

Responding to tree pests and diseases in urban green spaces

Barnaby Wylder – Forestry Commission Plant Health Forestry team

Presentation content



- The urban tree/pest and disease interface
- Reporting tree pest and disease symptoms
- Mitigating measures



 Lots of potential pathways to introduce pests and diseases



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- Trees frequently under additional stress









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- Trees frequently under additional stress
- Presence of Invasive Non-Native Species







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- Trees frequently under additional stress.
- Presence of Invasive Non-Native Species
- Unfortunately, a perfect mixing pot!

NNSS GB non-native species secret) ariat	Stop to main content Contact U	s About Us Sile i	map Login		toomont	attish With County Office Bild County	
							verseas territories	
Home GB Co- Ne ordination ev Home > Species Information >	ws & Species ents aierts	Species Biosecurity & prevention	Training Projects	Local Action Group pages	Legislation & P Regulation &	Search this site	Search	
Search the GB Non-native Species Information Portal Use the Portal to find distribution data and other useful information for all non-native species in GB.								
Simple Search								
Enter species name (scientific or common)								
Search	The Porta	l provides access	to distributio	on data for	over 3000	non-native s	pecies in GB	
Popular portal searches 1. <u>American Builfrog</u> , Lihobetes catesbelanus 2. <u>American Lobster</u> , Homarus americanus 3. <u>Asian Homet.</u> Vecep evicituria 4. <u>Black Builhead</u> , Amelurus melas		such as place or origin,	About the Portal The Portal provides access to distribution data for over 3000 non-native species in GB as well as additional information such as place origin, date of introduction and methods of introduction. For 300 species much more detailed information is provided, including information on identification, impacts and control methods.					
UK Plant Health Risk Register								
bepartment for Environment, Food & Rural Affairs								
Search for a Pest or Organism								
	e.g. Asian longhorn t	eetle				Search		
	Preferred Name	Synonym	Common	n Name	Host			
		Q Advanced Search		Download Entire Risk	Register			
Forestry Commission								

Example urban fungal issue





Example urban fungal threats



Example urban fungal threats



Example urban Phytophthora threats





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Images: B Wylder Forestry Commission 12

Example urban *Phytophthora* threats



Example urban bacterial threats



Example urban bacterial threats



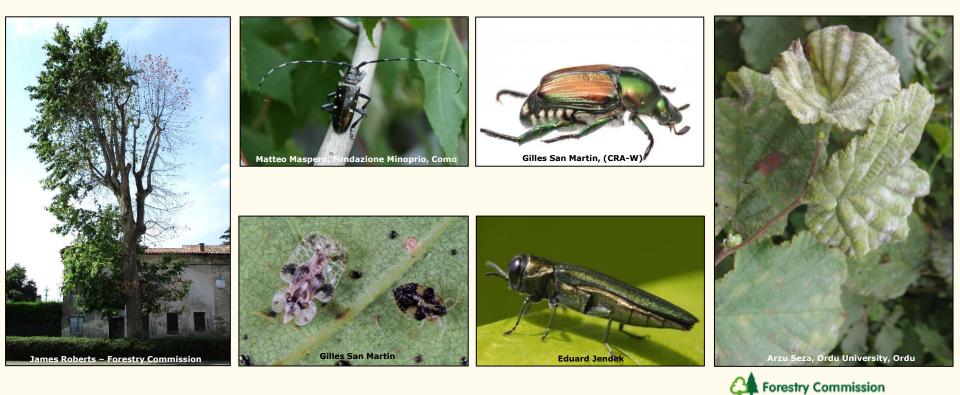
Example urban invertebrate threats



Example urban invertebrate threats



Some nearby threats...



Tree Pest & Disease sighting reporter



Tree Alert

Britain's trees are under unprecedented threat from new pests and diseases. We are particularly interested in identifying problems with ash, oak, horse chestnut, pine and sitka spruce trees. You can help by being aware of the symptoms of serious threats and reporting them for further investigation.

Typical symptoms Report a Sighting More info (website)

https://treealert.forestresearch.gov.uk

- Info required:
- About you
- About your observation (incl. grid reference and at least 3 good quality photos)





Mitigation – Awareness / preparedness

🎂 GOV.UK

Policy paper

Plant biosecurity strategy for Great Britain (2023 to 2028)

Published 9 January 2023

Department for Environment Food & Rural Affairs

UK Plant Health Information Portal

An online hub for plant health information, data and

resources

Enter the name of a pest or plant you are interested in

Start typing to see suggestions...



European and Mediterranean Plant Protection Organization

Organisation Européenne et Méditerranéenne pour la Protection des Plantes



PO ~ MEETINGS ~ ACTIVITIES ~ RESOURCES ~ M



The Great Britain Invasive Non-Native Species Strategy

2023 to 2030





Date: February 2023

uary 2023



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Enter your search

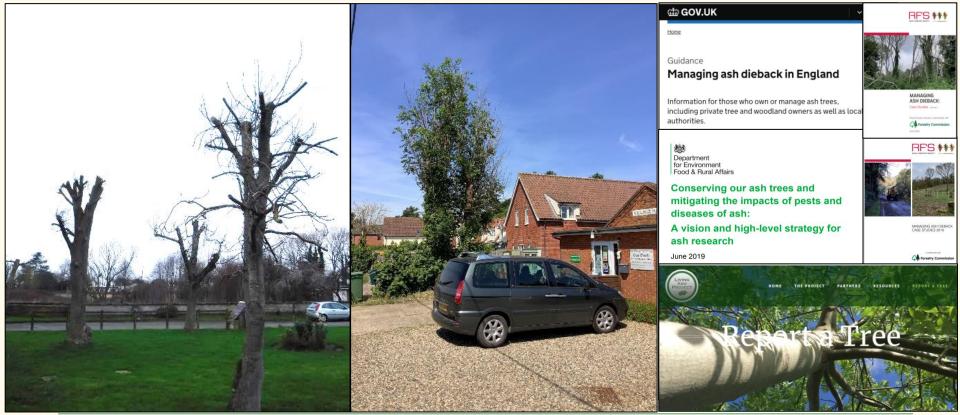
Mitigation – Planning vs reacting



Mitigation – Resilient species choice



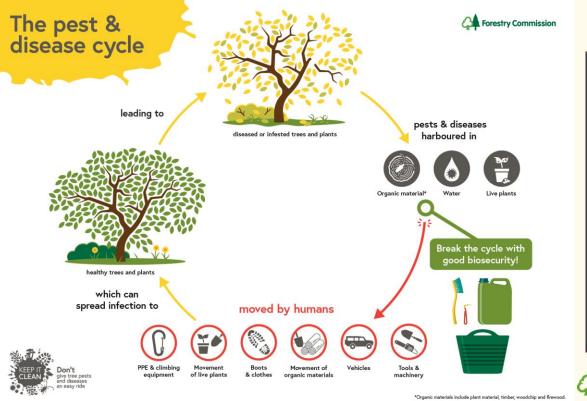
Mitigation – Threat reduction



Mitigation – Threat reduction



Mitigation – Biosecurity



apse online seminars

APSE Plant Biosecurity:

Understanding and recognising the need to implement plant biosecurity measures in order to meet the threats to the UK's plants and trees





Mitigation – Biosecurity



Mitigation – Biosecurity





BUIDAN

APPLICATION OF BIOSECURITY IN ARBORICULTURE



Principal Authors: Simon Cox and James Roberts



Biosecurity best practice for safe disposal of plant waste and spent growing media

Research has shown that plant waste and spent growing media can harbour pests and pathogens, including quarantine-regulated species such as *Phytophtora ramorum*. These organisms have the potential to spread from untreated waste piles to cultivated plants and the wider environment. This guidance aims to help the horticultural sector understand and mitigate these risks by providing some practical advice on waste manasement.

Waste and environmental legislation is a devolved issue so please note that if you are using this guidance outside Scotland, the relevant <u>national licencing</u> <u>authorities</u> will need to be contacted.*

Minimise waste and risk of infected waste material by growing clean plants

The best way to limit waste volumes and to minimise the risk of pests and pathogens proliferating in waste is to ensure that plant stock is sourced and grown to high standards of biosecurity and is monitored frequently to ensure that plants remain visibly healthy/ symptom-free. Various types of growing media ingredients and mulches (e.g. pot tops) can also harbour and be sources of pest/pathogens.





Summary:

Prepare for threats Report symptoms - TreeAlert Plan/undertake biosecurity