

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

## **APRIL 2022 MONTHLY REPORT**



13<sup>th</sup> April 2022, photo (Nick Haller) shows a very healthy TWNP Cow rhino "Manyonge" with her calf.

| WILDLIFE CONSERVATION PROGRAM: <i>Big Tusker Project – Aerial &amp; Ground Activities</i>                    |   |   |
|--|---|---|
| Activity   | Hours Flown   | Kilometers Covered  |
|  <b>Aerial Unit</b>          | <b>70</b> (211 for year)<br>Average 115km p/h of low-level flight   | <b>8,053</b> (24,394km for year)<br>Flights carried out jointly with KWS staff  |
|  <b>Rhino Aerial Patrols</b> | <b>Aerial Patrols: 17.5</b> (6 TWNP; 1 TENP)<br>(69hrs for year to date)  | <b>Aerial: 2,181</b> (7,999km for year)   |
| Field Patrol Days  |   | Kilometers Covered  |
| <b>Ground Protection Activities</b><br>(Joint with KWS / TT & Community Scouts)                              | <b>Protection teams: 150 days</b> (554 to date)<br><b>Monitoring teams: 53 days</b> (221 to date)   | <b>Vehicle patrols: 9,736km</b> (37,366km to date)<br><b>Foot patrols: 1,063km</b> (3,552km to date)<br><b>Monitoring teams: 6,382km</b> (29,621km to date) |
|  <b>Big Tusker Project</b>   | <b>9</b> Tuskers - 2 Super Tusker bulls (3 sights), 7 emerging bulls (24 sights), Nil cow Tusker (Nil sights): <b>27 individual observations</b>  |   |
| <b>Collared Elephant Sightings:</b><br><i>Joint KWS/STE/TT program</i>                                       | <b>13 sightings:</b> record forms submitted to STE (aerial and ground observations)   |   |
| <b>Ivory recovered</b>   | <b>2</b> elephant tusks ( <b>14</b> for year to date)   |   |
| <b>Elephant mortality</b>  | <b>Fresh: 1</b> (c of d: 1 natural)<br>(Less than 3 weeks old)  | <b>Recent: Nil</b> (c of d: nil natural)<br>(Less than 3 months old)  |
| <b>High Value Species Monitoring</b>   | Ongoing partner with KWS TCA Research under WRTI: Monitoring Hirola, Grevy's zebra, large carnivores, Road Kill Surveys, Southern Ground Hornbill etc   |   |
| <b>Wildlife - Treatment &amp; Translocation</b>  | <b>Venomous snakes re-located from communities:</b> 3 Red spitting cobras; 2 Puff adder.  |   |
|  | <b>Others:</b> Nil  |   |
| <b>Poacher camps/hides</b>   | <b>Fresh – 1</b> (6 to date)  | <b>Recent – Nil</b> (1 to date)   |
| <b>Arrests – joint KWS/TT</b>  | <b>6</b> – 2 illegal herders; 4 trespassing (construction of a house inside park boundary)<br><b>(26 for year to date)</b>  |   |
| <b>Snares/traps recovered</b>  | <b>69</b> by Tembo Teams: <b>201</b> snares to date 2022 (164 small; 26 medium, 11 large)   |   |
| <b>Bushmeat recoveries</b><br>(wet & dried)  | <b>49kg</b> (485kg for year to date)<br>1 L/Kudu; 1 Dik-dik   |   |
| <b>Poachers Equip. Recvd.</b>  | 1 lamping horn; 1 panga; 1 knife; cooking equip.  |   |
| <b>Night Ambushes</b>  | Joint KWS / TT: <b>4</b> (1 Kilifi dam; 1 Ndara; 1 Maktau; 1 Manda)   |   |
| <b>Firefighting</b>  | Nil   |   |
| <b>Human Elephant Conflict</b>   | Joint TT-KWS team: <b>3</b> elephants driven from farmlands east of Mtito Andei<br><b>(3 elephants pushed from farms - Apr2022 compared to 181 in Apr21 = 98% reduction following TT fence)</b>   |   |
| <b>Illegal Livestock (only in PA)</b>  | <b>11</b> active cattle bomas (4,774 cows; 800 shoats; Nil donkey; 40 people)   |   |
| <b>Written reports to KWS</b>  | <b>63</b> (daily Situation reports, various communications & 1 monthly report)  |   |
| <b>TT Staff Training activities</b>  | <b>2</b> TT Officers Masters training; aircraft pilot training; <b>2</b> KWS Officer GIS training; HWC community training; Maliasili – African Conservation Leadership Course   |   |
| <b>TT HQ Rainfall figures</b>  | <b>58mm.</b> Total rainfall to date for 2022: <b>75mm</b>   |   |
| <b>Significant notes</b>   | <ul style="list-style-type: none"> <li>Makueni Development Trust (MADET): Since January 2022 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 a key development project for Makueni County.</li> <li>5 needy students were selected as beneficiaries of Tsavo Trust's secondary education bursary scheme. The selection criteria was developed by Kamungi Conservancy members through their board. The Tsavo Trust Team and local primary school headmasters were involved in the selection process.</li> </ul> |   |

**COMMUNITY CONSERVANCY PROGRAM:**

|   |   |
|---|---|
|  <b>Kamungi Conservancy</b><br>➤ Located: Northern boundary TWNP<br>➤ TT has played a stewardship role and partnered with KC since 2014 |  <b>Shirango Community Conservancy</b><br>➤ Located: Southeast boundary TENP<br>➤ TT has played a stewardship role and partnered with SCC since 2016 |
|---|---|

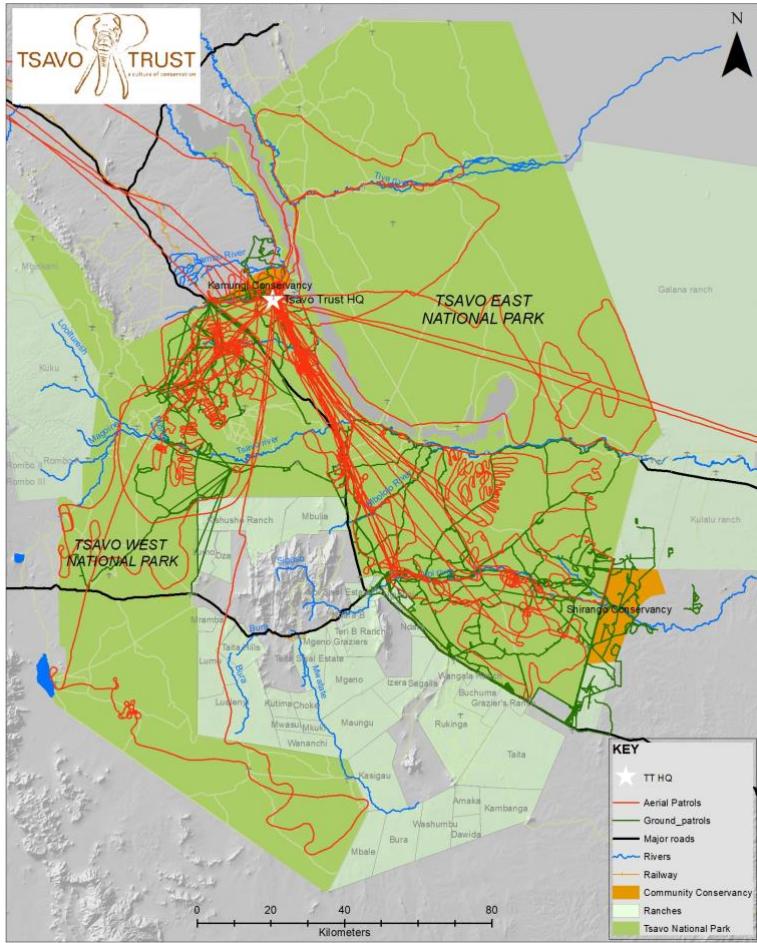
| FORMAL FIELD CONSERVATION PARTNERS PROGRAM: (Full list of supporters/partners shown on last page)                           |   |   |   |   |   |  |   |
|---|---|---|---|---|---|--|---|
|  <b>KENYA WILDLIFE SERVICE</b>            |  <b>ZSL</b><br>LET'S WORK FOR WILDLIFE |  <b>SAVE THE ELEPHANTS</b><br>拯救大象 |  <b>MAASAI WILDERNESS CONSERVATION TRUST</b> |  <b>Maliasili</b><br>INVESTING IN PEOPLE FOR NATURE |  <b>SHIRANGO COMMUNITY CONSERVANCY</b> |  <b>Kamungi Conservancy</b> |  <b>SHIRANGO COMMUNITY CONSERVANCY</b> |
|  <b>Excellent</b>   Pioneers of Sand Dams |   |   |   |   |   |  |   |
|   |   |   |   |   |   |  |   |



## 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.

TSAVO TRUST'S AERIAL AND GROUND PATROLS COVERAGE  
APRIL, 2022.



**Right:** 13<sup>th</sup> April 2022: Photo shows 5 students selected as beneficiaries of Tsavo Trust's secondary education bursary scheme. The selection criteria was developed through a participatory approach by Kamungi Conservancy members and through their board.

**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 22,000km<sup>2</sup> (TENP, TWNP & CHNP) and then a further 20,000km<sup>2</sup> totaling 42,000km<sup>2</sup> to form the Tsavo Conservation Area (TCA).

**Aerial:** 70 hours flown covering 8,053 kilometers over Tsavo in support of KWS.

**Ground:** 1,063 kilometers of foot patrol and a further 16,118 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.



**Left:** 13<sup>th</sup> April 2022: Aerial photo shows two spotted hyena cooling off at Mbololo Sand dam B in TENP.

This sand dam was constructed under the partnership of Kenya Wildlife Service, Tsavo Trust, Excellent Development, and African Sand Dam Foundation generously funded through WCN/Disney support.

The sand dam concept is a tried and tested method of providing small but consistent amounts of water through a seepage system on the downside of the dam wall. They're ideal in arid areas and do not create the “desertification effects” associated with sinking of boreholes.



## 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 recv'd. | No. Snare recv'd.                          | Bushmeat recv'd. Kg     | Poacher equip. recv'd.                   | No. Poacher camps | No. HWC Cases   | Vehicle mileage km | Foot Patrol km |
|--|----------------|---|-------------------|--|-------------------------|--|-------------------|---|--------------------|----------------|
| <b>Tembo 1 (TENP) &amp; Shirango Scouts</b><br>(6 TT Scouts + 3 KWS Rangers) | 30             | 1<br>Illegal herder   | 2                 | 33<br>9 small<br>5 medium<br>9 large       | 45 kg<br>1 Lesser kudu  | -  | -                 | -   | 2,330              | 292            |
| <b>Tembo 3 (TWNP)</b><br>(6 TT Scouts + 3 KWS Rangers)                       | 30             | 4<br>Trespassing (construction of house inside park boundary) | -                 | 29<br>22 small<br>1 medium<br>6 bird traps | 4kg<br>Dik dik (snared) | Construction equipment                   | -                 | 3 HEC<br>3 elephants driven from farms at night by TT/KWS | 2,525              | 176            |
| <b>Tembo 5 (TWNP)</b><br>6 TT Scouts + 3 KWS Rangers                         | 30             | -   | -                 | -  | -                       | Cooking equipment                        | 1<br>Active       | -   | 2,663              | 214            |
| <b>Tembo 7 (Kulalu/TENP)</b><br>5 TT Scouts + 3 KWS Rangers                  | 30             | 1<br>Illegal herder   | -                 | 3<br>2 small<br>1 medium                   | -                       | 1 spotlight<br>1 panga<br>1 camping horn | -                 | -   | 2,218              | 149            |
| <b>Kamungi Scouts</b><br>4 Scouts  | 30             | -   | -                 | 4<br>3 small<br>1 bird trap                | -                       | -  | -                 | -   | -                  | 232            |
| <b>TOTALS</b>  | <b>150</b>     | <b>6</b>  | <b>2</b>          | <b>69</b>                                  | <b>49kg</b>             | <b>As above</b>                          | <b>1</b>          | <b>3</b>  | <b>9,736</b>       | <b>1,063</b>   |
| <b>Total 2021</b>  | <b>554</b>     | <b>26</b>   | <b>8</b>          | <b>201</b>                                 | <b>485kg</b>            |  | <b>7</b>          | <b>20</b>   | <b>37,366</b>      | <b>3,552</b>   |

### 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 |
|--|----------------|--|---|--|--------------------|
| <b>Tembo 2 (TENP)</b><br>(3 TT staff + 2 KWS)<br> | 23             | -Tusker monitoring<br>-Hirola monitoring<br>-Grevy's zebra monitoring<br>-Carnivore monitoring<br>-Carnivore scat analysis: hair content<br>-Highway & SGR roadkill surveys<br>-Camera trap surveys<br>-Fixed point photos<br>-Collared elephant reporting | -Tuskers – 19 sighting<br>-Hirola – 8<br>-Grevy's Zebra – nil<br>-Large Carnivores – 8<br>Ground Hornbill - 6<br>-Road & Rail kills – Nil<br>-Elephant carcasses – Nil<br>-Ivory recv'd. – Nil<br>-Rain gauge readings<br>-Collared elephants – 1<br>Carnivore scat collect – 0 | Tsavo East Nat. Park – mainly southern, central and eastern sections including, Voi River & Shirango Conservancy | 2,527              |
| <b>Tembo 4 (TWNP)</b><br>(2 TT staff + 4 KWS)<br> | 30             | -RHINO monitoring – TW IPZ<br>-Camera trap surveys - rhino<br>-Big Tusker monitoring<br>-Large Carnivore monitoring<br>-Collared elephant reporting  | -IPZ Rhinos – 20<br>-Tuskers - 0<br>-Large Carnivores – 1<br>-Collared elephants – nil<br>-Elephant carcasses – nil<br>-NRS Rhino night census – n/a  | Tsavo West Nat. Park – IPZ and Triangle  | 3,855              |
| <b>TOTALS</b>  | <b>53</b>      | <b>As above</b>  | <b>As above</b>   | <b>As above</b>  | <b>6,382</b>       |
| <b>Total 2022</b>  | <b>221</b>     | <b>-</b>   | <b>-</b>  | <b>-</b>   | <b>29,621</b>      |



## COMMUNITY CONSERVANCY PROGRAM:



| ACTIVITY  | KAMUNGI Conservancy   | SHIRANGO Community Conservancy  |
|---|---|---|
| <i>Ongoing partnership between Tsavo Trust &amp; KC &amp; SCC</i> | North boundary of TWNP – Triangle, since 2014. Total area approx. 100km <sup>2</sup> Makueni County; Kibwezi Sub County; Mtito Andei Division; Mtito Andei Sub-location; Ngiluni Village.   | South boundary of TENP – Voi River area, since 2016. Total area 270km <sup>2</sup> Kilifi County; Ganze Sub-location; Bamba Ward; Mitangani location; Gede Sub-location.  |
| <i>Employment (Through Tsavo Trust)</i>                           | Between Tsavo Trust & partners 45 permanent staff & 15 casual staff employed generating over \$12,000 (Ksh.1,320,000) 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 \$3,000 (Ksh.330,000) of income monthly.                                     |
| <i>Community Mobilization and Sensitization Meetings</i>          | <b>7 community meetings held</b> <ul style="list-style-type: none"> <li>➢ Mtito Fence meeting: GMC, TT/Kamungi, KWS, ZSL - HWC</li> <li>➢ Makueni Dev. Trust</li> <li>➢ Board Meeting 27/04/22</li> <li>➢ School bursary scheme initiated</li> <li>➢ 10% Fence meeting</li> <li>➢ Bee keeping workshop &amp; honey sales</li> <li>➢ Land issues/challenges with land sales</li> </ul> | <b>2 community meetings held</b> <ul style="list-style-type: none"> <li>➢ Earth dam construction for water</li> <li>➢ Chiefs Office baraza re Land Management Committee &amp; registration - ongoing</li> </ul> |
| <i>Membership</i>   | Through a registered CBO KC membership represents 140 families & over 1,400 individuals from 2 villages, mainly from the WaKamba community. Considerable interest for more membership from villages to the west towards Mtito   | Through a registered CBO SCC membership represents at least 2,300 individuals from 5 villages, mainly from the Watha and Giriama ethnic groups.   |
| <i>Water Project</i>  | <b>83,580</b> litres of water issued. (248,700 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.   |
| <i>Basic Health care</i>  | <b>156</b> patients attended ( <b>689</b> for year to date).  | There is need to support this project   |
| <i>Constructions</i>  | Honey processing room-completed and opened by Governor Makueni C on 25/1/22   | Scouts HQ completed   |
| <i>Education</i>  | Paid for 2 teachers (1-Ngiluni & 1-Kamunyu School in KC) for the last 9 years. Ongoing.   |   |
| <i>Bursary Scheme</i>   | Started in April22<br>5 needy students selected through KC board.   | None at present   |
| <i>Village Saving &amp; Loan Associations – VSLA's</i>            | 5 women run VSLA's are in progress: partnership between ZSL / KC & TT   | None at present   |
| <i>Poultry Project</i>  | 3 poultry projects: partnership between ZSL / KC & TT   | None at present   |
| <i>Training</i>   | VSLA, HWC mitigation  | Scouts trained on GPS use & data collection   |
| <i>HWC Mitigation Elephant Bee Fence</i>                          | 7 x 1-acre bee fences, total 105 beehives with 12 currently occupied. 23kg harvested.   | N/A yet   |
| <i>10% Fence Plan</i>   | 10% fence plan completed Phase 2 completed: <b>Total 12 plots</b> (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  | N/A yet   |
| <i>Predator Proof bomas</i>                                       | 7 predator proof bomas set up: by TT/ZSL  | N/A yet   |
| <i>Mtito 32km fence line</i>                                      | Completed 30/11/21 with 95% HEC reduction   | N/A yet   |
| <i>Human Wildlife Conflict (HWC)</i>                              | <b>31 cases</b> recorded: 29 elephant; 1 Baboon; 1 poisonous snake.   | <b>10 cases</b> recorded: 2 lion; 7 hyena; 1 Cheetah  |
| <i>Land Tenure</i>  | Ongoing   | SCC land currently traditional communal mode of ownership, not legally protected. Efforts underway to ensure the local communities legally own their land. Ongoing.   |
| <i>Wildlife Census Transects</i>                                  | 1   | None  |
| <i>Operations and Security</i>                                    | ➢ See Field Units table above   | ➢ See Field Units table above   |

## Unusual Photo of the Month:



*6<sup>th</sup> April 2022: The above photo was taken by Christine Mwende of Tsavo Trust's Tembo 2 Monitoring Team near Bachuma Waterhole - Tsavo East National Park. Cheetah are known to prey on small antelopes like gazelles and impala but at times young of larger animals like this Zebra foal.*

### **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; Leopardess Foundation; JM Foundation Africa; Cheyenne Mountain Zoo; Save The Elephants (STE); 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; Georg Waechter Memorial Foundation; Maliasili; EU-Biopama Programme; Tofauti Foundation; Ndovu Trust (UK); Satao Camp & Southern Cross Safaris (Msa); Origins Safaris; Ker & Downey Safaris; Tropical Ice Ltd; OnSafari-Kenya; Askari Project-Australia; Exodus Travel; Maasai Wilderness Conservation Trust (MWCT); Chesbro Foundation; Milkywire; Off Piste Africa; Empowers Africa; Enos Enterprises-Tembo Wine; 51 degrees-Vulcan; Conservation Alpha; 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; Anita Mishra & Paolo Mapelli; James Lewin; the late John Fletcher; Paul & James Wilson; James Chiappa; David Calderone; Will Burrard-Lucas; Drew Doggett photography; the Kiddingtons; Marie de Brouwer; Kim Makenzi; Paolo Parazzi; Sam Stogdale; Howard Saunders; Sandor Carter; Sean Dundas; Andreas Fox; Karen Laurence-Rowe; Alex Hunter; John Carr; Max Haller; Anthony Cheffings; Prints for Conservation; Chris Acreman and numerous other enthusiasts.

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

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