

Plant Biosecurity: Delivering a healthier future for Scotland's plants and trees

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What am I going to talk about?

- What is plant security and why is it important?
- What can local authorities do?
- How can APSE help?



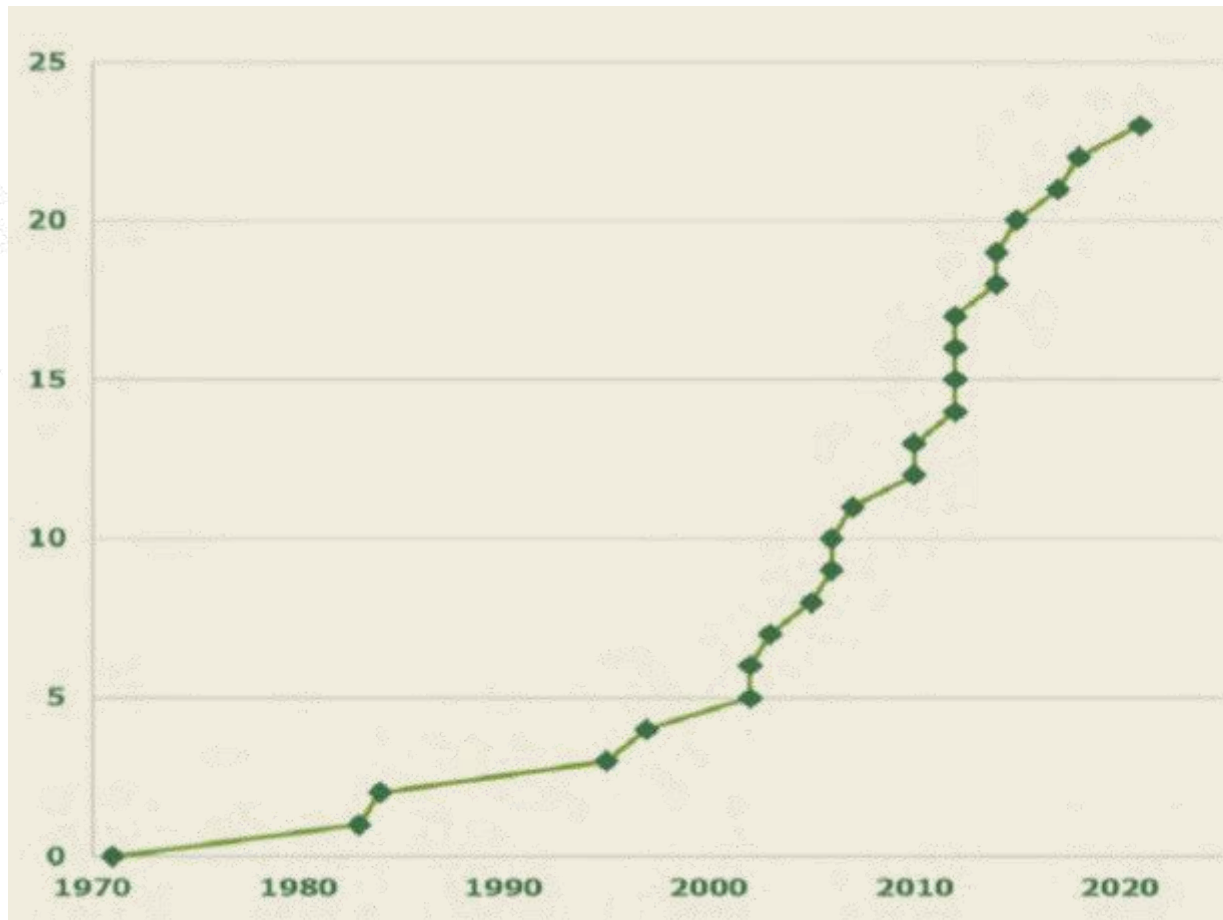
What is plant-biosecurity?



What has caused the problem?

- World-wide transportation
- Agriculture - plants grown to meet human needs
- Climate change
- Growing resistance to pesticides

Increase in new pests and disease outbreaks affecting trees since 1971



- What is happening?
- What are the problems?
- What's the plan?

New pest/disease outbreaks since 1971

1971	Dutch elm disease	2010	Acute oak decline
1983	Great spruce bark beetle	2010	Phytophthora lateralis
1984	Phytophthora alni	2012	Ash dieback
1995	Gypsy moth	2012	Asian longhorn beetle
1997	Dothistroma needle blight	2012	Sweet chestnut blight
2002	Phytophthora ramorum	2014	Phytophthora sikiyouensis
2002	Horse chestnut leaf miner	2014	Sirococcus tsugae
2003	Phytophthora kernoviae	2015	Oriental chestnut gall wasp
2005	Bleeding canker of horse chestnut	2017	Elm zigzag sawfly
2006	Oak processionary moth	2018	Eight toothed spruce bark beetle
2006	Phytophthora pseudosyringae	2021	Phytophthora pluvialis
2007	Pine tree lappet moth		

A triple threat...

The Triple Threat:

- Climate Change
- Food Security
- Biodiversity Crisis



Everything is linked - this is a systems issue.

Invasive non-native plants can...

- Change ecosystems and habitats.
- Outcompete native plants.
- Take a long time to become invasive.
- Be expensive to eradicate.



Asian Longhorn Beetle photo credit FERA



Oak processionary moth

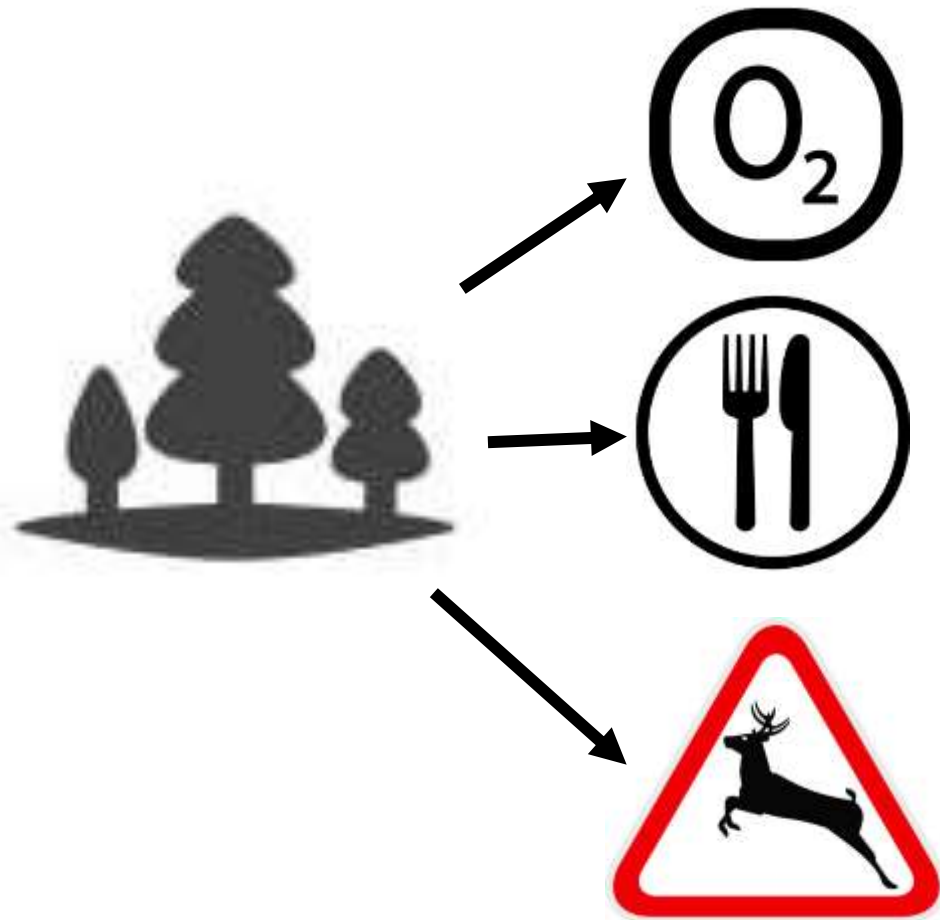


Hymenoscyphus fraxineus – Ash Dieback



Photo credit Paul Beales and David Crossley

Why is plant-biosecurity important?

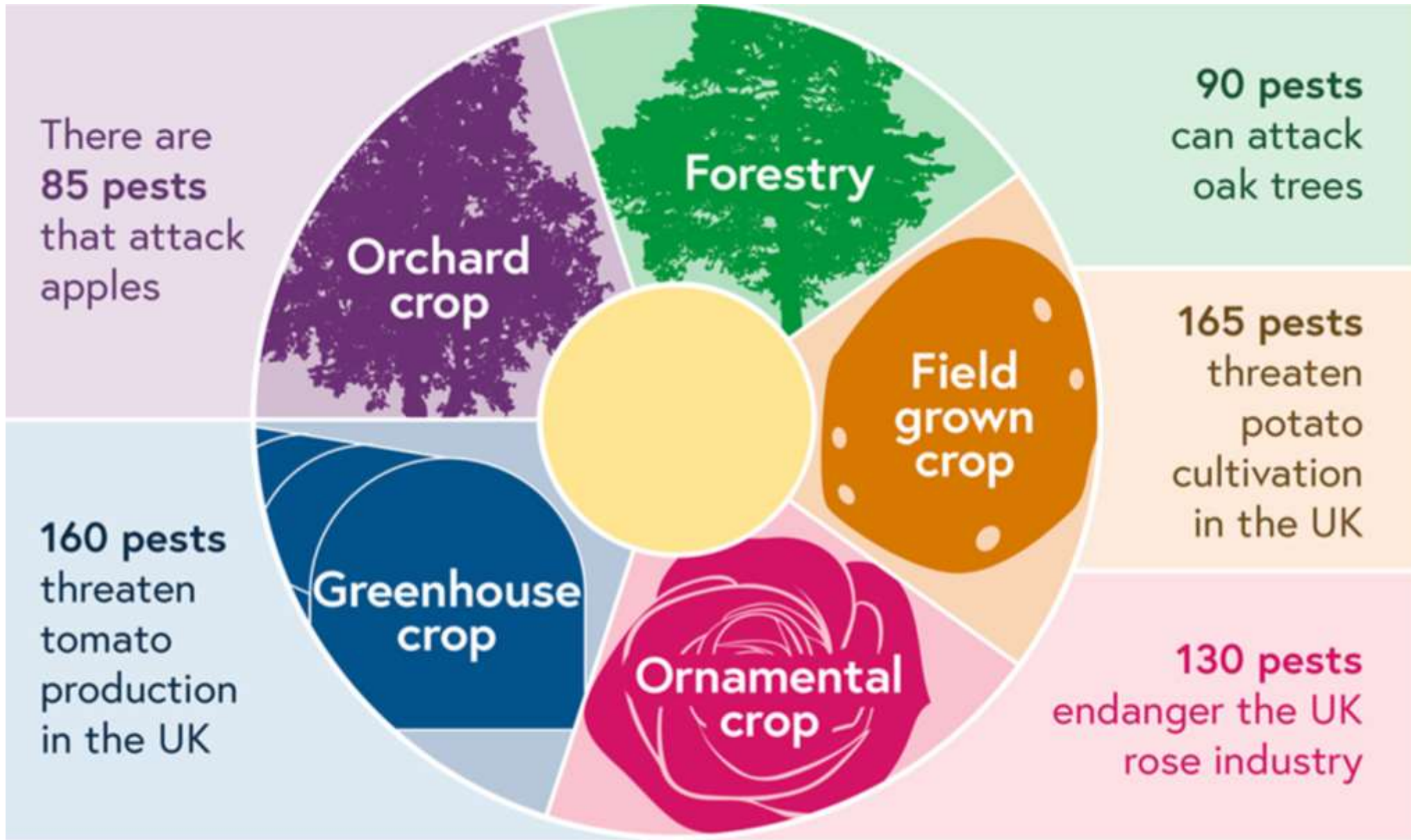


98% of the oxygen we breathe is produced by trees and plants

80% of the food we eat is provided by plants

80% of the world's terrestrial species of animals, plants and insects live in forests etc.

Potential Pest Threats



Plant-biosecurity in Great Britain 2023 - 2038

In conjunction with Scottish and Welsh Governments

Outcome 1: World class biosecurity regime

Outcome 2: Society that values healthy plants

Outcome 3: Biosecure plant supply chain

Outcome 4: Enhanced technical capability



Himalayan balsam

Scottish legislation



Scottish Government
Riaghaltas na h-Alba
gov.scot

Scottish Government has responsibility

“for protecting Scotland's high plant health status and the economic benefits it brings.”

Scotland's Plant Health Strategy aims to:

- demonstrate the importance of safeguarding Scottish plant health to protect and enhance Scotland's economy and natural environment
- indicate how Scotland will take forward the Plant Biosecurity Strategy for Great Britain
- ensure SG and stakeholders work together to protect plant health in Scotland

What can councils do?

*“(Plant Biosecurity is) an area of responsibility which impacts not only on current and future generations, but also the very survival of humans as a **species.**”*

Adopt plant biosecurity measures



What can local authorities do?

1. Develop a local plant biosecurity policy, strategy and action plan.
2. Embed plant biosecurity into existing plans(e.g. tree strategy)
3. Controlling the waste from invasive non-native species
4. H&S PPE (e.g Giant Hogweed)
5. Good practice cultivation, plant hygiene and natural enemies - minimise chemicals.
6. Consider contamination - keep equipment clean
7. Source plants responsibly
8. Report early signs of disease
9. Work with neighbouring authorities and other stakeholders
10. Inform the public...

How can APSE help?



Contact us

The team is ready to help.

Please direct enquiries to: training@apse.org.uk | 0161 772 1810

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