

## Voluntary Initiative Update – Herbicides in Water / IPM Survey

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Industry sponsors:









## The Voluntary Initiative @ 21

- Initiated 2001
- Raft of measures to self regulate and ensure "Best Practice" use of plant protection products (PPP's)
- Three main instruments:
  - 1. NRoSO (National Register of Sprayer Operators), 21K members
  - 2. NSTS (National Sprayer Testing Scheme), 16K sprayers tested 2022
  - 3. IPM Plan























IPM key to strategy for VI and Govt.

- IPM central to the VI's Best Practice message
- Positive dialogue with government to shape redraft of National Action Plan (NAP) and more recently the IPM Sustainable Farming Incentive (SFI) Standard
- Similar discussions with relevant organisations for other devolved nations



### VI: Facilitation Across the Sector































































## Stewardship Programmes























Campaign for Responsible Rodenticide Use

Connecting beekeepers and farmers



#### The Oilseed Rape Herbicides Stewardship Group

- Propyzamide
- Carbetamide
- Quinmerac
- Clopyralid
- Metazachlor























#### Pilot catchments



- 1. River Kym (AngW)
- 2. Mimmshall Brook (AffW)
- Instead Brook (E&S)

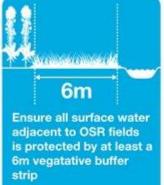


#### Oilseed Rape Herbicides Stewardship Messages

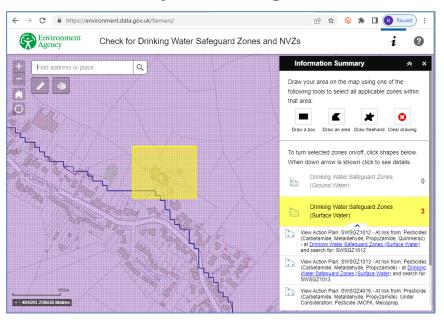
#### Three steps:

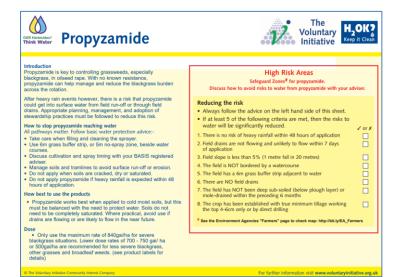
- Use The Environment Agency's Drinking Water Safeguard Zone (DWSgZ) map website
- 2. Speak to agronomist or Catchment Officer about potential run-off on field by field basis
- 3. Use best practice agronomy to help protect water by implementing the following:



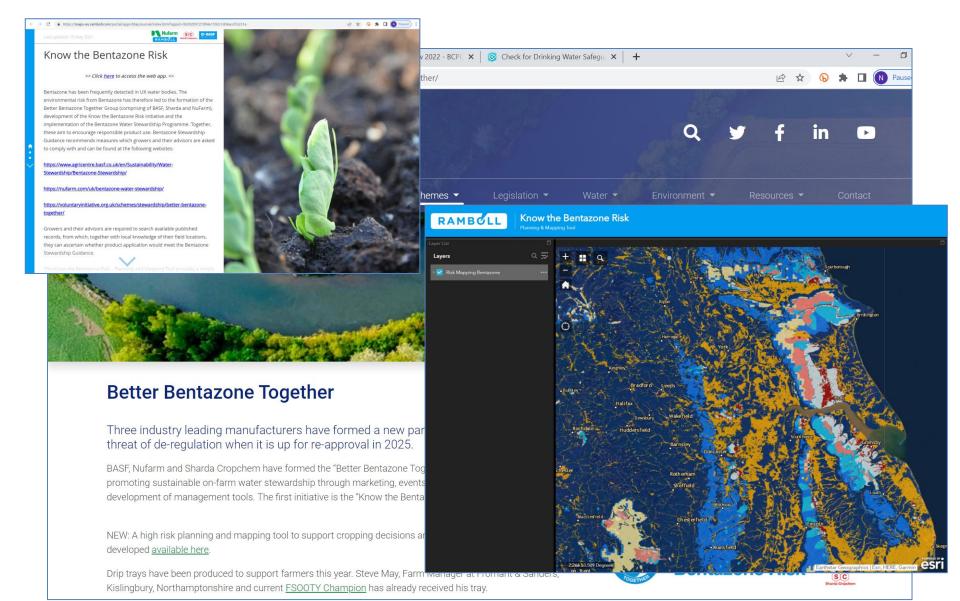








## Better Bentazone Together



#### **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 later in April 2022
- Scottish version developed
- Broad Acre and Grassland to be revamped late 2022



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#### Abstract

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#### BACKGROUND

The impetus to adopt integrated pest management (IPM) practices has re-emerged in the last decade, mainly as a result of legislative and environmental drivers. However, a significant deficit exists in the ability to practically monitor and measure IPM adoption 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











Metrics
Citations: 2





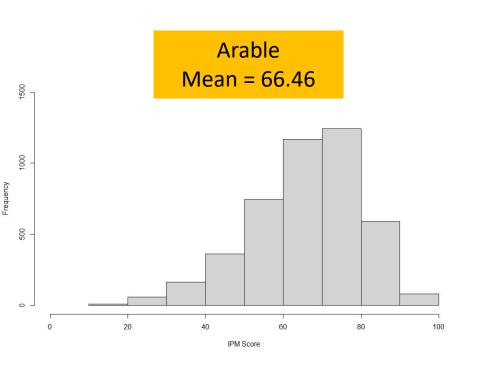
## IPM Plans - Figures

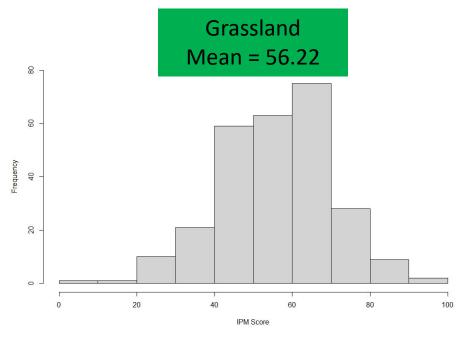
Year	Plan type	Respondents
2022	Arable	4560
2022	Grassland	307
2022	Hort/potato	136
2021	Arable	4372
2021	Grassland	269





### **IPM** scores

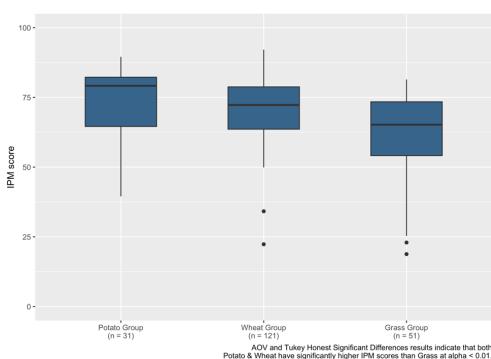






## Significantly different?

- NFU Test and Trial Study
- Those completing IPM Plans offered the ability to "opt in"
- More detailed study using crop specific Crop **Management Plans** (developed by ADAS)
- Grassland not quite scoring as highly as Horti/potato or arable
- Also looking at barriers to uptake







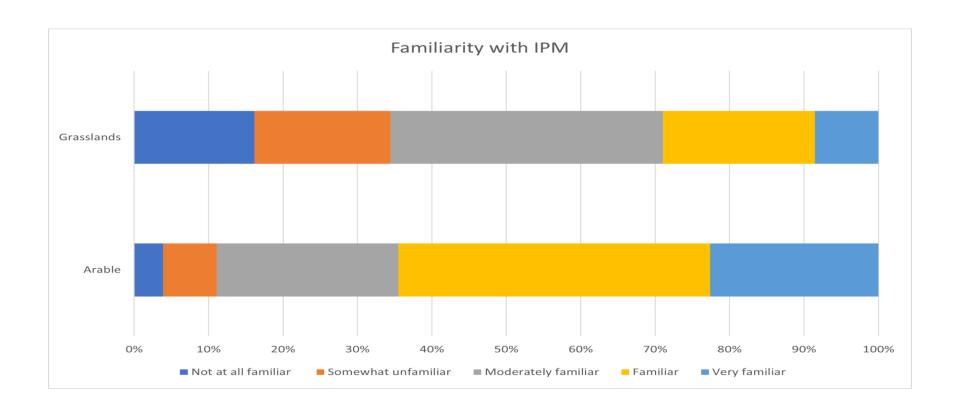




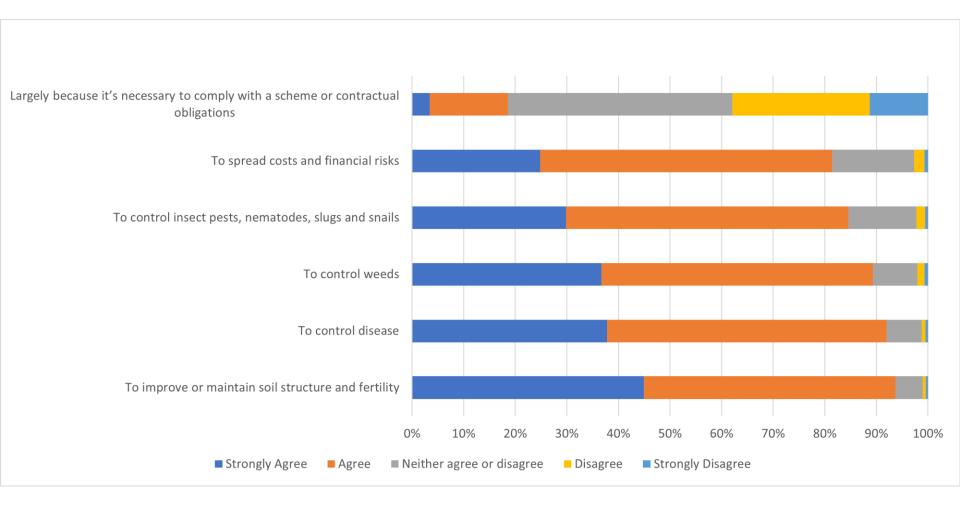


## Familiarity with IPM

 Almost 90% of Arable completers were at least "moderately familiar" with IPM. Grassland 65%



## If you typically use an arable rotation, why do you do this?

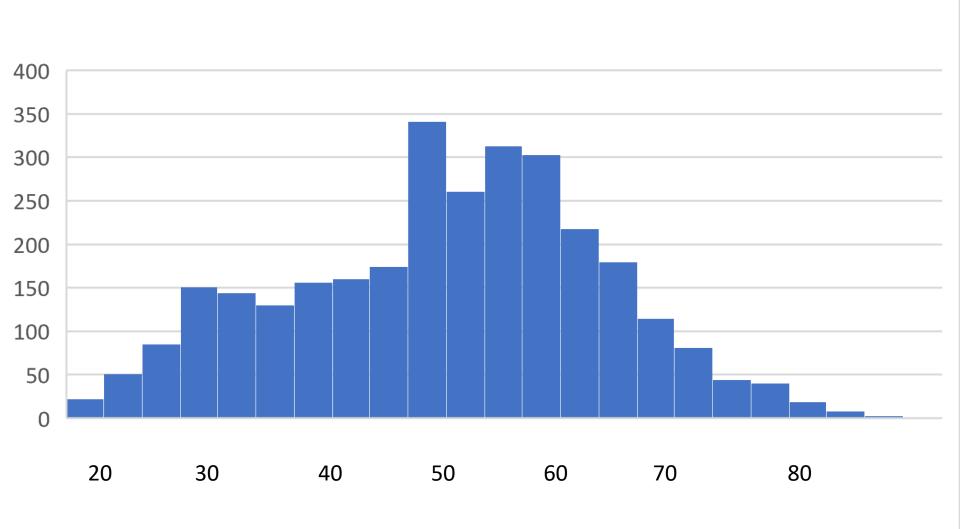


## Other types of questions/data

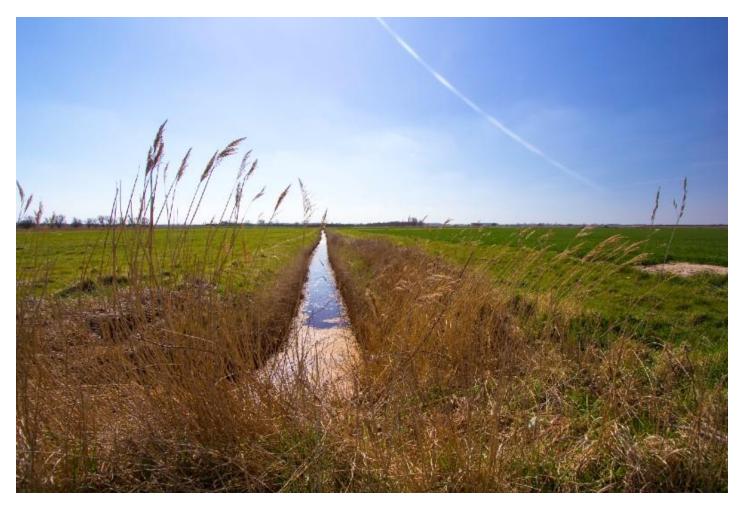
- Do you consider cultivations as part of your IPM strategy?
- Please indicate what cultivations you do?
- Estimate the % of cultivated land that is currently ploughed?
- What influences your choice of crops grown?
- What factors do you consider when developing/evaluating your integrated pest management plan, either alone or with an adviser at the start and during the season?
- Do you currently use any Decision Support Systems?
- Others on level of education? / participation in farmer discussion groups? / location? / etc.
- Statistical analysis being done in collaboration with colleagues at Anglia Ruskin University



## Age?



## Any Questions?





# CropTec Event: The VI @ 21; Past Present and Future

- First day of CropTec, Weds 23<sup>rd</sup> Nov, 15.00
- Panel discussion, IPM-based approach to sustainable farming
  - Matt Culley, NFU Crops Board Chair
  - Hazel Doonan, Head of Agronomy and Crop Prot, AIC
  - Matt Redman, Contractor, AHDB Monitor Farm and VI Champion
  - Steve May, Sprayer operator,
     Current FSOOTY Champion and
     Chair Northants Bee Keepers
     Assoc



