Disease Challenges in High Value Crops: The Manufacturer’s View

Alan Horgan
Technical Specialist
Open Only in an Emergency?

Ever tighter restrictions on use...a challenge for our industry
High Value Crops

• Definition
  – Harvested by non-combinable equipment
  – Soft/top fruit
  – Ornamentals (forestry nurseries)
  – Leafy/fruiting salad crops
  – Protected potatoes
  – Early/late vegetable production
Why do we need High Value Crops?

- Varied diet/food security
- Economic:
  - Employment
  - Import substitution
- Plant diversity
Challenges

- Resistance
- Crop Safety
- Registration
- Future weather patterns
- Engineering developments
- Political/NGO pressures
- Range of varieties/new crops
- Changes in growing practices
Resistant diamondback moths now capable of surviving winter

21/11/2017 | 16:21

A 'super pest' moth resistant to a class of common plant protection is now also capable of surviving through the UK's cold winter conditions, according to new research.

Diamondback moth (DBM) caterpillars feed on crops including cabbage, broccoli, swedes and Brussels sprouts, causing cosmetic damage, which could result in the loss of up to 100 per cent of the crop. Brassicas were worth more than £200m to UK agriculture last year.
And of course interlopers eg Xylela (Bacteria) – potential threat on oak.
Registration Challenges

• Return on investment (ROI)
  – Increasing costs (environmental impact)
  – Increasing time scales (& national differences)
  – Market size
• Data generation costs: “$250 million” new active
• Preliminary meeting: £5200 (expensive for minor crop)
• Risk versus hazard classification
• Crop hierarchies – groupings/residue (LODs)
• Move from conventional chemistry to biorationals
  – Best practice/expectations
  – Definition of control/reduction/suppression - variable
Registration Challenges(2)

• Substitution
• Parallel Imports – disincentive to invest
Future Challenges

• New competitor products
• Revocations
• Crop changes
  – Weather related
  – Lack of resources
  – New crops/varieties
• Political/public views
• Work force skills

• BREXIT…what’s the deal!
21st Century Effects

- Advancement in computational processes
  - ‘singularity’
  - Modelling
- Robotics
- Genetics
- Point application
- Planning timelines
Certis’ Solutions Today

- Biorationals/Organic Acceptance
  - Botanigard
  - Agree 50
  - Amylo-X
  - Majestik/Eradicoat
  - Spruzit
  - Karma
  - Jet 5

- Best practice guidance

- Certis stewardship support
Full Potential - How?
Broad Approach Required

- Monitoring
- Application
- Anti-resistance strategies
- ICM/IPM
- Managing expectations
- Stewardship

Sustainability
Thanks for your attention

- Alan Horgan
- Technical Specialist
- horgan@certiseurope.com
- Mobile 079 00 276 385
- Technical Hotline Service: 0845 373 0305