Healthy Plants, Healthy Places: Embedding biosecurity in landscape projects or what can you do...........?

Keith Sacre:
Problems with imported pest and disease: HERE NOW.........

Oak Processionary Moth

Chalara

Horse Chestnut Leaf Miner

Massaria
Asian long horned beetle

Emerald Ash Borer

Ceratocystis fimbriata

On their way?

And the cost: .................. TO LONDON
Asian Longhorn Beetle

Acer spp
Aesculus
Albizia
Alnus
Betula
Carpinus spp
Cercidiphyllum
Corylus spp
Fagus spp
Fraxinus spp
Koelreutaria
Platanus
Populus
Prunus
Robinia
Salix spp
Sophora
Sorbus spp
Quercus palustris
Quercus rubra
Ulmus spp
Asian Longhorn Beetle:

Could impact on some 3.8 million trees

Which represents 31% of the whole population

Replacing these trees would cost

£23 billion
Ash

Emerald Ash Borer
Ash

374,195 trees

59763km² leaf area

6358 mt leaf biomass

Replacement cost: £447,345,251.00
London Plane:

Plane Wilt
*Ceratocystis fimbriata f platani*
London Plane:

- 121,000 trees
- 40,224 km² leaf area
- 1756 mt leaf biomass
- 8.9% of the canopy cover in inner London
- 2.5% of the canopy cover in outer London

Replacement cost: £351,623,660.00
So what can you do?
Tree populations are more resilient to pest and disease if there is wide species diversity.
THREE PRINCIPAL PRODUCTION SYSTEMS USED IN THE UK.

BARE ROOT

ROOTBALL
(BALL and BURLAP)

CONTAINERISED

Understand Nursery production systems and the questions to ask about Production, tree health and biosecurity
Inspect tree health on the nursery

Assessment of poor health in young Trees: Visual signs of poor health

1. Leaf lesions or leaf discolouration
2. Dieback in crown
3. Low density and/or small size of foliage
4. Reduced length of extension growth compared to previous years’ growth
5. Abnormal adventitious bud development on main stem
6. Abnormal flattening at main stem, which can indicate vascular dysfunction
7. Epicormic growth from rootstock
8. Root fibre
9. Abnormal flattening at main stem indicating vascular dysfunction, in cross-section
There are now over 900 pests and diseases listed on the register. These are assessed and graded as to the severity of the threat and the likelihood of occurrence in the UK.

Be aware of legislation and guidance.
Be aware and follow industry guidance
Monitor all aspects of, supply, installation and planting