# 'Protecting Water'

Phil Jarvis Voluntary Initiative Chair

*BCPC 9<sup>th</sup> Nov 2022* 



An industry led programme. promoting the responsible use of pesticides through an IPM-based approach

### **History**

Set up in response to the threat of a pesticide tax, the VI started with a five year term, running from 2001 to 2006.

- Planning
- Sprayer Testing
- Operator Training
- Adviser training & qualification
- Adoption of best practice

Heightened level of professionalism has produced a clear level of accountability from the farming industry.





### NSTS

2011 saw the most number of sprayers ever tested under the NSTS, at over 14,200 machines. They represented 86% of the UK sprayed area and with over 62% of these machines requiring repair or rectification, the importance of tests

### is clea

### Water

An overall reduction of around 30% in levels of key indicator pesticides were observed from 2006/07 to 2010/11 in six water catchments where VI advice has been actively promoted.

### NROSO

The National Register of Sprayer Operators has seen 29,371 members join the scheme over the eight years since it began in 2003. Active membership has exceeded 20,000 since January 2005, and currently stands at 20,359.

The VI at 21



The Voluntary Initiative

**Championing IPM** (2001 – 2022)

### **Wider Strategy Group**







### **Community Interest Company**

Agricultural Engineers Association
Agricultural Industries Confederation
Country Land and Business Association
CropLife UK

National Association of Agricultural Contractors
National Farmers Union of England and Wales
National Farmers Union of Scotland
Ulster Farmers Union



## VI: facilitation across the sector



































































# **Holistic Picture**

- Nutrients
- Other water contaminants
- Integrated water plans



- National Action Plan PPP, ELMS
- Defra engagement Pesticide Forum and consultations



### **Key VI Aims**

- 1. Integrated Pest Management
- 2. Minimising the risks of pesticides to surface and ground water
- 3. Minimising risks and impacts of pesticides to wildlife
- 4. Training and Education
- National Register of Spray Operators (NRoSO)
  - National Sprayer Testing Scheme
    - IPM Plans





**VI Dedicated Water Group** 











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Working together for a healthy environment

### **Websites & Webinars**

### Advice

Everything you need to help keep pesticides out of water.



### Farming and Water Scotland Advice Page on Pesticides

Pesticides such as herbicides, fungicides, and insecticides can all cause problems for wildlife and water quality. Here's information on...



### OSR Herbicides?: Think Water!

A VI Stewardship Scheme to build on existing best practice to protect water and avoid restrictions on these products



### Check It Out

A VI tool to help farmers and sprayer operators review and improve spraying practices and so reduce the risk of pesticides reaching water.



### H2OK? Best Practice Advice

A summary of best practice advice for keeping pesticides out of water.



### Responsible Use

Responsible use means getting the basics right all the time.



Water Protection Advice Sheets



### Propyzamide, Product and Pest Management.

10 November 2021 Free Webinar - "Propyzamide, Product and Pest Management."



### What's going on in my Farmyard

01 September 2021 Top Tips for Filling, Mixing and Maintenance



Let's talk Oilseed Rape IPM Seed, Site and Sprays

28 July 2021 This webinar outlined those challenges and discussed how an IPM-based approach can help mitigate some of those challenges.



### IPM: Pests, Predators & Pollinators

16 June 2021

The second in our series of webinars was attended by ~70 attendees and resulted in some lively discussion. Copies of the presentations ca...



### Protecting Water

26 May 2021

Protecting Water" attracted 80 attendees and produced a lively session. This was held on Zoom on Wednesday 26th May from 16.00-17.00.



### **Websites & Webinars**



### Cropping **Decisions and IPM** Oliseed rape plays a valuable part in many farm rotations as a break and 'cleaning' crop, especially where black-grass is a problem. However, keeping herbicides out of drinking water sources is key to preventing restrictions on use, or even loss of the products.

clopyralid propyzamide

> carbetamide clopyralid

> metazachlo

propyzamide

### Why does IPM matter?

### Do you need to grow winter oilseed rape?



### Reducing drainflow losses

### Why does reducing drainflow matter?

carbetamid

clopyralid

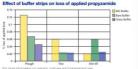
metazachio

propyzamide

Reducing run-off with grass buffer strips carbetamide clopyralid

propyzamide on use, or even loss of the products

### Why do grass buffer strips matter?



Why does tramline management matter?

quinmerac

### Tramlines on moderate slopes:

### Herbicide application

Oilseed rape plays a valuable part in many farm rotation as a break and 'cleaning' crop, especially where black grass is a problem. However, keeping herbicides out of drinking water sources is key to preventing restrictions on use, or even loss of the products.

Why does application matter?

### Assessing the Risks

Oliseed rape plays a valuable part in many farm rotations as a break and 'cleaning' crop, especially where black-grass is a problem. However, keeping herblicides out of drinking water sources is key to preventing restrictions on use, or even loss of the products.

### What are the risks?

Mhat are the risks on your farm, fields and soils?

### Local Risks

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clopyralid

metazachlor

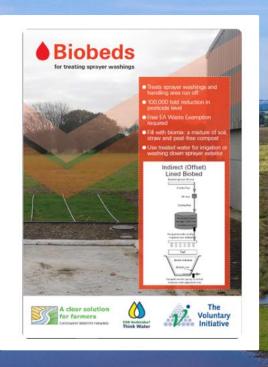
propyzamide

Crop protection for arable and livestock farms





### **Websites & Webinars**





a healthy environment

The Environment Agency's resources for farmer's page

The Environment Agency provides a useful tool that can be used to determine if your farm drains into a drinking water protected area safeguard zone.

The map has recently been re-designed to be easier to use and more informative. This should be consulted regularly o ascertain which, if any, pesticides are causing concerns in your area so that you can take steps to help address here.

To use the Water Safeguard Zone map, enter your location (postoole), draw a box (or shape) around your farm and then click on the highlighted actions on the right for any surface water protection zones and groundwater protectio zones specific to your location. Check out this <a href="handy.guide">handy.guide</a> that highlights and takes you through some of the improvements.

You can visit the EA's page here.



# Protecting Water

- Jim Orson (NIAB and the VI Board) How to stop water running downhill?
- Sarah Jones (Dwr Cymru/Welsh Water) –
  PestSmart and weed wiping for rush control in
  grassland.
- Danny Coffey (Affinity Water) Reducing OSR herbicides in water
- Mark Buckingham (Bayer Crop Science) Using Glyphosate successfully and responsibly for harvest management
- Jim Egan (Kings Crops) Buffers and the Environment.

For NRoSO/BASIS points, email info@voluntaryinitiative.org.uk







### **Knowledge and CPD**



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**OPERATOR** 



BeeConnected NRoSO Points



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NROSO - Farmers Weekly



NRoSO CPD Point Sources | Vo...



NRoSO CPD Point Sources | Vo...



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BASIS / NROSO CPD Points | P...

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### On the Farm











### **New IPM Plans**

- Based on research of Henry Creissen et al., 2019
- Based on Agronomic and Social Science
- IPM Score 0-100
- Arable (Broad acre) IPM Plan launched Dec 2020
- Grassland IPM Plan launched Jan 2021
- Horticulture plan launched in April
- Scottish version developed





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Pages 3144-3152



across arable farms; therefore, the aim of the project reported here was to establish a universal metric for quantifying adoption of IPM in temperate arable farming. This was achieved by: (i) identifying a set of key activities that contribute to IPM; (ii) weighting these

in terms of their importance to the achievement of iPM using panels of expert stakeholders to create the metric (scoring system from 0 to 100 indicating level of IPM







### KPI's



Year	IPM type	Respondents
2022	Arable	4560
2022	Grassland	307
2022	Hort/Potato	136
2021	Arable	4372
2021	Grassland	269

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