under US\$1,000,000 into the Tsavo West NP southern area with vehicles, water bowser, equipment, ranger housing construction, patrol boat for Lake Jipe, training needs and much more. This shows the depth of the commitment and cements the strong and longstanding relationship between Tsavo Trust and KWS.

The “Big Tusker Program” continues as one of our main focuses in monitoring key species across Tsavo. Sadly, two Super Tuskers were lost in 2021, IL Talal and Wide Satao, both to natural deaths thankfully. On another bright note, elephant poaching remains virtually non-existent but bushmeat poaching is still a major concern. Tsavo Trust continues to energetically support KWS with their Tsavo rhino programs and other high value species such as Hirola.

Construction of a new vehicle workshop at the Tsavo Trust HQ has reduced our repair costs considerably with the 14 vehicles, 2 tractors and other machinery registered to Tsavo Trust, now having all services and repairs carried out onsite. We deployed the Tembo 7 team (wildlife protection) in Kulalu Ranch and southern Tsavo East NP, in support of KWS in March 2021. Since then, this team, led by KWS, made 29 bushmeat poacher arrests and recovered 619kg of bushmeat. Tsavo Trust played a vital role in Tsavo during the Kenya National Wildlife Census in June 2021. Our aerial unit conducted 56 hours of flight covering 6,781 kilometers in 6 days.

In continuation of our community-based focus in Human Elephant Conflict interventions, Tsavo Trust partnered with the County Government of Makueni, Kamungi Conservancy and KWS in the construction of a 32-kilometer HEC fence line costing \$130,000 stretching from Mtito Andei town eastwards to Kamunyu Village in Kamungi Conservancy. This resulted in developing strong ties with the County, strengthened our relationship with KWS and helping local communities to become more resilient and self-reliant by mitigating what was constant crop raiding elephants. There were several other community development initiatives in Kamungi. With Shirango Community Conservancy, engagement and stewardship continues, but at a lesser level, and only once the land tenure issues there are solved, that is when meaningful development will take shape. We will certainly keep trying hard to help the people of Shirango. By continuing to impact the community positively we have in our employment some 68 permanent staff in the year ending December 2021. In additional, we engage temporary staff from local communities depending on the projects that are ongoing.

To help in securing the future for Tsavo we have completed our 5 Year Strategic Planning process with our partners USAid / DOI and Maliasili. The final product will be published in mid 2022.

As always it is with immense thanks to our generous donors locally and abroad for their trust in Tsavo Trust and we are pleased that further partnerships have been realised. The future of Tsavo looks promising with the fast-evolving team at Tsavo Trust as well as the support we anticipate receiving from our partners and like-minded individuals.



Nzioki wa Makau  
Chairman of the Board



## Executive Summary

Tsavo Trust was founded in December 2012 with the aim of protecting the small gene pool of Super Tusker Elephants, and their existing and viable breeding grounds in the Tsavo Conservation Area. This founding ambition evolved into the Big Tusker Project today, with additions of programs on community conservation and development, and support to KWS, ensuring the ecosystem at large is also able to thrive and prosper safely as a result.

Headquartered in the Kamungi Conservancy, which borders Tsavo West National Park (TWNP), we are a team of professionals from the world of conservation and wildlife management in Kenya and have an excellent understanding of the challenges that the TCA faces.

### Tsavo Trust's Track Record

Super Tusker elephants were thought to have been exterminated from the Tsavo landscape. These extraordinary African elephants carry ivory which weigh an incredible 100 lbs or more on each side. Often, their tusks are so long they reach right down to the ground and wear away on the base of the curve as a result. However, after sightings of a single Super Tusker in the early 2010s, significant aerial monitoring and surveillance, along with extensive ground patrols revealed that 14 similar creatures existed in the ecosystem.

Tsavo Trust was founded with the aim to protect this final gene pool from the relentless threat of poaching, and to give the Super Tuskers a right to life in the wild. These giants continue to inspire our work today.

Our founding ambition to help them still exists in the form of our Big Tusker Project, under the Wildlife Conservation Program – and, by monitoring and protecting them, the ecosystem at large is also able to thrive and prosper safely as a result.

Over the years Tsavo Trust has formed a strong and trusted relationship with the Kenya Wildlife Service (KWS) and all activities within the protected area are governed by a formal Memorandum of Understanding between Tsavo Trust and KWS. All Tsavo Trust aerial and ground monitoring and protection patrols are carried out with KWS personnel who take the lead role.

In 2015 Tsavo Trust initiated the Community Conservancy Program, where Tsavo Trust acts as a steward and catalyst in establishing self-governing community-led wildlife conservancies. Two key communities fall under this program: the Kamungi Conservancy (with the WaKamba people – 1,500 members) bordering onto the northern boundary of Tsavo West NP and Shirango Community Conservancy (with the Watha and Giriama people – 2,300 members) who border onto the southern boundary of Tsavo East NP. Both these conservancies are located in arid and marginalized areas, and the people here are in desperate need of meaningful interventions that can help address issues such as poverty, water shortage, healthcare, Human Wildlife Conflict (HWC), unemployment, food insecurity and insecure land tenure. Although the land barely supports these marginalized communities, it provides the basis of many rural livelihoods. Additionally, it provides crucial habitat to a wide range of wildlife – in particular elephants – well-adapted to survival in this dry bushland and acts as a buffer between the formal parks and more densely populated areas to the south and east, allowing space for seasonally ranging wildlife.

Over the last 7 years Tsavo Trust has made significant investment into these two communities including employment (over 65% of its employees come from these communities), water projects (drilling of boreholes), HWC mitigation, educational support, health care support and much more. Both conservancies are members of the Kenya Wildlife Conservancies Association and form vital buffers to the Protected Area.

Tsavo Trust's impact to date is clear. Alongside its partners in the TCA Tsavo Trust has played a vital role in Reducing poaching of black rhino by 100% (nil rhino poached since 2016) and elephant poaching has decreased by at least 80% in the TCA. Bushmeat poaching still remains a significant challenge that Tsavo Trust and its partners are trying to address daily.

## **Vision**

**Thriving biodiversity, sustainable livelihoods, and strong partnerships in the greater Tsavo ecosystem.**

## **Mission**

**To safeguard biodiversity and empower communities in the greater Tsavo ecosystem.**



# 2021 Summary

## Wildlife Conservation Program:



**3** Fixed wing aircraft  
**86,129** Kilometers covered  
**781** Hours flown



**389** Tusker observations  
**82** Elephant Tusks recovered



**0** Rhino poached



**120** Arrests  
**1,233** Snares recovered



**25** Poacher camps destroyed





**68 Permanent staff**



**8 Mobile patrol teams**

**1,720 Anti-poaching patrol days**

**643 Field monitoring patrol days**



**11 4x4 vehicles**

**139,694 Anti poaching patrol kilometers**

**85,384 Field Monitoring patrol kilometers**



**813 Written reports to KWS**



**Kamungi  
Conservancy**



## **Community Conservancy Program**

- . Both registered Community based organisations (CBO).**
- . Both members of Kenya Wildlife Conservancies Association (KWCA).**
- . Through the Conservancy model protective buffers onto the National park have been created and with this these communities are increasingly benefiting from the conservancy model.**

**We understand the need for community engagement and project ownership to unfold through the Conservancy model, instilling a culture of conservation and develop reliance for the future.**







## What is special about Tsavo...

It's Big - Greater Tsavo Conservation Area - 42,000 km<sup>2</sup>

National Parks - 22,000 km<sup>2</sup>

Dispersal Areas - 20,000 km<sup>2</sup>

Approximately the size of Switzerland

Comprises 49% of Kenya's Protected Areas

Vast and varied wilderness habitats that provide huge potential for further wildlife growth - **a rare natural resource in today's world of diminishing wild space.**

Immense Biodiversity

Holds Kenya's largest single elephant population; 14,964 elephants.

Home the unique **Iconic Super Tuskers.**

Holds Kenya's largest black rhino population - at least 18%.

Home to several high value and endangered species.

Home to the Big 5.



## Aerial Unit



Tsavo Trust's Aerial Unit currently operates three aircraft (2 SuperCubs & 1 Ralley Minerva). The Super Cub is an ideal aircraft for bush flying required on aerial reconnaissance over the largely road-less Tsavo. Slow, and low level flight allows for effective reconnaissance by both the pilot and a rear seat observer.

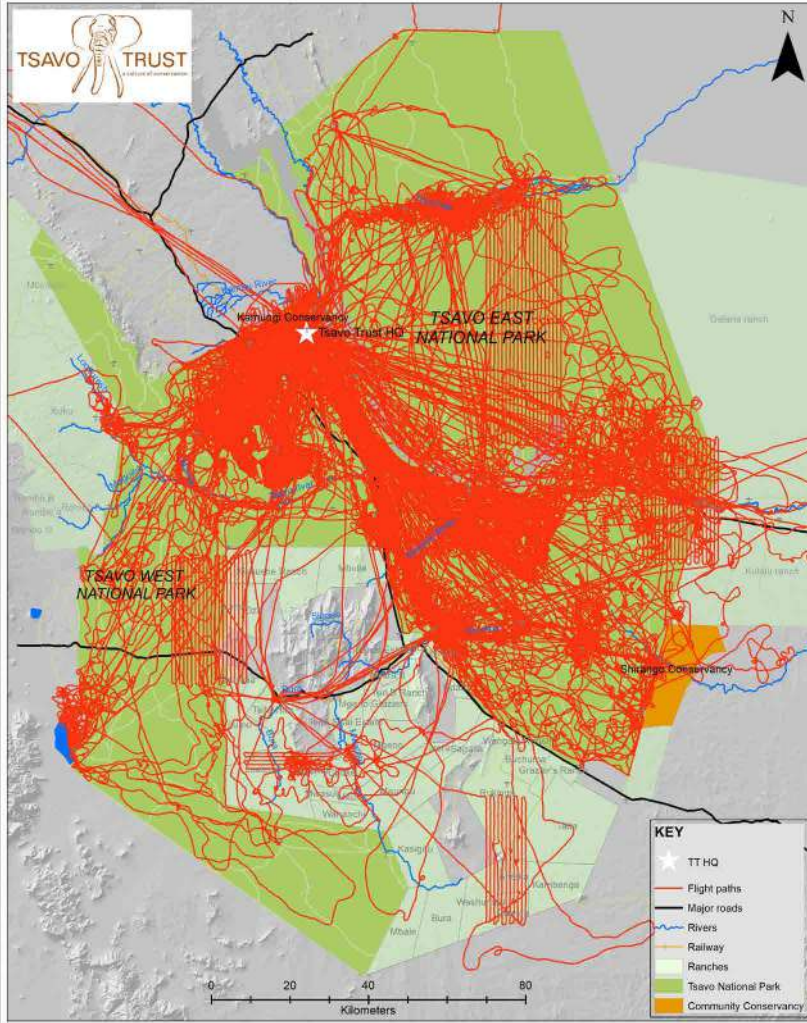
Tsavo Trust has two experienced bush pilots trained, capable, and permitted to fly these aircrafts on aerial reconnaissance flights, in support of KWS, achieving meaningful and measured results in the fight against wildlife and habitat crime. A third pilot, Joseph Kyalo (Tsavo Trust's Conservation Officer) recently completed pilot training, and has taken to the skies over Tsavo.

A key aspect of aerial reconnaissance is the ongoing battle facing conservationists (Tsavo Trust, KWS and other partners) and the multitude of illegal activities such as ivory poachers, bushmeat poachers, illegal livestock encroachment and Human Wildlife Conflict (HWC) that haunt Tsavo's wildlife daily. The Illegal Wildlife Trade (IWT) remains a multi-million-dollar industry and there appears to be no end to this worrying trend.

Through aerial reconnaissance, Tsavo Trust alongside KWS has been able to map poachers' movements as well as monitoring poaching camps and identified "hot spot" zones that require constant attention. Other illegal activities are also closely observed and addressed as necessary. For example, between 2013 and 2021, 860 arrests have been made in Tsavo following illegal activities by joint KWS / Tsavo Trust activities. The use of our Super Cub aircraft was vital in allowing ground units to make these arrests. Aerial reconnaissance and monitoring remain THE most important conservation tool over the wilderness of Tsavo.



**TSAVO TRUST'S AERIAL PATROLS COVERAGE**  
January to December, 2021.



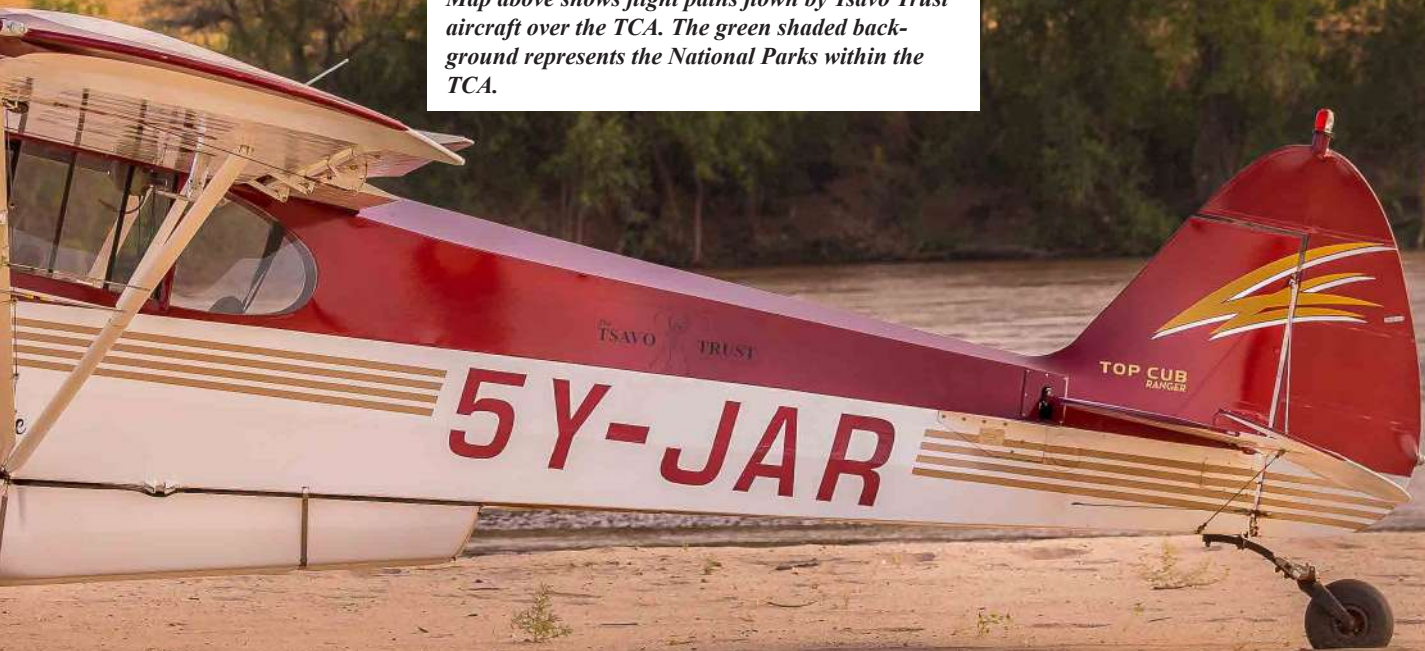
## Aerial Census

During 2021 Tsavo Trust took part in Kenya's first National wildlife census. The nation-wide project was funded by the Kenyan Government and it's intent is to build a greater, more comprehensive picture of the state of this country's wildlife. Census teams were asked to count every animal that they observed.

## What we did?

The Tsavo Trust contributed 1 fixed wing aircraft, a pilot and an observer as well as 2000l of Avgas to support the wildlife census project. Over the 8 days, this small team of Tsavo Trust flew 5,492km and during 43 hours in the air.

*Map above shows flight paths flown by Tsavo Trust aircraft over the TCA. The green shaded background represents the National Parks within the TCA.*







## BIG TUSKER PROJECT



Working in close collaboration with KWS and alongside research and conservation partners including Save The Elephants, Tsavo Trust monitors the elephant populations of Tsavo, with a specific emphasis on the large ‘Tuskers’.

The term “Big Tusker” refers to an elephant with tusks so large they scrape the floor. Unfortunately, the opportunities for witnessing a big tusker in its natural habitat are slim. As of today, there are approximately 25 individuals left in the world, most of which reside in the Tsavo Conservation Area. It is vital that we make every effort to protect what is arguably the last viable gene pool of “Big Tuskers” remaining.

Alongside KWS, TT and partners, we are faced with the momentous task of trying to protect these “Big Tuskers” from the ever-present threat of poaching and habitat loss, whilst also allowing them the freedom to roam in the vastness of Tsavo that is so integral to the life of an elephant. Tsavo is famous for its “Big Tuskers”. The presence of these majestic animals brings significant revenue through tourism to the Park every year and that income is vital to further conservation efforts and supporting local communities.

### **Super Tusker observations**

**Tusker sightings (Bulls): 356**

**Iconic Cow Tuskers: 33**

**Average sighting per day :1.1**

### **Elephant mortalities**

**(Tsavo Trust figures)**

**Natural: 41**

**Unknown:3**

**HEC:1**

**Poached: 6**



#### **A note to two lost Giants:**

Sadly during 2021 Tsavo lost two of her iconic Super Tusker elephants. Both Wide Satao and IL Talal died of natural causes. As difficult as it was, both elephants were old bulls who lived and enjoyed a full life and both would have certainly passed on many of their big tusker genes. We take great solace they died naturally and their ivory was recovered and did not fall into the wrong hands. They will be missed greatly by our team here in Tsavo and by many who had the pleasure of witnessing Wide Satao and IL Talal. Kwaheri.

# RHINO SUPPORT

Tsavo Trust partners with KWS and Zoological Society of London (ZSL), where KWS take the lead role, in specific rhino conservation activities in TWNP. This *Key 1* rhino population requires significant support from partners. Aerial patrols and logistical support are some of the varying activities that take place in this joint program.

During 2021 Tsavo Trust rhino related flights totaled to 92 hours covering 27,432 kilometers over the Ngulia Rhino Sanctuary (NRS) and Intensive Protection Zones (IPZ). Throughout 2021 nil rhino were poached in both the Tsavo East and Tsavo West NP. As a combined team we are proud of the successes we have had over the last 8 years in supporting KWS to achieve this rhino conservation success story.

## Rhino Viewing Platform

In an effort to support “rhino conservation activities” in TWNP rhino, Tsavo Trust has partnered with KWS by establishing a unique “Rhino Viewing Platform” at one of the main waterholes within the NRS. The aim being to offer visitors a rare and exclusive opportunity to view rhino close up with the backdrop of the prehistoric-looking Ngulia cliffs.

The Rhino Viewing Platform is small (6m x 6m), raised 10ft off the ground, private and has basic amenities. The Platform was completed in November and preparations are underway to welcome visitors. This new initiative offers a unique experience on an exclusive basis. In one night, one can observe as many as 30 different black rhinos’ coming in to drink, and a multitude of other wildlife including elephants, and the other Big 5 and Small 5 members. A truly incredible experience.

Tsavo Trust looks forward to working alongside KWS, over the next years to welcome guests to the platform and generate funding that can be ploughed directly back into black rhino conservation.





**RHINO MONITORING SUMMARY:**

**Rhino Specific Flights: 27,432km**

**NRS/IPZ rhino observations: 913**

**Hours Flown: 92**

**Rhino Poached: 0**

# High Value Species Monitoring

*Wildlife Monitoring in the Tsavo Conservation Area.*

During 2021 Tsavo Trust Tembo 2 and Tembo 4 mobile teams continued to provide a reliable platform to support the KWS Research and Monitoring departments in TENP and TWNP respectively. These teams add value where there is very limited support to KWS in the field. Some, but not all of the key activities and high value species monitoring includes:

1. Big Tusker monitoring
2. Rhino monitoring
3. Large predator monitoring
4. Predator scat collection and analysis
5. Hirola monitoring
6. Grevy Zebra monitoring
7. Regular road kill surveys along paved highways
8. Endangered raptor monitoring
9. Ground hornbill monitoring
10. Fixed point photography
11. Invasive plant mapping and so much more .....

## Hirola Monitoring Program

Regular monitoring, data collection, and analysis of the Tsavo's Hirola population

Tsavo Trust in collaboration with KWS National Hirola Recovery Plan continue to carry out regular Hirola monitoring to provide data on population demographics. The Hirola in Tsavo are seasonally breeding well, but signs are that few calves are reaching adulthood and so the population stagnates at approximately 60 to 70 individuals.

Monitoring includes collection and analysis of carnivore scat found in ranges in and around Hirola territories. A preliminary predator scat analysis has been carried out by KWS / Tsavo Trust and is still ongoing to give some indications as there seems to be a possible predation issue that is hindering Hirola population growth.

The Tsavo Hirola project is an ongoing collaboration between KWS (who take the lead role) and Tsavo Trust as a field support partner.





# Community Conservancy Program

Tsavo Trust has played a stewardship role, over the last 8 years, by establishing two significant community-based conservation initiatives that border onto the formal protected areas of TENP and TWNP. Kamungi Conservancy (with the WaKamba people) bordering onto the northern boundary of TWNP and Shirango Community Conservancy (with the Watha and Giriama people) who border onto the southern boundary of TENP. Both conservancies have created a vital conservation buffer to the protected areas and at the same time these marginalised communities have enjoyed many and varying benefits derived from the conservancy model.

**The Kamungi and Shirango Community Conservancies fall under one of three programmes of work for the Tsavo Trust, the Community Conservancy Program that provides a stewardship role in:**

Developing and stewarding self-governing, community-led wildlife conservancies in specific key areas within the TCA, including the fostering of partnerships with other organisations already working in support of wildlife, habitats and communities in the Tsavo ecosystem. Through this we endeavor to create secure buffers bordering the formal Protected Areas whilst generating economic opportunities for marginalized communities in their journey to self-reliance.

**Under this program, Tsavo Trust seeks to address some vital issues:**

Improved livelihoods to reduce poverty; search for revenue streams; safety and well-being of vulnerable communities; creating a culture for conservation; reduce illegal wildlife crime – poaching for bushmeat and ivory, snaring etc.; Human Wildlife Conflict mitigation; and encourage community project ownership.

**Some achievements so far:**



**Kamungi Conservancy (7 year partnership)**

- 1,500 individual members
- Registered Community Based Organisation (CBO) and members of the Kenya Wildlife Conservancy Association (KWCA).
- Employment, 36 permanent and 15 casuals staff.
- Kamungi Water Project - borehole water providing water directly to the Ngiluni Dispensary, Ngiluni Primary School and members of Kamungi.
- Human Wildlife Conflict - Construction of 9 x 1 acre Beehive fences 12 10% fence plans
- HWC fence - 32 kilometer fence line between Mito Andei east to the Athi river.
- Development of a Management plan (5-years 2018 to 2022)
- Permaculture Project - providing subsistence food for members of Kamungi.
- Completed the Social Assessment of Protected and Conserved Areas initiative in December 2021.





## Shirango Community Conservancy (4-year partnership)

- 2,300 individual members
- Registered as a CBO and member of the KWCA
- Employment – 13 permanent staff
- Shirango Water Project – borehole water providing water for subsistence use.
- Social Economic Survey 2020 – gathering baseline - information for the development of a Management Plan.
- 170 HWC incidents reported in 2021.
- Shirango Scouts – providing biodiversity protection in the area as well as HWC support.
- Annual Wildlife and Illegal Activities Aerial Census – conducted by Tsavo Trust.
- Relief Food Distribution 2021 – to ease the challenges of Covid-19 and reduce the pressure on the natural resources.



## Social Assessment of Protected and Conserved Areas Initiative:

Tsavo Trust has played a key stewardship role in the development of the Kamungi Conservancy since 2014, delivering benefits derived from the Conservancy Model. The Social Assessment of Protected and Conserved Areas (SAPA) initiative is a participatory process following FPIC standards to assess positive and negative social impacts of Protected Areas on target communities living within and around it, and to understand perceptions of well-being.

This initiative was carried out by Tsavo Trust in the Kamungi Conservancy between June and December 2021 and built trust with the Kamungi community. A baseline of community perceptions for future Monitoring and Evaluation was established to assess success of community programmes, but more importantly to inform the development of community engagement programmes moving forward, designed with the community themselves.

During this process 4 stakeholder workshops were held with representation from National Government, County Government (Environment, Water, Healthcare, Education etc.), Communities, Local Administration, KWS, ZSL and more. Tsavo Trust will continue to work with these stakeholders to implement the SAPA Action Plan in 2022. This plan will be developed in early 2022 to help inform community intervention strategies and ensure that Tsavo Trust and its stakeholders are contributing to human wellbeing and financial resilience within Kamungi.





# Human Wildlife Conflict figures

Tsavo Trust's field teams, Community Liason Officers (CLOs), HQ operations and administrative staff keep close records of all Human Wildlife Conflicts (HWC) related incidents in the Kamungi and Shirango Community Conservancies.

786 (598 in Kamungi and 170 in Shirango) incidents were reported in 2021. The Tsavo Trust anti-poaching teams played an active role in HWC mitigation, especially at night during the rainy season. The Kamungi Scouts and their vehicle were regularly called by farmers to chase elephants from their crops along the northern TWNP boundary.

Tsavo Trust through its partnership with Bio-Ken Snake Farm and James Ashe Anti-Venom Trust, employs a fully trained snake handler with the objective of cataching venomus snakes in the Kamungi area, to relocate them from human areas to the saftey of the Tsavo parks. Venoums snake bite is regarded as one of the main HWC incidents throughout this area.

## HWC Incidents Recorded in 2021



**Human Elephant Conflict = 501**  
(307 - 2020)



**Lion Conflict = 80**  
(18 - 2020)



**Leopard Conflict = 21**  
(77 - 2020)



**Hyena Conflict = 97**  
(46 - 2020)



**Snake incidents = 68**  
(Kamungi Conservancy)



# Human Elephant Conflict in the Kamungi Conservancy

Members of Kamungi and the surrounding villages that border onto the northern boundary of TWNP have experienced major and sustained threats to their livelihoods as a result of HWC, and especially from crop raiding elephants. The most recent Human Elephant Conflict (HEC) human fatality occurred within Kamungi as recently as 31st December 2020. In 2021, a total of 1,693 elephants have been chased out of the small scale farmlands within Kamungi Conservancy and surrounding environs by Tsavo Trust's anti-poaching teams and TCA partners as a HWC mitigation method. 598 HWC incidents have been recorded by the Tsavo Trust community office, of which 500 were threats from elephants. Tsavo Trust, alongside the local communities have been working towards the construction of a tried and tested HEC electric fence line between Mtito Andei town eastwards to the Athi river for several years now and formal approvals have taken a long time to come through. Thankfully this process was completed in August 2021 and all legal documents and endorsement from the Makueni County Government and Local Administration were granted.

Construction of the fence line started in September 2021 and was completed in early November 2021. This 3-strand 32-kilometer HEC fence is set 5-foot above ground (allowing free movement for all other wildlife, livestock and humans underneath). The fence has separated elephants from the local communities, except those living within the designated "Wildlife Friendly Zone", bordering TWNP. This fence has improved food security and human wellbeing in at least 7 villages and small-scale farms, benefiting over 7,500 people. Although the fence line is still in its early stages of completion, communities are reporting a major drop in HEC and improved perception towards wildlife conservation. In December 2021, a total of 14 elephants were chased out of community land, this compares to the 113 elephants in September prior to the construction of the fence.



# Sand Dams

## The Sand Dam Concept

A Sand Dam is essentially a reinforced stone wall built across a seasonal sandy riverbed, generally on top of a stone bedrock. Water behind the sand dam raises the water table and is held within the collected sand that in turn acts as a sponge and holds water for long dry periods with no loss to evaporation.

The sand dam concept is a well-known, tried and tested method of providing small but consistent amounts of water through a seepage system on the downside of the dam wall. This is ideal in arid areas and it does not create the “desertification effect” that is often associated with sinking of bore holes in PA’s where elephant numbers are high. Upstream from the dam wall is filled with river sand when the seasonal riverbed flows during the rainy season. This sand filled dam acts as the sponge to hold significant water supplies that are then drip fed to wildlife.

Sand dams have been used to great effect in dry arid regions for both humans and livestock and now through this project there is no reason why wildlife cannot reap the same benefits within wildlife conservation areas. Water supply and distribution for wildlife in the Tsavo’s has always been a huge challenge to address, particularly during the dry season due to erratic rain patterns and the sandy soils that cannot hold water for extended periods, unless they are well captured within water courses, such as through the sand dam idea. The sand dam plan could well be one answer to this problem, by construction several well designed and distributed sand dams over the coming years within the TCA.

In an effort to mitigate the effects of diminishing water sources for wildlife, Tsavo Trust, in partnership with KWS, Africa Sand Dam Foundation and Sand Dams Worldwide have constructed a total of 6 sand dams for wildlife in Tsavo East (2) and Tsavo West (4) NPs. A concept has been developed by this joint team to roll out 25 sand dams over a 5 year period. Following the December rains in 2021 all 6 sand dams were filled with water, providing water for wildlife for at least 2 months after the rains subsided this duration of water storage will grow with time as the sand dams fill with sand.





## **Tsavo Trust HQ**

**Tsavo Trust HQ is field based situated within the Kamungi Conservancy on the northern boundary of Tsavo West National Park - Triangle Area.**

**Tsavo Trust's field operations within the TCA is governed by a Memorandum of Understanding with KWS.**

**Tsavo Trust HQ facilities include:**

**Modern Offices**

**Operations Hub with Digital radio network linked to EarthRanger**

**Field Airstrip with 3 hangers**

**Field Accommodation**

**Aerial and ground monitoring units**

**Fully equipped vehicle workshop**

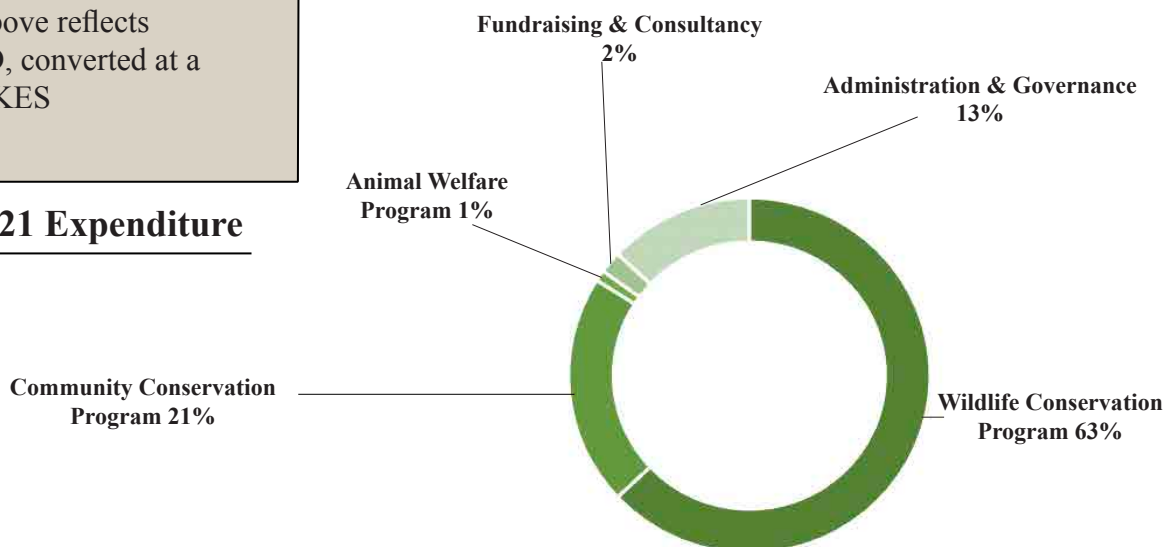
# SUMMARY OF FINANCES

Tsavo Trust relies on donations and grants to run our programs. As a registered non-profit company in Kenya we operate under strict financial controls with transparent financial operations. All donations restricted for specific operations are used 100% on intended projects.

<b>Statement of Revenue and Expenses</b>	<b>Audited</b>	<b>Audited</b>
<b>Revenue (US\$)</b>	<b>2021</b>	<b>2020</b>
Donations & Grants	1,356,788	1,316,054
Other Operating income	170	
<b>Total Revenue</b>	<b>1,356,957</b>	<b>1,316,054</b>
<b>Expenses</b>		
Project Expenses	1,291,969	1,118,313
Administration, Fundraising and Governance	228,987	95,146
<b>Total Expenses</b>	<b>1,520,956</b>	<b>1,213,459</b>
<b>Surplus / (Deficit) for the year</b>	<b>163,999</b>	<b>102,596</b>

Audited accounts are presented in KES, the table above reflects Accounts in USD, converted at a rate of \$1 = 113 KES

## Analysis for 2021 Expenditure





# How to support

Tsavo Trust's efforts to protect the wilderness and biodiversity of Tsavo are only possible thanks to the generosity, passion and dedication of many donor supporters and collaborative partners.

Tsavo Trust is fortunate to have a diverse network of supporters, from local communities living in the Tsavo Conservation Area, Kenyan and foreign Government agencies, international foundations, corporations, and many individuals. Tsavo Trust are extremely grateful for this varied support base, in which each and every supporter plays a key part in helping Tsavo Trust achieve its vision.

If you would like to be part of our cause, all support is very much appreciated. Various methods of donating are outlined here.

## Global Donations

Local and International direct bank transfer in USD or KES  
**(Please contact [info@tsavotrust.org](mailto:info@tsavotrust.org) for more info)**

Online donations Via GivenGain, details and link via [tsavotrust.org](http://tsavotrust.org)

## Donate in the USA

501(c)3 channel, Online donations (GivenGain)

**For tax deductible donations please contact us directly at [Info@tsavotrust.org](mailto:Info@tsavotrust.org) where several options can be given.**

## Donate in the UK (Gift Aid Available)

Gift Aid Channel, Online donations (Just Giving or Given Gain) and Bank Transfer. Tsavo Trust partners with Tusk Trust UK to provide a fundraising platform for Tsavo Trust programs. Tusk Trust is a registered UK Charity (no.803118). when making a donation to Tsavo Trust Via Tusk UK we kindly request you to clearly state your contribution is for Tsavo Trust. This will ensure your donation is swiftly and efficiently routed to Tsavo Trust. If you would like your donation to go towards a Particular Tsavo Trust Program, please also state this clearly. If not, Tsavo Trust will use these funds for projects that are most urgent at the time.

## Donate in Kenya

Cheque; Bank Transfer; Mpesa Paybill no. 4037127; and Online donations via GivenGain  
Cheques from Kenyan banks in Kenya shillings or US made out to Tsavo Trust can be mailed to:

**Tsavo Trust  
P.O BOX 204, Mtito Andei  
90128, Kenya East Africa**





Other support or collaboration inquiries please contact us to discuss how to support Tsavo Trust, or for further information on conservation and community development partnerships;

**[info@tsavotrust.org](mailto:info@tsavotrust.org)**

## **With thanks and appreciation to our Supporters and Partners**

Tsavo Trust sincerely thanks and appreciates the following supporters and partners.

### **Kenyan Government Organisations**

The Government of Kenya  
Kenya Wildlife Service  
Makueni County Government  
Kilifi County Government

### **Foundations**

Leopardess Foundation  
JM Foundation Africa  
Save the Elephants  
Wildlife Conservation Network  
Rhino Recovery Fund  
Lion Recovery Fund  
Elephant Crisis Fund  
The Oak Foundation  
Cheyenne Mountain Zoo  
International Elephant Foundation  
Re:wild  
Chesbro Foundation  
Glassybaby Foundation  
Zoological Society of London  
Tusk Trust  
Tofauti Foundation  
Exodus Travels Foundation  
Disney Conservation Fund  
Wildlife Conservation Society  
Georg Waechter Memorial Foundation  
Elephant Cooperation  
Ndovu Trust  
Askari Project  
Lewa Canada  
TUI Care Foundation  
IFAW  
BIOPAMA Rapid Response  
IUCN Save Our Species  
CITES MIKE Program - UNEP  
Milkywire  
Darwin Project  
UKAM

### **Foreign Government Organisations**

USAID / DOI  
US Fish and Wildlife Service

### **Conservation Partners**

Kenya Wildlife Service  
Kamungi Conservancy  
Shirango Community Conservancy  
Zoological Society of London  
Save the Elephants  
Kenya Wildlife Conservancies Association  
Wildlife Works  
Conservation Alpha  
James Ashe Anti-Venom Trust  
Excellent Development  
Africa Sand Dam Foundation  
Masai Wilderness Conservation Trust  
Maliasili

### **Individuals**

Alex Graham	Paolo Mapelli
Anita Mishra	Paolo Parazzi
Andreas Fox	Paul Ireland
Chris Acreman	Paul Wilson
Clare Taylor	Prabha Sarangi
Connor Clairmont	Sam Stogdale
David Calderone	Sandor Carter
Dr. Lucy King	Stuart Herd
Drew Doggett	The Davies Family
Elizabeth Ireland	The Kratt Family
Gregory Stone	Valerie Ireland
Griet Van Malderen	<b>.... and many other</b>
H. Laviale	<b>generous individuals</b>
Jay Ireland	
James Chiappa	
John Carr	
James Robertson	
James Lewin	
Kim McKenzie	
Luca Belpietro	
Mike Kirkland	
Nicole Honegger	
Nick Lapham	
Nick Powell	
Nick Southgate	

## Corporations

Satao Camp  
Southern Cross Safaris  
Origins Safari  
Ker and Downey Safaris  
Tropical Ice

Spidertracks  
Esri Eastern Africa  
Insiders Africa  
Off Piste Africa  
51 Degrees

JW Seagon Insurance  
Empowers Africa  
Microsoft



With sincere thanks to our main strategic partner, the **Kenya Wildlife Service**.

I am also deeply grateful to the Tsavo Trust **Board of Trustees** for all their support, guidance and their free time that they have given over what has been an exciting and rewarding 2021.



Report compiled by Richard Moller, Nick Haller and Alia Haller  
Photographs Copy Right Tsavo Trust  
Photography with special thanks to Griet Van Malderen, James Lewin,  
Will Burrad-Lucas, Nick Haller, Robin Moore and Richard Moller.



[tsavotrust.org](http://tsavotrust.org)



tsavotrust



tsavo trust