

OUDABUNNA STATION - Remotely Sensed Regional Development Information for June 2024: Vegetation, Ground Cover and Rainfall

Introduction

This Pastoral Remote Sensing Report is a summary of information derived from the Pastoral Remote Sensing application. It provides information on: normalised difference vegetation index (NDVI), a measure of greenness; total green biomass (TGB); total ground cover (TGC); total dry matter (TDM) and rainfall to date.

Vegetation estimates are based on general assumptions derived from satellite data and are not accurate enough to use for setting exact stocking rates on your property. Use your own observations or measurements to calibrate the information.

The charts in this report give a good indication of trends and value compared to other years, which provides a guide for pasture and grazing management.

The online Pastoral Remote Sensing application has maps and detail at the land system (paddock) level. A good internet connection with adequate bandwidth is required to use the application at prs.dpird.wa.gov.au.

Current Situation Summary

Vegetation and rainfall traffic light rating and percentile dashboard

	NDVI	TGB	IGC	IDM	Rainfall
Traffic Rating and Percentile#	68.4	68.4	68.4	26.3	<u> </u>
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 $^{^{\#}}$ The percentile figure is the percentage of years since 2004 that had values lower than the current year at the same time of the year. Green indicates the current value is in the highest 33% of all years, orange indicates the current value is in the middle 33% of all years and red is in the lowest 33% of all years.

Ground Cover Dashboard

	Green	Dry	Bare Total
	Vegetation	Vegetation	Ground Vegetation
Percentage Cover	21	51	28 72

The above table shows the percentage of green vegetation, dry/dead vegetation, bare ground and the total vegetation cover. Red indicates the current value of total vegetation cover is less than 30%, green indicates the current value is greater than 50% and orange is in between.

Summary	Season	- Season to		
	10th (low)	50th (median)	90th (high)	Date
Total Dry Matter (kg/ha)	216	391	903	289
Rainfall (mm)	133	204	325	208

^{*}A percentile is used to indicate where a value lies within the range of historically measured records.

Dashboard

Normalised Difference Vegetation Index



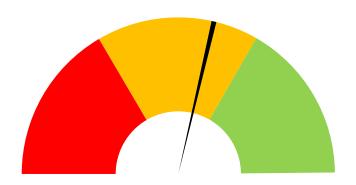
Estimated Total Green Biomass



Estimated Total Ground Cover



Overall



Modelled Cumulative Total Dry Matter



Cumulative Estimated Rainfall



Images and Charts of season to date compared to previous seasons

Figure 1 Estimated Fractional Cover Map

Figure 2 Estimated Total Vegetation Cover Map

Figure 3 Normalised Difference Vegetation Index

Figure 4 Estimated Total Green Biomass

Figure 5 Estimated Total Ground Cover

Figure 6 Estimated Fractional Ground Cover

Figure 7 Modelled Cumulative Total Dry Matter

Figure 8 Cumulative Estimated Rainfall

Definitions

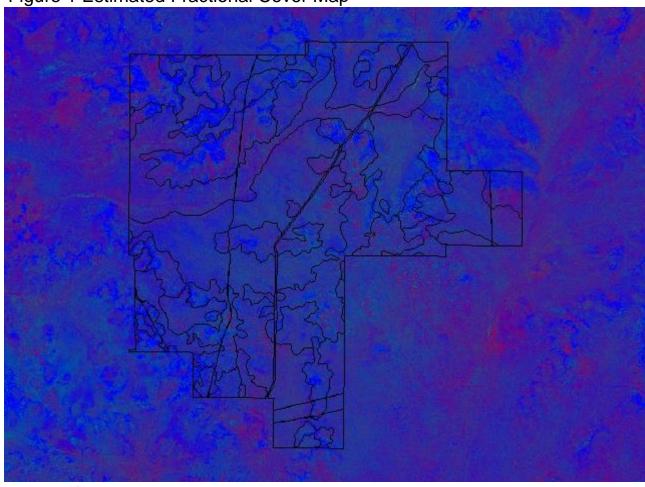
Normalised Difference Vegetation Index (NDVI): a satellite-derived index of greenness seen by the satellite. Essentially, NDVI is an indication of the amount of green vegetation.

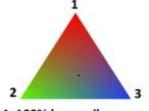
Total Green Biomass (TGB): an estimation of how much green vegetation (in kg dry matter per hectare) is available.

Total Ground Cover (TGC): an estimate of the percentage of the ground that is covered in vegetation (both green and dry).

Total Dry Matter (TDM): an estimate of the gross primary production, or the total amount of vegetation (in kg dry matter per hectare) that was grown over the growing season.

Figure 1 Estimated Fractional Cover Map

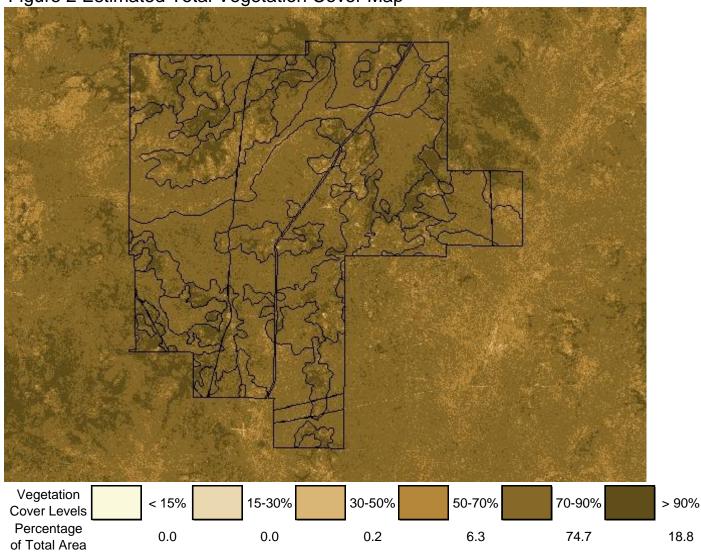




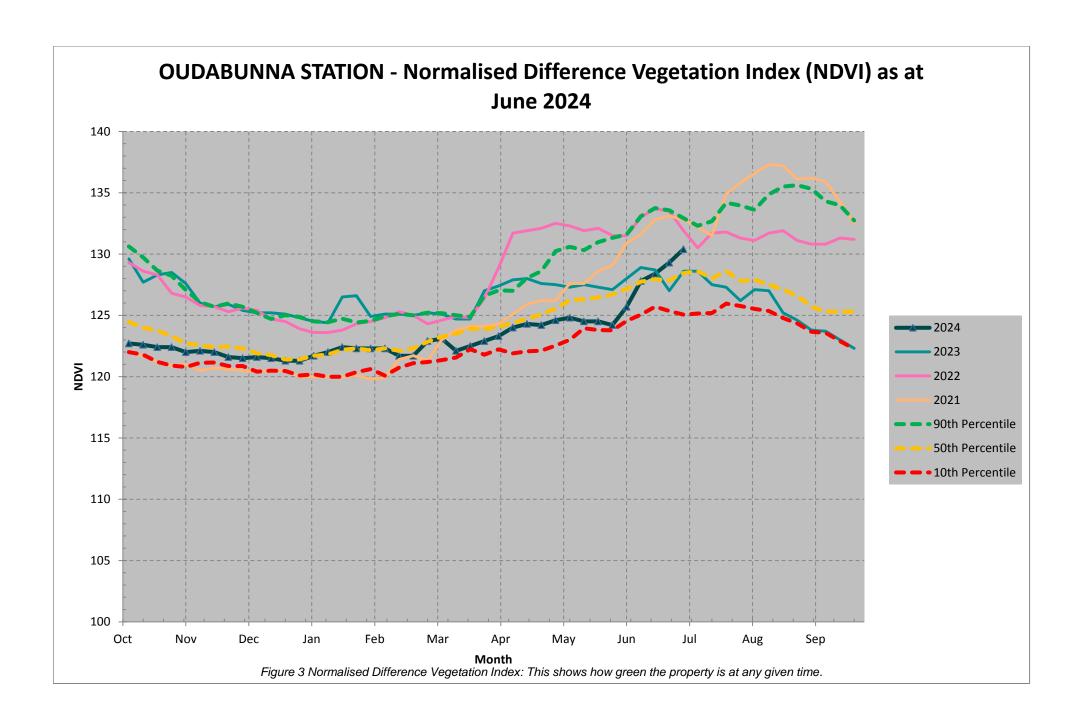
- 1 100% bare soil
- 2 100% green vegetation
- 3 100% dry vegetation

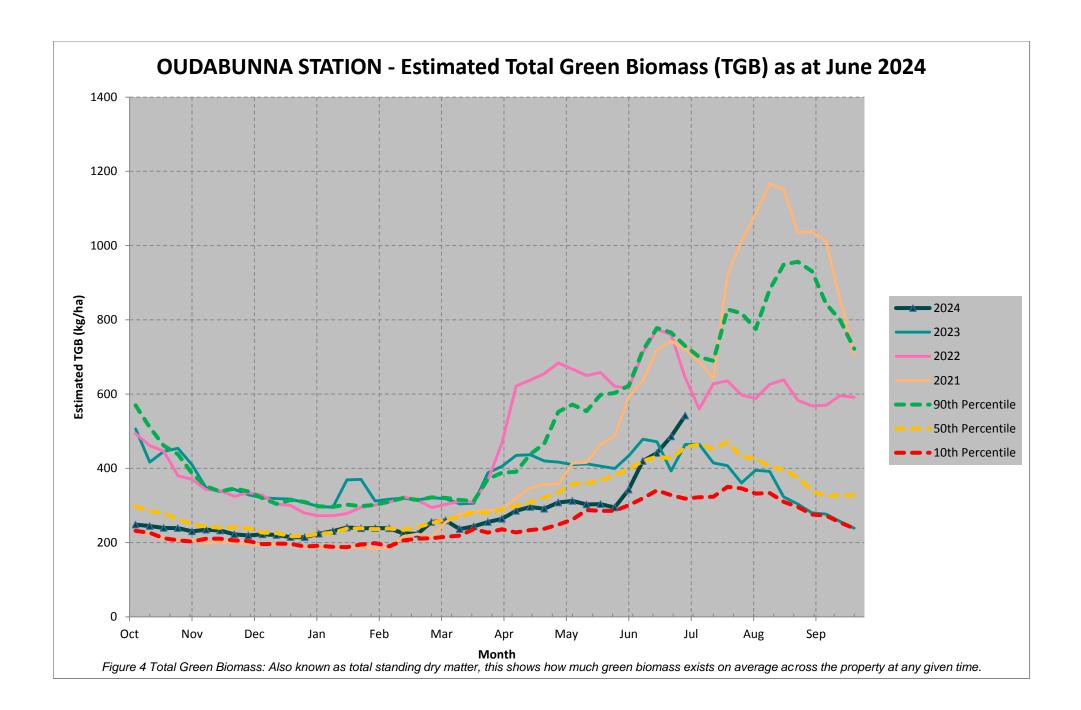
Regions in white were obscured by cloud or covered by water when the satellites were overhead.

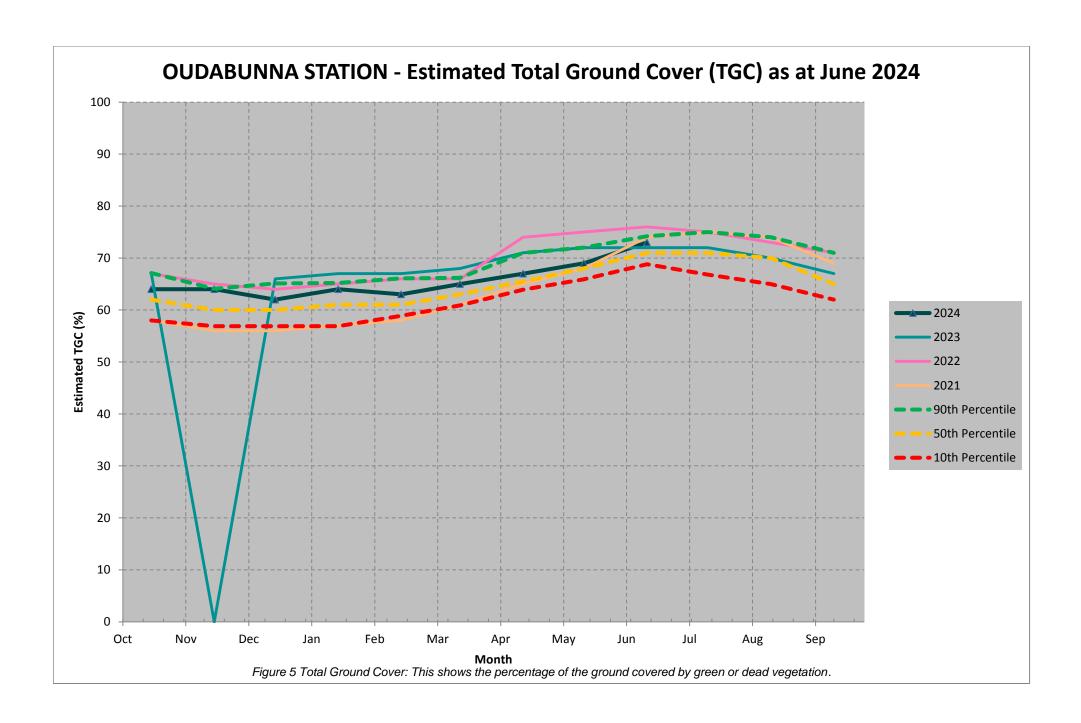
Figure 2 Estimated Total Vegetation Cover Map

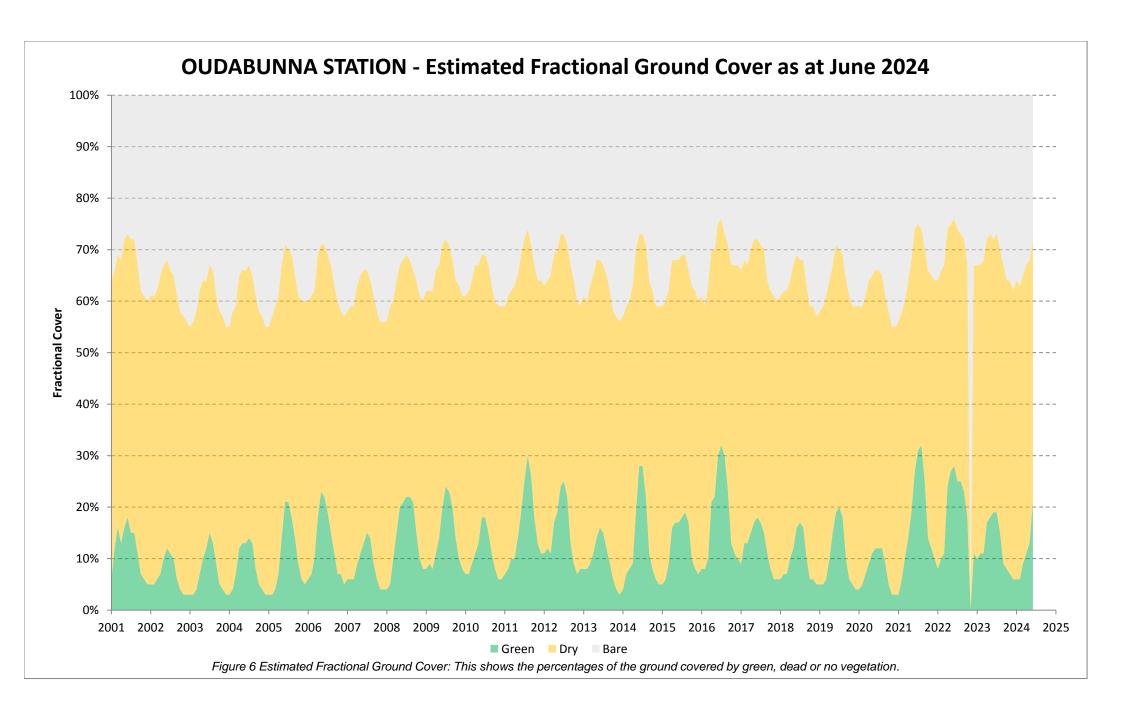


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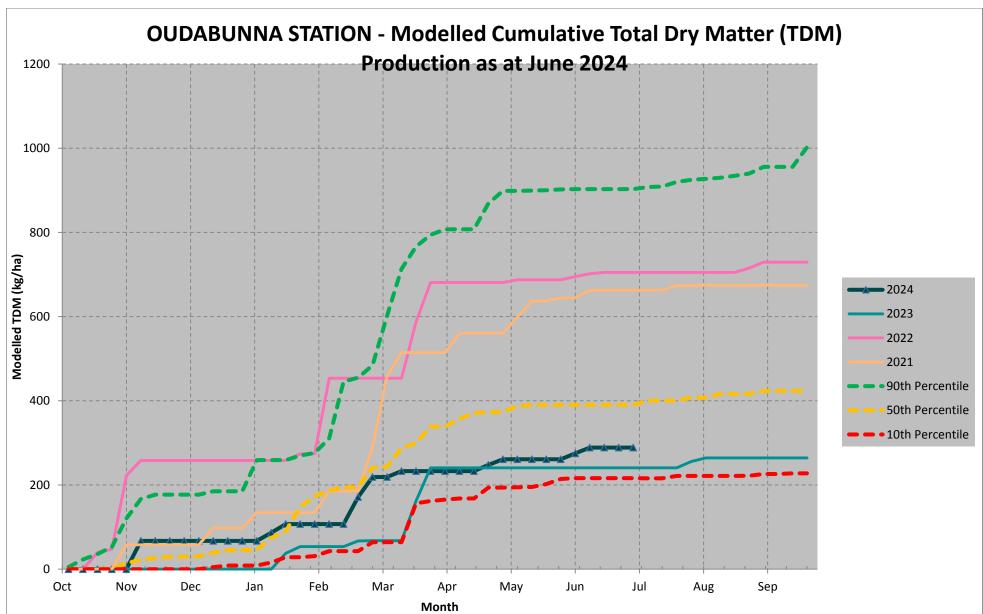
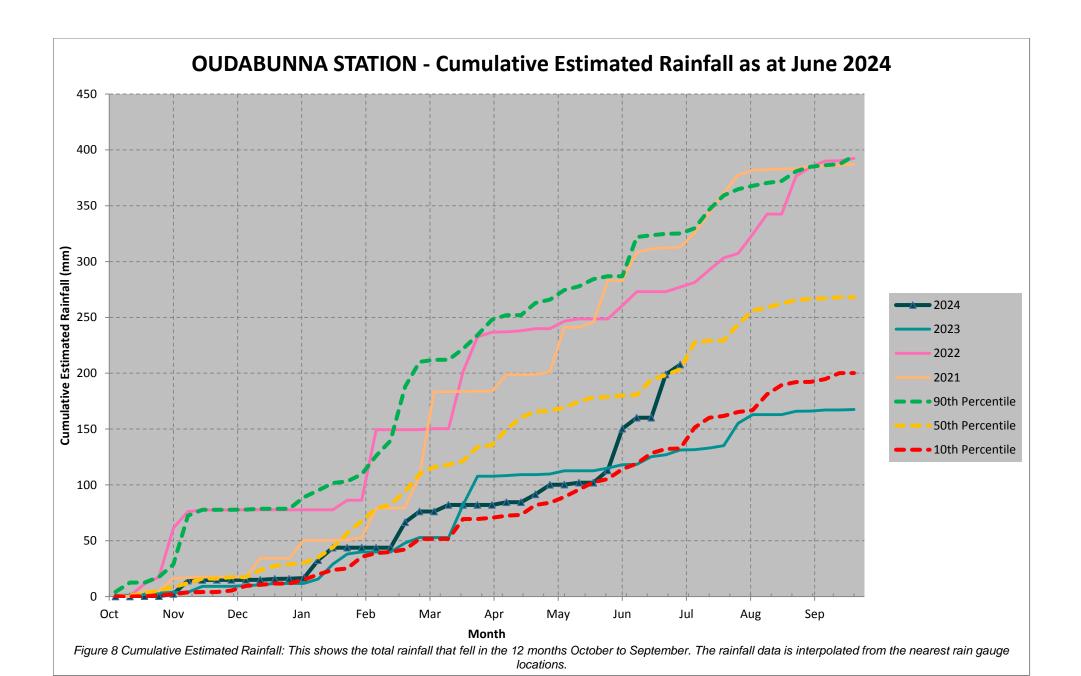


Figure 7 Cumulative Total Dry Matter: Also known as gross pasture production or total pasture growth, this shows the cumulative or total grass growth in the 12 months October to September.



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Imagery/maps are provided to assist in the location of pastoral stations and land systems only. They do not provide real-time information and should not be relied on as such.