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| **Minor Award Name** | **Plant Protection** |
| **Minor Award Code** | 5N2546 |
| **Level** | 5 |

**Some suggested resources to support delivery:**

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| **Theme/Topic** | **Type** | **Relevance** | **Author/Source** | **Web Link** |
| **Horticultural Pests, Diseases, Disorders and Weeds** | Website | Horticultural Pests | Royal Horticultural Society (RHS) | <https://www.rhs.org.uk/advice/plant-problems/pests> |
| Website | Diseases and Disorders | Royal Horticultural Society (RHS) | <https://www.rhs.org.uk/advice/plant-problems/diseases-disorders> |
| Website | Troublesome Weeds to Watch out for | Royal Horticultural Society (RHS) | <https://www.rhs.org.uk/advice/plant-problems/weeds> |
| Website | List of garden pest and diseases found in Ireland | Irish Garden Magazine | <http://www.garden.ie/gardeningtroubles.aspx> |
| Website | THE LIFE CYCLE OF BUTTERFLIES AND MOTHS (LEPIDOPTERA) | Reg Fry  UK Lepidoptera Society | <http://www.ukleps.org/morphology.html> |
| Website | Find you moth | Moths of Ireland | <http://www.mothsireland.com/find-your-moth> |
| Website | Ladybird, Butterfly, Bumblebee, Dragonfly and Shieldbug identification swatches | Biodiversity of Ireland | <http://www.biodiversityireland.ie/shop> |
| Website | Online directory of butterflies | Butterfly Conservation UK | <http://butterfly-conservation.org/50/identify-a-butterfly.html> |
| Video | Easy Guide to Pests & Diseases | The Horticultural Trades Association (HTA) | <https://youtu.be/rNppCQ7YBAc> |
| Video | Imported Plant Diseases Lecture by Professor Chris Gilligan | Prof Chris Gilligan Gresham College | <https://youtu.be/WfOFK_Xzvvc> |
| Cultural, Chemical and Biological Methods of Pest & Disease Control | PDF | Environmental Assessment when using Anticoagulant Rodenticides in Ireland | Campaign for Responsible Rodenticide Use (CRRU) | <http://www.crru.ie/download/environmental-assessment-when-using-anticoagulant-rodenticides-in-ireland/?wpdmdl=15625> |
| Website | Weed Control | Fruithill Farm | <https://www.fruithillfarm.com/protect-your-plants/weed-control.html> |
| Website | Pest & Disease Deterrents | Fruit Hill Farm | <https://www.fruithillfarm.com/protect-your-plants/pest-and-disease-deterrents.html> |
| Website | Feed your plants | Fruit Hill Farm | <https://www.fruithillfarm.com/feed-your-plants.html> |
| Website | Cultural Weed Controls measures discussed here with website links and presentations | Garden Organic | <https://www.gardenorganic.org.uk/cultural-weed-controls> |
| Website | **This is an invaluable website. What is the pest or disease is covered, the symptoms and the prevention and or treatment** | Garden Organic | <https://www.gardenorganic.org.uk/pests-and-diseases> |
| Website | Vegetable Pests & Disease Control & Prevention | Klaus Laitenberger Green Veg Seeds | <http://www.greenvegetableseeds.com/vegetable-pests-diseases> |
| Website | Glyphosate the Debate | Garden Organic | <https://www.gardenorganic.org.uk/glyphosate-debate> |
| Website | Pest Control with Insecticides | Irish Garden Magazine | <http://www.garden.ie/gardeningtroubles.aspx?id=623> |
| Website | Control of Diseases with Chemicals | Irish Garden Magazine | <http://www.garden.ie/gardeningtroubles.aspx?id=657> |
| PDF | 74 page document covering all fertilisers, chemicals sundries etc used in the horticultural industry | National Agri Chemical Distributors (NAD) | <http://www.nad.ie/uploads/2/5/3/3/25338613/nad_product_guide_landscape.pdf> |
| Website | Biological Weed Control using organic principles | Garden Organic (formerly HDRA) UK | <https://www.gardenorganic.org.uk/direct-weed-controls#biological> |
| Website | Different types of Biological Control | Cornell University | <http://www.biocontrol.entomology.cornell.edu/what.html> |
| Website | Biological Pest Control Measures | RHS UK | <https://www.rhs.org.uk/advice/profile?PID=506> |
| Website | All you need to know about Nematodes | BASF / Nemasys | <http://www.nemasysinfo.com/about-nematodes/what-are-nematodes> |
| Video | All about Nematodes | Harrod Horticultural UK | <https://youtu.be/iyc-A-BgeBM?list=PL45F6A0BF66AD2FDF> |
| Video | Crop Rotation | Quickcrop  Sligo | <https://youtu.be/zJRBHHX3zBg> |
| Video | Supernemos Application | Paul Woods Kilmurry Nursery & GC Barr | <https://youtu.be/5NAUAN5pA3Q> |
| **Legislation / Health & Safety** | Article | From November 26, 2015, a new EU directive governing all aspects of pesticide use will require all professional users of these products to be registered. | Stephen Cadogan Irish Examiner March 2014 | <http://www.irishexaminer.com/farming/profile/ipm-and-sud-spell-out-the-latest-farming-rules-260969.html> |
| Booklet | Guidance for Professional Users under the Sustainable Use of Pesticides Directive (SUD) | Dept. of Agriculture | <http://www.pcs.agriculture.gov.ie/media/pesticides/content/sud/FAQ%20-%20SUD%20Guidance%20for%20PUs%20%20-%20Nov%202015.pdf> |
| Booklet | Guide to EC Plant Passport System including a list of Notifiable Diseases | Dept. of Agriculture | <http://www.agriculture.gov.ie/media/migration/farmingsectors/planthealthandtrade/Guidetoplantpassportsystem310712.pdf> |
| Website | Up to date links and information on SUD via Teagasc website | Teagasc | <http://www.teagasc.ie/crops/sustainable_use_directive> |
| Booklet | Your Steps to Chemical Safety - A guide for Small Business | Health & Safety Authority Ireland | <http://www.envirocentre.ie/includes/documents/Your_Steps_to_Chemical_Safety.pdf> |
| Booklet | Guidance on Management of Manual Handling in the Workplace | Health and Safety Authority of Ireland (HSA) | <http://www.hsa.ie/eng/Publications_and_Forms/Publications/Occupational_Health/Guidance_Manual_Handling.pdf> |
| Booklet | Pesticide Information & Advice for the User in the Farm, Home and Garden | Irish Agricultural Supply Industry Standards (IASIS) | <http://www.iasis.ie/Documents/Copy%20of%20Guide%20for%20Amateur%20Users%20Final.pdf> |
| Booklet | Good Practice Guide for Empty Pesticide Containers | Irish Agricultural Supply Industry Standards (IASIS) | <http://www.iasis.ie/Documents/Triple%20Rinse%20Practice%20Guide%20from%20EPA%20and%20DAFM.pdf> |

**Useful Organisations:**

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| --- | --- |
| **Name** | **Contact Information** |
| Health & Safety Authority | <https://www.hsa.ie> |
| Environmental Protection Agency | <https://www.epa.ie> |
| Dept of Agriculture Food and the Marine | <https://www.agriculture.gov.ie> |
| Royal Horticultural Society | <https://www.rhs.org.uk> |
| Garden Organic | [https://www.gardenorganic.org.uk](https://www.gardenorganic.org.uk/) |
| Met Eireann | <http://www.met.ie/> |
| The Irish Garden Magazine & Website | <https://www.garden.ie> |
| Greenside Up | <http://greensideup.ie/> |
| Biodiversity of Ireland | <http://www.biodiversityireland.ie> |

**Other Resources:**

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| **MOOCs (Massive Online Open Courses)** | |
| Online courses delivered mainly by Universities and Colleges worldwide.  Useful to search regularly for new courses and new start dates. Most courses are free. Charge often applies if assessment and certification is required.  Provide excellent CPD for individuals or resources that can support teaching and learning. | What is a MOOC?  <https://www.youtube.com/watch?v=eW3gMGqcZQc>  Providers of MOOCs  e.g.  <https://www.mooc-list.com/>  <https://www.coursera.org/>  <https://www.udemy.com/>  <http://www.extension.harvard.edu/open-learning-initiative>  <https://www.uclaextension.edu/pages/search.aspx?c=free+courses>  <http://oyc.yale.edu/> |