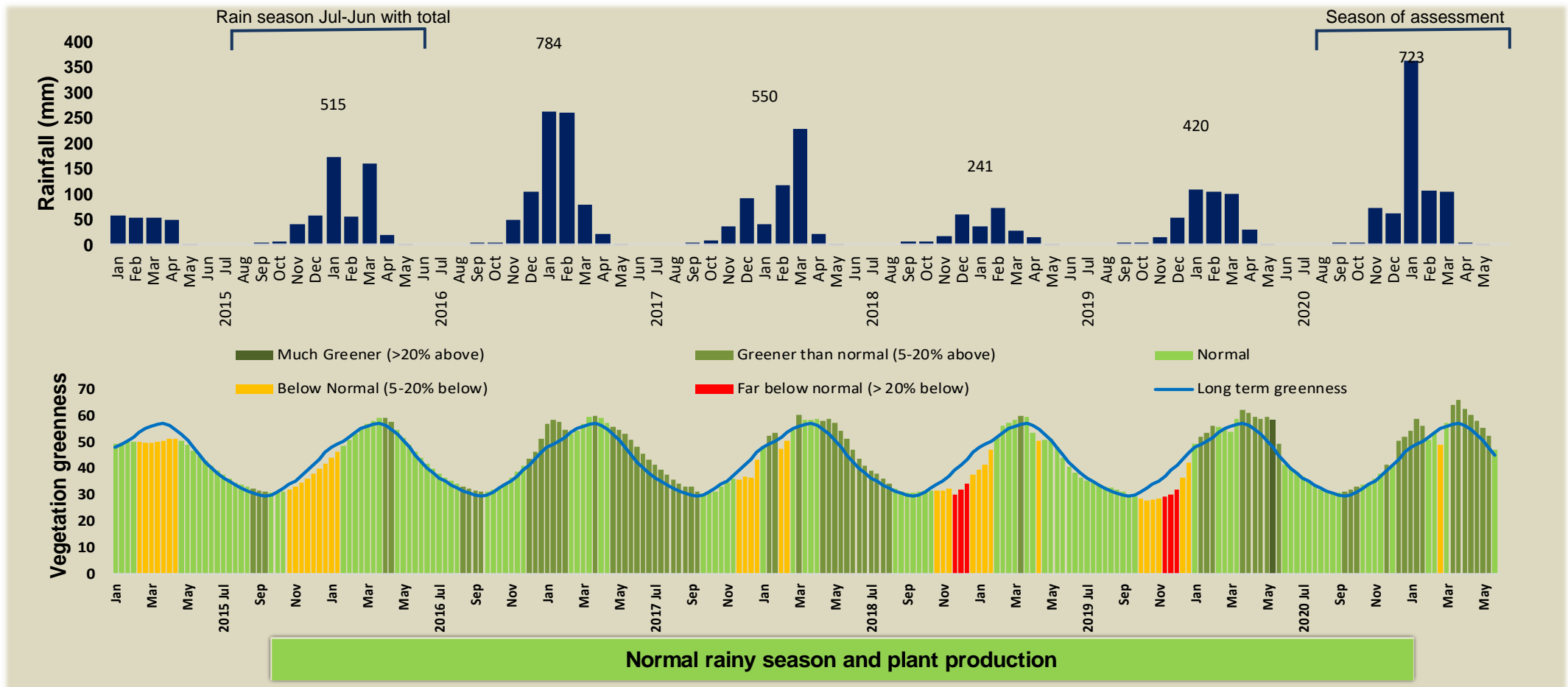# Muduva Nyangana
# Climate and Vegetation Report
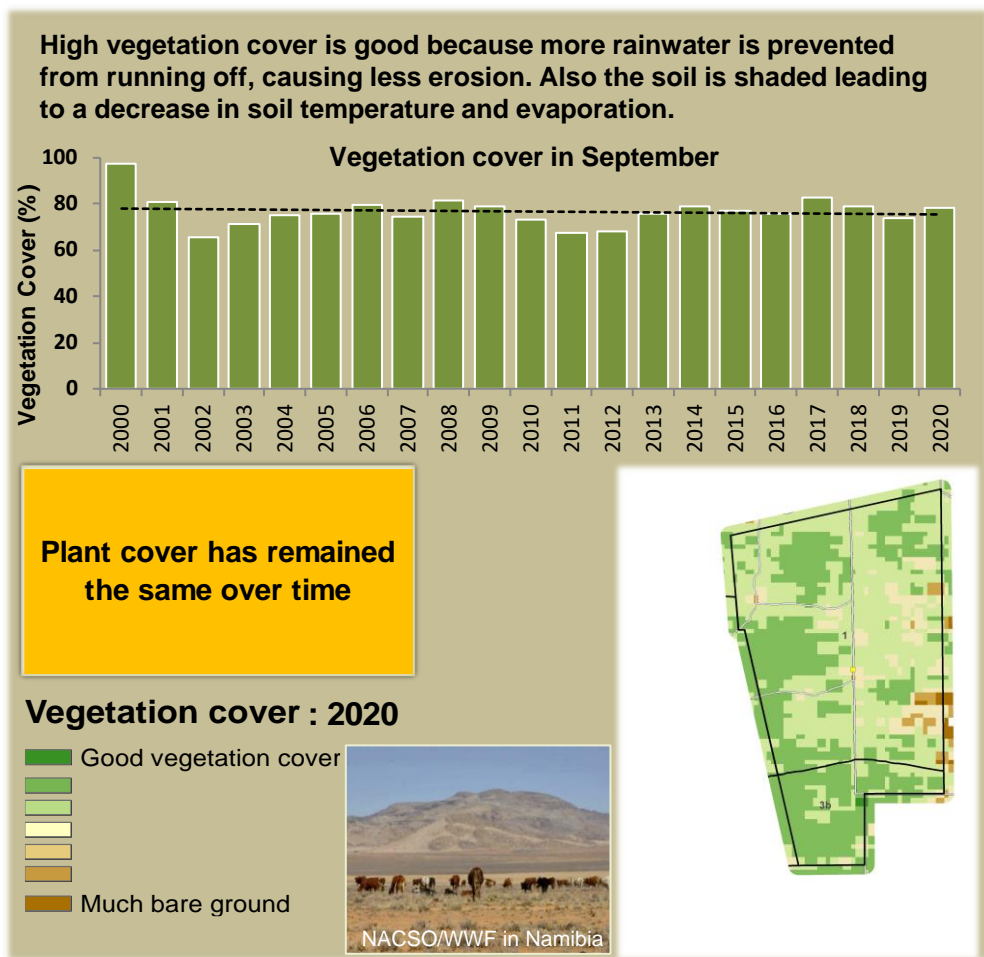
## Adapting in response to the current environmental conditions …
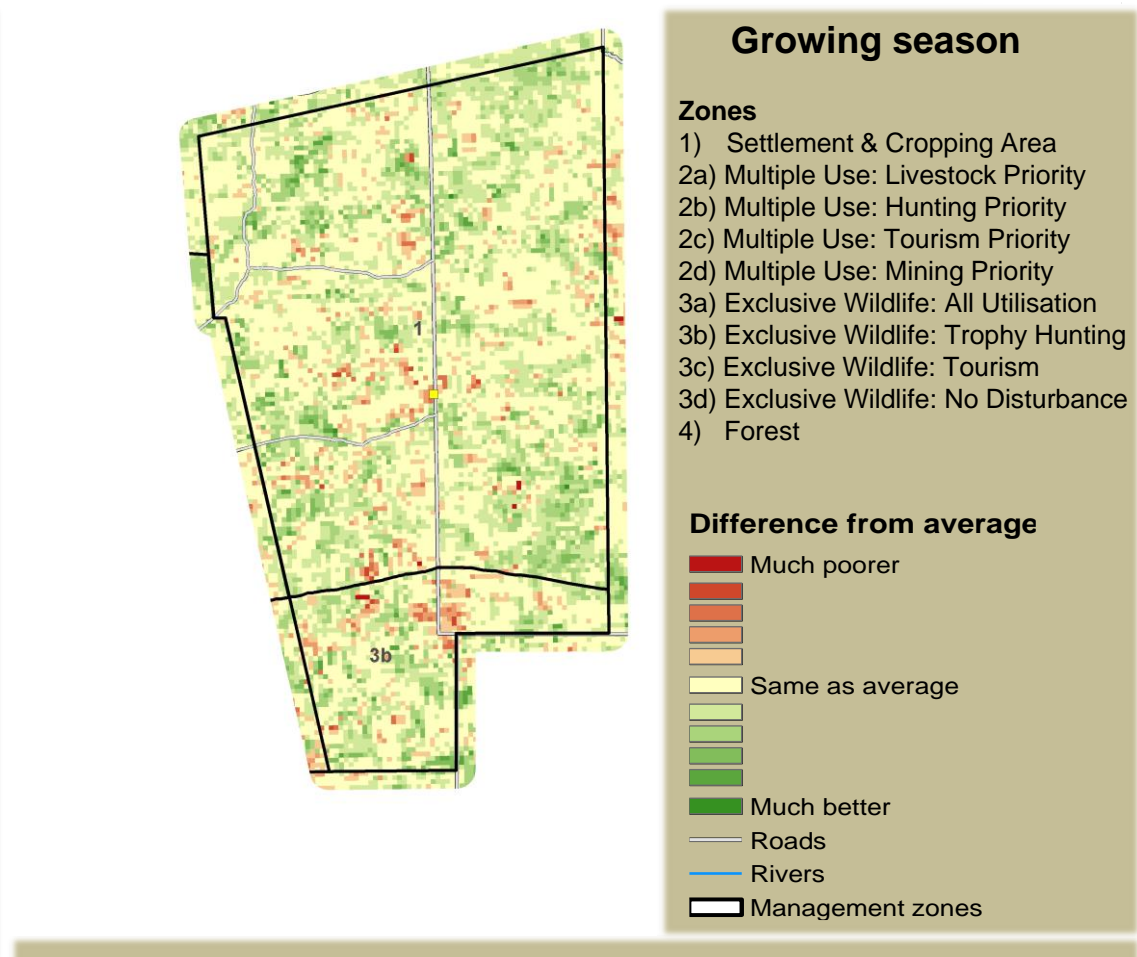
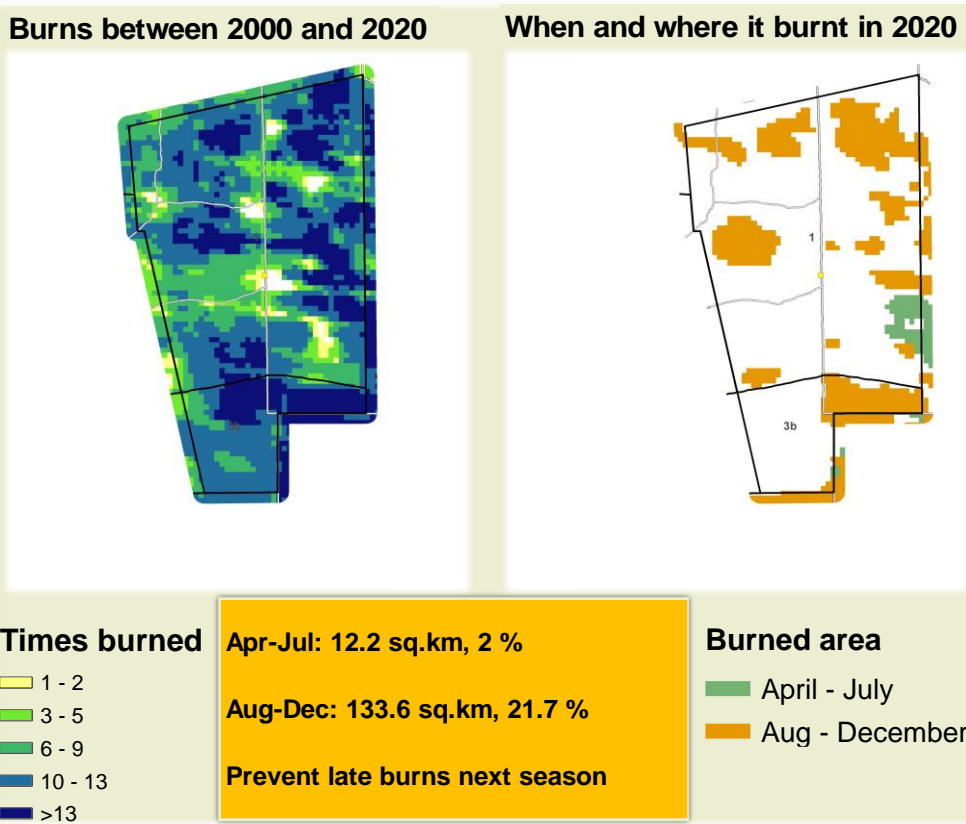### Seasonal trends in rainfall and vegetation (2020 / 2021 Season)



Rain season Jul-Jun with total

Season of assessment

Rainfall (mm): 515   784   550   241   420   723

- Much Greener (>20% above)
- Greener than normal (5-20% above)
- Normal
- Below Normal (5-20% below)
- Far below normal (> 20% below)
- Long term greenness

**Normal rainy season and plant production**

### Vegetation cover trend (2000 - 2020)

High vegetation cover is good because more rainwater is prevented from running off, causing less erosion. Also the soil is shaded leading to a decrease in soil temperature and evaporation.

**Vegetation cover in September**



**Plant cover has remained the same over time**

#### Vegetation cover : 2020

- Good vegetation cover
- Much bare ground

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### Vegetation productivity (February to April) 2021

#### Growing season

**Zones**
1) Settlement & Cropping Area
2a) Multiple Use: Livestock Priority
2b) Multiple Use: Hunting Priority
2c) Multiple Use: Tourism Priority
2d) Multiple Use: Mining Priority
3a) Exclusive Wildlife: All Utilisation
3b) Exclusive Wildlife: Trophy Hunting
3c) Exclusive Wildlife: Tourism
3d) Exclusive Wildlife: No Disturbance
4) Forest

**Difference from average**
- Much poorer
- Same as average
- Much better
- Roads
- Rivers
- Management zones



### Fire management

**Burns between 2000 and 2020**

**When and where it burnt in 2020**



**Times burned**
- 1 - 2
- 3 - 5
- 6 - 9
- 10 - 13
- >13

**Apr-Jul: 12.2 sq.km, 2 %**

**Aug-Dec: 133.6 sq.km, 21.7 %**

**Prevent late burns next season**

**Burned area**
- April - July
- Aug - December

### Forage availability

During the growing season enough forage must be produced to sustain livestock and game until the next rainy season

**Management Options**
-Do nothing
-Buy more animals
-Move animals to better grazing
-Sell old and unproductive animals
-Acquire additional forage



Excellent — normal — Very poor

2015  2016  2017  2018  2019  2020  2021

**Normal forage availability**

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Climate and vegetation patterns assist in our understanding of the status of wildlife and livestock in the conservancy for the effective management of these resources.