

Example daily radiation patterns in WA

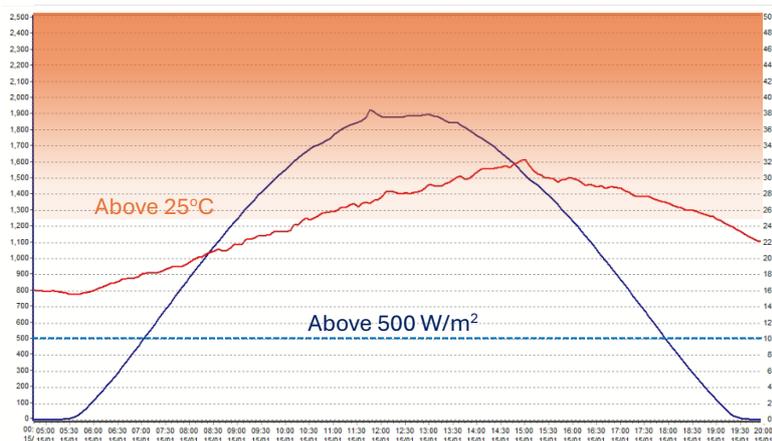
Radiation and temperature readings from a PRIVA sensor located in the open (not under structures) in Muchea, WA.

Radiation levels above 500 W/m^2 ($\sim 1000 \mu\text{mol.m}^2.\text{s}$) may cause stress in berry crops if temperatures are above 25 to 30°C (variety dependent). Berry plants may benefit from shading when radiation or both radiation and temperature thresholds are exceeded. This is useful to consider when planning your shading strategies.

Radiation curves (blue line) in the carts below are generally representative of monthly trends; bumps in the curves represent sudden drops in radiation caused by passing clouds. Temperature trends (red line) are highly variable day to day and should be considered a snapshot only.

These example charts have been provided as an additional resource for WA berry growers to consider alongside information presented in the Autumn 2026 Australian Berry Journal.

15 January 2025



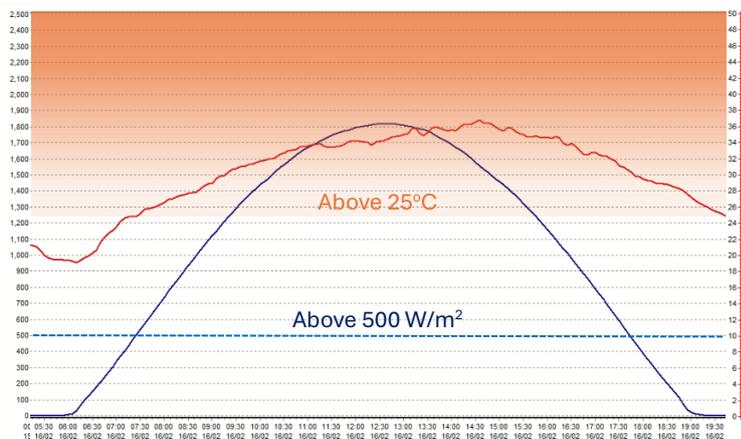
Radiation levels $>500 \text{ W/m}^2$: 7am–6pm

Peak $\sim 1900 \text{ W/m}^2$

$\geq 25^\circ\text{C}$: 10.20am – 7pm

$\geq 30^\circ\text{C}$: 1.30pm – 4pm

16 February 2025



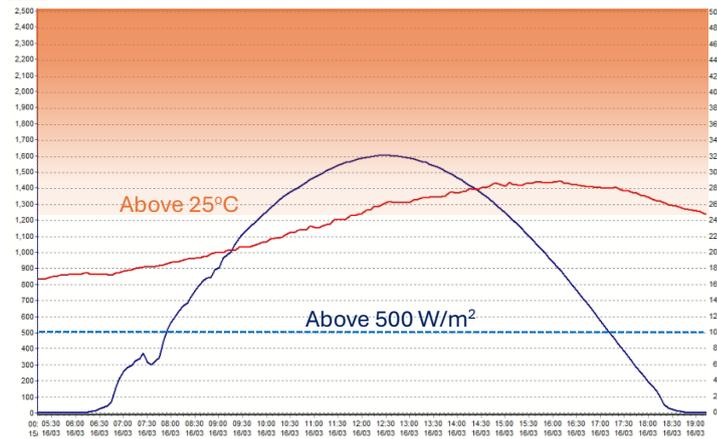
Radiation levels $>500 \text{ W/m}^2$: 7.30am–5.45pm

Peak $\sim 1820 \text{ W/m}^2$

$\geq 25^\circ\text{C}$: 7.30am – 7.45pm

$\geq 30^\circ\text{C}$: 9.15am – 5.50pm

16 March 2025



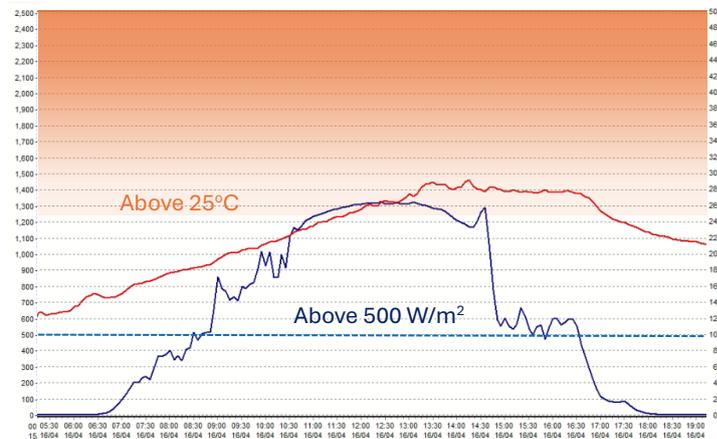
Radiation levels >500 W/m²: 7.50am–5.10pm

Peak ~1610 W/m²

≥25°C: 11.45am – 7.20pm

≥30°C: NA

16 April 2025



Radiation levels >500 W/m²: 8.10am*–4.40pm

*Cloudy day adjusted

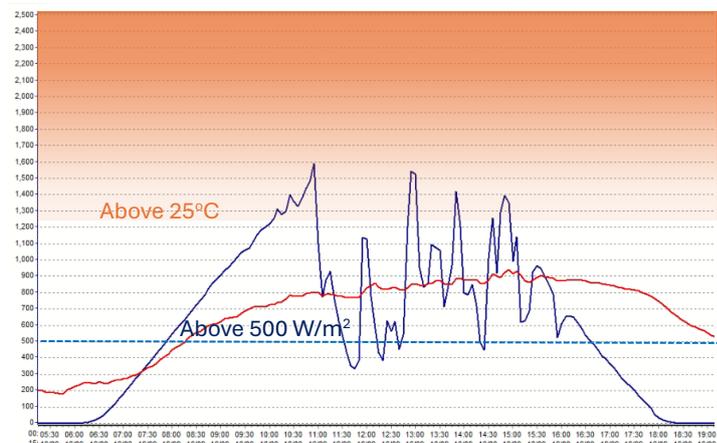
Peak ~1320 W/m²

≥25°C: 11.45am – 5.10pm

≥30°C: NA

----- May to August temperatures mostly <25°C -----

16 September 2025



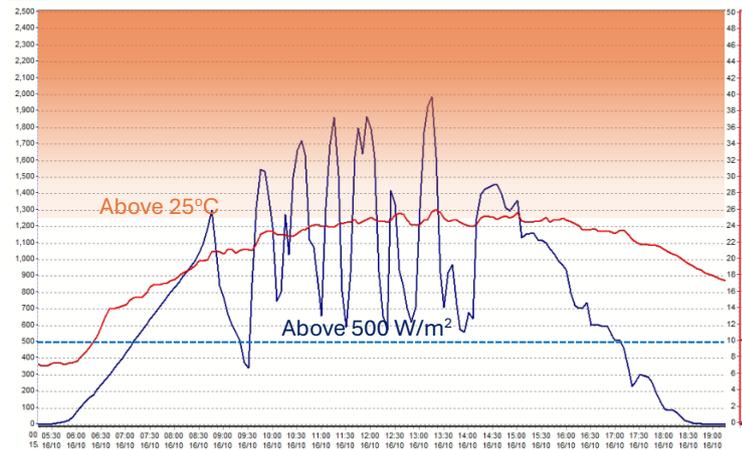
Radiation levels >500 W/m²: 7.50am–4.40pm*

*Cloudy day adjusted

≥25°C: NA

≥30°C: NA

16 October 2025



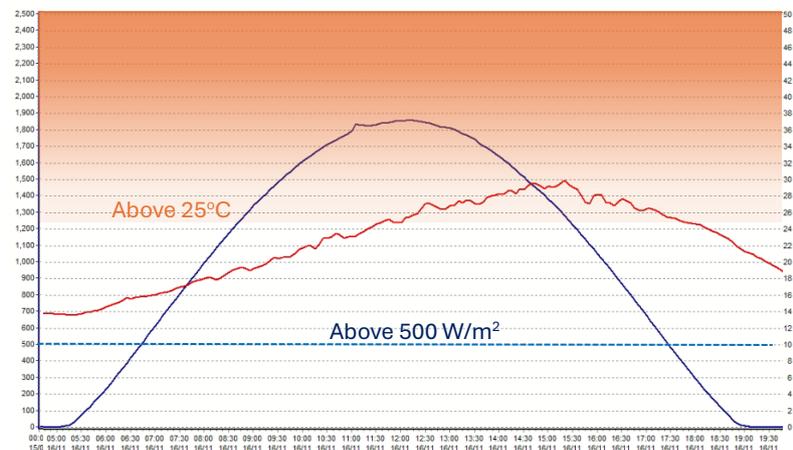
Radiation levels >500 W/m²: 7.10am–5.10pm*

*Cloudy day adjusted

≥25°C: NA – mostly

≥30°C: NA

16 November 2025



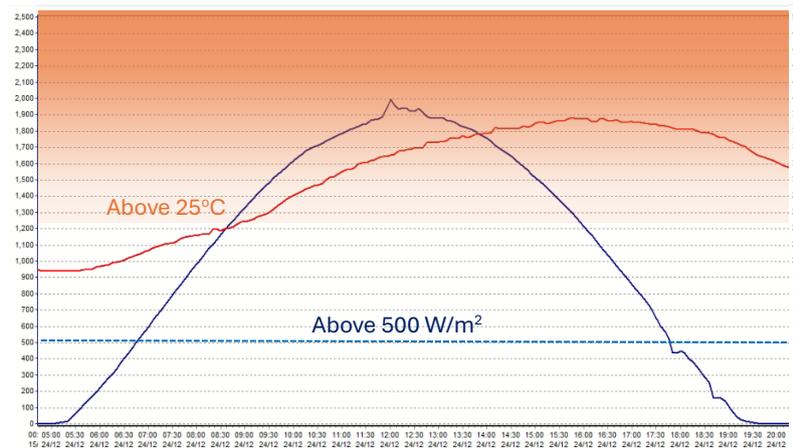
Radiation levels >500 W/m²: 6.45am–5.30pm

Peak ~1870 W/m²

≥25°C: 11.30am – 6pm

≥30°C: NA

24 December 2025



Radiation levels >500 W/m²: 6.45am–6pm

Peak ~2000 W/m²

≥25°C: 9am onwards

≥30°C: 10.45 onwards