

Population Monitoring And Surveillance Of Pickersgill's Reed Frog To Assess Responses To Conservation Management Interventions At Four Coastal Wetlands

Symposium Of Contemporary Conservation Practice, 2016



Jiba Magwaza Threatened Amphibians Programme Intern



CELEBRATING

Introduction

- Amphibians are currently the most threatened
 - class of vertebrate on earth
- Frogs are important:
- Food chain

CELEBRATING

- Bio-indicators
- Flagships for freshwater





Pickersgill's Reed Frog (Hyperolius pickersgilli)

Background

- Critically Endangered
- BMP-S (October)
- Endemic to KZN
- Monitoring



ENDANGE

DLIFE TRUST

www.ewt.org.za





Monitoring-Song Meters

- National Resource Management Project
- Mt Moreland
- Widenham
- Isipingo
- Adams Mission
- Benchmark Simbithi





Monitoring- Song Meters





Monitoring-Song Meters

Simbithi Eco Estate: Benchmark site



Monitoring-Song Meters

Simbithi Eco Estate: Benchmark site





> Mt Moreland:





Froggy Pond wetland in Mount Moreland; Froggy Pond is a 7.78ha reed marsh



Mt Moreland: Disturbance units with impact ratings for flow distribution and retention.



Mt Moreland: Disturbance units with impact ratings for vegetation



Mt Moreland: Methods







Mt Moreland

Activities / Land Uses that Reduce Water Inputs	Extent (Ha)	Extent of Catchment (%)
Sugarcane (Active)	1.08	0.33%
Irrigated lands	0	0%
Alien vegetation	85.95	26.22%
Plantations	0	0%
Dams	0	0%
Activities / Land Uses that Increase Water Inputs	Volume (m3)	Extent of Catchment MAR (%)
Waste water overflows	Not available	Assumed to be 5% of natural inputs
Leaking water and/or sewer infrastructure	Not available	Assumed to be 1% of natural inputs
Mount Moreland septic tanks	Not available	Assumed to be 4% of natural inputs
Hardened surfaces	84.23	Assumed to be 5% of natural inputs
Activities / Land Uses that Increase Flood Peaks	Extent (Ha)	Extent of Catchment (%)
Hardened surfaces	84.23	25.69% (assumed 50% attenuation by KSIA detention dam)
Bare surfaces & Poor veld (recently abandoned cane land)	133.47	40.71%



Social Engagement

School Surveys



Social Engagements

NRM Team Attitude Surveys





Way forward

Stewardship And Community Agreements



Acknowledgements

- **Pictures:** Ryan Edwards, Nick Evans, Cherise Acker, Jeanne Tarrant.
- Sponsors and Partners:



Traditional values. Innovative ideas.

ENDANGERED WILDLIFE TRUST

EVATION IN ACTIO

5.45

CELEBRATING









Department: Environmental Affairs REPUBLIC OF SOUTH AFRICA





Questions?





Thank you

