



Know your local weather conditions

Knowing your local weather conditions can have a big impact on spray efficacy, the risk of spray drift and receiving a fine from the EPA.

Spray records must include:

- estimated wind speed and direction and any significant changes during spraying
- product label specifications eg do not apply when temperatures are above 30°C, and any significant changes during spraying
- weather forecasts eg rain, wind, high temperatures

Hazardous temperature inversions

The development of the Weather and Networked Data (WAND) alert system for hazardous inversions has been a game changer for knowing hazardous inversion conditions are present.

BUT...this is not a green light to spray.

It is essential to also know what the local weather conditions are to achieve the best spray results.

Accessing weather information

To satisfy the EPA, spray applicators must take the local weather data from as close to the site of application as possible.

The Bureau of Meteorology (BOM) is the standard if a closer option is not available.

There are a lot of cost-effective, weather monitoring options available for spray applicators.

Personal preference is the best way to choose what will work for you.

This is a small selection of what is available.

Checking in-field conditions gets the best results, saves money and reduces stress



Ashley	
As of 20/11/2023 10:10	
All label requirements must be met including wind speed during periods of application	
Hazardous Inversion	Absent
NowCast (until 12:10)	Absent
Inversion (Vert Temp Diff)	-0.3 °C
Wind Speed (2m)	8 km/h NNE
Max Wind Gust (2m)	15 km/h
Wind Speed (10m)	13 km/h NNE
Delta T	0.3 °C
Temperature	20 °C
Solar Radiation	103 W/m ²
Rainfall from 9 am	1 mm
Rainfall 24 hrs to 9 am	73 mm

Device	Weather And Network Data (WAND)	OzForecast	Kestral Spraying Weather Meter	Gazeeka WeatherBox	Field-IQ ISOBUS weather station	Case IH ISOBUS	John Deere Mobile Weather	Maverick spray advisory system
Temperature	✓	✓	✓	✓	✓	✓	✓	✓
Wind speed & direction	✓	✓	✓	✓	✓	✓	✓	✓
Delta T	✓	X	X	X	✓	✓	✓	✓
Solar radiation/heat index	✓	X	✓	X	X	X	X	X
Rainfall	X	✓	X	X	X	X	X	X
Relative humidity	X	✓	✓	✓	X	✓	✓	✓
Barometric pressure	X	X	✓	✓	✓	✓	X	X
Dew point	X	X	X	✓	X	✓	X	X
Hazardous inversions	✓	X	X	X	X	X	X	✓
Real time data	✓ (10 mins)	✓ (10 min)	✓	✓	X	✓	✓	X
Nowcast,forecast	✓	✓	X	X	✓	✓	✓	✓
Notifications	X	X	X	✓	✓	✓	✓	✓
Display	App	App	Hand-held meter	App	In-cab display (ISOBUS UT)	In-cab display (ISOBUS UT)	In-cab display	In-cab and app display
Locations	100 sites	15,000 sites	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
Link	https://www.gonnaag.com/wand-network	https://ozforecast.com.au/	Agriculture — Kestrel AU (kestrelmeters.com.au)	https://bit.ly/44ZMWPO	https://bit.ly/3PjnjUc	https://www.caseih.com/en-us/unitedstates/company/innovations/isobus	https://bit.ly/3sZISTj	https://bit.ly/3taSuJK

Note: This is a small selection of the weather information tools available. It is a guide only. Independent advice should be sort before purchasing any weather monitoring tools to ensure you are getting the right tool for your situation.