

# CARRANYA STATION - Remotely Sensed Information for February 2025: 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](http://prs.dpird.wa.gov.au).


## Current Situation Summary

Vegetation and rainfall traffic light rating and percentile dashboard

	NDVI	TGB	TGC	TDM	Rainfall
Traffic Rating and Percentile <sup>#</sup>	 95	 90	 90	 25	 15

<sup>#</sup>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 Vegetation	Dry Vegetation	Bare Ground	Total Vegetation
Percentage Cover	20	34	46	 54

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.

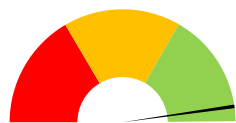
## Summary

	Season to Date Percentile*			Season to Date
	10th (low)	50th (median)	90th (high)	
Total Dry Matter (kg/ha)	736	1290	1914	931
Rainfall (mm)	267	458	613	295

\*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



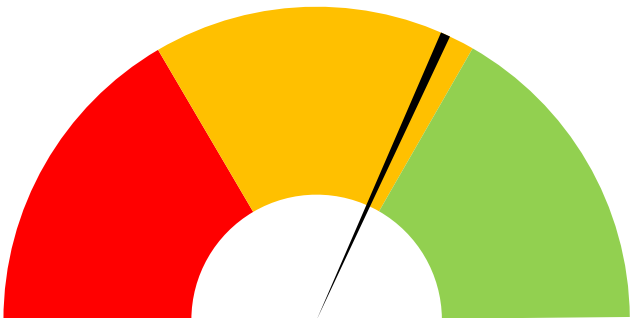
Modelled Cumulative Total Dry Matter



Cumulative Estimated Rainfall



Overall



## 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

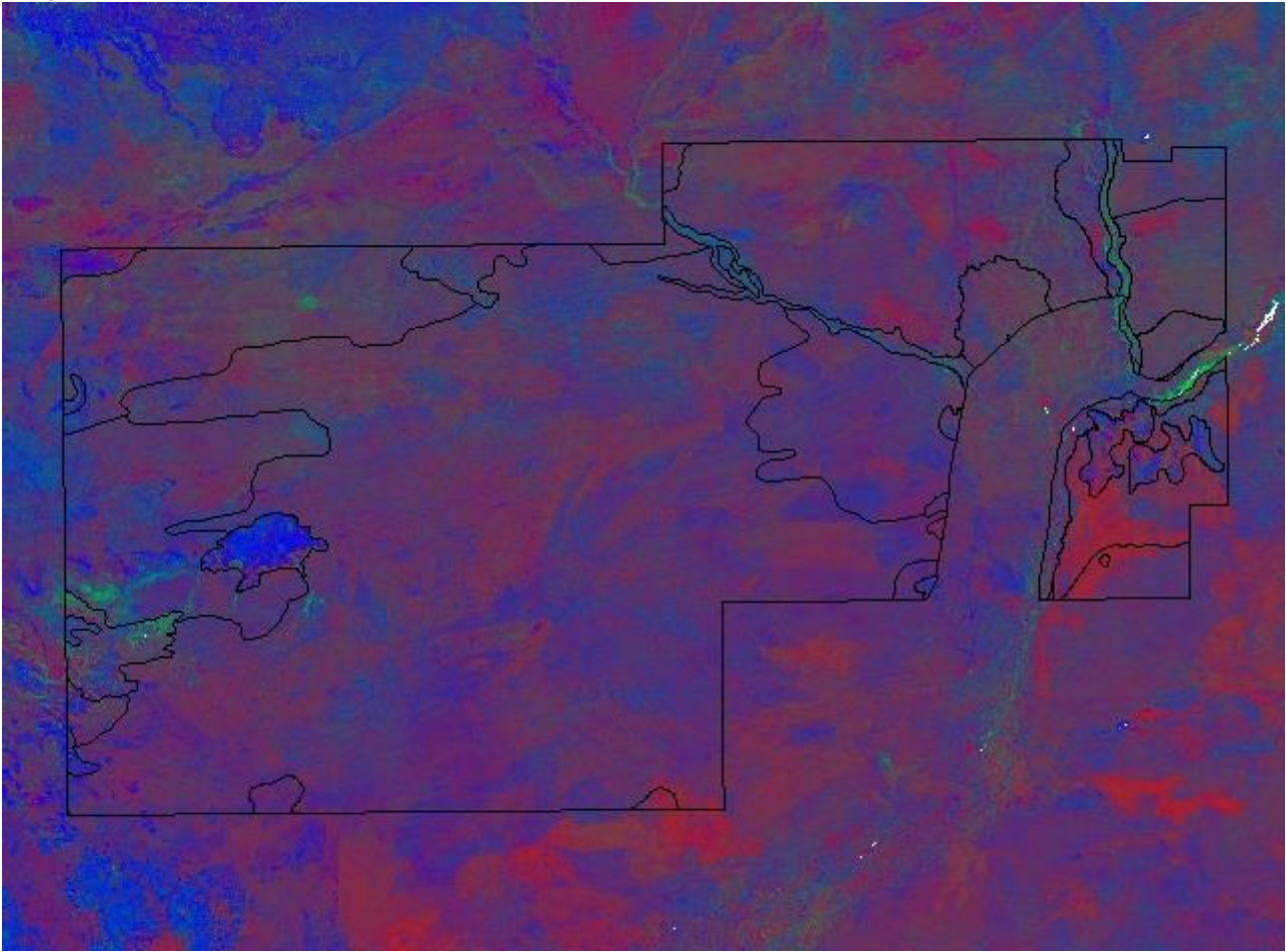
Normalised Difference Vegetation Index (NDVI): a satellite-derived index of greenness seen by the satellite. Essentially, NDVI is an indication of the amount of green vegetation.

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).

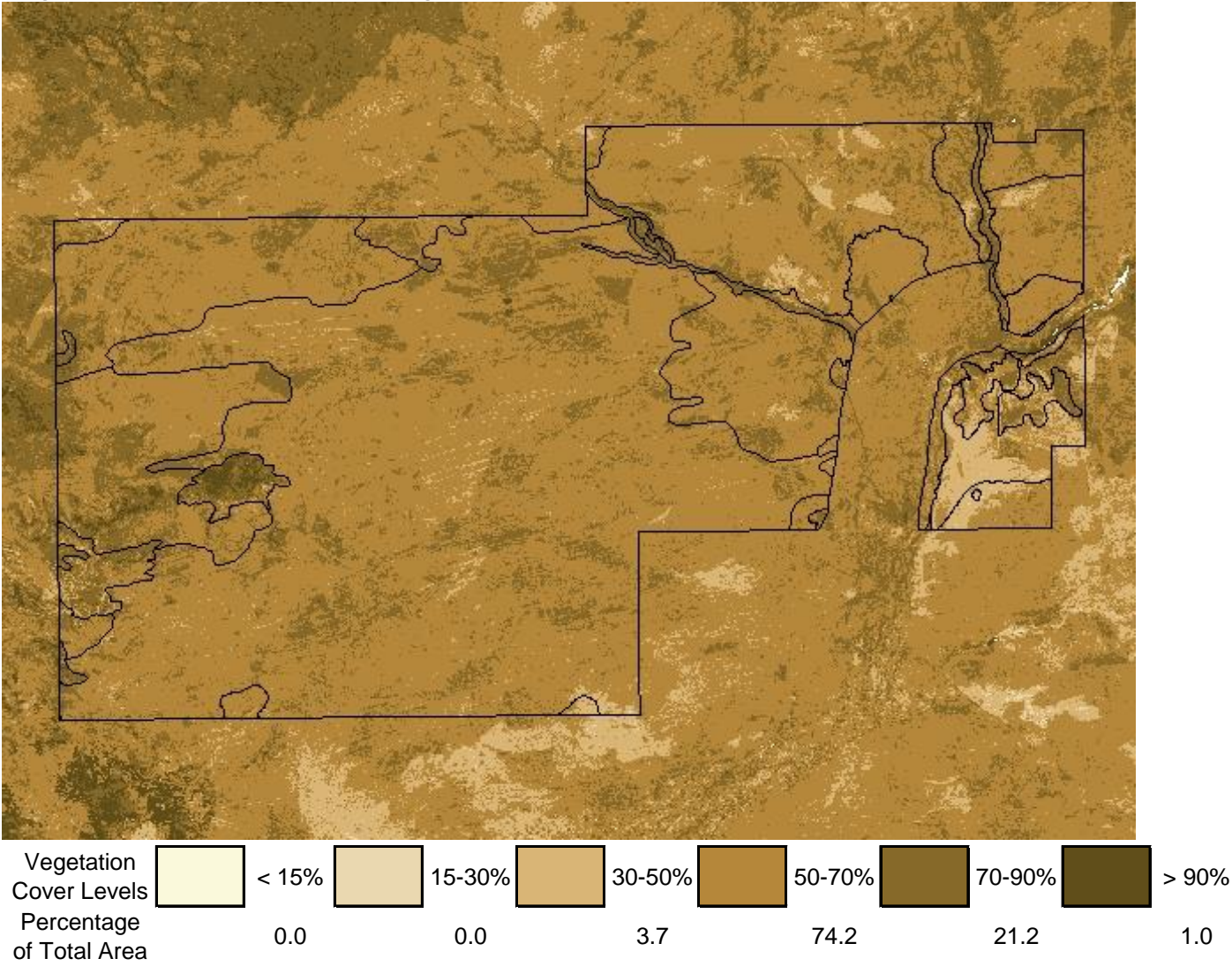
Total Dry Matter (TDM): an estimate of the gross primary production, or the total amount of vegetation (in kg dry matter per hectare) that was grown over the growing season.

Figure 1 Estimated Fractional Cover Map



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

Figure 2 Estimated Total Vegetation Cover Map



## CARRANYA STATION - Normalised Difference Vegetation Index (NDVI) as at February 2025

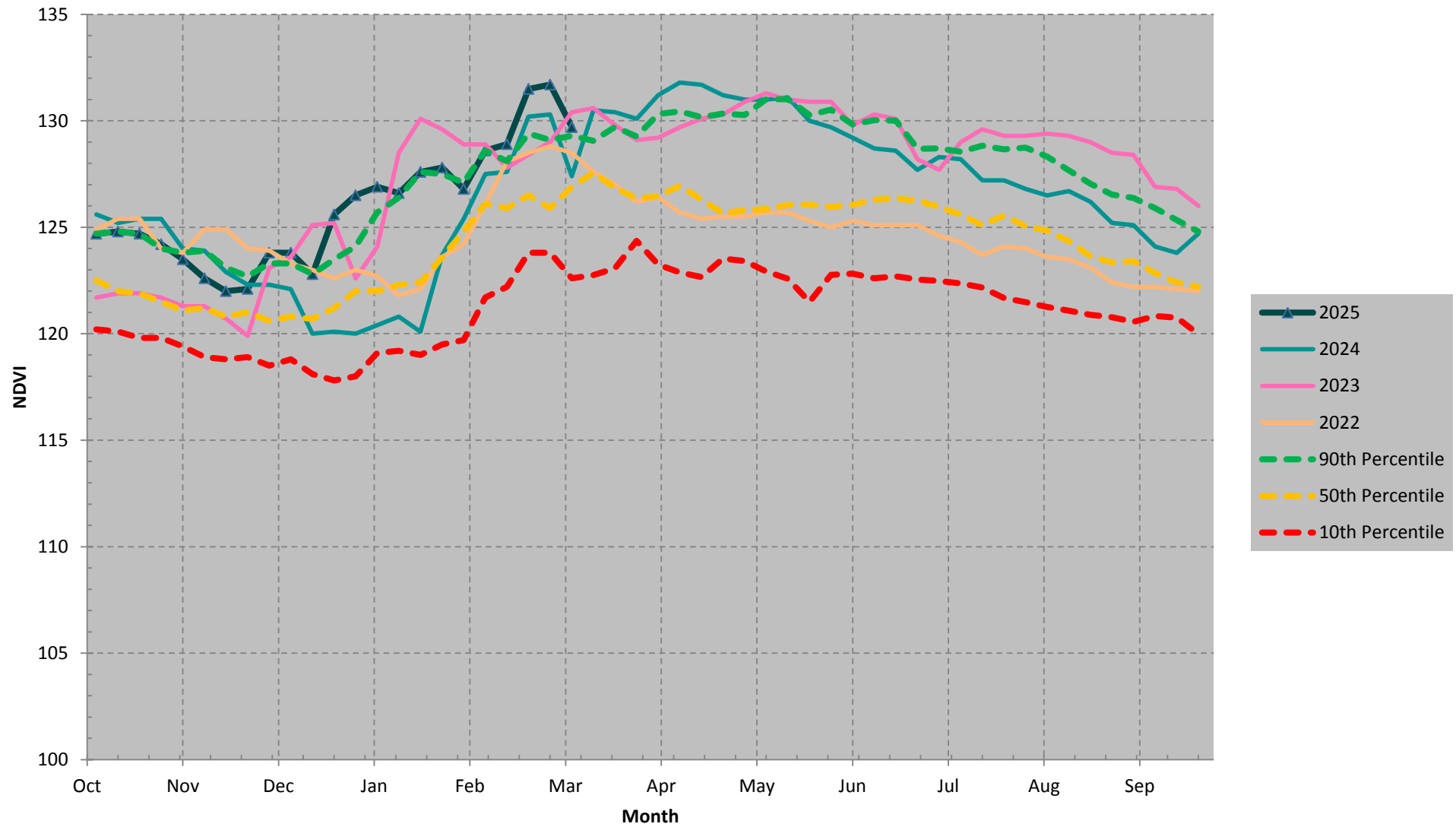


Figure 3 Normalised Difference Vegetation Index: This shows how green the property is at any given time.



## CARRANYA STATION - Estimated Total Green Biomass (TGB) as at February 2025

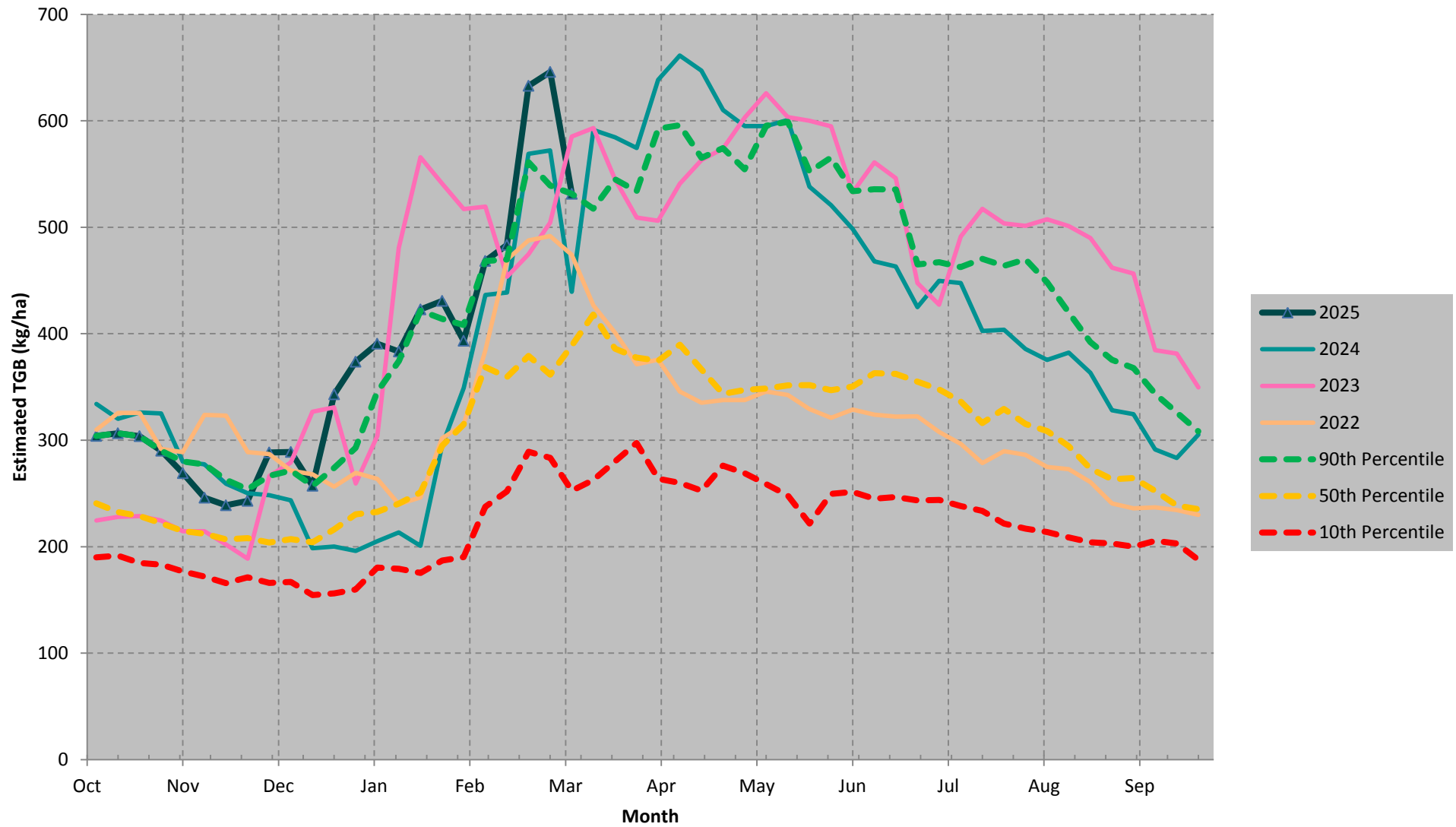


Figure 4 Total Green Biomass: Also known as total standing dry matter, this shows how much green biomass exists on average across the property at any given time.

## CARRANYA STATION - Estimated Total Ground Cover (TGC) as at February 2025

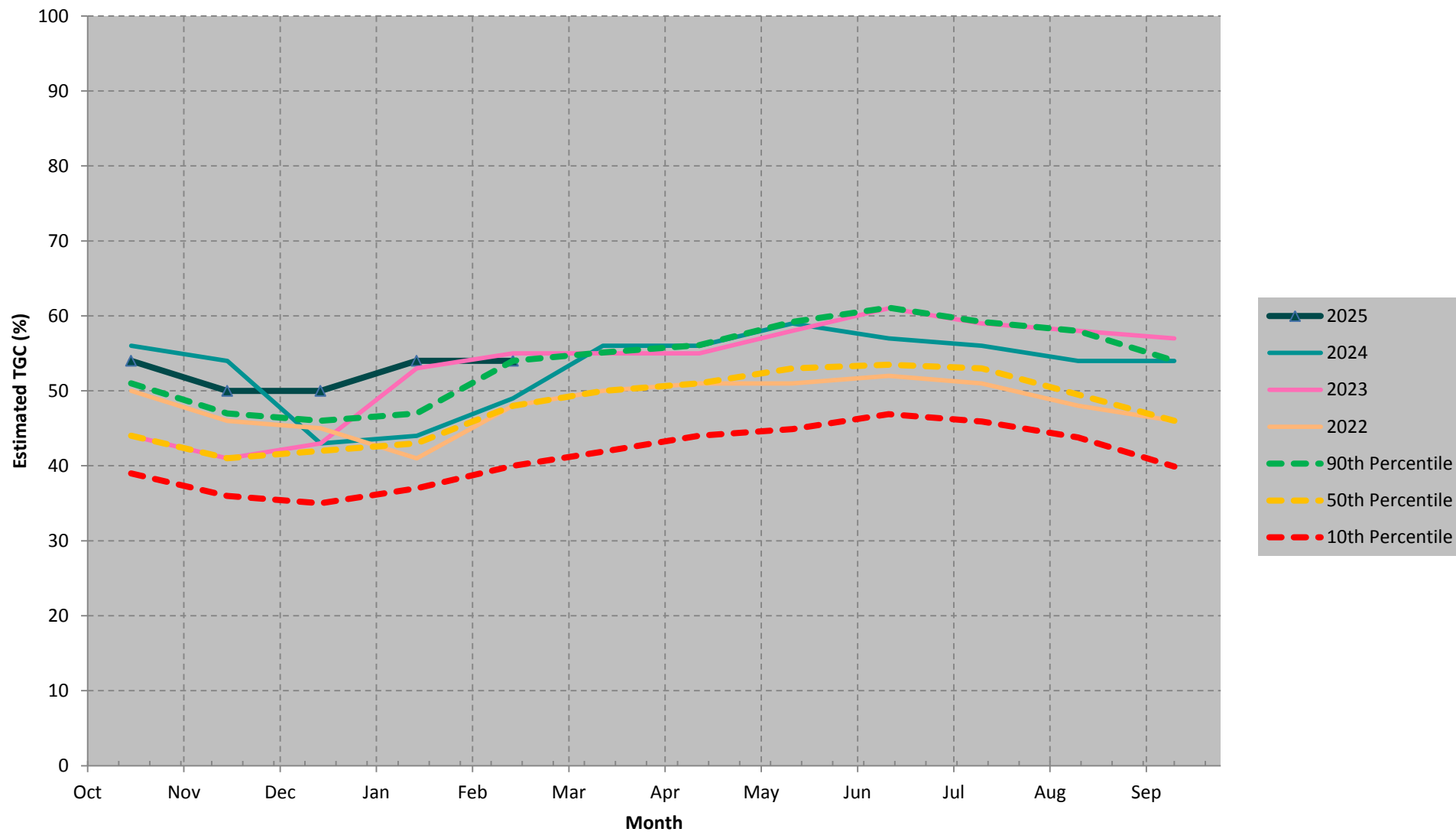


Figure 5 Total Ground Cover: This shows the percentage of the ground covered by green or dead vegetation.



# CARRANYA STATION - Estimated Fractional Ground Cover as at February 2025

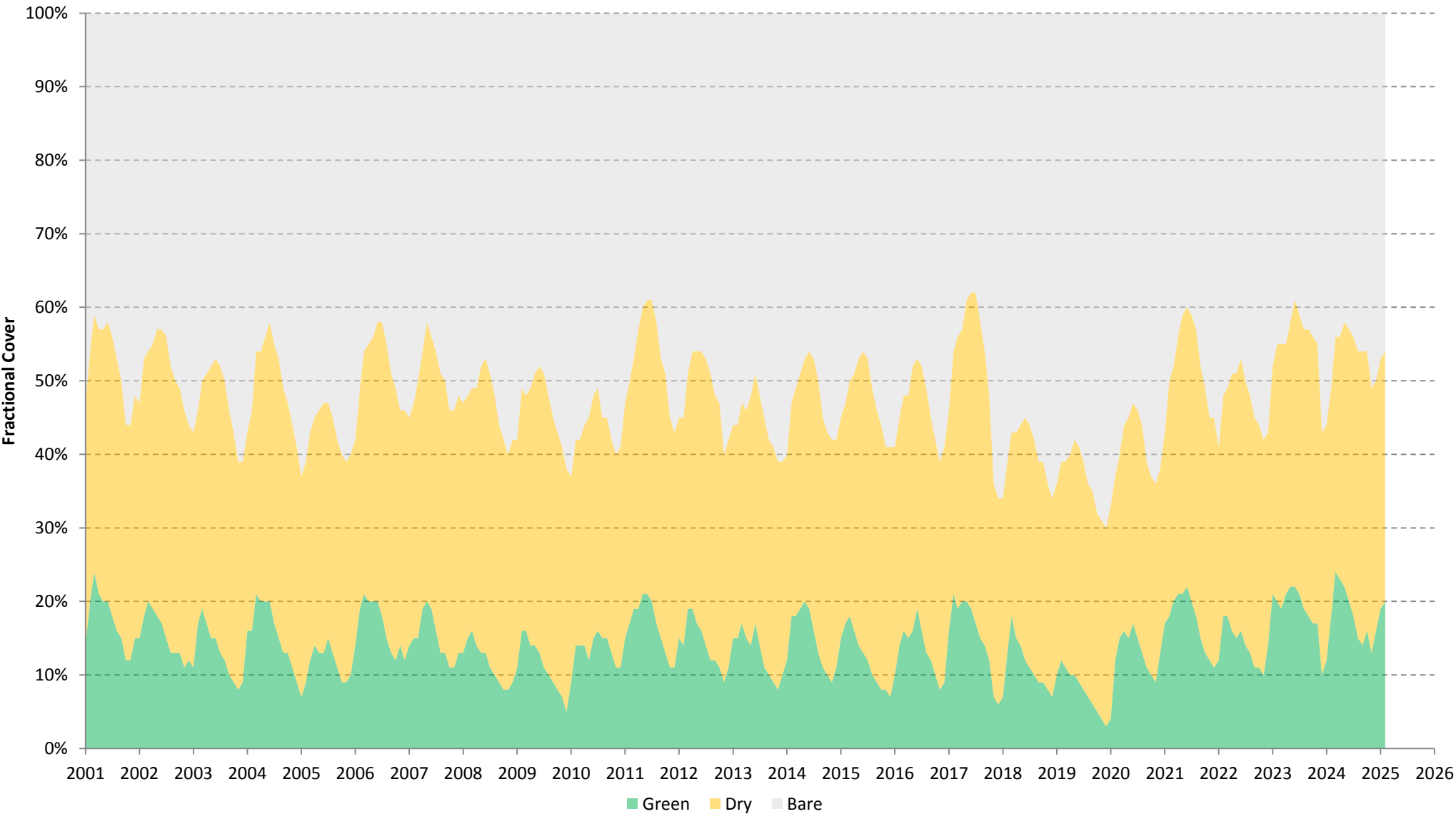


Figure 6 Estimated Fractional Ground Cover: This shows the percentages of the ground covered by green, dead or no vegetation.

# CARRANYA STATION - Modelled Cumulative Total Dry Matter (TDM)

Production as at February 2025

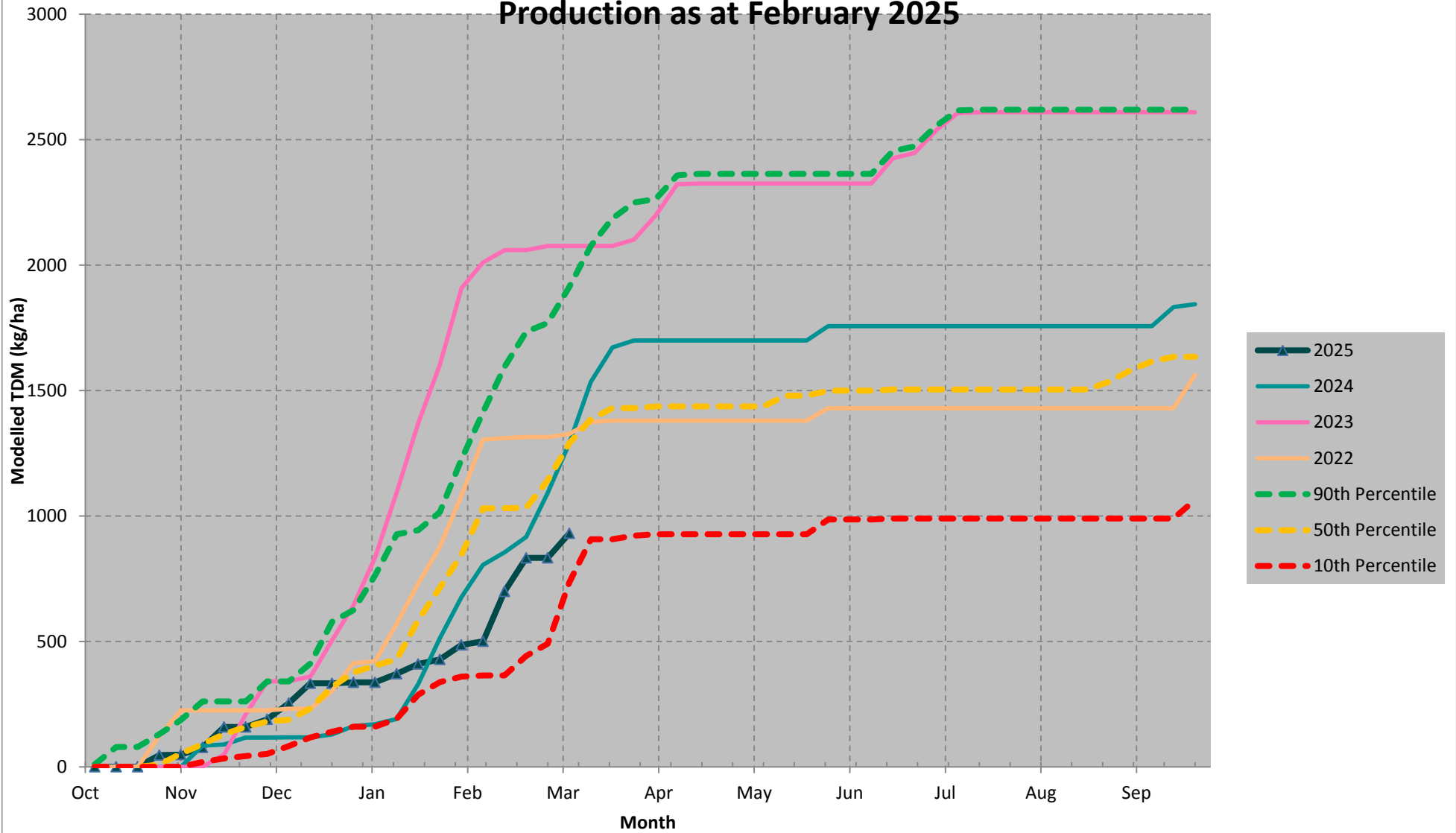


Figure 7 Cumulative Total Dry Matter: Also known as gross pasture production or total pasture growth, this shows the cumulative or total grass growth in the 12 months October to September.

## CARRANYA STATION - Cumulative Estimated Rainfall as at February 2025

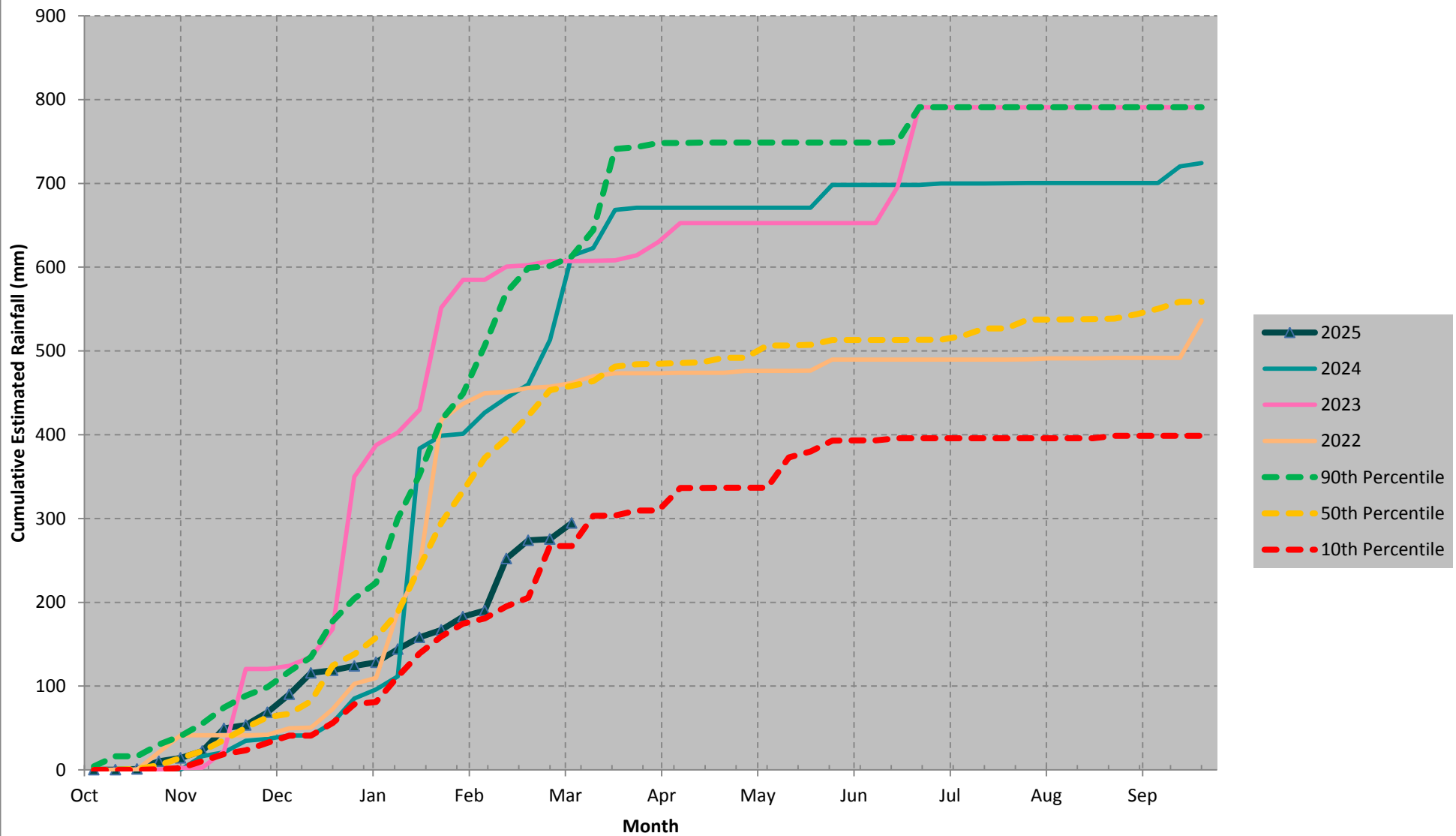


Figure 8 Cumulative Estimated Rainfall: This shows the total rainfall that fell in the 12 months October to September. The rainfall data is interpolated from the nearest rain gauge locations.

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