



# Weekly pasture growth and evapotranspiration

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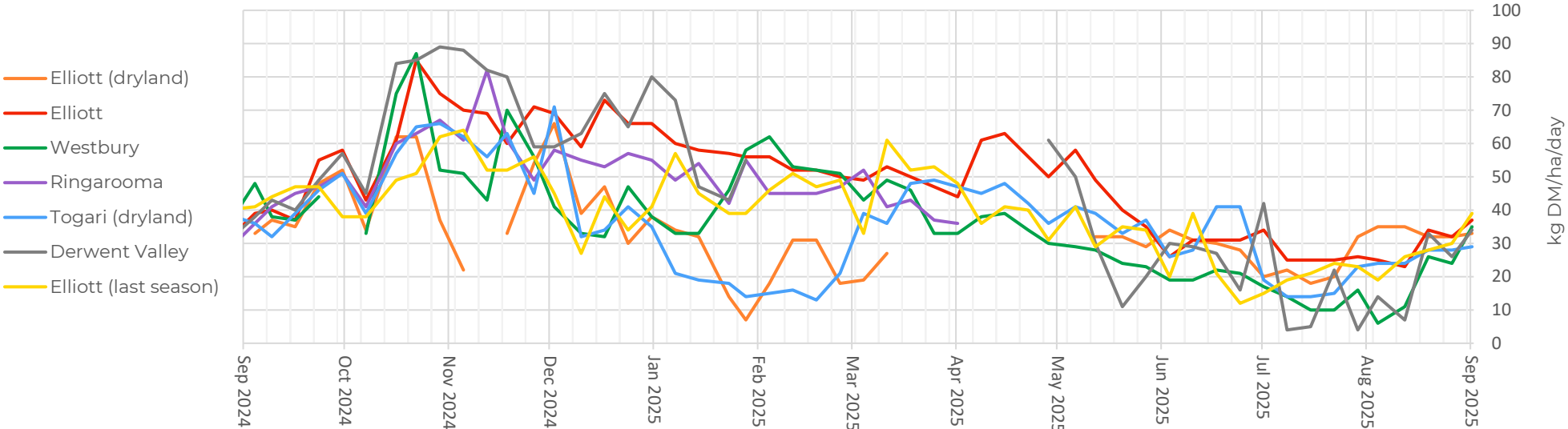
## Regional pasture growth rates

Region	Pasture growth rate (kg DM/ha/day) - Satellite	
	Irrigated	Dryland
Togari	29	
Elliott	37	33
Westbury	35	
Ringarooma		
Derwent Valley	34	

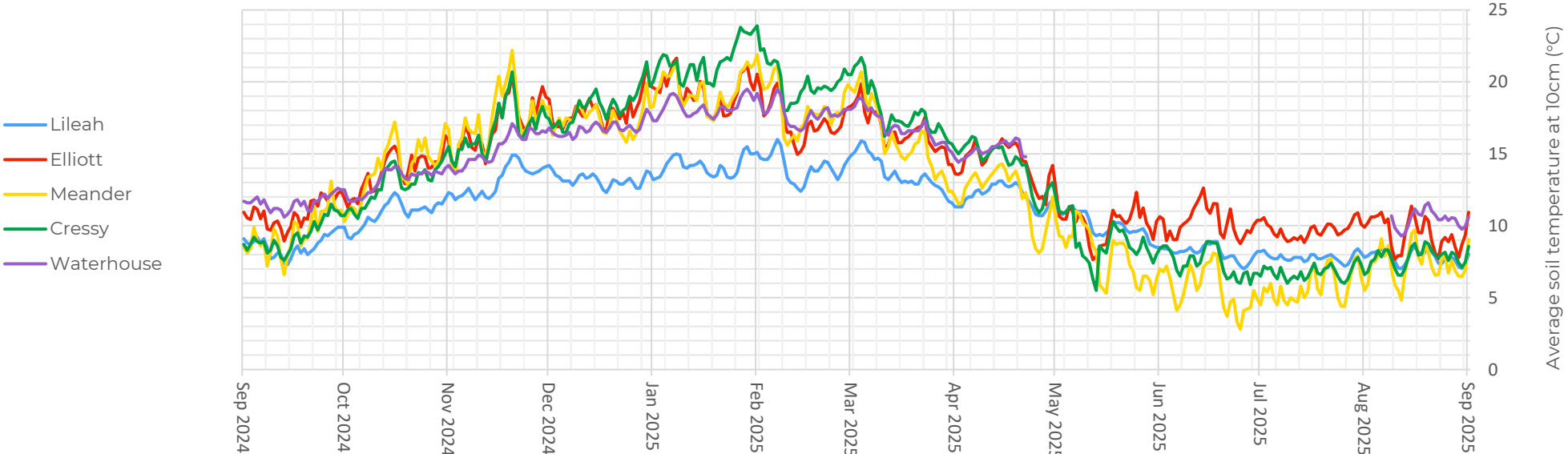
Pasture growth rates vary between farms for many reasons, including climate, soil type, nutrient availability and management. Satellite pasture growth rates are sourced from Pasture.io (<https://pasture.io/>).

Leaf emergence rate at Elliott				
Leaf emergence rate (days per leaf)		Days to 2 leaf stage	Days to 2.5 leaf stage	Days to 3 leaf stage
Irrigated	13	26	33	39

## Irrigated pasture growth rates — satellite



## Soil temperature



# Weekly evapotranspiration and rainfall

Tuesday 02 to Monday 08 September 2025 (inclusive)

Location	ET <sub>0</sub> <sup>1</sup> (mm)	Rainfall (mm)	Rainfall (month-to-date; mm)	Soil temp (°C) @ 10 cm
Pegarah (KI)	15.1	43.2	44.4	9.2
Lileah		93.4	97.2	7.8
Elliott	8.2	81.4	82.8	9.1
Meander	9.1	77.4	77.4	7.2
Cressy	10.8	52.2	52.2	7.8
Ringarooma	11.6	57.2	57.2	7.6
Waterhouse	10.6	33.2	33.2	10.2
Ouse	11.4	40.6	41.2	

Data for this table is collected from the [UNITAS Weatherstation weather stations](#) at Lileah, Elliott (Tasmanian Dairy Research Facility), Meander (Clear Springs) and Waterhouse (Forester Lodge). These weather stations have been installed on [Smarter Irrigation for Profit II](#) optimised irrigation farms. Data for Pegarah (King Island) and Ringarooma is sourced from the Ag Logic Weather Station and Probe Network (<https://www.aglogic.com.au/>), and the data for Ouse is collated from [www.bom.gov.au](http://www.bom.gov.au).

<sup>1</sup>ET<sub>0</sub> is the reference evapotranspiration, an estimation of the evapotranspiration from the “reference surface” — grass with an assumed height of 12 cm.

Note: Unfortunately, there's an issue with the new humidity sensor at Lileah, so it's reporting ET<sub>0</sub> incorrectly. Consequently, it's been omitted from this report until it can be replaced.

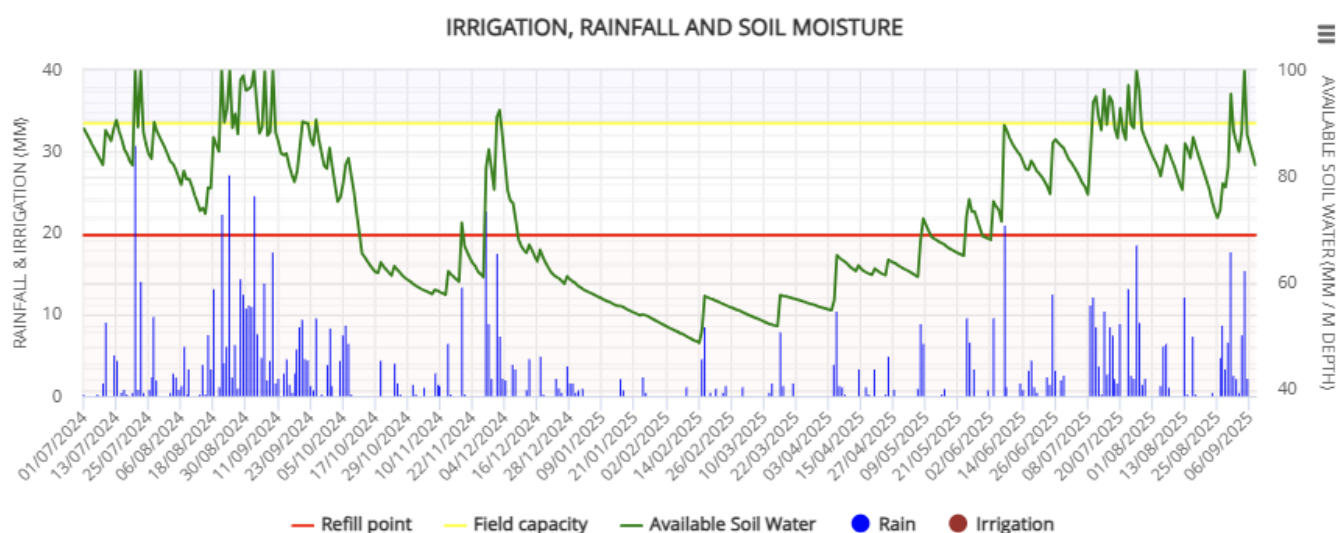
# Soil moisture budgets

The soil moisture budgets below have been produced using IrriPasture (<https://irripasture.com/>). This is a free budgeting tool that can help you make decisions about your irrigation scheduling. This report has budgets for Bushy Park/Ouse, Scottsdale, Meander, Sheffield, Elliott and Lileah. The graphs show the available soil moisture (green line). The aim is to keep this green line between the red line (refill point) and the yellow line (field capacity). The distance between the yellow and red line is how much Readily Available Water (RAW) the soil holds. The amount of RAW your soil can hold will depend on your soil type. As a guide, the amount of RAW that is held in the top 30 cm for common soil types is:

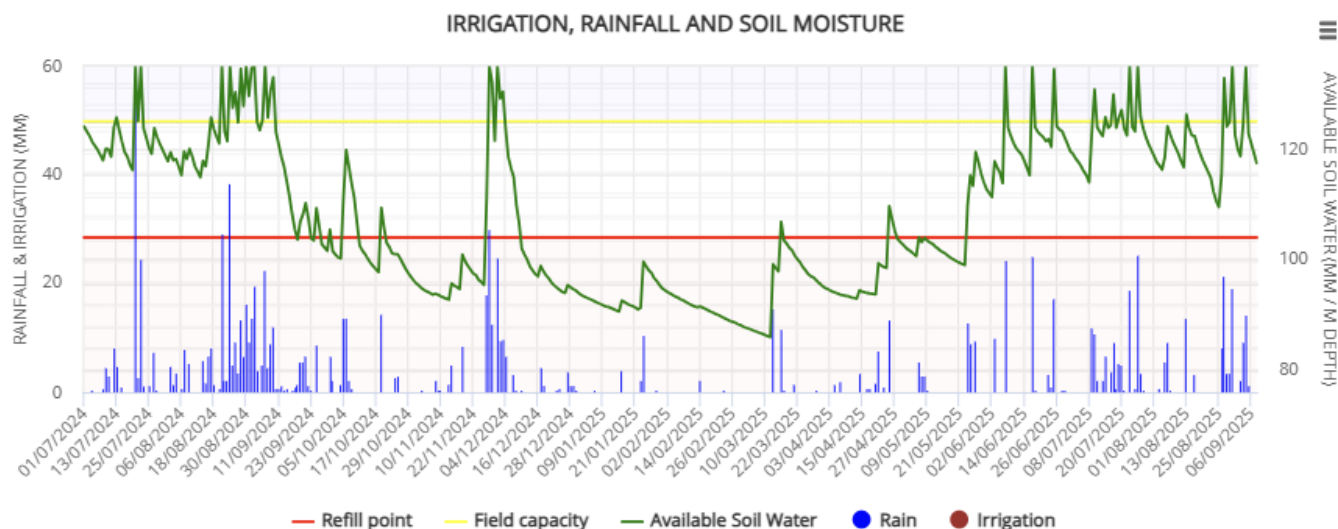
- Sand = 9 mm
- Loamy sand = 15 mm
- Sandy loam = 21 mm
- Loam = 27 mm
- Clay = 15 mm
- Clay loam = 24 mm

The soil moisture budgets in this report have used an 'average' RAW value of 21 mm. If your soil holds less soil moisture than this, you will need to irrigate earlier than the water budget indicates. If your soil holds more moisture than this, you probably don't need to irrigate as soon. **THESE SOIL MOISTURE BUDGETS ARE A GUIDE ONLY.** Please do a physical check of the soil moisture on your farm to help make the decision when to start irrigating.

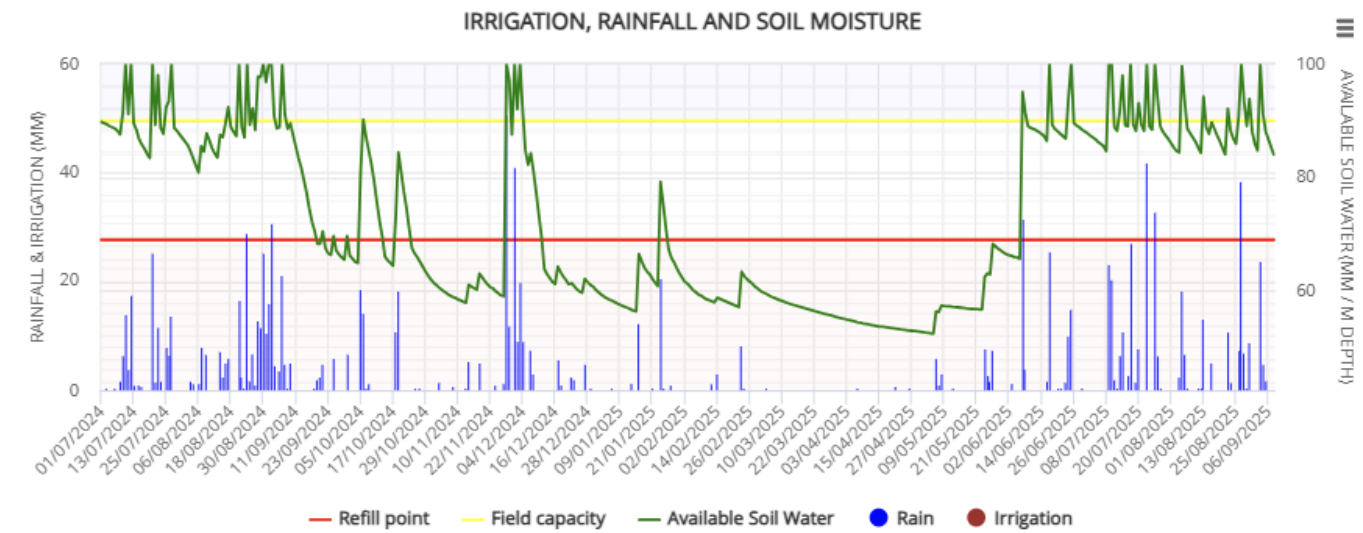
## Smithton



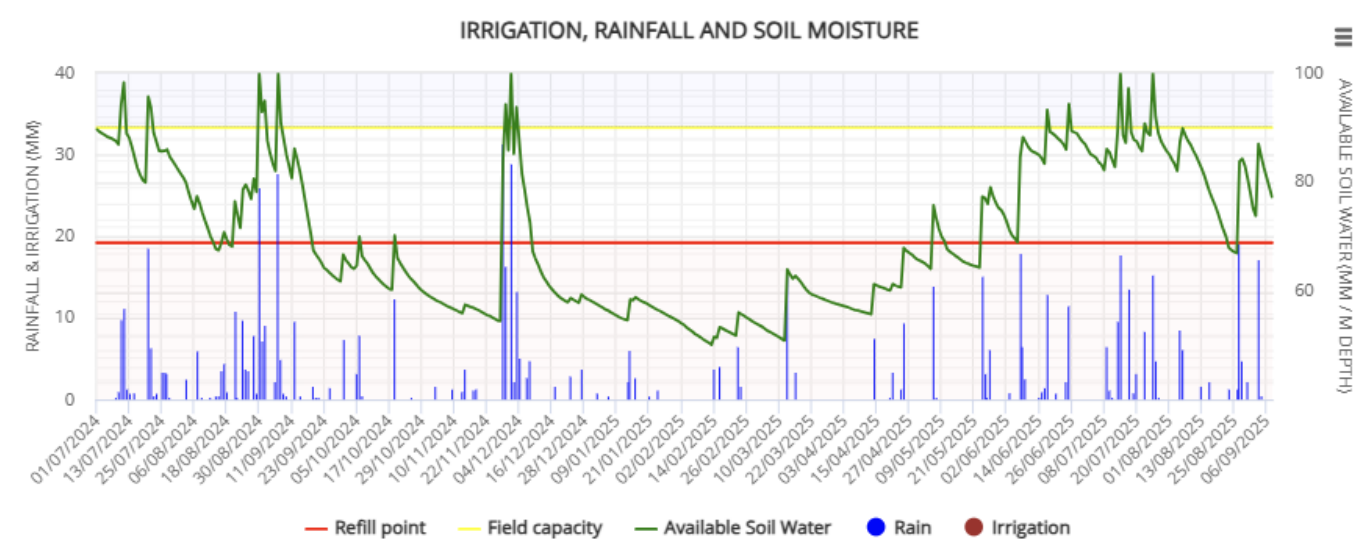
## Wynyard



Sheffield

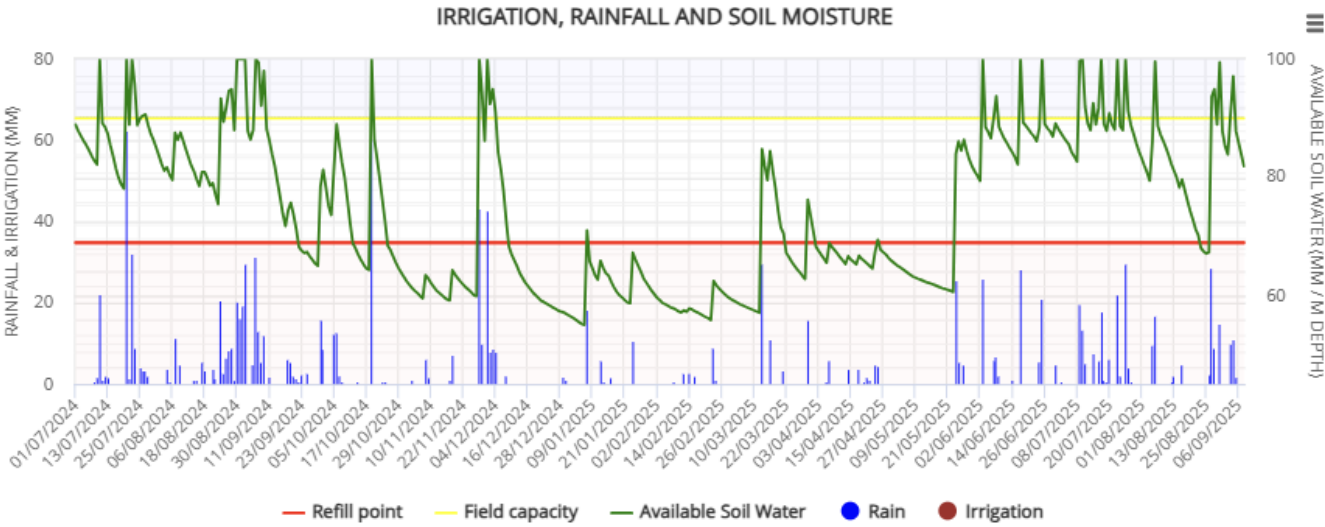


Cressy

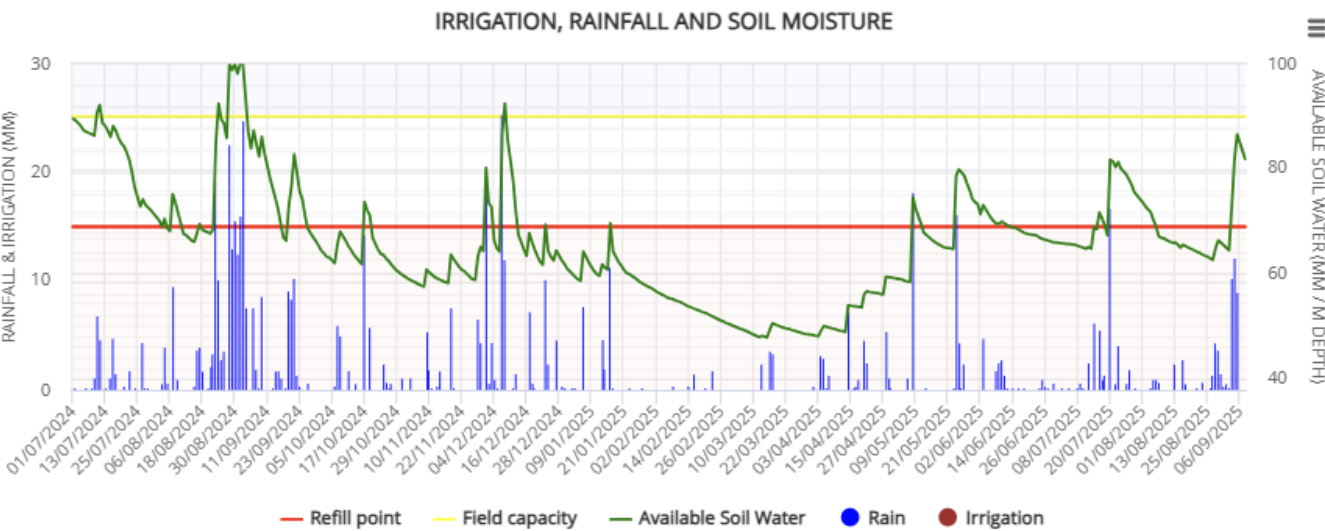




Scottsdale



Ouse



## 7-day forecasts

The following tables present the 7-day evapotranspiration, rainfall, temperature, humidity, and forecast for key dairy regions in Tasmania. The data is sourced from the Weatherwise Watering Swan Systems (<https://www.swansystems.com.au/irrigation-harnessing-power-of-data/>)

### Elliott

Date	ETo* mm	Chance of Rain %	Rain Range mm	Rain Estimate mm	Temp Range °C	Avg R. Humidity %	Avg Wind Speed km/hr
Tue, 09-Sep	1.8	30	< 1	0	3-11	79	23
Wed, 10-Sep	1.7	10	< 1	0	1-12	82	12
Thu, 11-Sep	1.9	20	< 1	0	2-13	85	19
Fri, 12-Sep	1.9	55	0-1	1	4-14	87	20
Sat, 13-Sep	1.9	50	0-1	1	6-15	87	18
Sun, 14-Sep	2	60	1-3	2.4	6-16	85	17
Mon, 15-Sep	2	85	7-15	11.1	8-16	84	24
<b>TOTAL</b>	<b>13.2</b>			<b>15.5</b>			

### Smithton

Date	ETo* mm	Chance of Rain %	Rain Range mm	Rain Estimate mm	Temp Range °C	Avg R. Humidity %	Avg Wind Speed km/hr
Tue, 09-Sep	2.3	40	0-1	0.8	6-13	73	27
Wed, 10-Sep	2	15	< 1	0	4-14	78	16
Thu, 11-Sep	2	50	0-1	1	4-14	84	22
Fri, 12-Sep	1.9	80	1-4	2.9	7-15	88	23
Sat, 13-Sep	2.1	75	1-3	2.5	8-16	87	21
Sun, 14-Sep	2.4	60	0-2	2	8-17	81	25
Mon, 15-Sep	2.8	85	7-15	11	10-18	75	31
<b>TOTAL</b>	<b>15.5</b>			<b>20.2</b>			

Meander

Date	ETo* mm	Chance of Rain %	Rain Range mm	Rain Estimate mm	Temp Range °C	Avg R. Humidity %	Avg Wind Speed km/hr
Tue, 09-Sep	1.9	45	0-1	0.8	3-10	72	19
Wed, 10-Sep	1.6	20	< 1	0	1-12	75	9
Thu, 11-Sep	1.9	25	< 1	0	1-13	80	13
Fri, 12-Sep	1.9	55	0-1	1	4-14	79	14
Sat, 13-Sep	2.2	40	0-1	0.8	6-15	76	14
Sun, 14-Sep	2.2	70	1-5	3.7	5-16	79	17
Mon, 15-Sep	2	85	10-25	17.7	7-15	81	19
TOTAL	13.7			24			

Sheffield

Date	ETo* mm	Chance of Rain %	Rain Range mm	Rain Estimate mm	Temp Range °C	Avg R. Humidity %	Avg Wind Speed km/hr
Tue, 09-Sep	2	30	< 1	0	5-10	72	19
Wed, 10-Sep	1.7	15	< 1	0	2-12	75	9
Thu, 11-Sep	2	20	< 1	0	2-14	78	14
Fri, 12-Sep	2.1	40	0-1	0.9	5-14	78	16
Sat, 13-Sep	2.2	30	< 1	0	8-14	76	15
Sun, 14-Sep	2.1	65	1-3	2.7	7-15	80	16
Mon, 15-Sep	2	85	8-20	13.4	9-16	80	17
TOTAL	14.1			17			



## Scottsdale

Date	ETo* mm	Chance of Rain %	Rain Range mm	Rain Estimate mm	Temp Range °C	Avg R. Humidity %	Avg Wind Speed km/hr
Tue, 09-Sep	2.3	20	< 1	0	5-12	69	19
Wed, 10-Sep	1.8	15	< 1	0	2-13	73	8
Thu, 11-Sep	2.2	10	< 1	0	2-15	75	11
Fri, 12-Sep	2.3	30	< 1	0	5-16	77	14
Sat, 13-Sep	2.3	55	0-1	1	7-16	77	15
Sun, 14-Sep	2.2	75	2-5	3.8	8-16	80	17
Mon, 15-Sep	2.2	85	8-20	13.6	10-16	78	18
<b>TOTAL</b>	<b>15.3</b>			<b>18.4</b>			

## Ouse

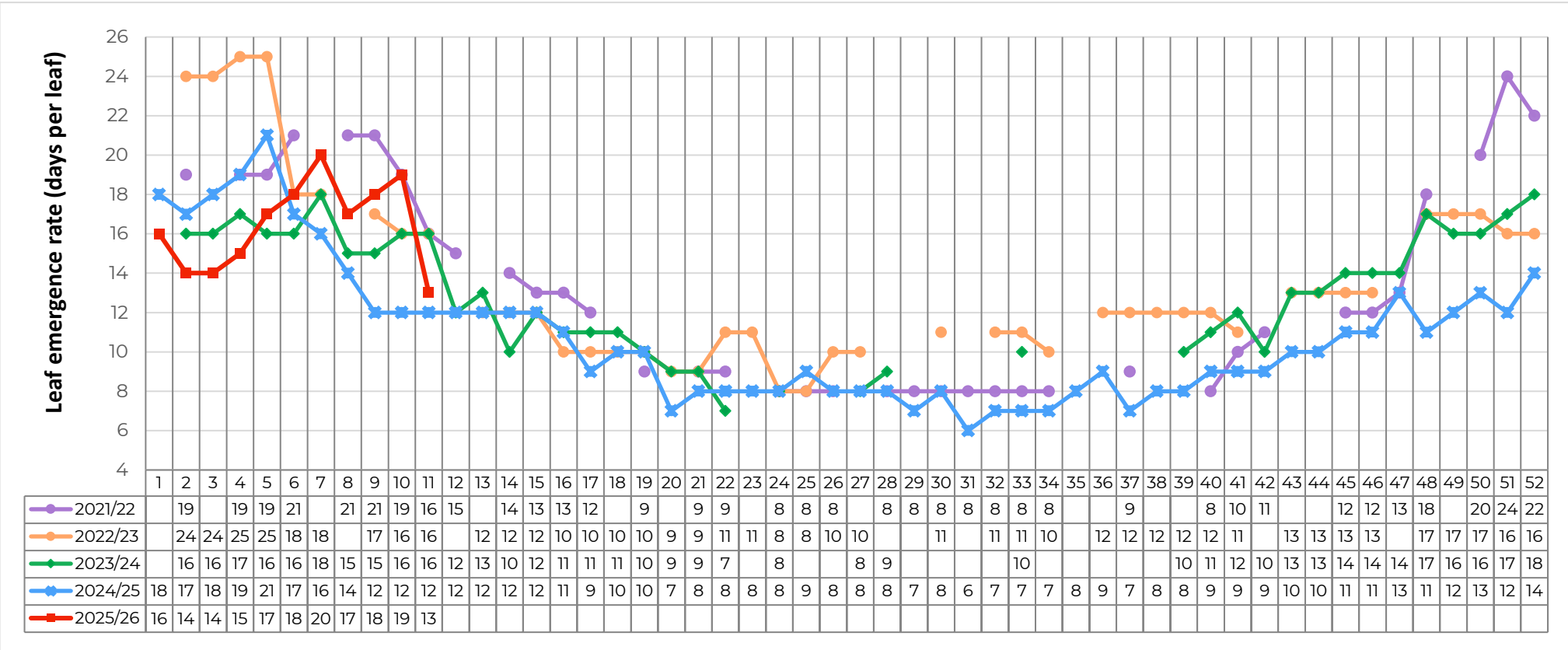
Date	ETo* mm	Chance of Rain %	Rain Range mm	Rain Estimate mm	Temp Range °C	Avg R. Humidity %	Avg Wind Speed km/hr
Tue, 09-Sep	1.8	80	2-4	3.2	2-11	76	22
Wed, 10-Sep	1.6	25	< 1	0	1-12	81	10
Thu, 11-Sep	1.7	50	0-1	1	1-13	84	16
Fri, 12-Sep	1.9	65	1-3	2.4	4-14	82	18
Sat, 13-Sep	2.2	50	0-2	1.5	7-15	79	18
Sun, 14-Sep	3.3	55	0-3	3	5-20	70	19
Mon, 15-Sep	2.7	80	6-15	9.9	8-17	71	19
<b>TOTAL</b>	<b>15.2</b>			<b>21</b>			

King Island

Date	ETo* mm	Chance of Rain %	Rain Range mm	Rain Estimate mm	Temp Range °C	Avg R. Humidity %	Avg Wind Speed km/hr
Tue, 09-Sep	2.3	50	0-1	1	8-13	71	23
Wed, 10-Sep	1.9	45	0-1	1	7-13	76	14
Thu, 11-Sep	2.1	70	1-2	1.9	8-14	76	20
Fri, 12-Sep	2	80	2-4	3.5	9-15	82	22
Sat, 13-Sep	2.1	70	1-2	1.9	10-15	82	19
Sun, 14-Sep	3	35	<1	0	9-18	74	23
Mon, 15-Sep	3.3	80	5-10	7.5	11-18	70	31
TOTAL	16.7			16.8			

# Leaf emergence rate

This graph shows the leaf emergence rate in days per leaf for the past three seasons compared to the current season. The numbers directly below the graph (1-52) represent the weeks in the financial year, with week 1 being the first week in July and week 52 being the last week in June.



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