SFI IPM test & trials and farmer adoption of the scheme

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Agri-environment schemes

Environmental land management schemes

We are introducing three new schemes that reward environmental benefits: the Sustainable Farming Incentive, the Local Nature Recovery schemes and the Landscape Recovery scheme.

Together, these schemes are intended to provide a powerful vehicle for achieving the goals of the 25 Year Environment Plan and our commitment to net zero emissions by 2050, while supporting our rural

Through these schemes, farmers and other land managers may enter into agreements to be paid for delivering the following public goods:

- · Clean and plentiful water
- Clean air
- · Thriving plants and wildlife
- Reduction in and protection from environmental hazards
- · Adaptation to and mitigation of climate change
- · Beauty, heritage and engagement with the environment.

- encourage uptake of IPM
- better recording of IPM

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2022 and 2023. By





Environmental Land Management: Tests and Trials

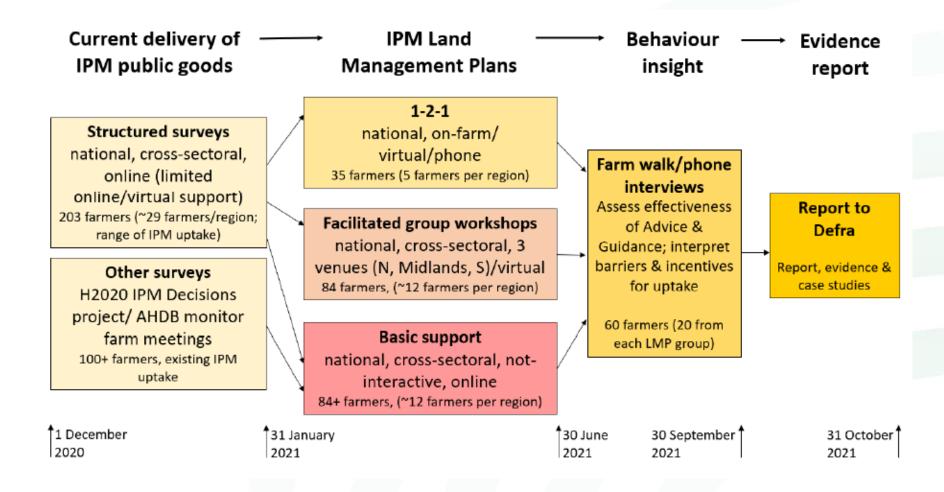


- Effective IPM planning and recording
- Advice & guidance
- Payment mechanisms
- Drivers of behaviour





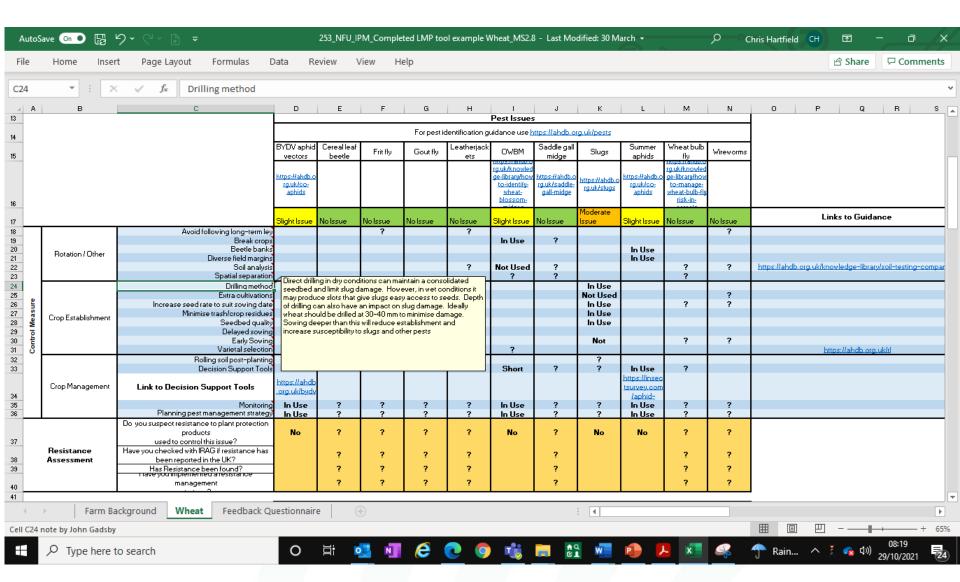








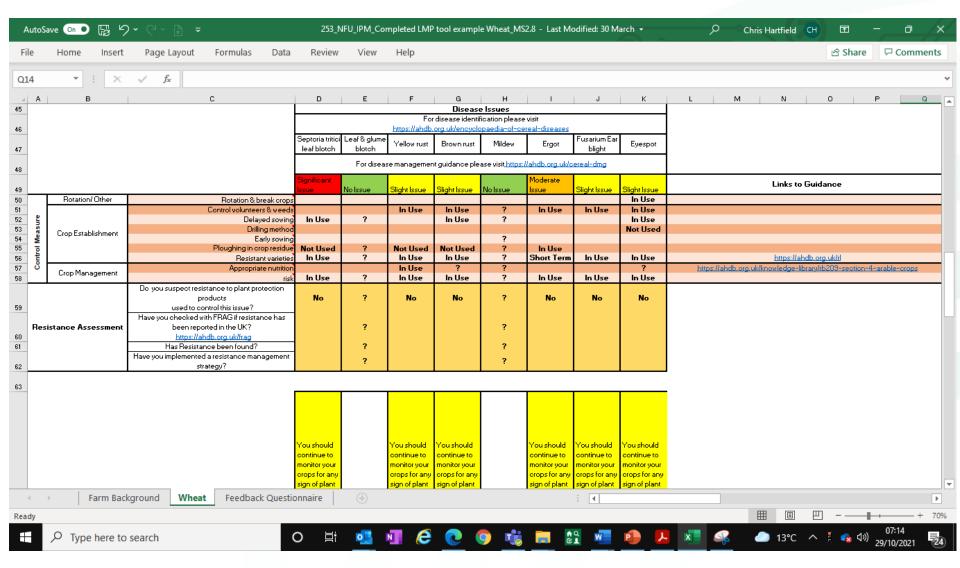








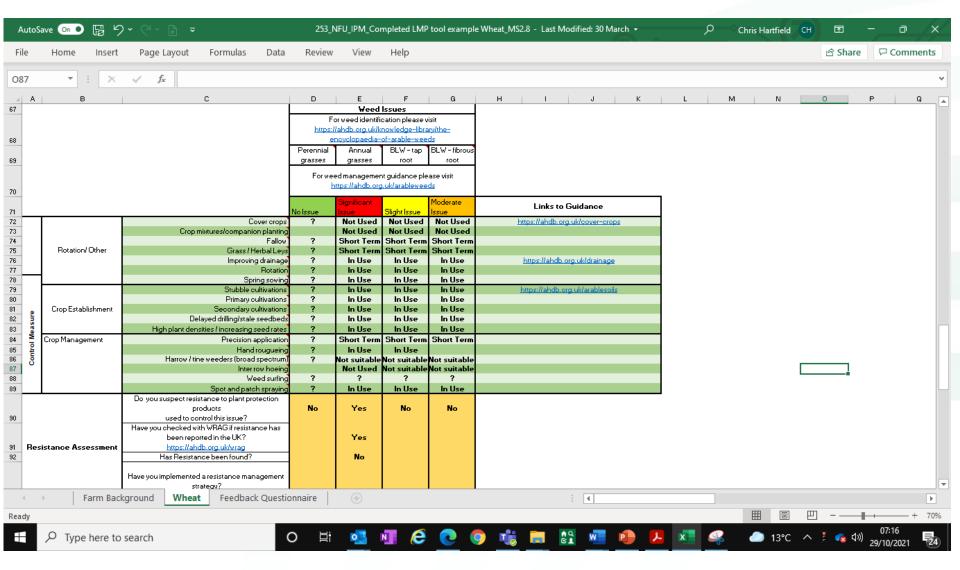








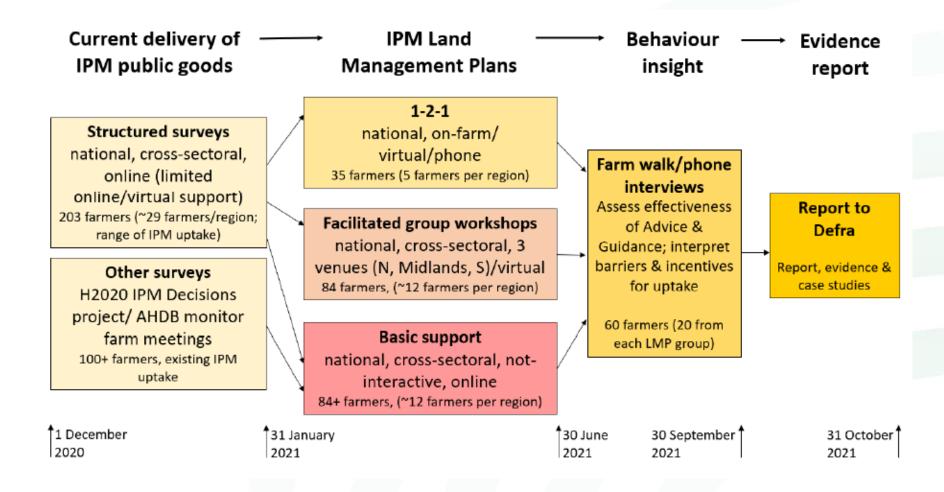


















Findings – IPM tool

- 274 farmers completed VI IPM assessment plans
- mean IPM score = 68/100
- 88% would recommend IPM tool to other farmers
- completing IPM tool & creating report took 1-2 hours
- increase in IPM 12-38% for arable crops, 2-21% for grassland
- commitment to adopt new IPM measures similar across groups receiving different levels of support







Findings – Advice & Guidance

- 65% already had good understanding of IPM
- 25% of workshop participants, 17% of 1-to-1, 0% of self-completer's views on IPM changed by project
- 89% would continue to use IPM advice & guidance in future land management planning
- Preference for 'face-to-face' advice, & agronomist's involvement would be beneficial







Findings – Payment Mechanisms

- 'economic' & 'environmental' drives use of IPM advice
- 'economic', 'lack of knowledge of IPM', & 'mindset or habits' - key barriers to uptake of IPM practises
- 76% cited 'economic' factors as important enabler/reason to implement more IPM practises
- 50% cited 'economic' factors are biggest enabler, followed by 'good advertisement of IPM' & 'education'
- £100 didn't encourage 'opt-ins' to participate in this project







Conclusions – IPM tools & planning

- IPM tools needed for each key crop
- IPM tools focussed on effective evidence-based **IPM** actions
- Widespread use of IPM tool would
 - Enable farmers to create detailed IPM plans
 - Guide users towards effective IPM actions
 - Provide users with links to further guidance
 - Record current implementation of IPM
 - Record commitments to implement additional **IPM**







Conclusions – Advice & Guidance

- Guidance & support to complete IPM tool should include
 - Short written guidance
 - Online video presentations
 - Technical helpline (to resolve IT issues)
- Guidance could be strengthened with interactive virtual workshops
- Fill gaps in evidence of effectiveness of IPM actions
- Engage crop consultants to support farmers implementing SFI IPM actions







Conclusions – Payment Mechanisms

- VFM IPM ELM should be focussed on key crops & key pests
- key crops & pests should reflect public good aims of IPM
- key crops & pests selected should be those where there is substantial & practically feasible opportunities for greater IPM
- how will environmental land management payments relate to SFI?







SFI IPM Test & Trial extension A

- Co-design of the SFI IPM Standard
 - checking paid actions against the evidence
- Incentive payment rates
 - farmer workshops choice experiments
- Developing an online IPM Tool
 - user friendly online tool for expanded range of crops
- Advice and guidance
 - Written and video guidance enabling easier use of IPM tool







Conclusions

- Co-design of the SFI IPM Standard
 - In-field non-cropped areas +/-
 - Crop Rotation +/+
 - Precision application +
 - Biopesticides and low risk PPPs +/-
 - Use of decision supports systems +
 - Pest and disease resistant varieties +
 - Crop hygiene and prevention +/-







Conclusions

- Incentive payment rates
 - flexibility is key
- Online IPM Tool
 - Interactive online tool developed; covers winter wheat, oilseed rape, winter barley, winter beans, improved grassland, sugar beet, peas, maize, potatoes, winter oats, apples and brassicas; good user feedback; made publicly available
- Advice and guidance
 - Positive user feedback, but needs regular updates







2.5 SFI actions for integrated pest management

is actions for integrated pest increasing knowledge and identifying opportunities for an integrated pest The SFI actions for integrated pest management are focused on:

- using companion cropping to suppress weeds, reduce diseases and provide creating habitats for natural crop pest predators
 - protection from crop pests
 - minimising use of insecticides

- IPM1: Assess integrated pest management and produce a plan IPM2: Flower-rich grass margins, blocks, or in-field strips They include:

 - IPM3: Companion crop on arable and horticultural land
 - IPM4: No use of insecticide on arable crops and permanent crops

These actions should help with managing crop pests, diseases and weeds more

This can help improve farm productivity by reducing costs and risks. The actions can also sustainably to minimise use of pesticides. provide a range of environmental benefits, such as:

increased biodiversity

improved water, soil and air quality





£1129/year £798/ka/year - £55/ka/year -£45/ka/year







SFI IPM Test & Trial extension B

- Engaging 'hard to reach' farmers and low IPM adopters
- Refining the online IPM Tool
- IPM planning...IPM implementation...desired public good outcomes







Farmer adoption of SFI IPM actions

- > 8,500 farmers applied to SFI
- > 6,000 agreement offers issued
- 35,000 live Countryside Stewardship agreements
 - 8,200 new agreements started in 2023
 - 8,600 agreements starting in 2024
- 8,000 HLS agreements







https://www.ipmtool.net



What is the IPM Tool for?

The tool provides specific guidance on the IPM control measures that are relevant to the crops you grow, and the particular pests, weeds and diseases that are a problem on your farm.

Using the Tool will also complete and record an IPM plan for your crops.

How do I use the IPM Tool?

For a short video showing how to use the tool, click here.

Video guidance on using the tool →

Introductory videos on IPM:

Arable here →

Grassland here →

Horticulture here →

Written guidance on IPM here:

Apple →

Brassicas →

Improved Grassland →

Maize →

Oilseed Rape →

Peas & Beans →

Potatoes →

Sugar Beet →

Wheat, Barley & Oats →

Weeds →

Who created the IPM Tool?

The tool was produced by crop protection and IPM specialists at ADAS and SRUC.

It links to guidance from AHDB and other independent sources, and development of the Tool was funded by Defra as part of a Test and Trial project.





















