

CROP PROTECTION GRANT PROPOSAL

1.0. Background.



Tanzanian wildlife, particularly elephants, need large areas in order to survive. They move from place to place in search of food and water, enabling ecosystems to recover and regenerate as they travel across the landscape. National parks protect some core areas, however in order to survive, populations must also venture outside of the parks and seasonally disperse into human habituated areas. As elephants move through farmland, they frequently destroy farms and crops, causing a devastating impact on local livelihoods and often leading to dangerous encounters between humans and elephants, as well as retaliation killings.

African wildlife is under threat, approaching an ecological tipping point whereby irreversible damages may occur. Here in Tanzania, there are two interconnected problems placing immense pressure on our wildlife, poaching and human encroachment. Poaching is damaging and devastating, and is at the forefront of the media. Lesser known, yet perhaps a greater threat, is that land for wildlife is decreasing as human populations grow. Wild areas are being converted into farms, not only reducing living space for wildlife, but also increasing human-wildlife conflict. Honeyguide is working with local communities on sustainable solutions to address these issues.

1.0. Background.

90% CROP SAVED

The Human Wildlife Conflict (HWC) program that Honeyguide implements is a powerful conservation tool, and we are seeing its impacts. In Honeyguide protected areas, the program has reduced crop damage from elephants by 90%; as a result, we have seen zero retaliatory killings of elephants.



Communities in Tanzania are working to establish safe havens for wildlife outside of the National Parks, called Wildlife Management Areas (WMA's). Honeyguide is working with communities within Wildlife Management Areas to establish the business of conservation, and to assist communities in generating revenue through tourism. By establishing wildlife tourism in these areas, greater value will be placed on local wildlife by communities, and therefore an increased desire to protect it, and to provide more intelligence on illegal activities such as poaching. Honeyguide then provides support for these communities in conserving their wildlife, including providing toolkits to protect crops.

2.0. Community Human-Wildlife Conflict Teams



50-50

COST SHARING. THE PROJECT WILL PROVIDE THESE REPLACEMENT SETS (CHILLI CRACKERS AND ROMAN CANDLES) AND THE COMMUNITIES HAVE COMMITTED TO CONTRIBUTE 50% OF THE COSTS.

> TEAM MEMBERS IN A HWC TEAM ES-

TABLISHED WITH-

IN COMMUNITIES

TEAMS PER VILLAGE

90% REDUCTION OF CROP DAMAGED BY ELEPHANTS

TARANGIRE ECOSYSTEM INCLUDING THE SUR-ROUNDING VILLAGES HAVE APPROXIMATELY

HUMAN-WILDLIFE CONFLICT TEAMS **800 VOLUNTEERS** FROM RANDILEN AND ENDUIMET THAT WILL PATROL EVERY NIGHT DURING THE CROP RAIDING SEASON.

EACH TEAM WILL REQUIRE THE FULL CONFLICT TOOLKIT AND PRIMARILY THESE TOOLKITS NEED RE-PLACEMENT SETS OF CHILLI CRACKERS AND ROMAN CANDLES.

> **3** VILLAGES IN HONEYGUIDE PROJECT AREAS

> > FOUR STEP

EFFECTIVE HUMAN-ELEPHANT PREVENTION TOOLKIT

2.1. Human-Elephant Conflict Prevention Toolkit (HEC)



Honeyguide HWC toolkit consists of a set tools used in a predefined sequence to deter crop-raiders. The toolkit contains bright torches, blow horns, chilli crackers and roman candles which are to be used in a given order respectively depending on the stubbornness of a crop raider.

The toolkit is used in a progression, with the flashlight being the least invasive and slowly scaling up the irritant level, if the elephants remain in the crops, then finally the Roman candle (which is a firework of sorts) is fired at them. Records show that the flashlight is 75% effective on all raids. Following on from the flashlight, we bring in the blow horn, then the chilli cracker and finally the Roman candle which is 100% effective; however, is rarely used.

3.0. Training

HWC **OVER** FILM 40 HOURS **SPECIAL FILM DEVELOPED FOR** RANDILEN **TRAINING FROM 10TH** WILDLIFE MANAGEMENT JUNE-15TH AUG, 2016 **PEOPLE WERE TRAINED RANDILEN AND BURUNGE WMA**

Honeyguide, through its crop protection and monitoring and evaluation units, ran 40 hours of training from 10th June to 15th August 2016 and also showed a film that was specifically developed for the Randilen WMA and the conflict with elephants during the month of October. Both the film and the training covered the use of Human-Elephant Conflict Toolkits and also data collection, monitoring techniques, and applicable software usage. The teams also covered all basic protocols, different techniques used to deter raiding wildlife, safety protocols, and the attributes and significance of good data. Honeyguide also taught lessons from its own training manual, which clearly stipulates directives and procedures for crop damage mitigation. As an intangible output, this training aimed to further contribute to the knowledge base and best practices to alleviate HWC at the community level among these villages in Randilen and Burunge WMA.

How to use HWC Toolkit Safety Precautions





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Monitoring

Data Collection and theSignificance of good data



3.1. Human-Wildlife Conflict Data Collection



CROP PROTECTION IMPACT

IS IMPORTANT IN ORDER TO MONITOR CROP PROTECTION IMPACT AND BE ABLE TO MAKE DECISIONS ON TOOLKITS, TRAINING THE TEAM AND ENSURING EVERY CROP RAIDING INCIDENT IS BEING RECORDED WHETHER PREVENTED BEFORE ENTRY OR CHASED FROM FARM.

VCP

VILLAGE CROP PROTECTION TEAM RECORDS INCIDENTS ON A SIMPLE INCIDENTS DATA SHEET





HWC FIELD MON-ITORING OFFICER RECORDS MORE IN-FORMATION USING A SPECIAL CROP RAIDS DATA FORM IN OPEN DATA KIT SMART-PHONE APPLICATION.

DATA

- GPS LOCATION,
- VILLAGE TEAM IN-VOLVED.
- CROP RAIDING ANI-MAL TYPE AND ESTI-MATED NUMBERS.
- PICTURES
- DAMAGES CAUSED
- THE DETERRENT METHOD USED TO SCARE AWAY THE ANIMAL(S) SPECI-FYING THE EXACT SEQUENCE USED.

4.0. Funding Requirements (Randilen and Burunge WMA)



\$1,880/Village/year

Total costs for supporting communities to protect elephants and their crops from conflict for the entire crop season until harvest (Usually December until July)

4.1. Other Human-Elephant Conflict Prevention Tools





Saving big spaces for for people and wildlife to live together for generations to come.