



## United Oilseeds & AHDB Joint Seminar Networking lunch

Thursday 21 February 2019





United Oilseeds & AHDB Joint Seminar 2019

# Welcome and introduction

Chaired by Andrew Cragg, United Oilseeds



#### United Oilseeds & AHDB Joint Seminar 2019

### **OSR** disease decision support

Catherine Garman

**Crop Protection Scientist, AHDB** 





### Outline

- AHDB WeatherHub
- BYDV tool
- Sclerotinia forecasting
- Phoma threshold and forecasting

#### **AHDB WeatherHub**



AHDB WeatherHub - main Rainfall map Long-term rainfall analysis

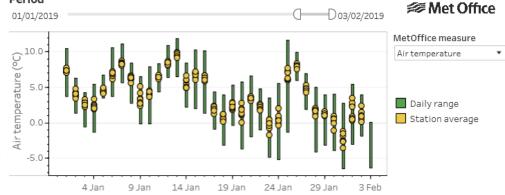
WeatherHub



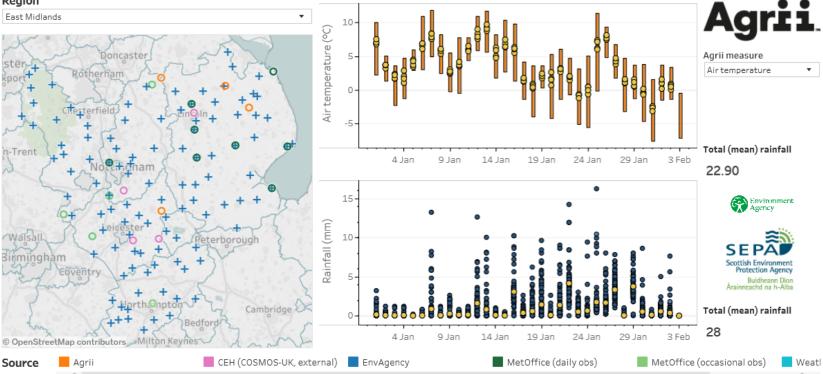
#### Period

#### Guide

The AHDB WeatherHub collates and renders weather data from various sources (MetOffice, Agrii, Environment Agency, SEPA) as well as signposting to weather data available online from other sources (e.g. COSMOS-UK, FARMING connect, Weathercast). Hover over a symbol on the map, then click the link at the bottom of the pop-up to open the external weather data in a new browser window. Data is updated daily, just drag the time slider to the right to include current date. Environment Agency raingauge data may occasionally be incomplete for several days; incomplete data are indicated by a paler shade of blue. Hover over a datapoint to see the number of datapoints currently

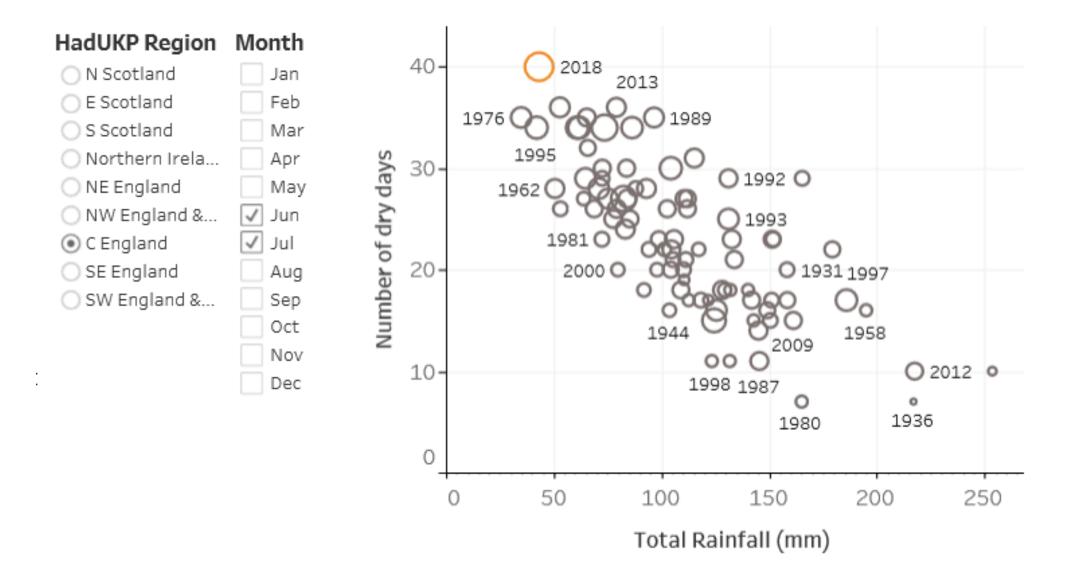


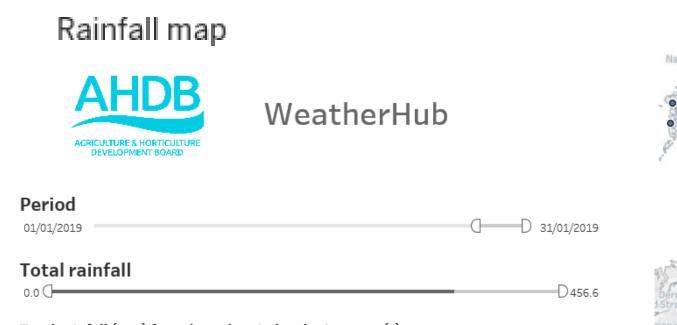
#### Region





#### Long-term rainfall analysis

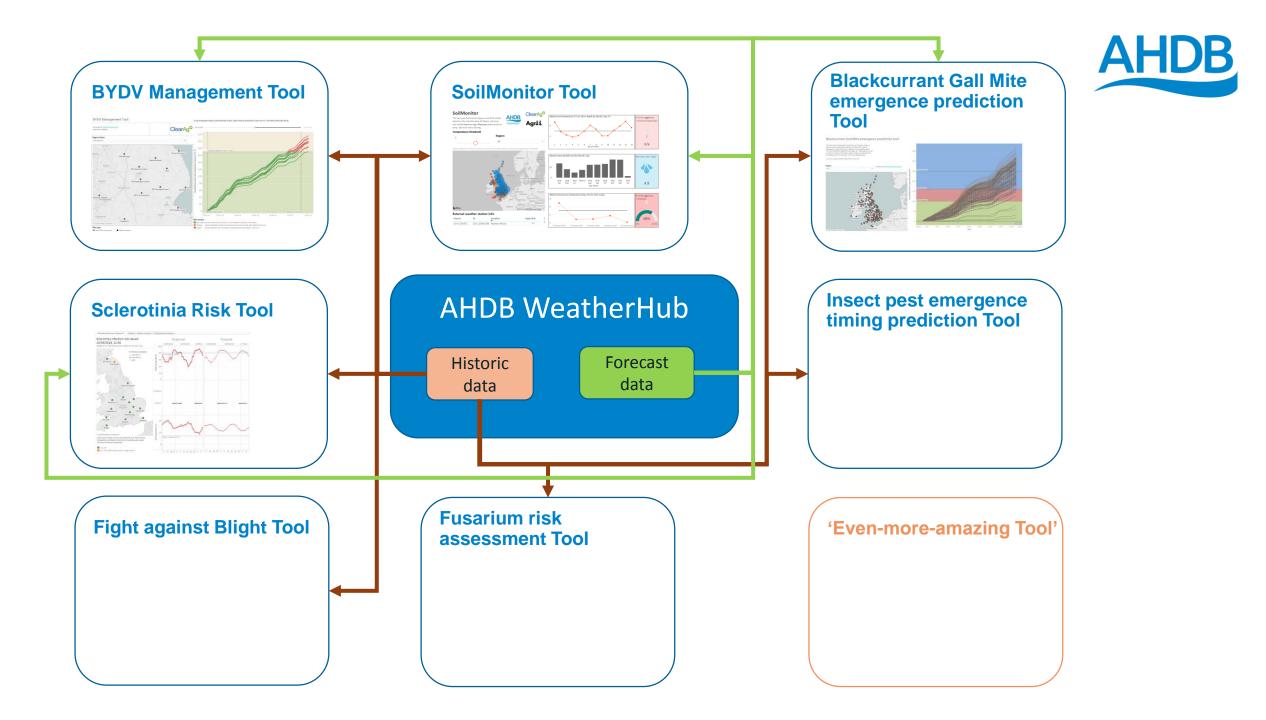




Total rainfall (mm) for selected period and rain gauge(s)



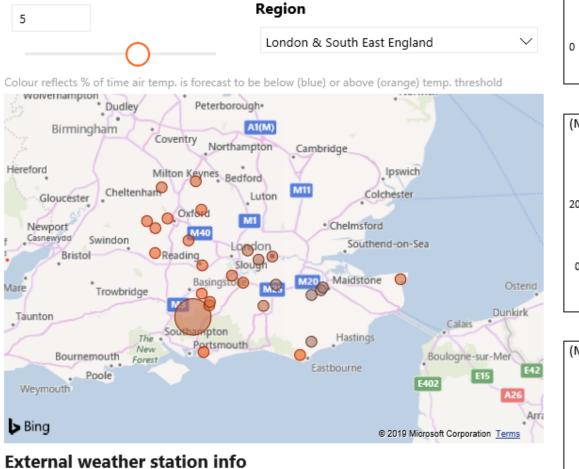
AHDB



#### SoilMonitor

This tool uses Environment Agency and SEPA rainfall data from the real-time data API (Beta), soil temp. and rainfall data from Agrii Metquest and forecast air temp. data from iteris ClearAg.

#### Temperature threshold

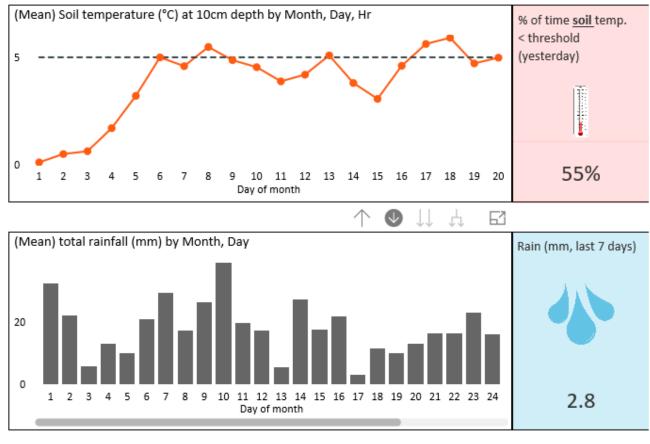


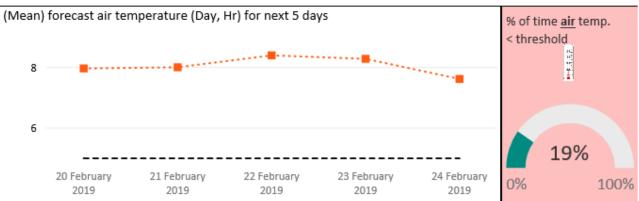
AHDB

ClearAg<sup>O</sup>

Agrii

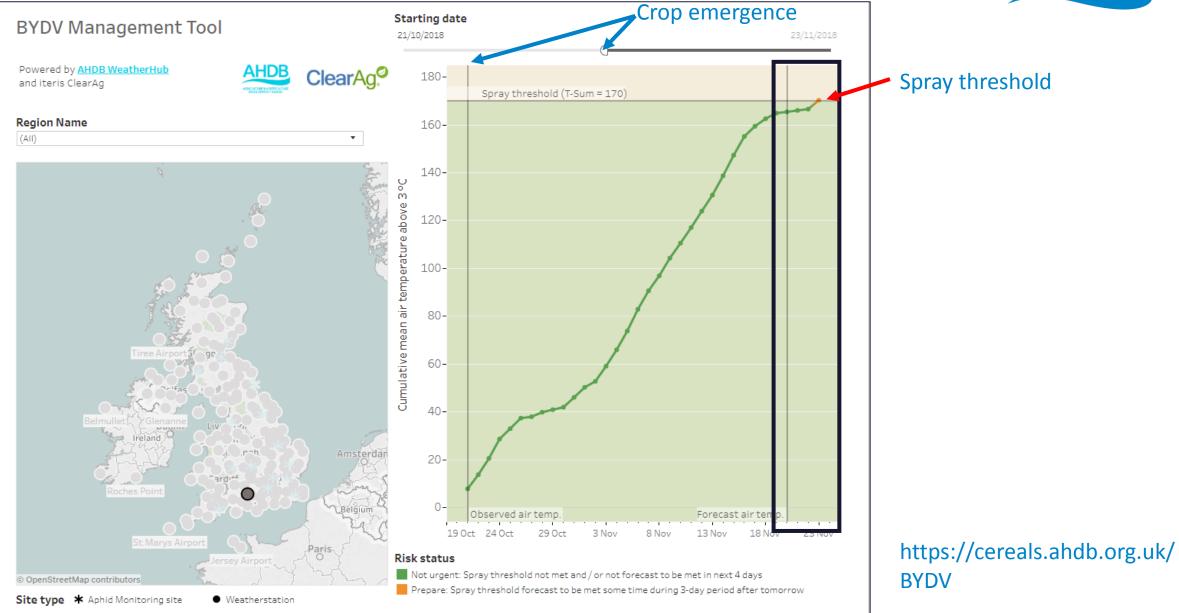
	Source	ID	Location ▼	Hyperlink	Ô
	CEH-COSMOS	CEH_COSMOS48	Wytham Woods	ବ	

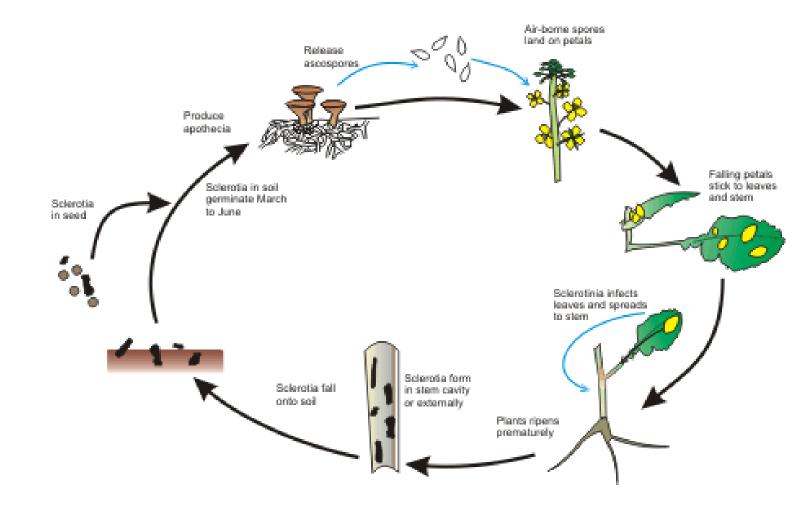




#### **BYDV tool**





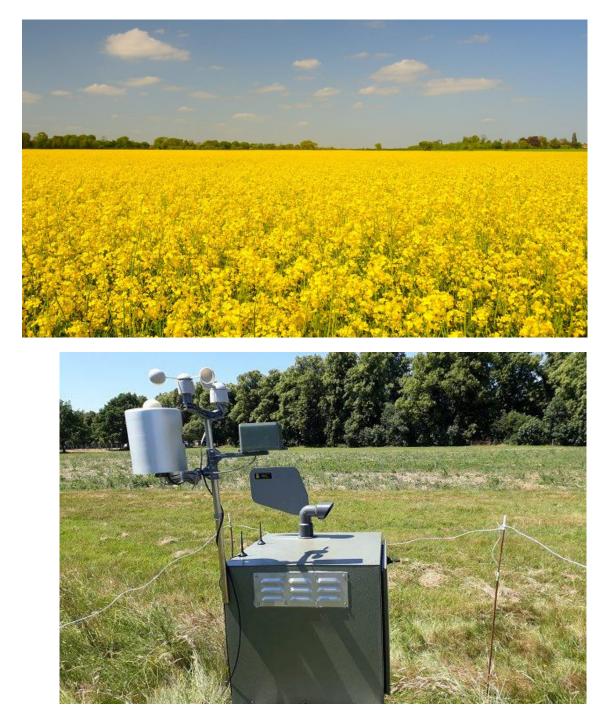






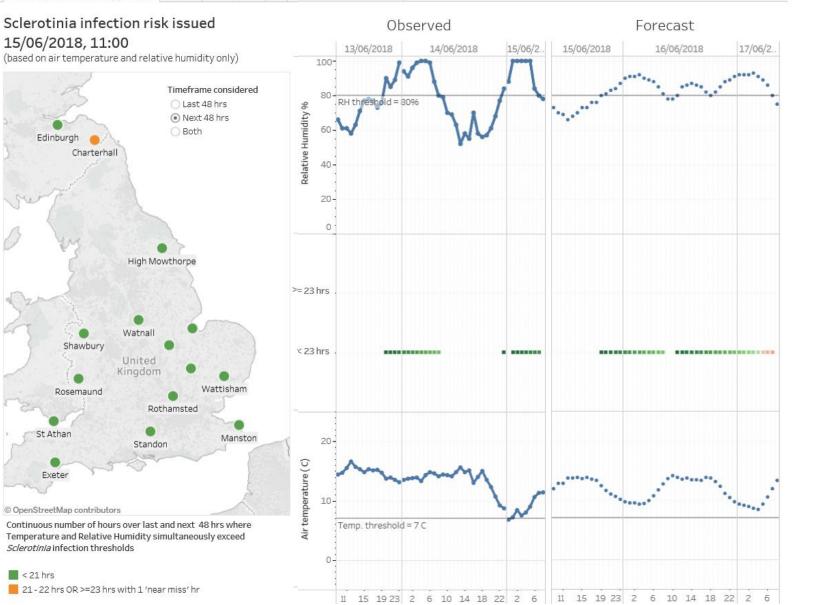
#### Risk period

 Relative humidity >80% + air temperatures are at, or above, 7°C for more than 23 hours



Sclerotinia Decision Support T... Mobile Historic analysis Limiting factor analysis

< 21 hrs



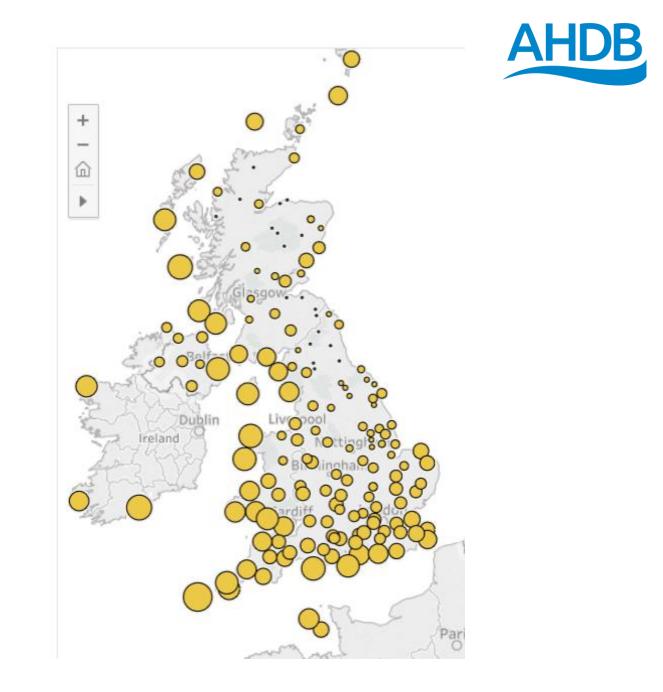


**D** • BASF We create chemistry





Symbol size indicates number of days where weather conditions were conductive to sclerotinia infection from 6th April to 20th May 2018



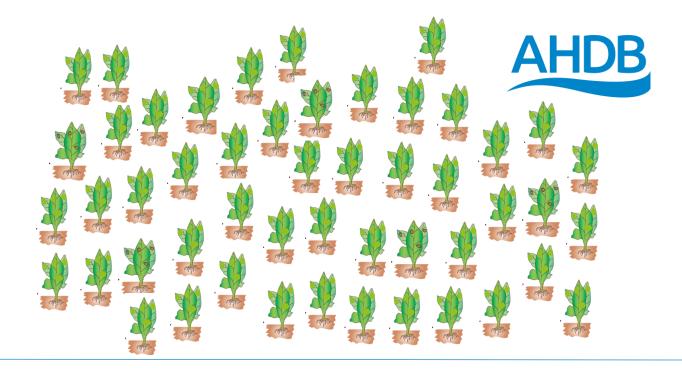
#### Phoma forecasting





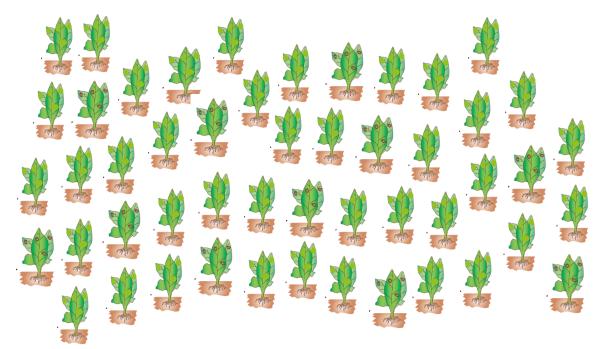
# Recommended List phoma rating 7 or below

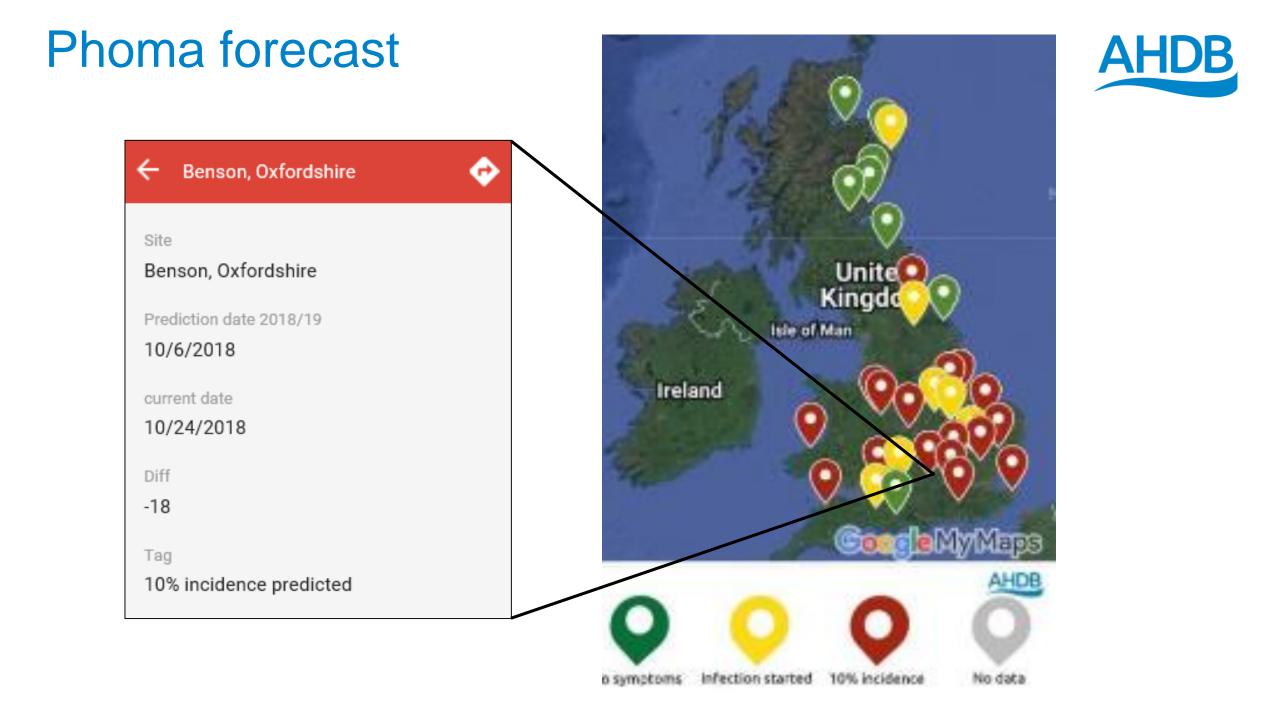
Spray when 10-20% plants have phoma leaf spots



Recommended List phoma rating 8 or 9 (DK Secret, Aquila)

Spray when 20% plants have phoma leaf spots







### https://ahdb.org.uk/tools



# Thank you

Catherine.garman@ahdb.org.uk

**Solution** @CatherineGar4







United Oilseeds & AHDB Joint Seminar 2019

# Thank You

Chaired by Andrew Cragg, United Oilseeds