



Issued: July 6th, 2021

BBRO Cercospora Risk Monitoring

- BBRO will be providing regular information on the risks of cercospora development in crops. This is based on an established temperature & humidity model which is used to trigger a high-risk alert. Warm temperatures (>25°C) and high humidity (>90% for more than 10 hours per day) provide ideal conditions for rapid spread of this disease.
- **The current risk is low. Whilst the recent rain has increased the humidity in crops, temperatures have not been high enough to trigger an alert.**
- An update will be included in the Advisory Bulletin every Thursday for the next 8 weeks, with a special text alert sent to any grower deemed at risk. **A test text alert will be issued on Tuesday 6th July.**
- A high risk of cercospora will be triggered when conditions are ideal for rapid development. It is essential that crops are checked very closely for symptoms when at high risk. Applying fungicides at the early onset of cercospora symptoms is key to successful control. Only apply fungicides where symptoms are found.

CERCOSPORA
Early Warning Alert

Please consult the BBRO website for further information



Figure 1 early symptoms of cercospora leaf spot

- Remember, that it is also very important to check for symptoms of rust and powdery mildew, as your fungicide programmes may be triggered by the presence of these diseases as well.
- BBRO are monitoring a network of 40 weather stations positioned in beet crops, including measuring the humidity within the canopy. This provides an assessment of risk based on **actual** conditions in the crop. BBRO is also using wider network of non-sugar beet-based weather stations (Weatherquest) to assess **current and forecasted risk**.
- Figs 2&3 show the in-crop network of weather stations. The system monitors temperature and humidity and is programmed to trigger a cercospora alert when the high-risk conditions are met.

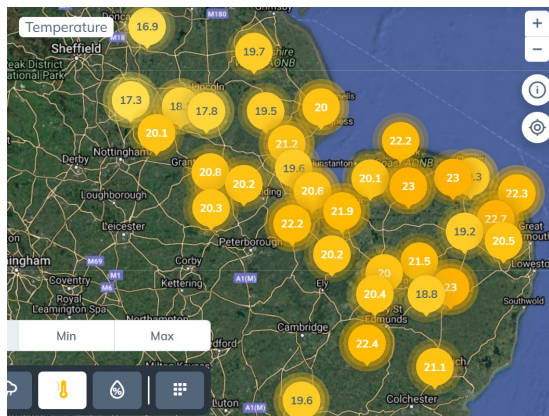


Fig 2 Temperature at 13.30 5/7/21

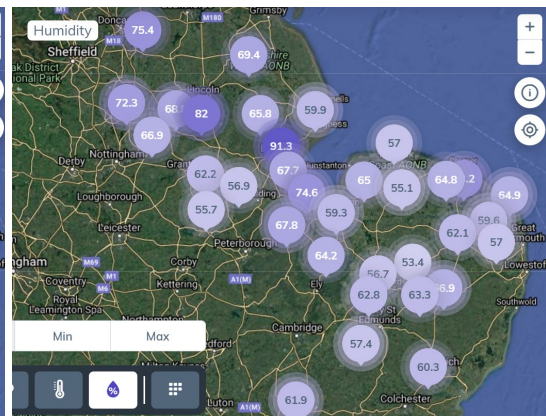


Fig 3 Relative humidity at 13.30 5/7/21

- Figure 4 is an animated map showing the risk based on the Weatherquest data. The values in each 6km square represents the Daily Infection Value (DIV) Values of 7 and above across a 48-hour period are considered higher risk, Squares with a 2-day DIV of >6 will show red. The time scale covers 6 two-day periods (see date change at top of map). Hover over the middle of the map to stop or continue the animation. Two squares on the Essex coast flagged red on the 27th of June but these were just two isolated events. **If animation does not start automatically, please click on the picture to be redirected to our dedicated web page.**

BBRO Cercospora Forecast - 2 Day DIVs for 2021-06-24

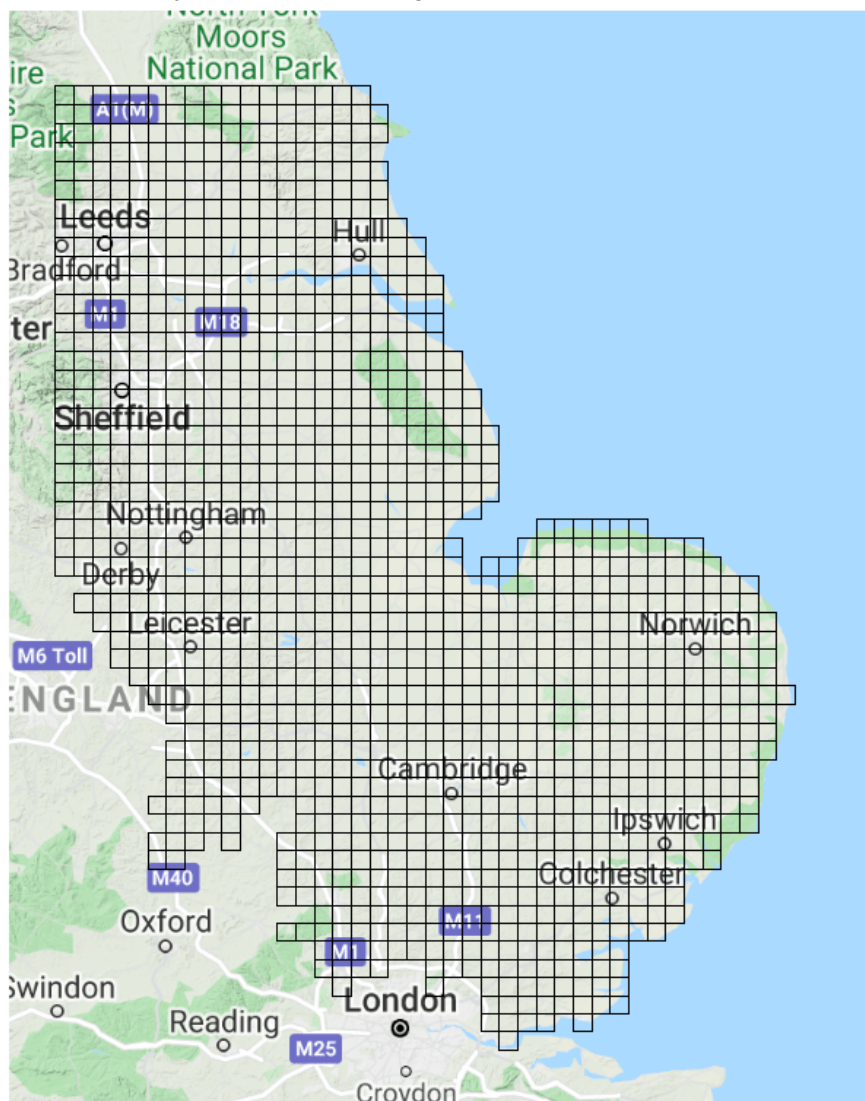


Figure 4. Map showing wider Weatherquest DIV information



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BASIS POINTS

Two BASIS points in total (not per bulletin) have been allocated for the period between 01/06/21 and 31/05/22 reference **CP/111958/2122/g**. To claim these points please email cpd@basis-reg.co.uk

Two NRoSO points in total (not per bulletin) have been allocated between 01/06/2021 and 31/05/2022 reference **NO469403f**. To claim these points please email NRoSOCPD@cityandguilds.com