



## Hawaan Forest Conservation Trust

### Monthly site inspection report:

Summary:

31.05.2025

1. In May, work in the Hawaan Forest continued with a focus on wildlife management, alongside the launch of a new Invasive species project along the M4. WESSA staff began clearing invasive species such as Chromolaena, Yellow Bells, and Mexican Sunflower from the M4 road reserve, while also collecting litter that has accumulated over the years.
2. Approximately 30 mm of rainfall was recorded during May, marking the end of autumn and the onset of the forest's dry period. As a result, HCT staff will be prioritizing the cleaning and topping up of water-points across the site.
3. After three years of camera trap monitoring, the first image of a Bush Pig was captured. While this is an exciting and expected development—given recent foraging signs in both the forest and grassland—some uncertainty remains, and it may in fact be a feral pig. A clearer image will be needed to confirm the sighting (see item 24).
4. A second foray by HCT staff and the Snare Aware team into the south-western corner of the forest resulted in the recovery of 35 snares, most of which were located along the Izinga Estate boundary and vacant Lot which is owned by the City.
5. Planned actions for June 2025 include fire preparation, continued cleaning of the M4 road reserve, and the annual cataloging and organization of camera trap images. We have also deployed the passive acoustic monitor across the transects for the annual winter sample.

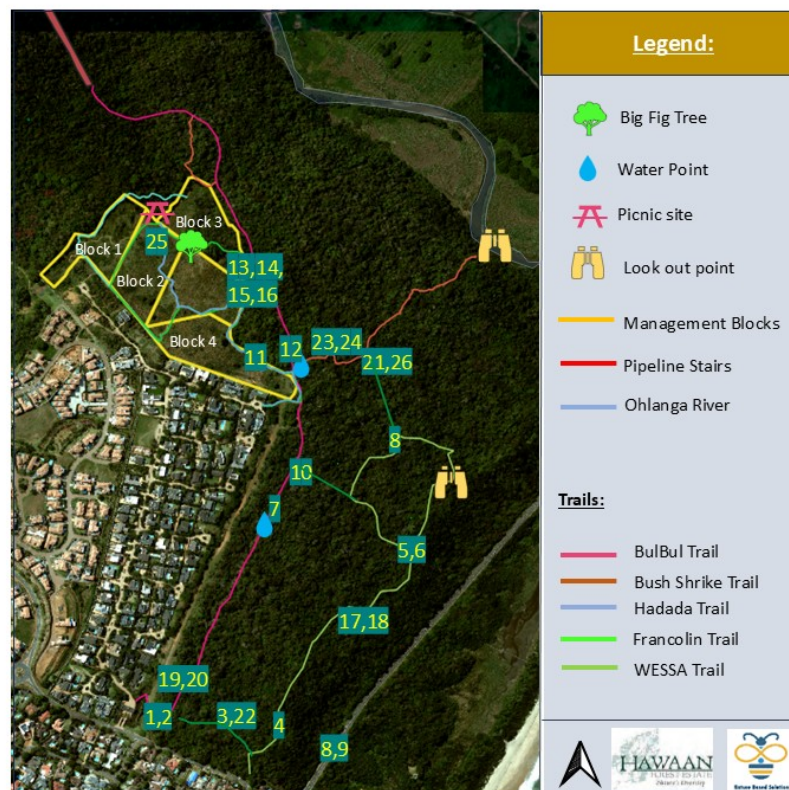


Figure 1. Numbers on the map refer to items below.





Housekeeping at the sheds during May was good. The management zone was clean and neat.



As were the parking and forest gate entrance areas.



The Bill Duthie memorial bench has now be moved to face the large *Ziziphus*, which provides a beautiful perspective and resting place for the forest user.



An audit of the WESSA trail signage was conducted in May. One item was to adjust the tags on this large *Mimusops obovate* (Red Milkwood).



The tree tags on the WESSA trails indeed show three generations of labeling—two seen in this image. The steel tags assigned by Vincent Wager, the WESSA tags by the Umhlanga Branch Wildlife Society. The new HCT tags will be the third generation.



Identifying trees in the forest can be challenging, especially when the leaves are 5-10 m in the canopy. Fortunately, some characteristic trees such as (*Strychnos gerrardii*) can be recognised at some distance purely by the fluted stem.

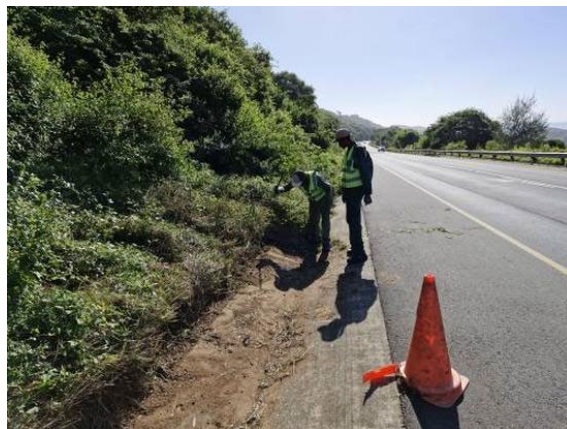


(7)



We have moved one of the camera traps back to the pipeline water-hole for the winter—so that we can keep up our long-term dataset of monitoring the watering points over the dry-season & winter months.

(8)



HCT staff and WESSA staff have now taken on the M4 management of the Hawaan Forest edges. They have started by cutting back *Chromolaena* and Mexican sunflower on the forest edge, while also bagging and managing litter.

(9)



Of course, over the years the M4 forest edge has accrued a lot of litter; this month the team collected 6 bags of litter.

(10)



One of the ongoing tasks of the HCT staff is to mitigate threats not only from already established alien plant species but also new arrivals; one such Sticky weed, (*Drymeria cordata*), which can quickly colonise the understory of shady forest areas.

(11)



Some pruning needs to be done in June, where HCT staff will focus on grassland trail edges and then move on to Tracer belts for fire season.

(12)



Now that the dry season has officially arrived, the HCT staff clean and topped up the water points weekly—this becomes more important as we move towards the dry period.



(13)



Late autumn into May, the start of the calm dry season, has brought many butterflies to these still forest glades such as this.

(14)



Another relatively newcomer to the forest edges and grassland bush clumps is something called Lollipop creeper, (*Diplocyclos palmatus*) which looks like one of the many indigenous cucumbers but is characterised by its round fruit, which turns red and white when ripe.

(15)



Attending to these creepers specifically will be a matter of attention for the HCT grassland staff in June.

(16)



As will be some of the young Brazilian pepper, which keeps recurring in the area where historically the large pepper hedge existed.

(17)



During our inspections this month in the forest, (*Chionanthus peglare*), a quite unusual tree, was noted fruiting along the eastern ridge of the forest. During winter, forest fruits provide high-quality food for the Red Duiker which occur at the Hawaan.

(18)



While, on the lower M4 and more salt-exposed slopes, the deadly but beautiful Bushman's Poison, (*Acokanthera oppositifolia*), was noted flowering - it may fruit right at the end of winter in August.



(19)



As the months go by, the eThekweni LIFEPLAN Project Research team continues with their monitoring program, collecting insects from the Malaise trap on a weekly basis.

(20)



Flowering in the grassland and forest edges during late autumn is one of the indigenous Hibiscus, (*Hibiscus surattensis*).

(21)



As the days get shorter, the theme of this month's camera trap gallery is low-light and night shots—which can be extremely beautiful—such as silhouettes of this Blue duiker.

(22)



A foraging vervet monkey, presumably looking for grubs in the leaf litter...

(23)



While, this gaggle of Crested Guineafowl in force – foraging but about and ready to roost along the Bushshrike trail

(24)



We think we have spotted our first bushpig on camera, at long last after three years—but could this be a feral domestic pig?

(25)



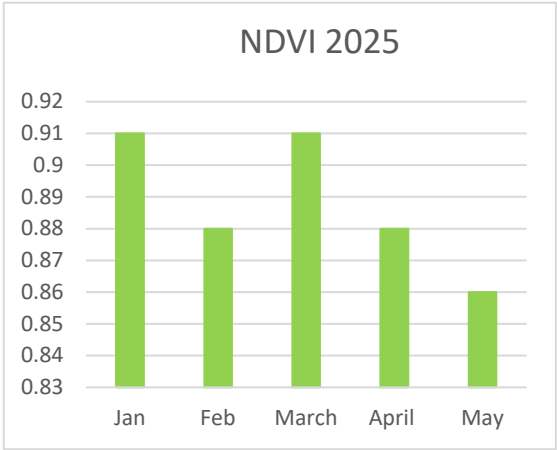
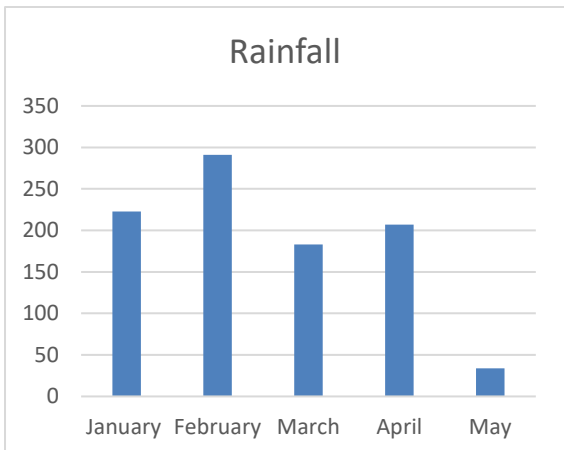
The pair of water mongooses are a monthly feature on the grassland trails but come out late at night foraging.

(26)



While foraging in the early morning, this Red duiker brings contrast and reminds us all of our collective responsibility to maintain and protect urban forest systems.

Climatic Data – May 2025



Herbicide Register – Hawaan Forest – 2024/2025							
Item	Herbicide Name	Active Ingredient	Type	Litres in Stock	Date Used	Species Applied	Location
1	Gladiator, pre-mix	Picloram	Selective	15L (pre-mix)	16/4/22	Creeping inch	Forest mgmt zone
2	Round-up	Glyphosate	Non-selective	3L	-	-	-
3	Gladiator, premix	Picloram	Selective	Used 15L	15/11/22	Brazilian pepper	Eastern grassland
4	Plenum 160	Picloram	Selective	20L – concentrate. Mixed 21L	25/02/23	Brazilian pepper, Yellow bells	Eastern grassland
5	Plenum	Picloram	Selective	18L	13/04	Pepper, Yellow bells	West grassland
6	Plenum	Picloram	Selective	5L	05/09	Yellow bells, Pepper	West grassland
7	Plenum	Picloram	Selective	5L	05/03/24	Searsia	East grassland
8	Plenum	Picloram	Selective	3L	05/08/24	Searsia, Dodda, Euclea	East grassland
9	Plenum	Picloram	Selective	3L	11/08/24	Searsia, Dodda , Euclea	Central grassland
10	Plenum	Picloram	Selective	2l	31/08/24	Searsia	Eastern grassland
11	Plenum	Picloram	Selective	2l	31/10/24	Searsia	Eastern grassland
12	Plenum	Picloram	Selective	2l	5/2/2025	Bush Encroachment	Western Grassland
13	Plenum	Picloram	Selective	2L	12/2/2025	Trails/Spike weed	Trails
14	Plenum	Picloram	Selective	2l	20/03/2025	Searsia/Bush encroachment	Western grassland
15	Plenum	Picloram	Selective	2l	1/04/2025	Searsia/Bush encroachment	Western grassland
16	Plenum	Picloram	Selective	1L	12/05/2025	Tithonia/Chromolaena	M4 edges



[illegible]



(21)



During our investigation of suspected Bush Pig activity in March, we relocated the camera traps to monitor the western portion of the grassland trails. This adjustment allowed us to capture some excellent observations of the local scrub hare.

(22)



Observed by the camera at the enjoying the water at the Bush-Shrike water-hole were the local Wood Owl.

(23)



Also observed at the Bush-Shrike water hole was the resident Crowned Eagle, which we haven't seen regularly in a few seasons.

(24)

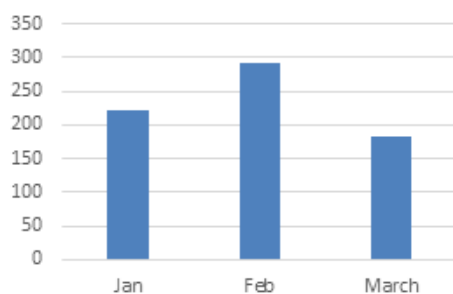


The resident water mongoose is frequently observed along the trails in Hawaan, making regular appearances during our monitoring efforts.

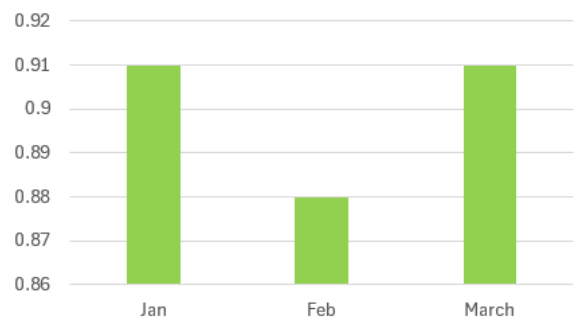
### Climatic Data 2025

Rainfall and The Normalized Difference Vegetation Index (NDVI) which is a measure of the productivity of forest vegetation.

Rainfall 2025







NDVI 2025







## Hawaan Forest Slip\_2025

-  Hawaan Grassland
-  Contours\_north coast
-  Hawaan\_slip
-  Hawaan\_boundary

Google



0 100 200 m



## Hawaan Forest Slip Strike – March 2025

A significant slip has occurred on the southern bank of the Ohlanga River in March 2025. This slip, resulting from the combined effects of over 600 mm of rainfall during January, February, and March 2025, along with ongoing undercutting by Ohlanga River, has led to the loss of approximately 4,000 m<sup>2</sup> of forest habitat.

Aerial imagery and reports dating back to the flooding in 1986 indicate that this is a long-term feature of the river channel. The river is forced to meander southward due to a large sandbank and reedbed located directly adjacent to the slip. The ecological habitat loss includes several medium-sized tree species, such as the Red Coastal Milkwood (*Mimusops obovata*), Stem-Fruit Iron Plum (*Drypetes natalensis*), and Blue Berry (*Strychnos usambarensis*).

The parent soil material at the slip site consists of regic sands, which have deposited approximately 200–300 m<sup>3</sup> of material at the foot of the slope, which has a gradient of roughly 1:3.

There appear to be two possible outcomes:

- 1.The material at the foot of the slope remains in place and is not removed by the Ohlanga River, allowing emergent wetland and forest vegetation to colonise the area, thus stabilising the bank.
- 2.The river continues to undercut the slope, resulting in further slipping and erosion.

At present, there is an estimated 1–2 m vertical drop from the forest edge to the slip. It is anticipated that further rainfall and erosion will continue to shift this area until the level change aligns with the forest plateau, which lies approximately 20 m from the edge of the slip and drop-off.

For safety reasons, the area has been closed to the public and estate residents.







Scrub Hares were noted on the grassland trails near the big Fig Tree during February. This was first time we have captured them on camera.



Spurwing Geese chicks were noted on the grassland trails and seem to have bred in the grassland somewhere close by.



The usual Wood Owl was noted at the Bushshrike waterpoint in February



It appears that a little Sparrow-Hawk was enjoying the freshwater provided by HCT at the Bushshrike waterpoint.

## Climatic Data 2025



(29)



Crested Guinea fowls are a typical feature in the forest understory at Hawaan.

(30)



The usual pair of Water mongoose captured in January 2024.

(31)



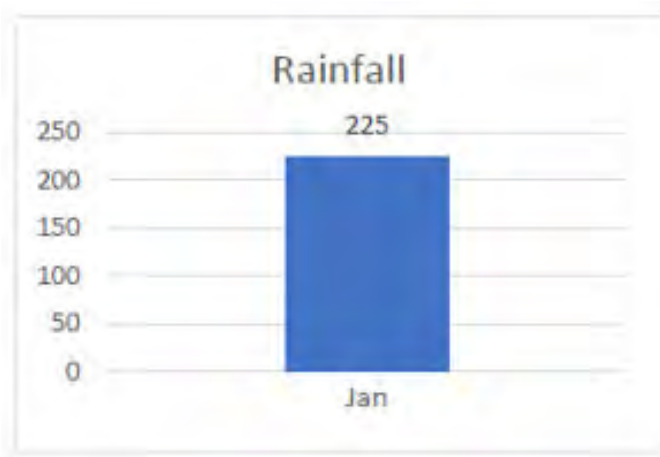
The Crowned Eagles have bred and fledged in 2024, it has been more than 12 months since a juvenile has been noted on the camera's.

(32)



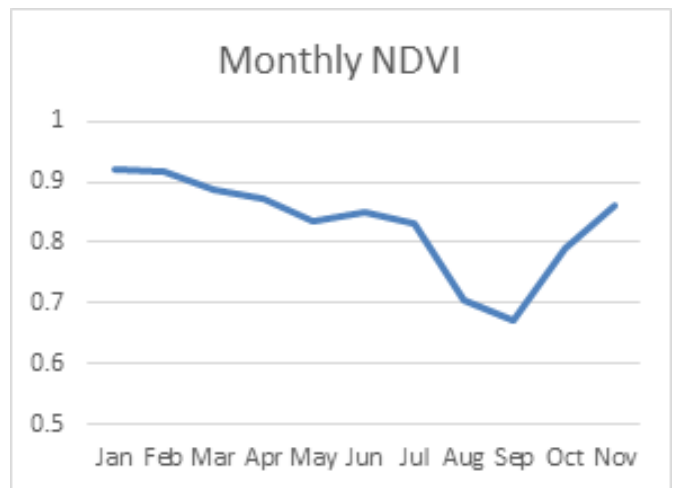
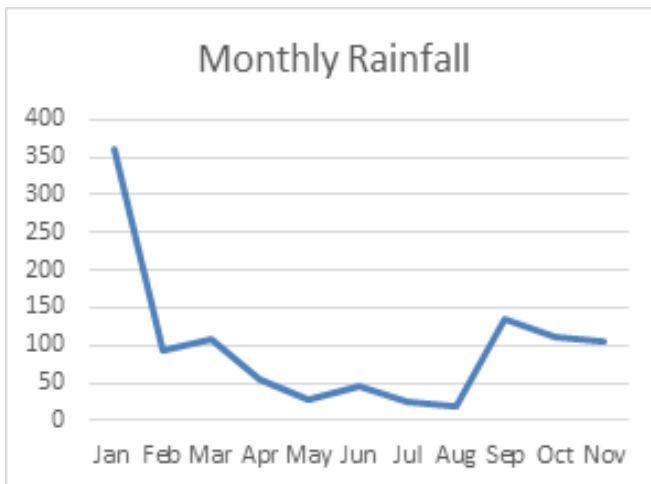
The usual Genet was also spotted by the cameras during late December in 2024.

## Climatic Data January 2025





Climatic data for November, 2024.



Camera trap highlights from November 2024, aligning with the pattern of increasing observations within the interior of the forest – though the water-points are still being utilised a diversity of animals

(21)



Bushbuck female and doe

(22)



Maybe a Marsh Mongoose...

(23)



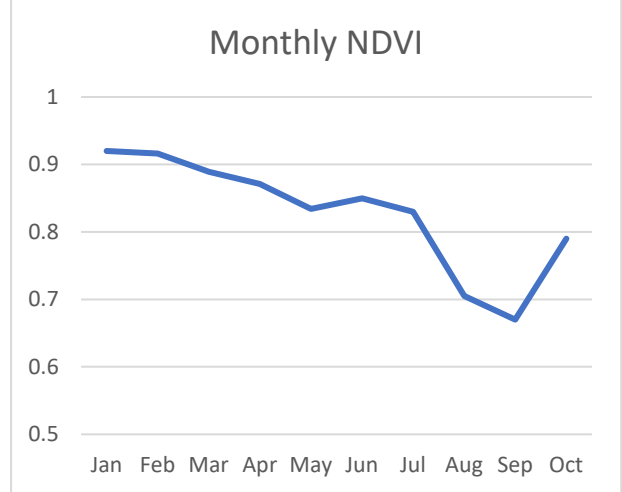
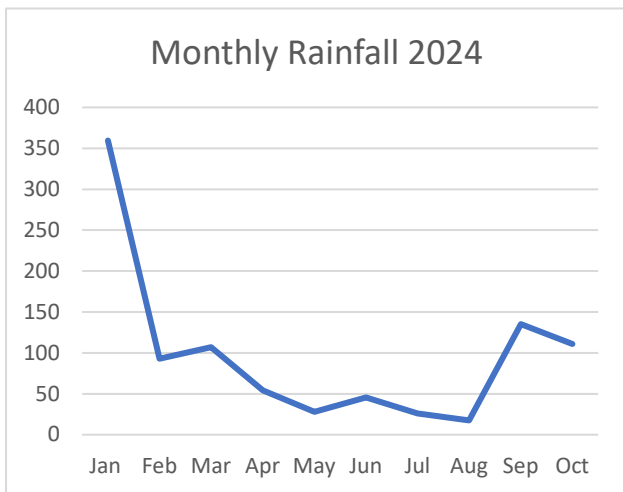
Water Mongoose

(24)



Crested Guineafowl

**Climatic Data**  
**Rainfall and The Normalized Difference Vegetation Index (NDVI) which is a measure of the productivity of forest vegetation.**

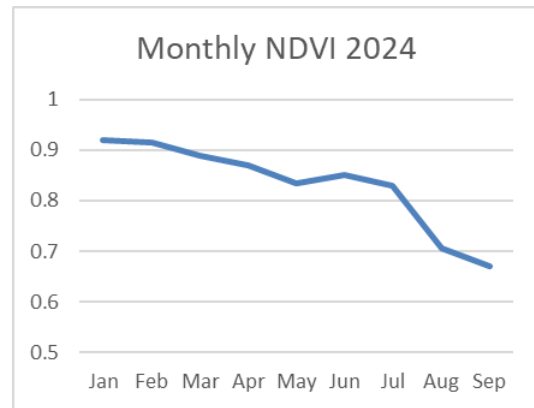
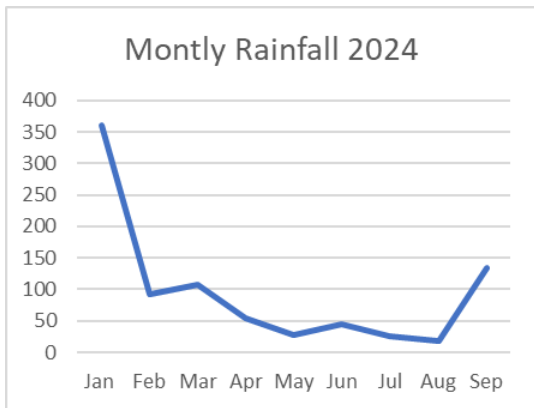


The camera trap images from October 2024 reflect the clearing humidity and the greening up of the forest, which has been occurring since the beginning of September. This change lends a mystical quality to the forest at this time of year.





## Climatic Data for September 2024





HAWAAN FOREST CONSERVATION TRUST

**BOOTED EAGLE**  
*Hieraaetus pennatus*  
(iNqaba)




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**CRESTED GUINEA FOWL**  
*Guttera pucherani*  
(iNkanga)

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**PURPLE HEADED TURACO**  
*Touraco porphyrocephalus*  
(Igwalagwala)

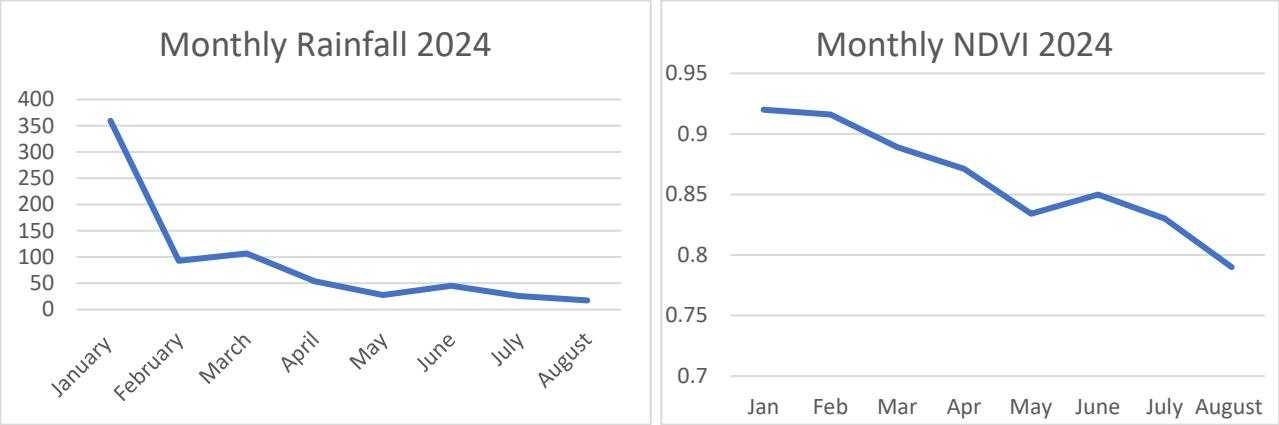



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**AFRICAN WOOD OWL**  
*Sirix woodfordii*  
(uKhozikhova)




Climatic data (August 2024)





Prescribed burning scar 2024



Avifauna of the Hawaan Forest



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TAMBOURINE DOVE  
*Turtur tympanistria*  
(iHobe)

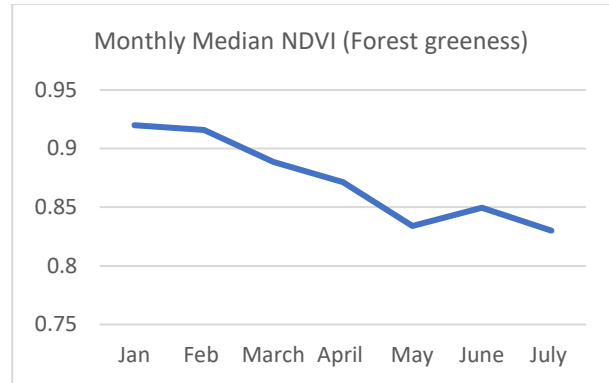
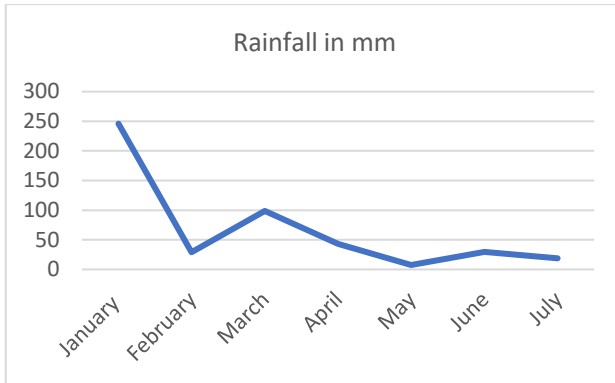


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BLACK SPARROW HAWK  
*Accipiter melanoleucus*  
(uMingeli omnyama)







### Antelope of the Hawaan Forest

HAWAAN FOREST  
CONSERVATION TRUST

**RED DUIKER**  
(FEMALE)  
*Cephalophus natalensis*  
(isiKhipha)

HAWAAN FOREST  
CONSERVATION TRUST

**RED FOREST DUIKER**  
(MALE)  
*Cephalophus natalensis*  
(isiKhipha)

HAWAAN FOREST  
CONSERVATION TRUST

**BUSH BUCK**  
(FEMALE)  
*Tragelaphus sylvaticus*  
(intakajwanemnyama)

HAWAAN FOREST  
CONSERVATION TRUST

**BUSH BUCK**  
(MALE)  
*Tragelaphus sylvaticus*  
(intakajwanemnyama)

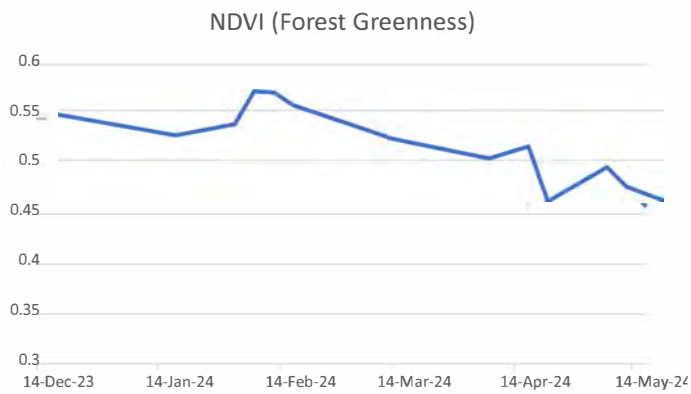
HAWAAN FOREST  
CONSERVATION TRUST

**BLUE DUIKER**  
(FEMALE & FAWN)  
*Philantomba monticola*  
(iNkoni)

HAWAAN FOREST  
CONSERVATION TRUST

**BLUE DUIKER**  
(MALE)  
*Philantomba monticola*  
(iNkoni)





Normalised differentiated vegetation index, on a scale from 0-1, is a satellite derived metric used to monitor vegetation health and primary productivity. This can be tracked on a monthly bases through the growing season, where it can be noted that mean NDVI at the Hawaan peaked in Mid-February at 0.58 and dropped to 0.45 during late May,



**Female Bushbuck**



**Male Bushbuck**



**Blue Duiker - Male**



**Lemon Dove**



**Red Duiker - Male**



**Banded Mongoose**



**Vervet Monkey**



## Camera Trap imagery from April 2024



Vervet monkeys have been enjoying the fresh water provided HCT at the Bushshrike water point



As have many of the Red Duiker



The large male bush-buck



and the beautiful female bush-buck, all look in fine condition.



Two beautiful forest doves, the rarer forest, Lemon Dove..



and the more common, more of associated with woodlands, Tambourine Dove, were captured on the camera during April



Observations from the camera traps in February showed the usual allotment of animals using the water provided by the HCT staff to bath and drink. We are working towards formalising the logging of this data on a consist basis so that it can be used a baseline information for the forest and to track change.



Spotted Genet



Tambourine Dove



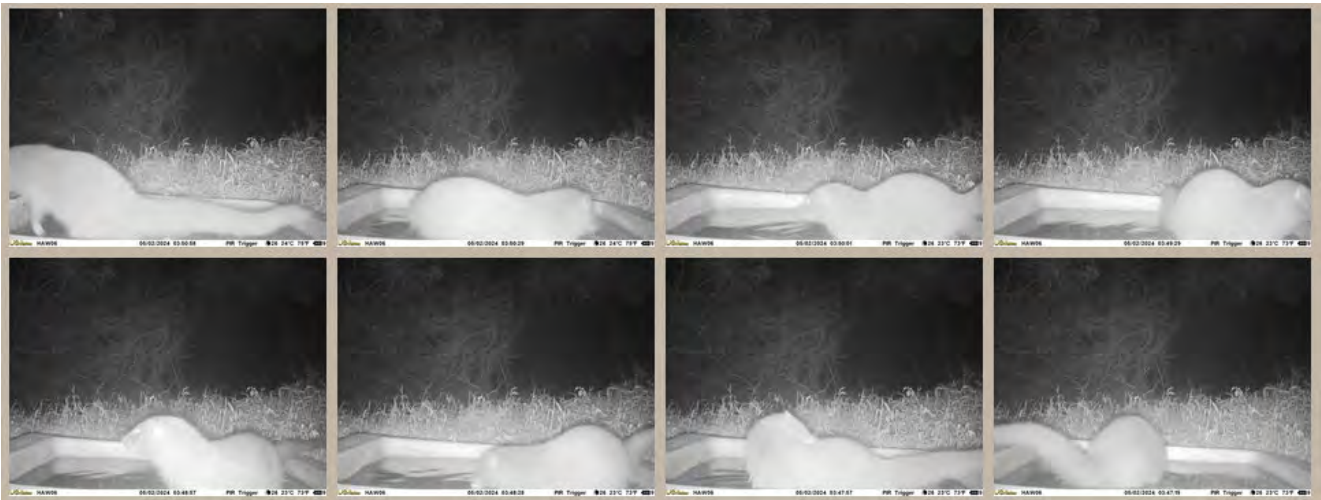
Red Duiker



Blue Duiker



Spotted Eagle Owl



Water Mongoose



**Camera Trap highlights from November 2023. Hawaan Forest.**



**Large Spotted Genet**



**Female Bushbuck**



**Red Capped Robin Chat**



**Pair of Red Duikers**



**Purple crested turaco**



**Tambourine dove**



The forest fauna have been out in full force during August and the action has clearly revolved around the water point at the entrance to the Bush Shrike trail. One again some beautiful forest images have been captured.



A lemon dove and male blue duiker



A Red capped robin chat with a Olive thrush



Juvenile crowned eagle



A family of bushbuck



Large spotted Genet



Dwarf mongoose



Some beautiful camera trap images were taken at the forest water point during July, 2022.



Red Duiker, female.



Bushbuck females.



Crested guinea fowl.



Red Duiker, male



Vervet Monkey, Banded Mongoose, and Guinea fowl.



Banded Mongoose.



Some beautiful camera trap images were taken within the dry forest interior during June.



Bush buck female)



Bush buck (male)



Bush buck (female)



Red duiker (female)



Bush buck (female)



Blue duiker (pair)



## Camera Trap imagery from March 2024



There have been some great mixed foraging parties captured on the camera's during March. Here, Crested Guinea fowls and Red Duiker.



On the Bush-Shrike trail, Crested Guinea fowl and Bush Buck.



The recent hot weather has prompted a diverse array of animals captured at the water-hole on the Bush-shrike trail. Such as the Crowded eagle drinking at the water-hole.



A family of Purple Crested Turaco's.



A nice large Bushbuck passing by the water-hole on the Bush Shrike trail.



A small, blue Duiker close up at the water-hole.



# The Polyphagous Shot Hole Borer (*Euwallacea fornicatus*\*) and Fusarium dieback (*Fusarium euwallaceae*)

The Polyphagous Shot Hole Borer (PSHB) is an ambrosia beetle native to Southeast Asia. In 2017 this pest was detected on London Plane trees in the KwaZulu-Natal National Botanical Gardens, Pietermaritzburg. Its presence has since been confirmed in multiple locations in eight provinces in South Africa. The beetle has a symbiotic relationship with the fungus *Fusarium euwallaceae*, which serves as a food source for the adults and their larvae. In susceptible trees the fungus causes a disease called Fusarium dieback, which can lead to dying branches and tree death. The beetles attack a wide range of exotic and indigenous trees in urban, agricultural and natural landscapes.



Above: An adult female is 1.8-2.6mm long. Males are smaller and cannot fly.



PSHB is not able to complete its life cycle on all the tree species it attacks. Trees in which the beetle is able to breed and multiply are referred to as '**reproductive host trees**'. Important reproductive hosts include species of oaks, maples, willows and coral trees, avocado and castor bean. '**Non-reproductive host trees**' are attacked by the beetle, but the beetles do not establish galleries (tunnels) or breed. The fungus may, or may not cause disease. Trees are generally not expected to die. An updated list of confirmed hosts in South Africa can be viewed at

[www.fabinet.up.ac.za/pshb/](http://www.fabinet.up.ac.za/pshb/)

The movement of infested wood is an important means of spread of the beetle. Therefore, appropriate disposal of infested trees (by chipping/composting, solarization or burning) will be key to reducing the spread of this damaging pest. Surveys to monitor the spread of the beetle in South Africa are continuing. The public can assist by looking out for symptoms. Suspected instances can be reported to [pshb@fabi.up.ac.za](mailto:pshb@fabi.up.ac.za)

Left: Chinese maple tree killed by PSHB and its fungus



Reproductive galleries in pecan



PSHB galleries in coral tree



Shot gun-like symptoms on London Plane

Compiled by Z.W. de Beer & T. Paap (Version 2021-03-04) [www.fabinet.up.ac.za/pshb](http://www.fabinet.up.ac.za/pshb)



**HAWAIIAN ESTATE GRASSLAND  
(ALIEN PLANT CONTROL)**

Scale: 1:2000  
Date: 11/2009  
Drawn: 11/2009

**Legend**  
 Parcels  
 Study Area

DEVELOPMENT PLANNING  
ENVIRONMENT & MANAGEMENT UNIT

**B**IODIVERSITY BRANCH  
 Created by: Lucky murebe  
 Tel Number: 081 311 7940  
 Email address: murebe@hdm.bur.gov.za  
 Peta C: ven lucky@26-01-2009 Richard

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MUNICIPALITY**

