FORAGE REPORT: RAINFALL AND PASTURE BY LAND TYPE

Queensland Government

Introduction

This Rainfall and Pasture by Land Type report is for a selected Lot on Plan at the location. The report provides a table summarising annual rainfall, simulated pasture growth and ground cover percentages for the period 1960 to present. Historical time series graphs show annual rainfall, simulated annual pasture growth, monthly total standing dry matter (TSDM) and monthly percentage ground cover. Ground cover is simulated by the GRASP model (green line) and also measured from satellite imagery (red dots). A summary of simulated annual pasture growth and ground cover percentages for the major land types on the selected Lot on Plan are shown in two tables on the second page of the report. Accuracy of pasture growth and ground cover simulated using the GRASP model may be limited by estimates of stock numbers and quality of climate data. Such limitations may cause discrepancies between satellite and model cover estimates.
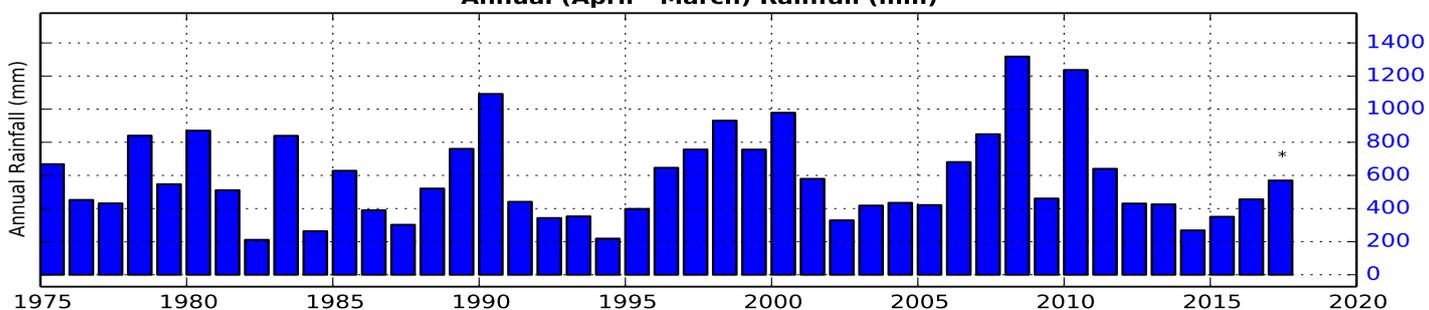
Summary

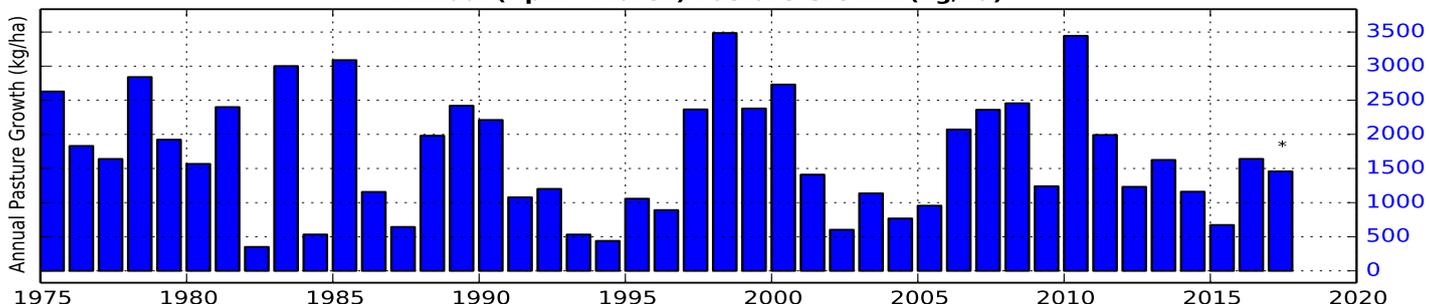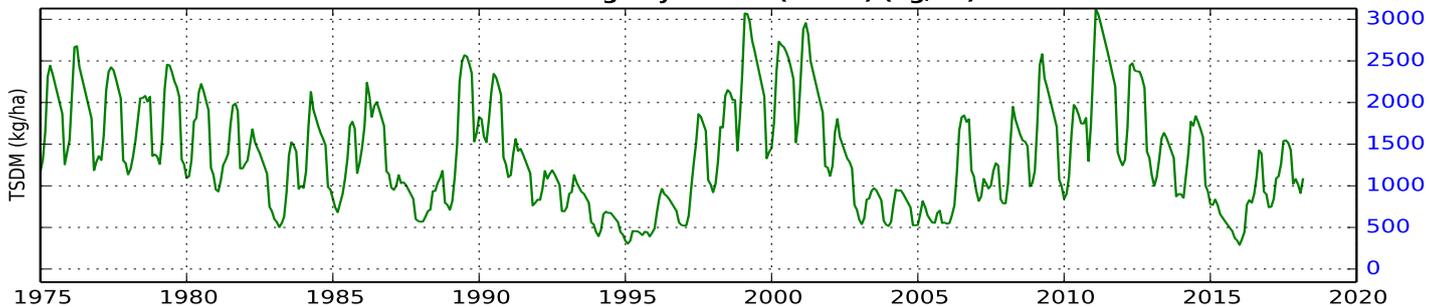|	Rainfall (mm)	Simulated Pasture Growth (kg/ha)	Simulated Ground Cover (%)
Last 12 months	651	1809	57
Average annual	585	1707	59
30th percentile (low)	425	1138	55
50th percentile (median)	495	1632	60
70th percentile (high)	647	2199	63

Location map

Historical time series

Annual (April - March) Rainfall (mm)

Annual (April - March) Pasture Growth (kg/ha)

Total Standing Dry Matter (TSDM) (kg/ha)

Ground Cover (%)

Monthly average modelled ground cover (%) (grass and grass litter - no tree leaf litter)
Satellite imagery derived seasonal ground cover (%) (total ground cover including tree leaf litter)

*Year to date
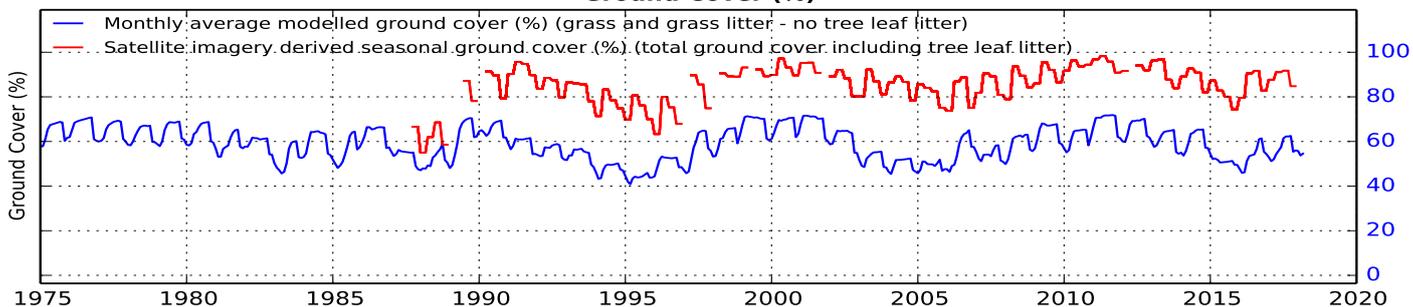
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Simulated annual pasture growth summary for major land types

The table summarises historical pasture growth (kg/ha/year) for the period from 1960 to present, for each major land type on the selected Lot on Plan. Calculations of plant growth are from the GRASP model based on calibration consistent with information from Grazing Land Management (GLM) and Stocktake. The table shows the total pasture growth (kg/ha) in the last 12 months (from March 2017). Calculations are provided for long-term average annual pasture growth; annual pasture growth in low growth (30th percentile*); median (50th percentile); and high growth (70th percentile) years.

Expected Land Type	Code	Area (ha)	Area (%)	Pasture growth (kg/ha)				
				Last 12 months	Average	30th percentile*	50th percentile*	70th percentile*
Lancewood - bendee - rosewood (BD)	BD12	2200	31.8	459	639	402	577	733
Narrow-leaved ironbark on deeper soils	BD14	1581	22.9	2037	1848	1076	1855	2428
Goldfields country - black soils	BD10	1225	17.7	3724	2864	2119	2812	3454
Loamy alluvials	BD13	1045	15.1	2013	1933	1233	1854	2590
Yellowjacket with other eucalypts	BD20	786	11.4	1930	2345	1305	2075	2807
Range soil (NG)	NG08	81	1.2	1292	1388	1159	1349	1552

Simulated ground cover summary for major land types

The table summarises historical percentage ground cover for the period 1960 to present, for each major land type on the selected Lot on Plan. Calculations of pasture cover are from the GRASP model based on calibration consistent with information from Grazing Land Management (GLM) and Stocktake. The table shows the average ground cover (%) in the last 12 months (from March 2017). Estimates are provided for long-term average annual ground cover; annual ground cover in low growth (30th percentile*); median (50th percentile); and high growth (70th percentile) years.

Expected Land Type	Code	Area (ha)	Area (%)	Pasture ground cover (%)				
				Last 12 months	Average	30th percentile*	50th percentile*	70th percentile*
Lancewood - bendee - rosewood (BD)	BD12	2200	31.8	46	49	46	48	50
Narrow-leaved ironbark on deeper soils	BD14	1581	22.9	59	59	56	60	66
Goldfields country - black soils	BD10	1225	17.7	72	71	70	71	74
Loamy alluvials	BD13	1045	15.1	62	64	61	63	68
Yellowjacket with other eucalypts	BD20	786	11.4	59	62	55	63	71
Range soil (NG)	NG08	81	1.2	57	58	56	58	60

*What is a percentile?

A percentile is used to indicate where a value lies within the range of historically measured or simulated records. For example, if last year's rainfall was ranked in the 30th percentile, then last year's rainfall was higher than the lowest 30% of annual rainfall totals on record, but lower than the remaining 70% of records.

Disclaimer