FORAGE REPORT: GROUND COVER

http://www.longpaddock.qld.gov.au/forage *March 1, 2017* *Lot on Plan: 3MZ594* *Label: Sample*

Queensland Government

Introduction

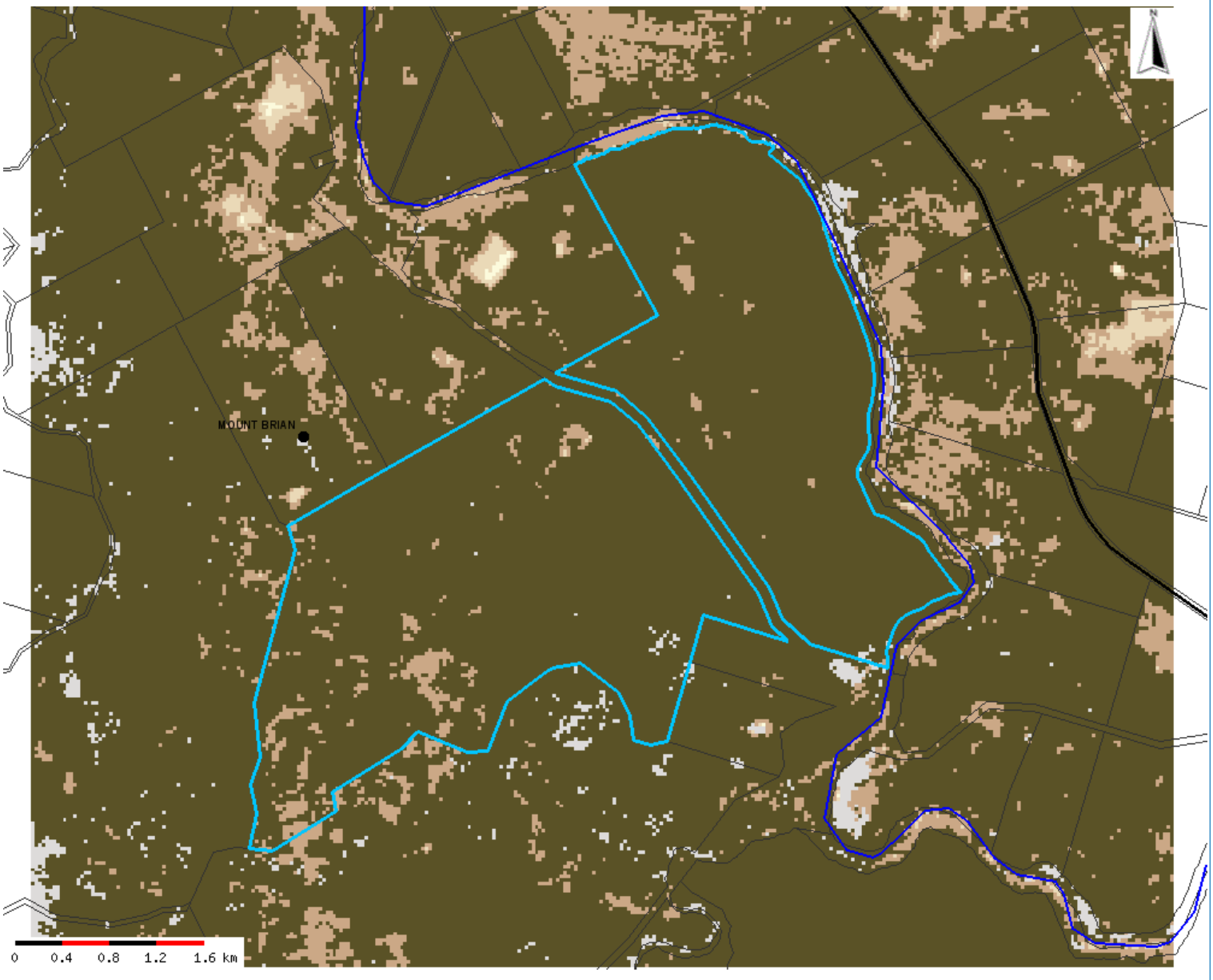
This report presents three ground cover information products: (i) a ground cover map for the chosen season; (ii) a minimum ground cover map for the period 1986 to 2013; and, (iii) a graph showing the historical time series of seasonal ground cover. The maps and historical time series graph are generated from the ground cover products which are produced by the Queensland Government's Remote Sensing Centre using Landsat satellite image data from the United States Geological Survey.

Background information of the Lot on Plan

Latitude/longitude: -25.67/151.75
Total land area : 1670 ha
Long-term annual mean temperature : 20.8 °C
Last 12-month rainfall : 454.3 mm
Local government: North Burnett Regional
Average woody vegetation cover: 14.5%
Long-term annual mean rainfall : 700.7 mm
Last month rainfall: 9.5 mm

Location map

Ground cover map (The image is for the period from September 2016 to November 2016)



Ground cover map summary

The seasonal ground cover map shows the level of ground cover for areas on the Lot on Plan with less than 60% tree cover. The image is for the period from September 2016 to November 2016. The percentage of the total area of the Lot on Plan for 4 ranges of ground cover levels are summarised below:

Cover levels	<30%	30 - 50%	50 - 70%	>70%
Percentage out of the total area	0.0	0.0	3.4	96.6

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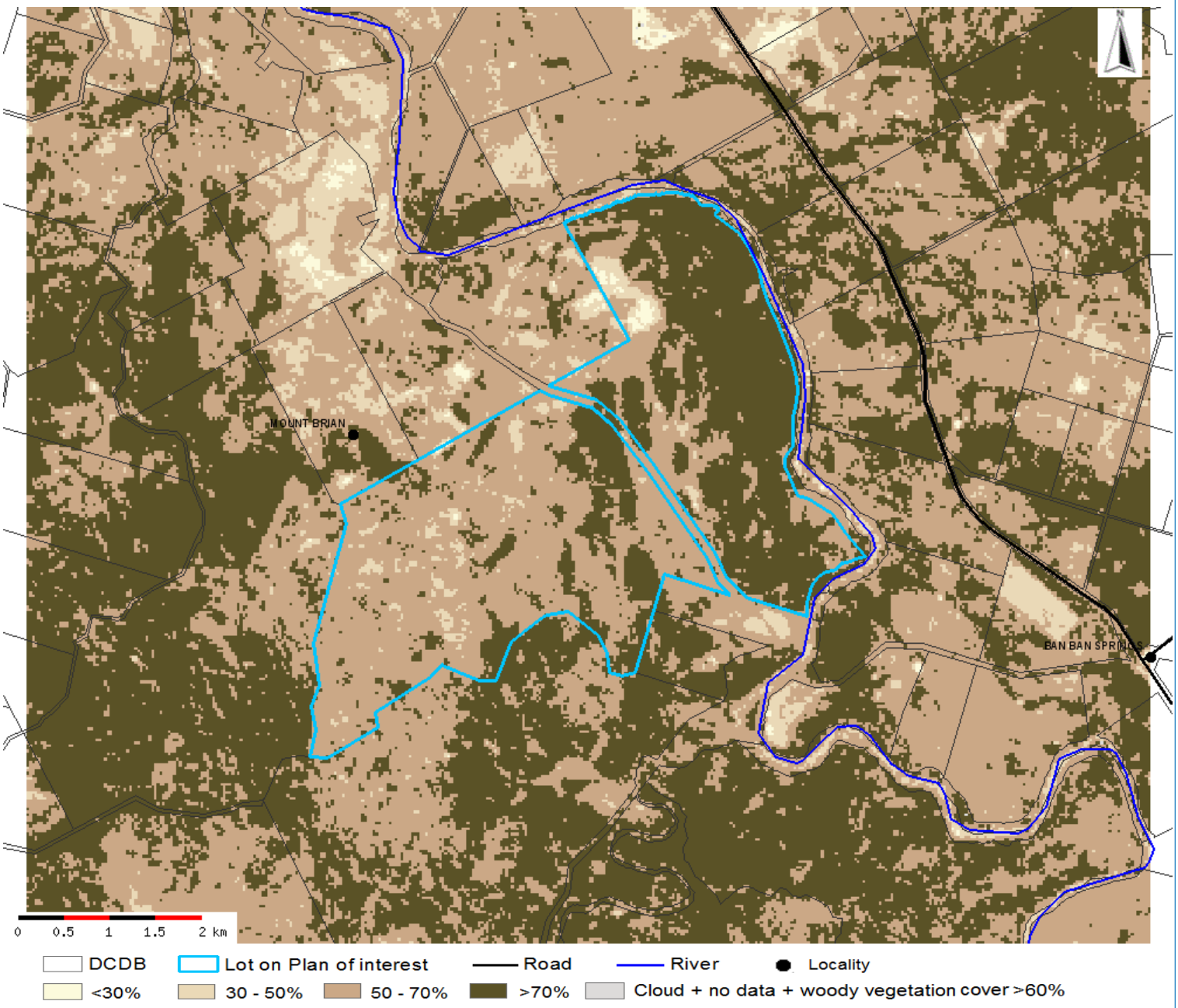
Minimum ground cover map for 1987 to 2013



Minimum ground cover map summary

The minimum seasonal ground cover map shows the lowest level of cover for the Lot on Plan which has been measured in the period 1986 to 2013. This map is useful for showing areas that may be vulnerable to low ground cover. The percentage of the total area of the Lot on Plan for 4 ranges of minimum ground cover levels are summarised below:

Cover levels	<30%	30 - 50%	50 - 70%	>70%
Percentage out of the total area	0.5	3.8	53.9	41.9

Data source

The data used to generate the maps and the fractional cover graph are from Landsat ground cover images produced by the Queensland Government's Remote Sensing Centre.

Disclaimer

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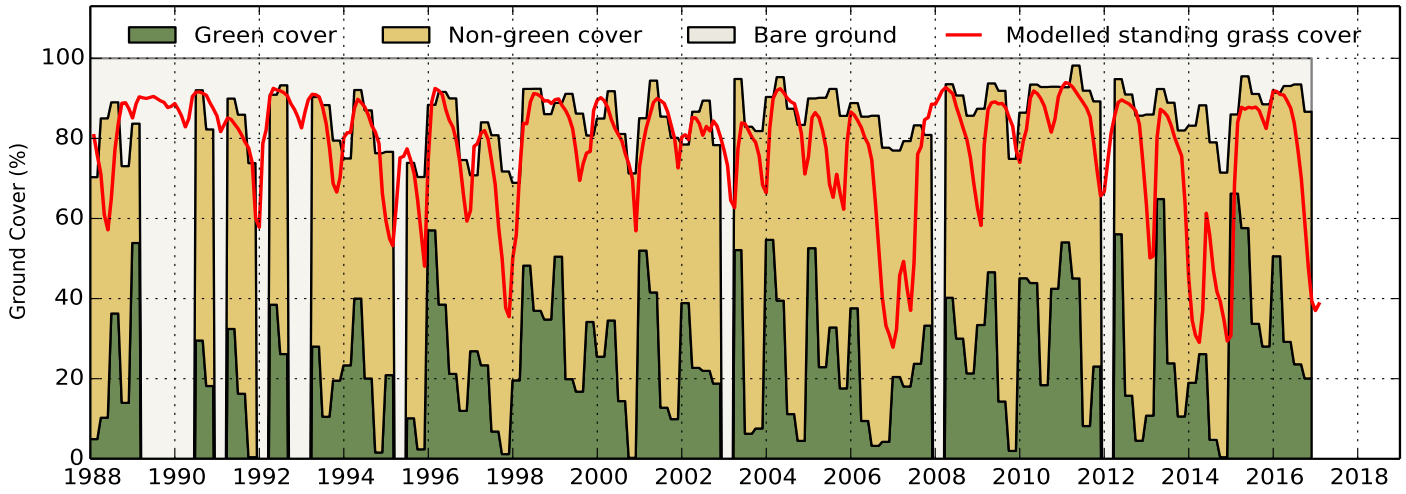
Seasonal ground cover time series graph



About the seasonal ground cover time series graph

The time series graph shows the seasonal levels of ground cover for the Lot on Plan from 1988 to present. The ground cover level is also separated in the green and non-green components of the total level of ground cover. Gaps may occur on the graph where there was insufficient satellite data to derive a valid seasonal estimate of ground cover (e.g. due to persistent cloud over a season). The solid red line on the graph represents modelled seasonal average standing grass cover for the Lot on Plan. This is derived from the AussieGRASS model. It is included to provide an indication of the amount of the measured ground cover that is likely to be standing grass cover. The satellite-derived estimates of ground cover include all cover components, and therefore does not distinguish between standing grass cover and litter on the ground, particularly in the non-green component.