

In This Issue: Spotlight on Pesticide Resistance

Pesticide resistance is one of the biggest challenges facing arable farming today. Whether dealing with **pests, weeds** or **diseases**, heavy reliance on chemicals increases the pressure on these organisms to adapt and thrive despite pesticide applications. That's why **IPM** and **resistance management** go hand in hand. When IPM is used well, it helps reduce the need for chemicals and lowers the chances of resistance developing. But once resistance sets in, non-chemical IPM tools may be the only options left.

In this issue, we're shining a spotlight on resistance—rounding up key messages from the **AHDB Resistance Roadshow** and pointing you towards **Resistance Resources** to help tackle the problem.



Webinar: Understanding how climate change will affect plant pests and diseases

Monday 23rd February, 4-5pm

Hosted by Warwick Crop Centre

Dr Catherine Bradshaw

More information & free registration [here](#)

Webinar: Where trees meet bees: Agroforestry for pollinators

Tuesday 24 February, 7-8:15pm

Hosted by the Soil Association

Ben Raskin + pollination experts



More information and free registration [here](#)

The AHDB Resistance Roadshow: A Summary

Over the winter, the **AHDB Resistance Roadshow** has been travelling around the UK, bringing together farmers, advisers and resistance specialists to share the latest insights. At the **Morpeth Resistance Roadshow** on **10th February**, **Lynn Tatnell** (ADAS), **Sacha White** (AHDB) and **Fiona Burnett** (VI) shared updates on the current status of herbicide, insecticide and fungicide resistance.



Ellie Dearlove, Senior Knowledge Transfer Manager at AHDB running the workshop session at in Morpeth on 10th February

After hearing from each resistance specialist, an engaging workshop followed covering the practicalities of different resistance management scenarios on-farm. Regional farmers, advisers, students and researchers shared their perspectives during the lively session and the discussions which continued over free sandwiches.

Bringing weeds, pests and diseases into the same conversation highlighted how often the same principles apply: **preventative, IPM-led approaches** and **monitoring** to keep an eye on how well products are performing remain two of the most important tools for managing resistance across the board

“One of the most informative meetings I’ve attended in 25 years”

Simon Trenary, Wiltshire



Links to relevant projects and initiatives

[IPMNET](#) | [Farm-PEP](#) | [IPMWORKS](#) | [AdvisoryNetPEST](#) | [IPM Decisions](#)



The AHDB Resistance Roadshow: Key Messages

Fungicides

- ❖ **Reduce the dose:** lower doses and fewer applications prolong fungicide efficacy
- ❖ **Mix and alternate:** mixing and alternating MoA used offers the best protection
- ❖ **Curative vs protectant use:** timing and strategy matters, but protectant applications may reduce the need for future applications



Insecticides

- ❖ **Follow label rates:** unlike fungicides, insecticides must only be used at their full rate to minimise resistance risk.
- ❖ **Present danger:** at least 10 species have developed resistance to pyrethroids
- ❖ **Importance of maintaining pyrethroid efficacy:** in many cases, limited alternatives are available

Herbicides

- ❖ **Follow label rates:** use the right herbicide, follow label rates and application timings
- ❖ **Mix it up:** use a wide range of MoA groups, avoid repeat use of the same MoA in one season
- ❖ **Avoid high-risk MoA groups:** e.g. ALS (sulphonylurea) and ACCase (fops, dims and dens)
- ❖ **Monitoring and testing:** know your weed populations and test for resistance every 2-3 years



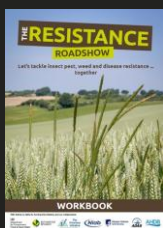
The AHDB Resistance Roadshow Final Dates

Events will run 9am-2pm
Lunch will be served at 1pm

[19th February N Ireland](#)

[25th February South East](#)

Resistance Roadshow Workbook



Developed to support the Resistance Roadshow events, the workbook contains practical tips on resistance management.

For a digital version email:
laura.james@ahdb.org.uk

Resistance Management Resources

Missed the Roadshow? Don't panic, check these resources instead

AHDB Knowledge Library Resources:

- [AHDB Resistance Resource Hub](#)

Useful Videos:

- [Overview of Insecticide Resistance Management](#)
- [Overview of Fungicide Resistance Management](#)
- [IPM Science & Practice Series: Two-part How to Manage Fungicide Resistance Videos \(Parts A & B\)](#)



Resistance Action Groups:

- [The Fungicide Resistance Action Group \(FRAG-UK\)](#)
- [The Insecticide Resistance Action Group \(IRAG-UK\)](#)
- [The Weed Resistance Action Group \(WRAG UK\)](#)



Resistance Action Committees:

- [Fungicide Resistance Action Committee \(FRAC\)](#)
- [Herbicide Resistance Action Committee \(HRAC\)](#)
- [Insecticide Resistance Action Committee \(IRAC\)](#)

Monitoring and Resistance Testing Services:

- [ADAS Herbicide resistance testing](#)
- [ADAS Insecticide resistance monitoring and testing](#)



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