



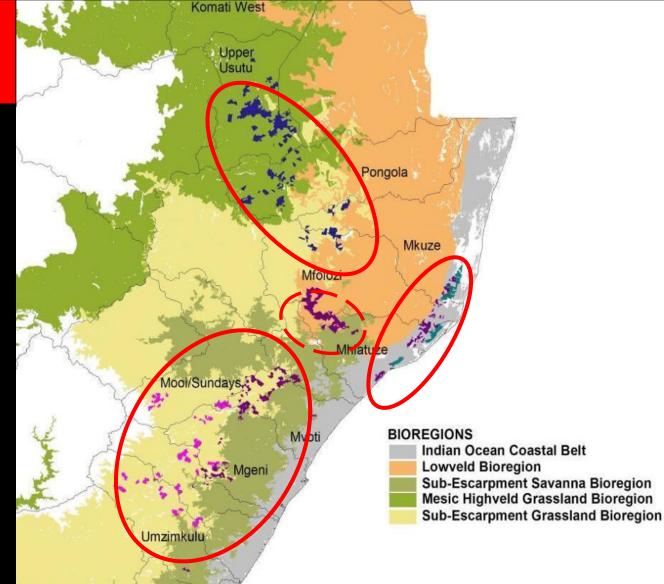


Making Science Real -Using State of Environment Reporting to Improve Practice

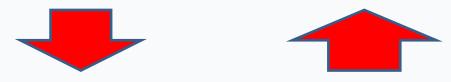
## **Objective: overview of health & functionality of Mondi's priority wetlands & recommend mgt**

#### The challenge

- 350 000ha land
  20 000ha wetland
  5 bioregions
- Priority wetlands
   largely unknown
- Research must lead to improved practice







#### Mondi State of the Wetlands

#### Report

A Health and Ecosystem Services Assessment of a Selection of Priority Wetlands across Mondi Landholdings



Wetland Management Series

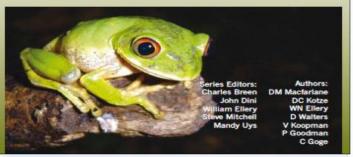
Science

based

tools



WRC Report TT 340/08 February 2008



#### Wetland Management Series

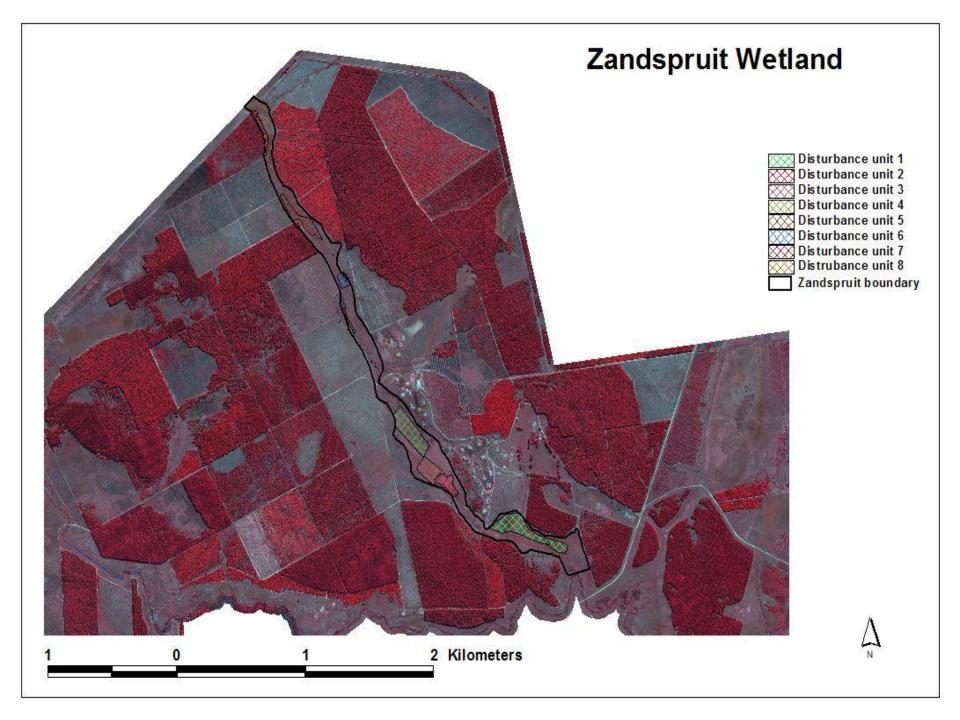
#### WEI-EcoServices

A technique for rapidly assessing ecosystem services supplied by wetlands



Authors: Donovan Kotze Gary Marneweck Allan Batchelo David Lindley Nacelle Collins

Series Editors: Charles Breen John Dini, William Ellery Steve Mitchell Mandy Uys



#### **Plantation in wetland**

#### Cattle grazing

Alien invasive plants

**Crops in wetland** 

## Health scores of some wetlands assessed

				-
Wetland	Hydrology	Geomorph	Vegetation	Overall score
Inverness	<b>C</b> (→)	A (→)	B (↓)	B (→)
Homesdale	<b>C</b> (→)	A (→)	D (→)	<b>C</b> (→)
Langepan	D (↓)	B (↓)	B (↓)	<b>C</b> (↓)
Canewoods	E (→)	A (→)	E ( <b>↑</b> )	D ( <b>↑</b> )
Nyalzi Pan	<b>D</b> (→)	<b>A</b> (→)	<b>D(→)</b>	<b>D</b> (→)
Zoar Vlei	<b>D</b> (→)	A (↓)	<b>C</b> (→)	<b>C</b> (→)
Zoar Pan	D (→)	A (→)	A (→)	<b>C</b> (→)
Zandspruit	<b>C</b> (↓)	A (→)	<b>C</b> (→)	<b>C</b> (→)
Brecher	D (→)	C (→)	D (↑)	D (→)

Impact level	Present	
	state	
None	Α	
Small	В	
Moderate	С	
Large	D	
Serious	E	
Critical	F	

Predicted change@ current mgt				
Substantial	$\uparrow$			
improvement	1			
Slight	1			
improvement				
Remain stable	$\rightarrow$			
Slight	<b>1</b>			
deterioration				
Substantial	$\downarrow$			
deterioration	<b>1</b>			

### Examples of the Goods & Services provided by the wetlands

	Regulating Services			Support Services	Provisioning Services		
Wetland	Streamf	Toxicant	Carbon	Biodiversity	Water	Harvestable	Cultivated
	low	assim.	storage	maintenance	supply	resources	foods
	reg.						
Inverness	**	**	***	****	***	****	**
Homesdale	****	**	***	****	*****	**	*
Langepan	****	***	****	****	**	**	*
Canewood	**	*	**	*	*	*	*
Nyalzi Pan	****	**	**	****	**	*	**
Zoar Vlei	***	**	**	***	**	****	****
Zoar Pan	***	*	***	****	*	**	*
Zandspruit	****	**	***	****	**	****	****
Brecher	***	**	**	**	***	****	***

## Key management issues revealed by the

## **State of the Wetlands Report**

Management Region	Grazing pressure	Fire regime	Alien plants	Cultivation	Roads	Delineation
Midlands	••	••		N/A	•••	
Zululand coastal	•••	•••	•••	N/A	•••	•••
Northern KZN and southern Mpumalanga			•••	•••	•••	•••



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- = Significant impact. Significant management challenge.
- = Some impact. Going reasonably, but room for improvement
- = Relatively low impact, going well.



## Discussing recommended Practice

# Key elements for translating wetland science into practice

1. Don't offer turn-key solutions rather **co-develop** the report

with the partner/client

- 2. The process can be as or more important than the product
- 3. You need to work together to learn together– Socially Robust Knowledge!!
- 4. This strengthens partnership relations