



The James
Hutton
Group

IPM@Hutton



ipm.hutton.ac.uk

IPM

Integrated Pest Management (IPM) is an approach to managing pests, pathogens and weeds whilst enhancing environmental and economic sustainability. Methods (tools) for monitoring, risk prediction and control are brought together in toolboxes based on specific crops. IPM strategies combine the tools, which operate synergistically to reduce environmental impact and economic risk.

IPM@Hutton mission: Showcasing the breadth of IPM research and expertise at the James Hutton Institute, fostering collaborations with national and international research partners and promoting the uptake of IPM solutions within agriculture.





Expertise

The James Hutton Institute employs around 150 scientists contributing to IPM. Diverse research activities include the identification of host resistance, breeding of resistant cultivars and agricultural economics - **a breadth of expertise which is unique in the UK.**

Our research is supported by world-class facilities, enabling investigation across scales from molecules to ecosystems. Research is underpinned by; chemical and isotope analytics; modelling; genomic, proteomic and metabolic platforms; advanced microscopy; international crop germplasm collections; laboratory and field sites (arable, horticulture, grassland, moor and woodland), farms, glasshouses and poly-tunnels.



Healthier plants for
a healthier world



IPM@Hutton seeks to make an impact by developing IPM solutions through:

- Industry collaborations
- Commercial field and glasshouse trials
- Research partnerships
- Consultancy opportunities
- Product development

Find out more at our website: ipm.hutton.ac.uk

Or on Twitter: @IPMHutton

Contact us by email: IPM@Hutton.ac.uk

Or by telephone: +44 (0) 344 928 5428



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LINKING ENVIRONMENT AND FARMING

INNOVATION CENTRE



Research Topics



Detection and monitoring:

Developing robust methods for detecting, quantifying and monitoring key pests and pathogens

Pest and disease resistance:

Breeding pest and disease resistant crop varieties

Rotations, cultivations and crop diversity:

Management choices to build soil structure and fertility and reduce pest problems

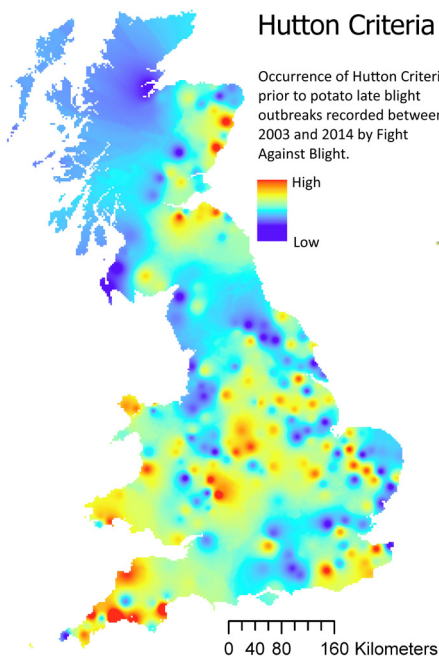
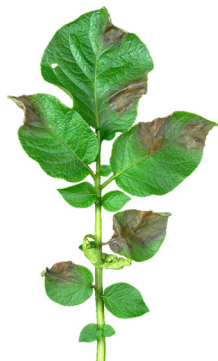
Weed management: Manipulation of field systems through crop variety, crop sequence and soil tillage





Hutton Criteria

Occurrence of Hutton Criteria prior to potato late blight outbreaks recorded between 2003 and 2014 by Fight Against Blight.



Research Topics

Biocontrol: Suppression of key pests and pathogens by biocontrol agents to reduce population 'boom and bust' cycles

Alternative crop protectants and biopesticides: Biologically derived alternative pesticides

Biodiversity and pollinators: Management systems supporting populations of pollinators and predators of key pests

Landscape management and ecological engineering: Design of pest-suppressive landscapes as part of area-wide IPM strategies

