

**Plant Biosecurity:  
what is it and  
why is it important for  
UK local authorities?**

**Clare Bowen, The Tree Council**

# The national charity working together to...

**Fund, plant and care for  
trees and hedgerows**

**WITH TREE WARDENS &  
THE COMMUNITY**

**COMMUNITY ACTION**

**Inspire the next  
generation of young  
environmentalists**

**WITH EDUCATION  
PARTNERS & YOUNG  
TREE CHAMPIONS**

**YOUNG LEARNING**

**Use science to influence  
policy and support best  
practice on trees and the  
environment**

**WITH GOVERNMENT &  
ACADEMICS**

**PRACTICAL SCIENCE &  
RESEARCH**

**Influence tree-related  
policy**

**WITH CHARITY PARTNERS  
& TREE COUNCIL  
MEMBERS**

**PARTNERSHIP POWER**



EDITED BY  
BRIAN CLOUSTON and KATHY STANSFIELD

# AFTER THE ELM.....





# The threat is real

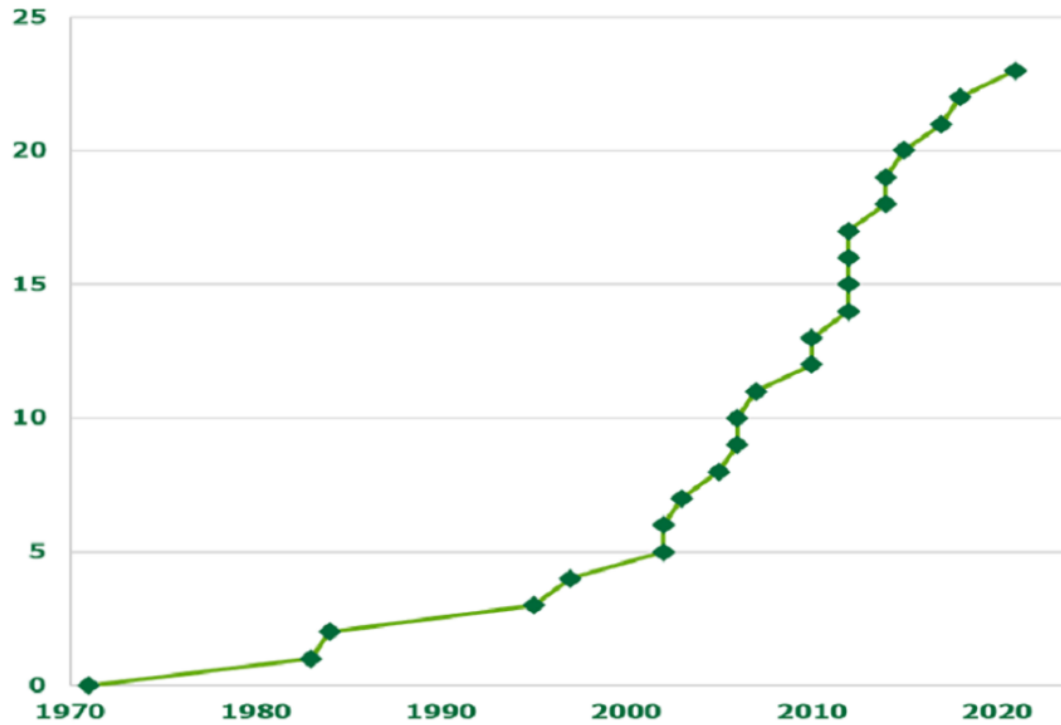


Figure 1: Graph showing a cumulative increase in the number of new pest and disease outbreaks (y axis) affecting trees since 1971 (x axis). The frequency of outbreaks has increased significantly since 2002 (Source: Forestry Commission)

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



# What do we mean by 'Biosecurity'?

A set of precautions that aim to prevent the introduction and spread of harmful organisms to our plants and trees.



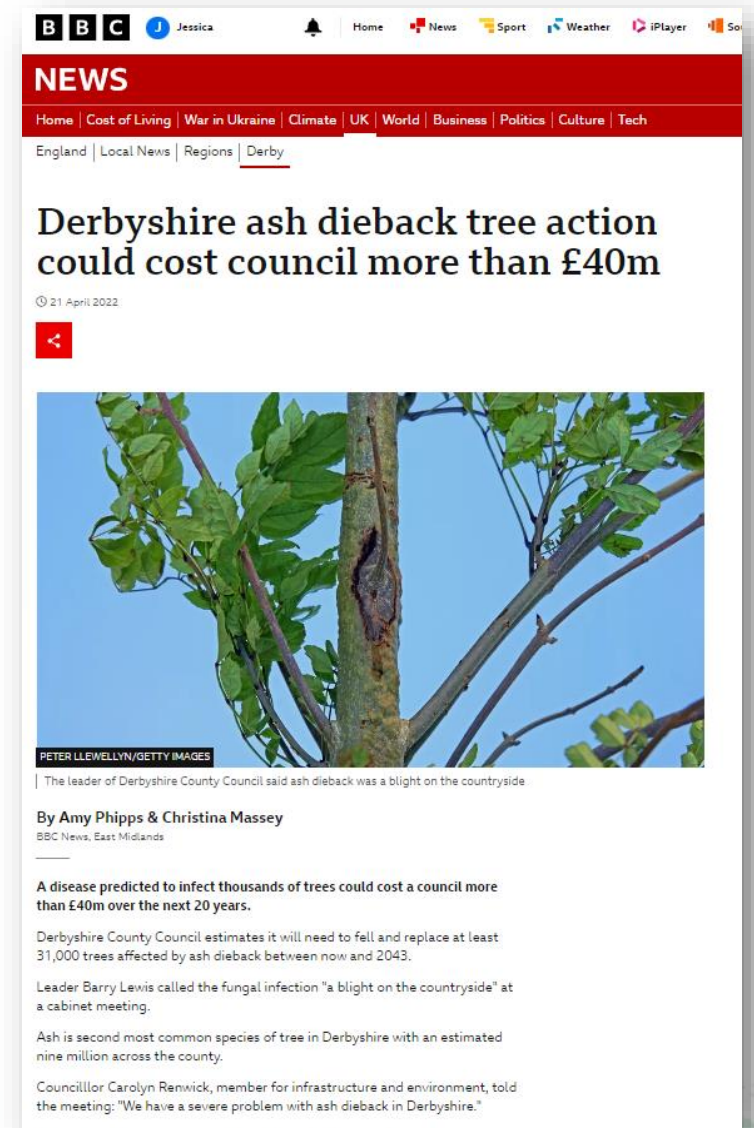
# Local authorities and tree health

## Local authorities are:

- Tree owners and managers.
- Highways authorities.
- Influencers and strategy-setters.
- Delivering treescape expansion.
- At the front-line of tree health response.

## They have significant pressures:

- Disparate levels of resourcing.
- Complex internal structures.
- Local political pressures.
- High staff turnovers.
- Effective engagement with residents and communities.



The image shows a screenshot of a BBC News article. The page header includes the BBC logo, a user profile for 'Jessica', and navigation links for Home, News, Sport, Weather, and iPlayer. The article title is 'Derbyshire ash dieback tree action could cost council more than £40m', dated 21 April 2022. A photograph shows a close-up of an ash tree trunk with a dark, irregular hole, characteristic of ash dieback. Below the photo, the article text states that the leader of Derbyshire County Council described the disease as a 'blight on the countryside' and that the council estimates it will need to fell and replace at least 31,000 trees affected by ash dieback between now and 2043. A councillor is quoted as saying, 'We have a severe problem with ash dieback in Derbyshire.'

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## Derbyshire ash dieback tree action could cost council more than £40m

21 April 2022



PETER LLEWELLYN/GETTY IMAGES

The leader of Derbyshire County Council said ash dieback was a blight on the countryside

By Amy Phipps & Christina Massey  
BBC News, East Midlands

A disease predicted to infect thousands of trees could cost a council more than £40m over the next 20 years.

Derbyshire County Council estimates it will need to fell and replace at least 31,000 trees affected by ash dieback between now and 2043.

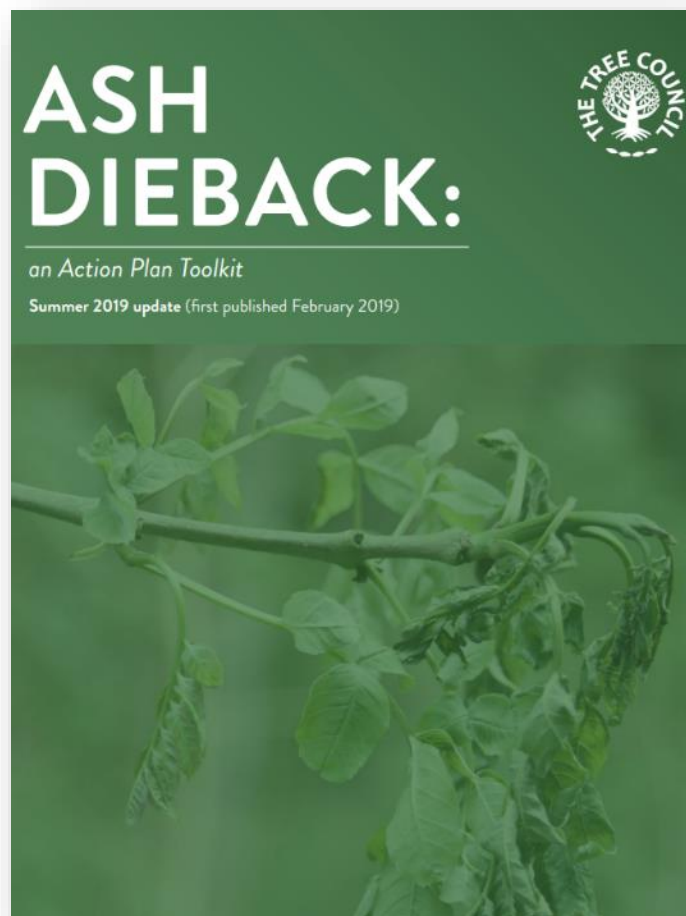
Leader Barry Lewis called the fungal infection "a blight on the countryside" at a cabinet meeting.

Ash is second most common species of tree in Derbyshire with an estimated nine million across the county.

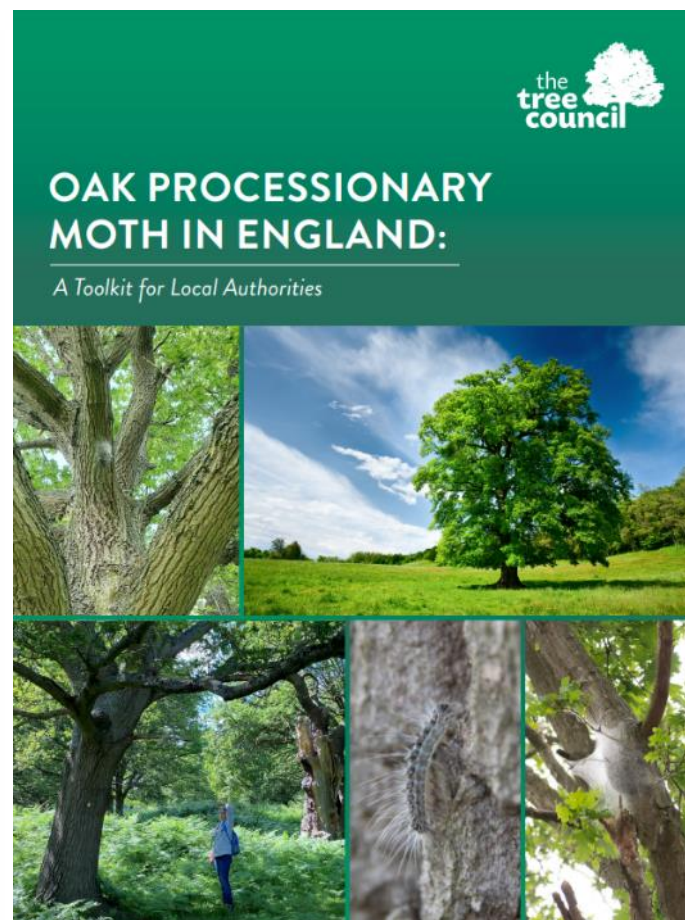
Councillor Carolyn Renwick, member for infrastructure and environment, told the meeting: "We have a severe problem with ash dieback in Derbyshire."



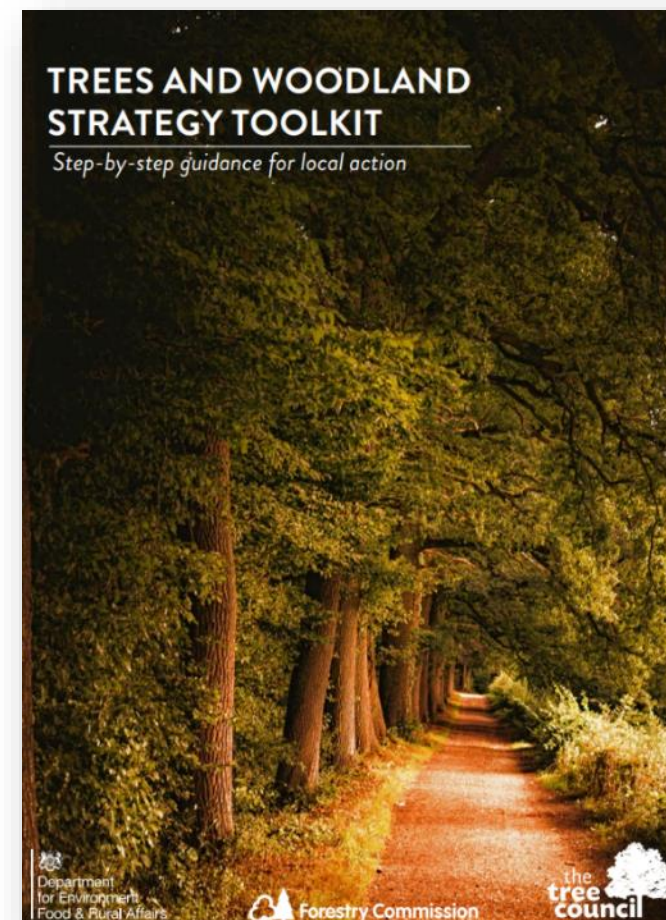
# Co-design of toolkits for local authorities



2019



2022



2023





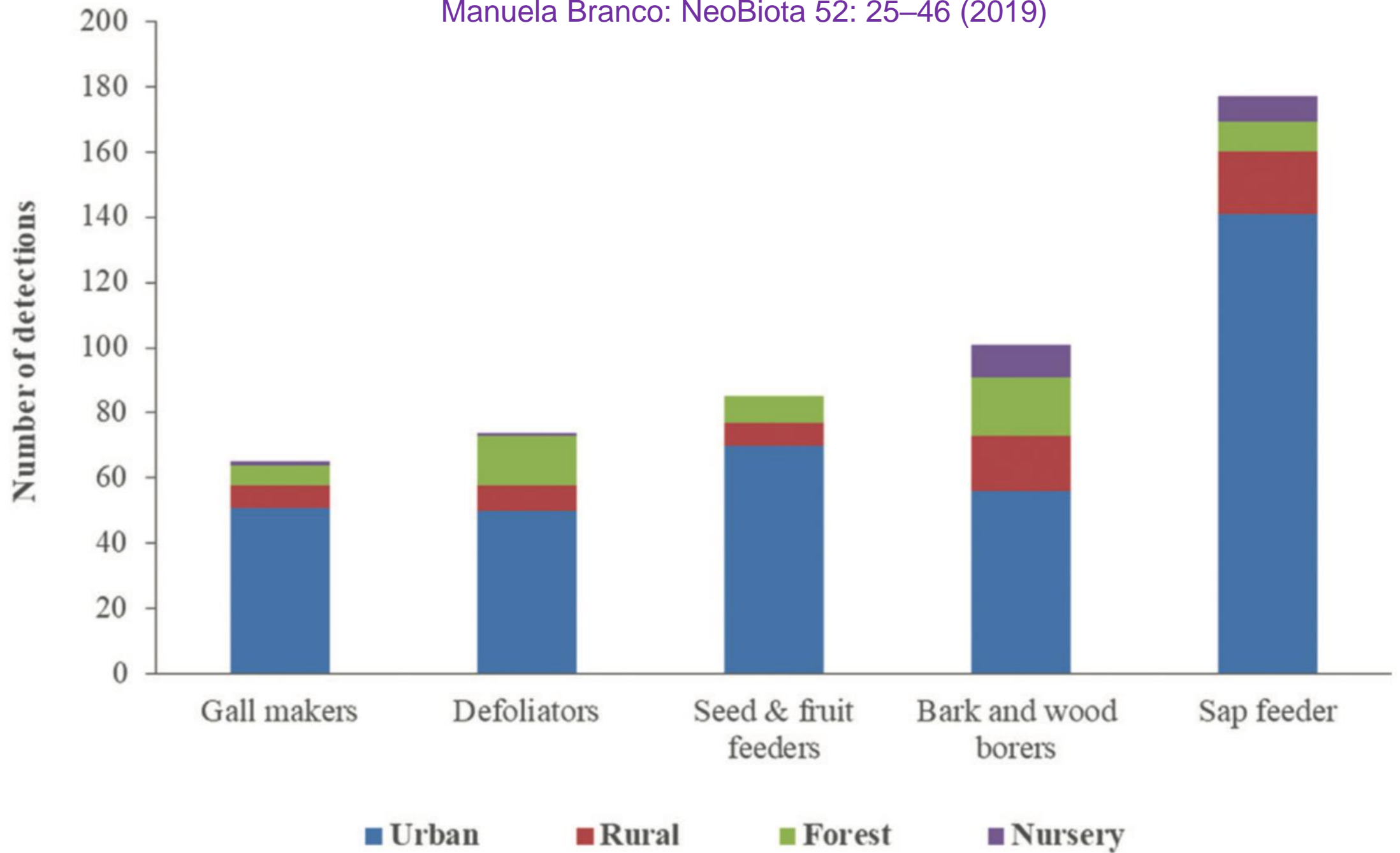




# Urban Trees UK - Species



- Acer
- Aesculus
- Albizia
- Alnus
- Amelanchier
- Arbutus
- Betula
- Carpinus
- Carya
- Castanea
- Catalpa
- Cedrus
- Celtis
- Cercidiphyllum
- Cercis
- Chitalpa
- Clerodendron
- Cornus
- Corylus
- Crateagus
- Cydonia
- Davidia
- Euodia
- Euronymus
- Euronymus
- Fagus
- Gingko
- Gleditsia
- Hamamelis
- Hibiscus
- Juglans
- Juniperis
- Koelreutia
- Laburnum
- Koelreuteria
- Lagerstroemia
- Ligustrum
- Liquidambar
- Liriodendron
- Magnolia
- Malus
- Mesipilus
- Metasequoia
- Morus
- Nothofagus
- Nyssa
- Ostrya
- Parrotia
- Paulownia
- Picea
- Pinus
- Platanus
- Prunus
- Pyrus
- Quercus
- Robinia
- Sequoiadendron
- Sophora
- Sorbus
- Syringa
- Taxodium
- Thuja
- Tilia
- Ulmus
- Viburnum









A low-angle photograph of a cherry blossom tree in full bloom. The dark, intricate branches of the tree are covered with numerous clusters of light pink, five-petaled flowers. The background is a clear, vibrant blue sky with a few wispy white clouds. The overall mood is bright and cheerful.

**Thank you  
and enjoy  
the day!**