



Hawaan Forest Conservation Trust

Monthly site inspection report:

Summary:

30.04.2025

1. April's work in the Hawaan Forest focused on wildlife management, coupled with ongoing maintenance of grasslands and forest trails. Approximately 130 mm of rainfall was recorded in April, bringing the year-to-date total for the reserve to 830 mm. As a result, the forest environment remains extremely humid and wet.
2. Autumn in KwaZulu-Natal (March–April) appears to be the peak period for observing many Lepidoptera larvae, particularly moths. This may be linked to late summer plant growth, with the adults presumably flying during the hot months of February.
3. As part of HCT's ongoing extra-ordinary conservation interventions, maintenance of the municipal sewer servitude was conducted by HCT staff with support from WESSA in April.
4. A foray by HCT staff and the Snare Aware team into the north-western corner of the forest revealed 11 snares along the Ohlanga river. During this patrol, bushpig activity was also noted, and the Crowned Eagle nest in the lower portion of the forest was checked.
5. Planned HCT actions for May 2025 include preparing tracer belts ahead of the fire season and managing Mexican Sunflower along the M4 road servitude.

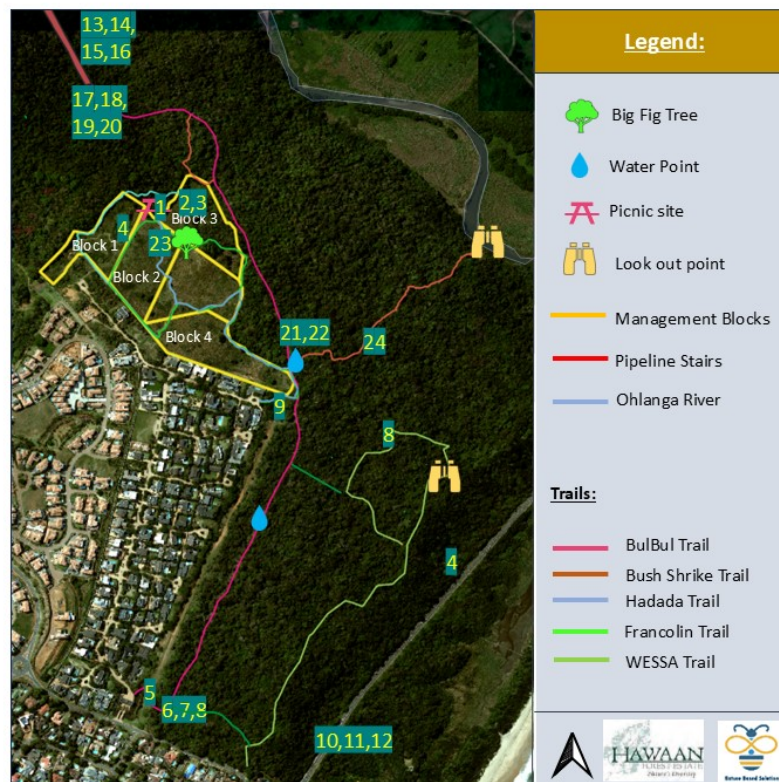


Figure 1. Numbers on the map refer to items below.

(1)



Leonotis intermedia (wild dagga) was noted to be flowering beautifully in the western section of the grassland during April. This has been one of the successes of our small wildflower restoration project, and we should plan further planting of this species in the future.

(2)



In Block 4, Invasive woody control of the grassland has been ongoing in April. The HCT cleared approximately 300 m² in total, working towards our goal of preparing the western side of the grassland for prescribed burning during winter.

(3)



We moved the sign in the grassland block so that it was not sun-exposed, while also adding a camera-trap station at this point

(4)



There are a few yellow-bell saplings in the grassland that have come up during late summer. These will be removed in May by the HCT staff.

(5)



The LIFEPLAN project, run by eThekweni Municipality and Helsinki University, has now deployed most of its equipment on the southern border reserve. This includes bioacoustics and camera traps. A project technician visits the sites three days a week to assess the equipment

(6)



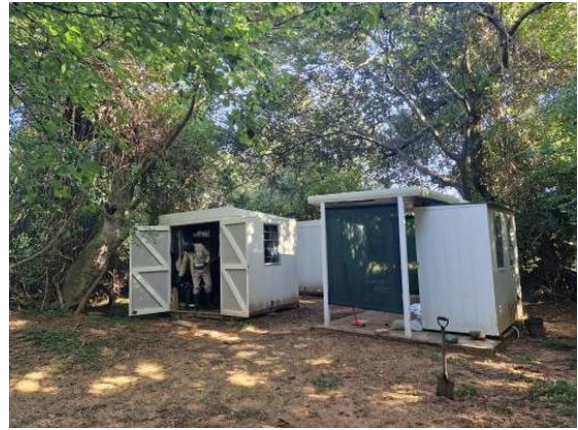
The LIFEPLAN project has also set up a Malaise trap to record forest insects. These insects are then captured in ethanol and identified via the LIFEPLAN project.

(7)



A cyclone sampler, which measures air quality and takes pollen samples, is also due to be installed at a location in the forest.

(8)



Housekeeping at the forest management zone was neat during April. During May, an annual stock take of equipment will be conducted.

(9)



Reports of vagrants along the M4 prompted a scout-out of the area by HCT staff. A small hut was located, and its location was forwarded to the relevant authorities.

(10)



An inspection along M4 for invasive species was conducted during April, revealing moderate amounts of Mexican Sunflower, Chromolaena, and Madeira Vine in the mid-section of the road.

(11)



In the southern section, Yellow-bells (*Tecoma stans*) were less abundant.

(12)



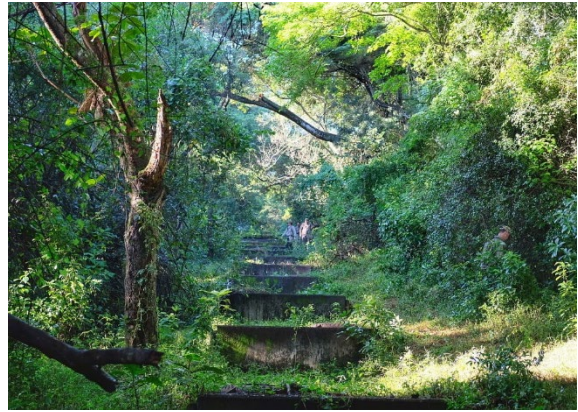
Also in the southern section are *Leucinia leucocephala* (Tan Tan tree). Managing this forest edge for invasive species will form part of the winter management programme

(13)



We were lucky to host the Snare Aware team as part of the iNaturalist City Nature Challenge, where we traversed the municipal servitude into the seldom-visited northwestern boundary.

(13)



Prior to the snare hunt, we used the opportunity to conduct our annual bush-cleaning operation and inspect the pipeline leaks and issues which occur periodically, especially after heavy rain.

(11)



We also used this opportunity to check up on the Crowned Eagle Nest tree. Although we did not see the nest in the tangle of creepers, we heard the bird nearby.

(12)



In all, over the morning, the teams comprising 11 people collected 9 snares which were mostly located along the river edge.

(11)



These are larvae of the Boisduval's Tree Nymph – an undescript butterfly which breeds and feeds profusely on the Duiker Berry Tree. The adult butterfly can often be noted in brown swarms on grassland edges at this time of year.

(12)



This beautiful caterpillar is the larva of the magnificent moth called the Wahlberg's Emperor, which feeds specifically on Acacia and other Fabaceae trees.

(11)



This emperor moth larva was found parasitized by Ichneumonidae wasps, their pale eggs clearly sticking out from its body — a fascinating, if somewhat grim, sight.

(12)



These bagworm larvae, which as an adult is a moth, are often found in long trains with the forest. They are famous for their characteristic brown bagworms where hundreds of them pupate at a time.

(11)



The local wood owl turned up again at the bush-shrike water hole during April.

(12)



And we suspect the first observation of the Spotted Ground Thrush this winter.

(11)

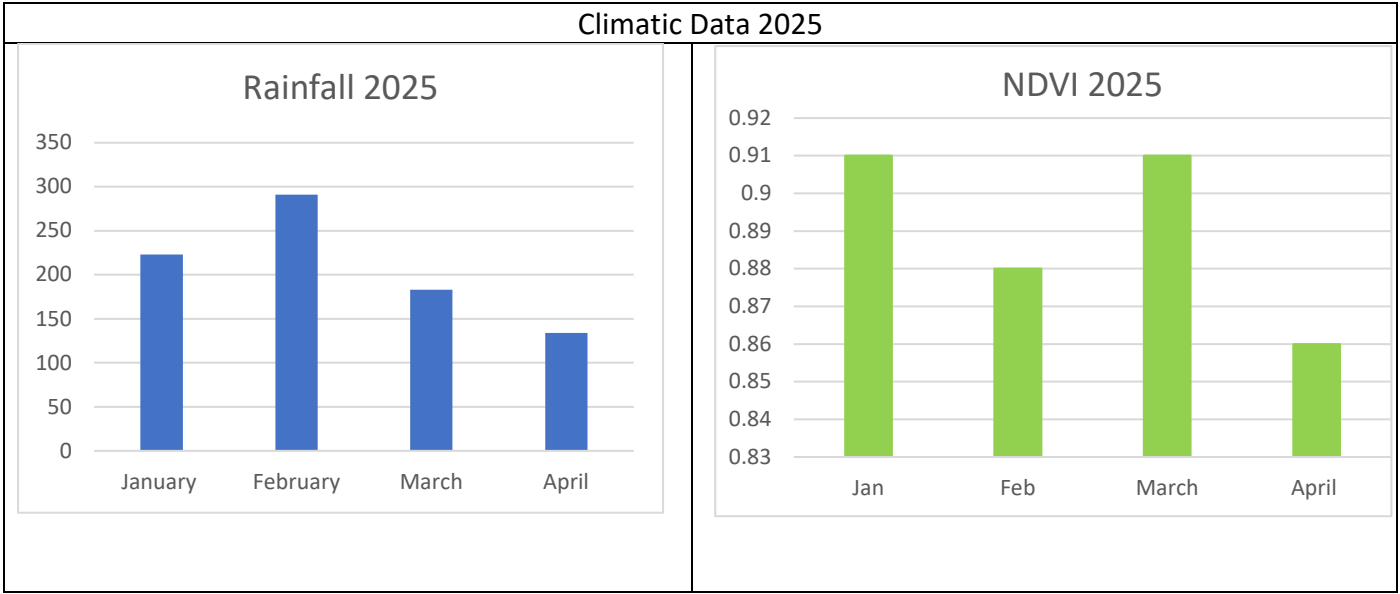


While not all camera trap images are useful for data and wildlife observations, some are purely magical and capture the sense of the place, like this great grassland shot.

(12)



And, with all the hazy and humid days even over April, this picture of a young female bushbuck on a forest path says it all about the softness of the forest light.



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 gra
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/Sticky weed	Trails
14	Plenum	Picloram	Selective	2l	20/03/205	Searsia/Bush encroachment	Western grassland
15	Plenum	Picloram	Selective	2l	1/04/2025	Searsia/Bush encroachment	Western grassland

[illegible]

[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)

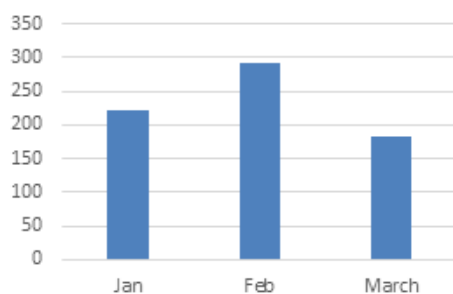


The resident water mongoose is frequently observed along the trails in Hawaan, making regular appearances during our monitoring efforts.

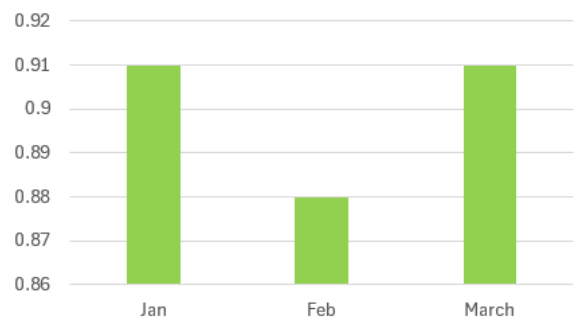
Climatic Data 2025

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 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 m² 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 m³ 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.

Hawaan Forest Slip_2025

-  Hawaan Grassland
-  Contours_north coast
-  Hawaan_slip
-  Hawaan_boundary

Google



0 100 200 m





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)



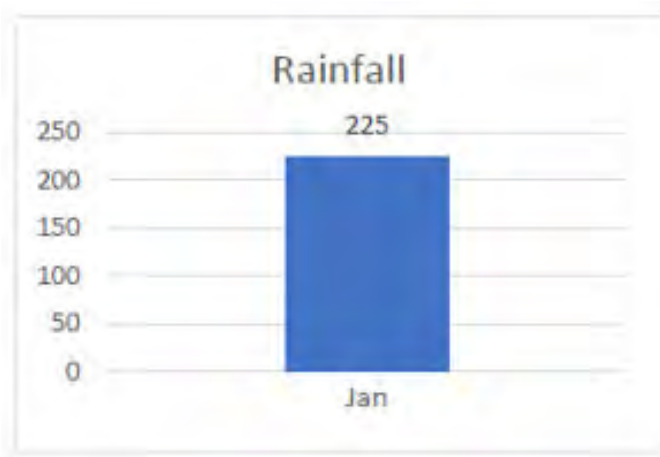
The Crowned Eagles have bred and fledged in 2024, it has been more than 12 months since a juvenile has been noted on the camera's.

(32)

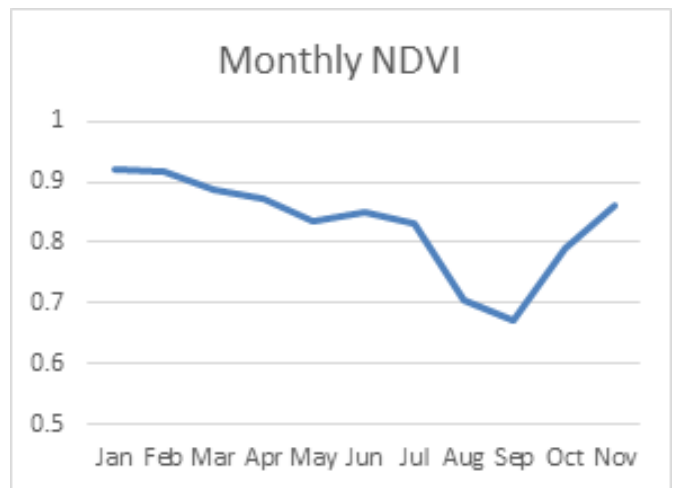
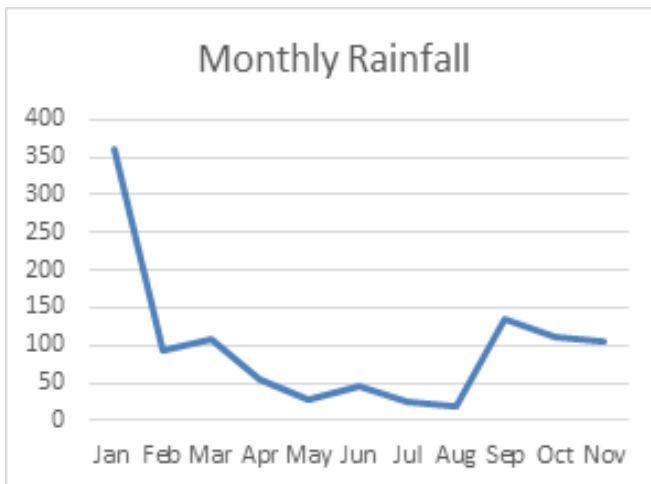


The usual Genet was also spotted by the cameras during late December in 2024.

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)



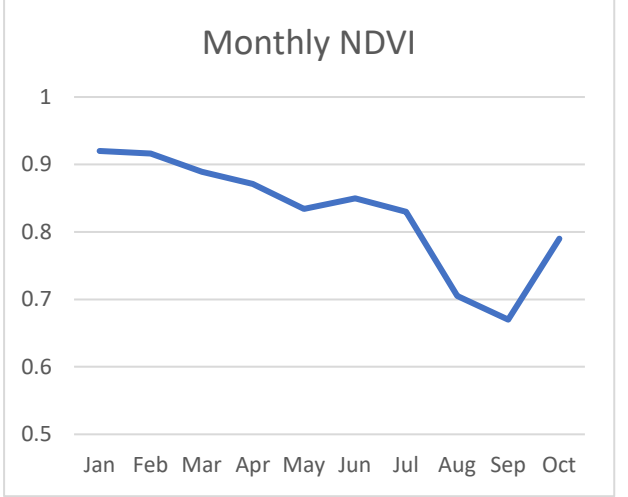
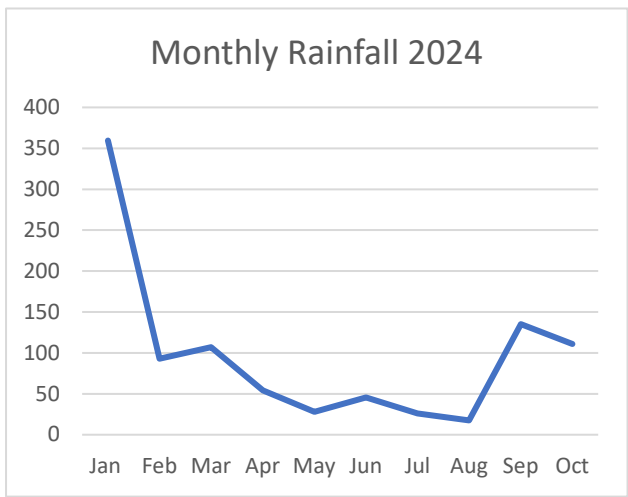
Water Mongoose

(24)



Crested Guineafowl

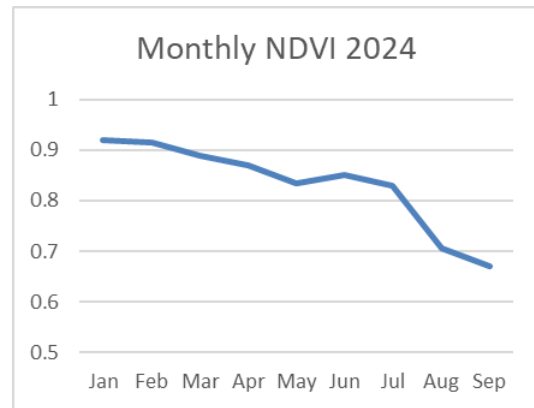
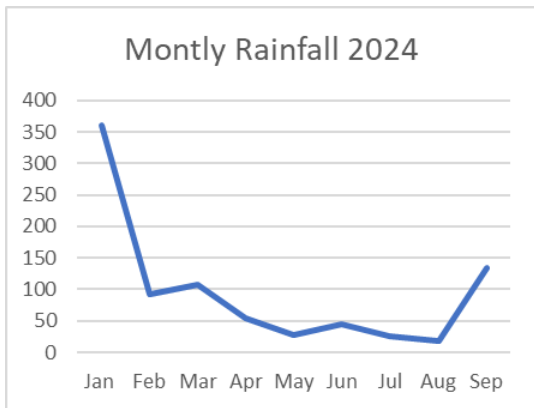
Climatic Data
Rainfall and The Normalized Difference Vegetation Index (NDVI) which is a measure of the productivity of forest vegetation.



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)

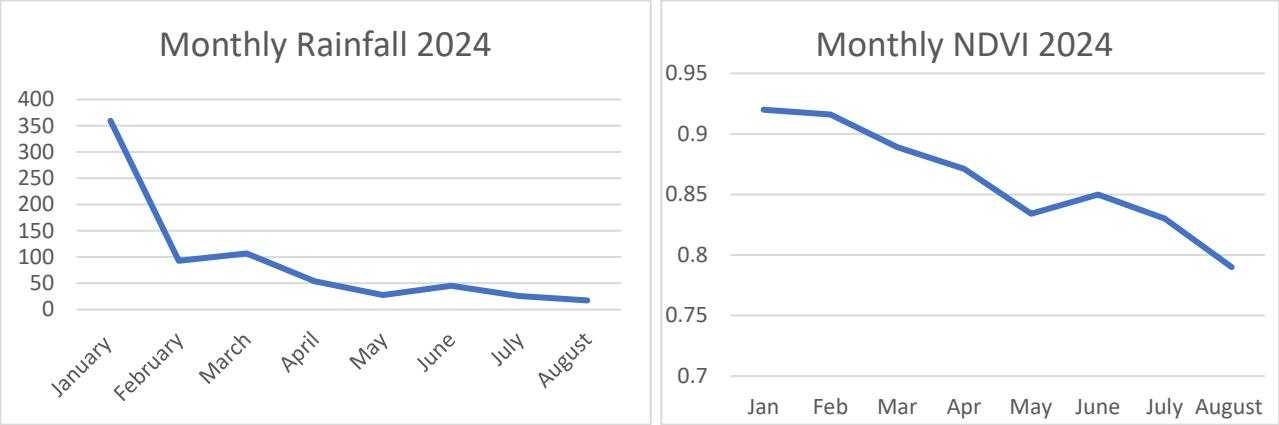



HAWAAN FOREST CONSERVATION TRUST

AFRICAN WOOD OWL
Sirix woodfordii
(uKhozikhova)




Climatic data (August 2024)





Prescribed burning scar 2024



Avifauna of the Hawaan Forest



HAWAAN FOREST CONSERVATION TRUST

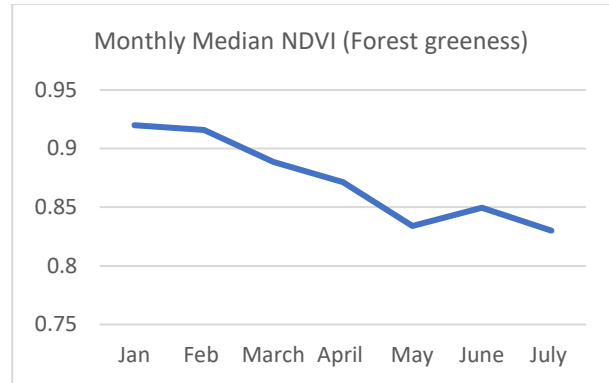
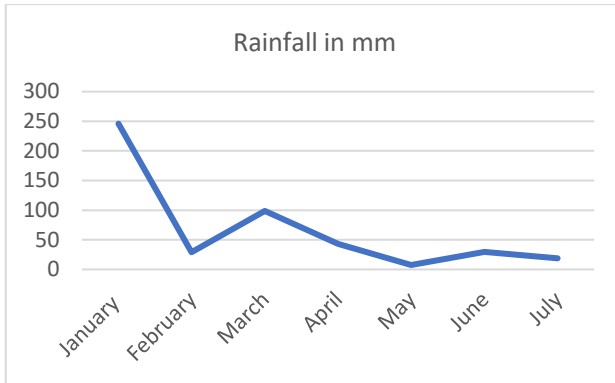
TAMBOURINE DOVE
Turtur tympanistris
(iHobc)



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BLACK SPARROW HAWK
Accipiter melanoleucus
(uMtingeli omnyama)





Antelope of the Hawaan Forest

HAWAAN FOREST
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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

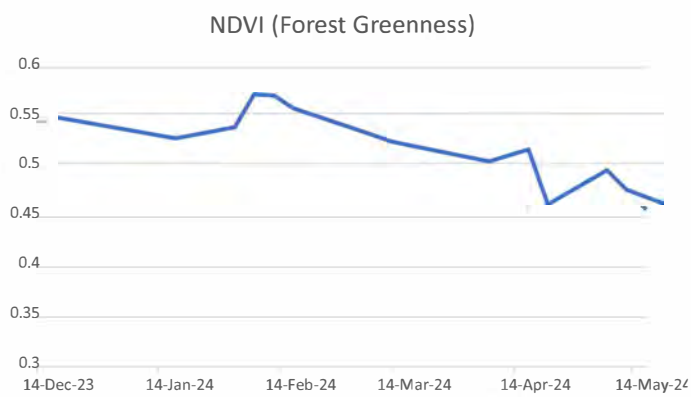
BUSH BUCK
(MALE)
Tragelaphus sylvaticus
(intakajwanemnyama)

HAWAAN FOREST
CONSERVATION TRUST

BLUE DUIKER
(FEMALE & FAWN)
Philantomba monticola
(iNkankani)

HAWAAN FOREST
CONSERVATION TRUST

BLUE DUIKER
(MALE)
Philantomba monticola
(iNkankani)



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



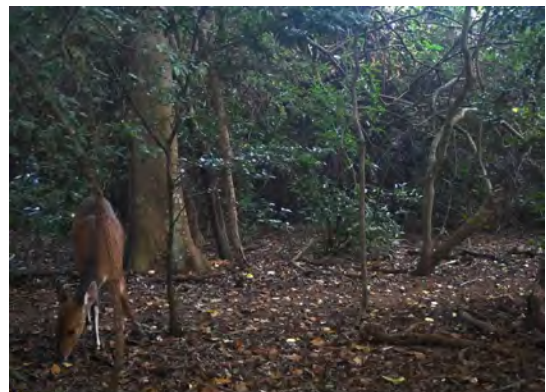
Vervet monkeys have been enjoying the fresh water provided HCT at the Bushshrike water point



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



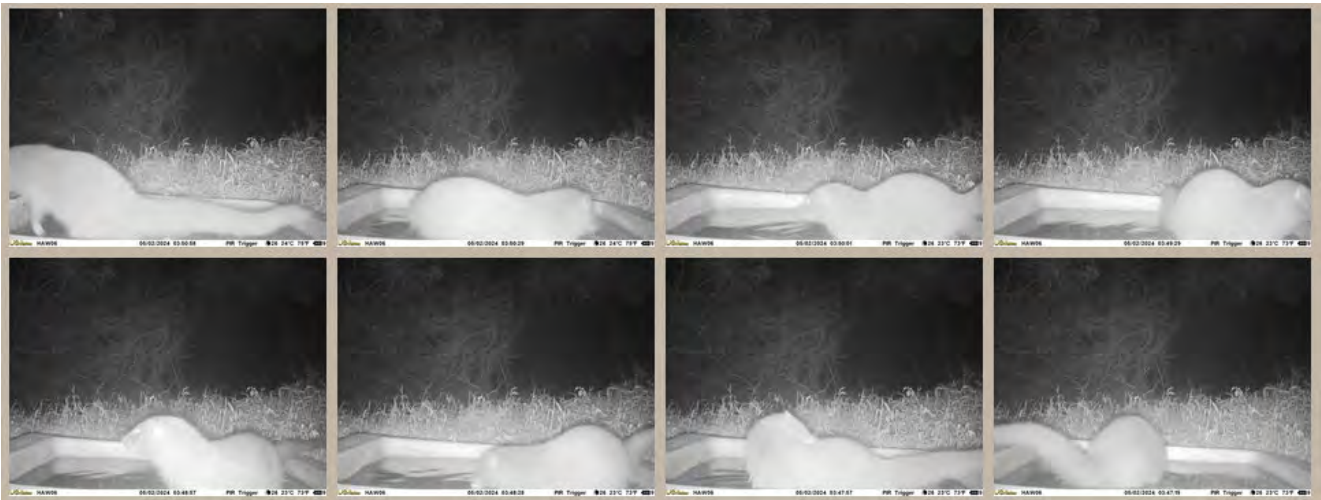
Red Duiker



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/

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

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

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

Scale: 1:2000
Date: Council Report 2010

Legend
 Parcels
 Study Area

DEVELOPMENT PLANNING
ENVIRONMENT & MANAGEMENT UNIT

BIODIVERSITY BRANCH
 Created by: Lucky murebe
 Tel Number: 081 311 7940
 Email address: murebe@luckybiodiversity.co.za
 Peta C: ven luckybiodiversity@2010-2009 Richard

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