

Thinking Again; species choice for adaptation and resilience in designed historical

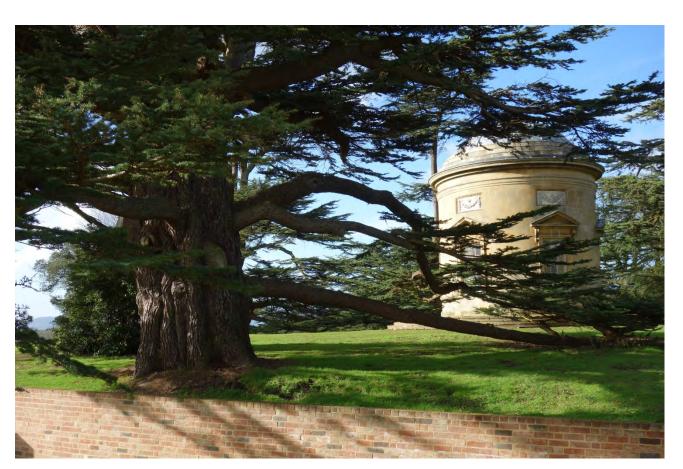
Simon Toomer National Specialist for Plant Conservation

treescapes



Scope

Landscapes with high cultural heritage value for their aesthetic and contextual qualities where trees are a dominant element





Spirit of Place 'Genius Loci'

ge•ni•us lo•ci

(ˈgɛn ɪˌʊs ˈloʊ ki; Eng. ˈdʒi ni əs ˈloʊ saɪ, -kaɪ)

- n. Latin.
- 1. guardian of a place.
- 2. the distinctive atmosphere of a place.



Designed Treescapes: some examples...

Designed gardens and parks, usually associated with one household or dwelling such as Stowe or Petworth, palaces, country houses, manor houses,

Designed landscapes belonging to, or associated with, institutions. These may be universities and colleges, botanical gardens, cemeteries, factories, hospitals, hotels, museums, pumping stations, power generation, reservoirs

Communal or public sites associated with more than one household or dwelling such as communal gardens, squares, housing development.

Landscapes designed or used for public amenity and recreation such as public parks, public gardens, public walks, public resorts, country parks.



Exeter University





Forces for change

Climatic

Pests and disease

Diversification

Restoration

Conservation and biodiversity

Changing expectations

New opportunities





Mapping Pests and Diseases in Historic Parks and Gardens

Julia Branson, Duncan D Hornby, Andrew Campbell Sutton and Gemma Gubbins (GeoData, University of Southampton)

Discovery, Innovation and Science in the Historic Environment









Tree Species Selection for Green Infrastructure: A Guide for Specifiers

Size

Environmental tolerance

Soil conditions

Pest and disease tolerance

Future maintenance

Aesthetic qualities

Leaf phenology

Native/introduced

Cost of supply

Leaf form



Diversification vs landscape 'connection'





Bicton











Time sequence and leading players

1675

1700

1725

1750

1775

1800

1825

1850

1875

1900

Formal French style gardens

Late 17th century rejection of formality. Dutch influence.





Early 18th century growth of the English Landscape Garden. William Kent, Charles Bridgeman, Lancelot Brown, Humphrey Repton



Mid to late 18th century Picturesque Movement. Uvedale Price, Repton, W & WS Gilpin



19th Century Gardenesque



Montecute





Stowe Park





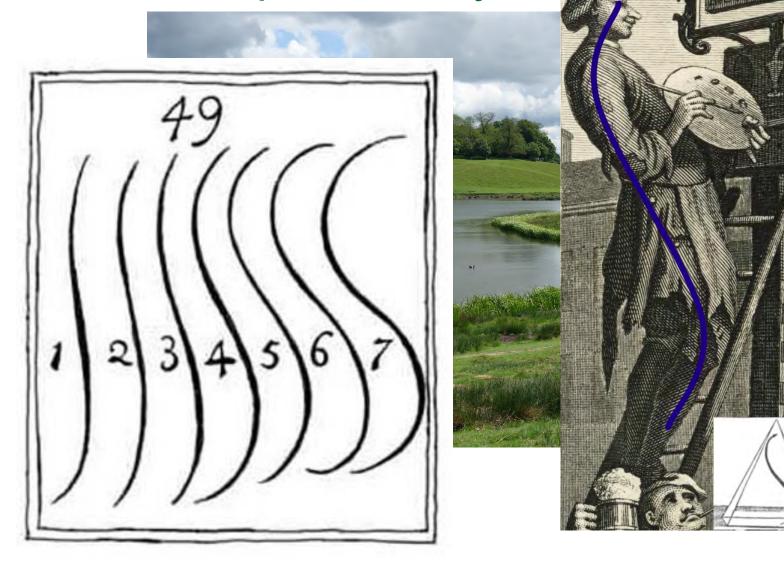
Clumber Park





Landscape Characteristics:

Serpentine Style





Lessons From History

Wimpole's South Avenue (elm P.1720) in 1949





Research

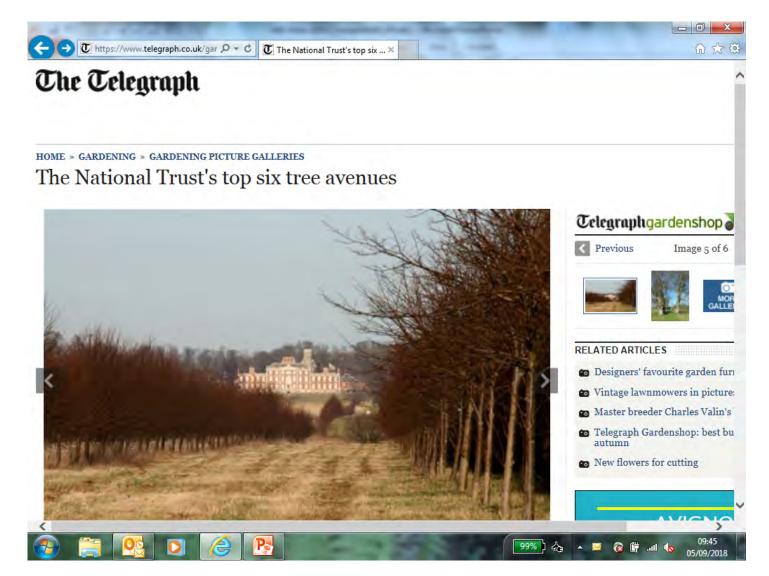
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West Avenue18th Century survivors





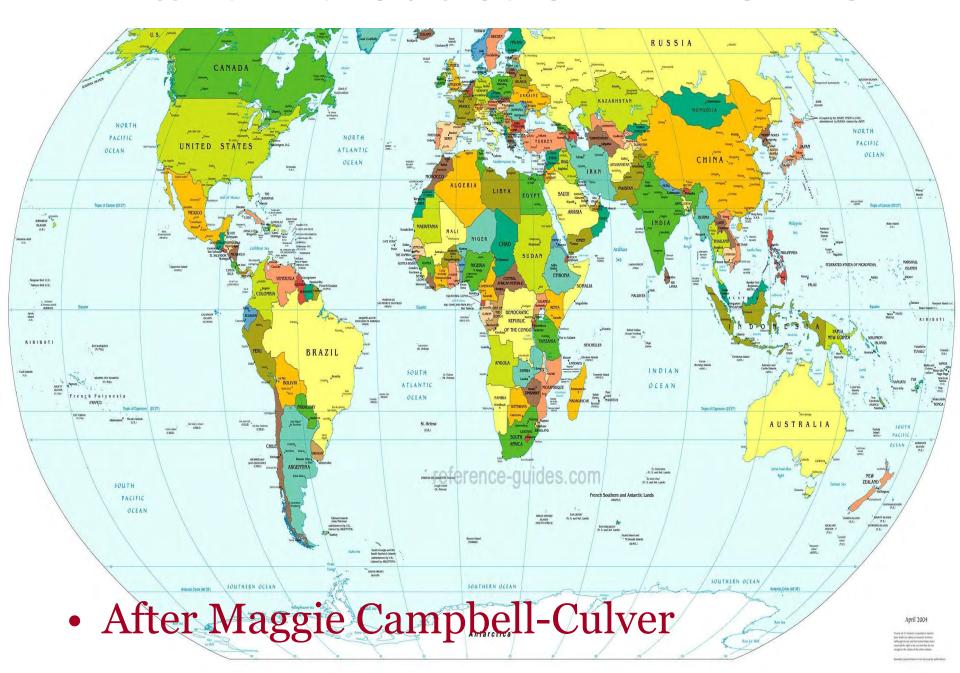




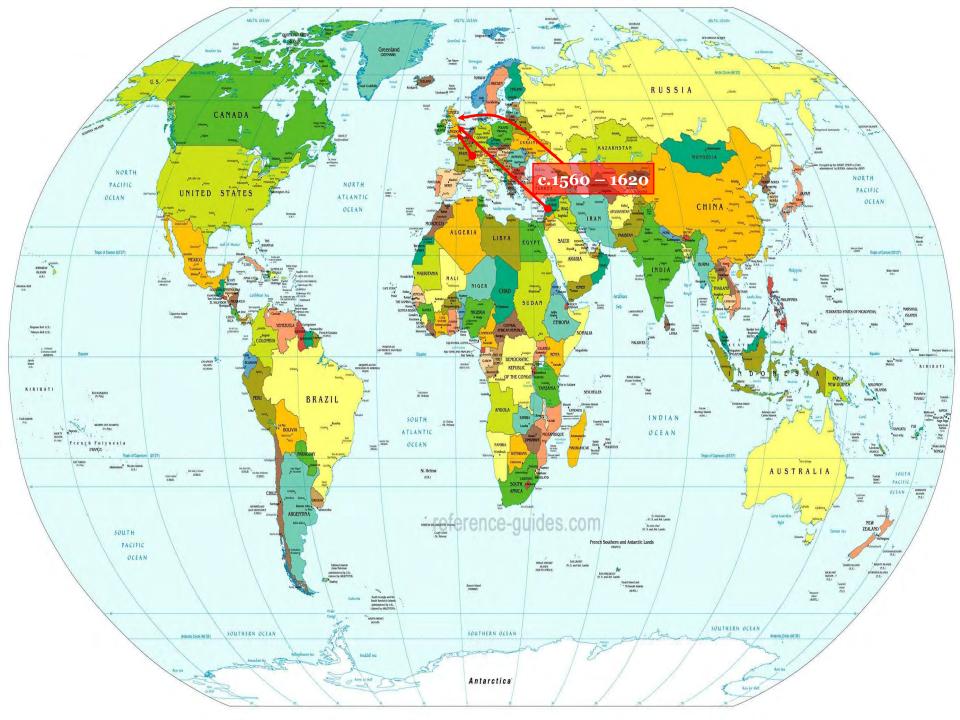
Limes from the PCC



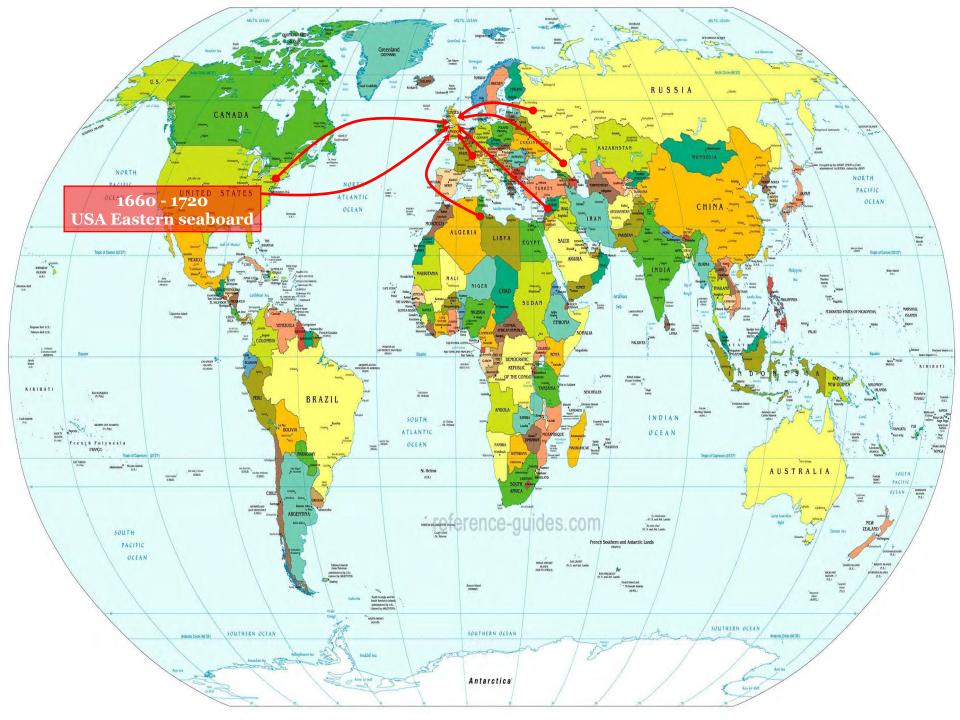
Plant Introduction Timeline



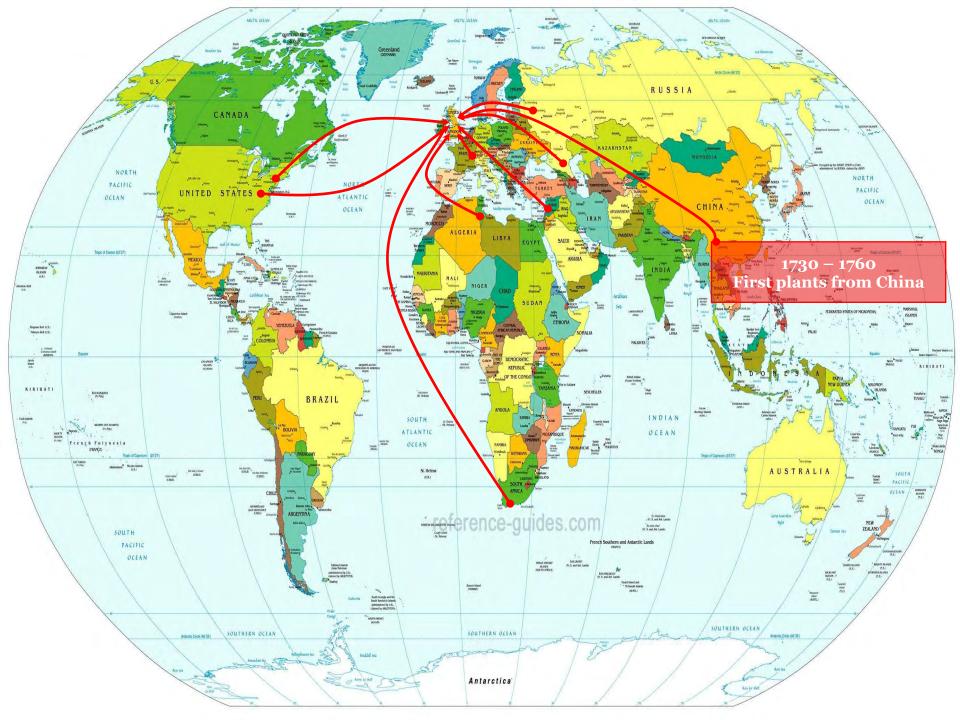


























Replacement types

Literal (like-for-like replacement)

Imitative (close match in appearance)

Functional (similar landscape contribution)

Contextual (historical or other match)

'Spiritual' (the spirit of place)

Inspirational (something new and imaginative)

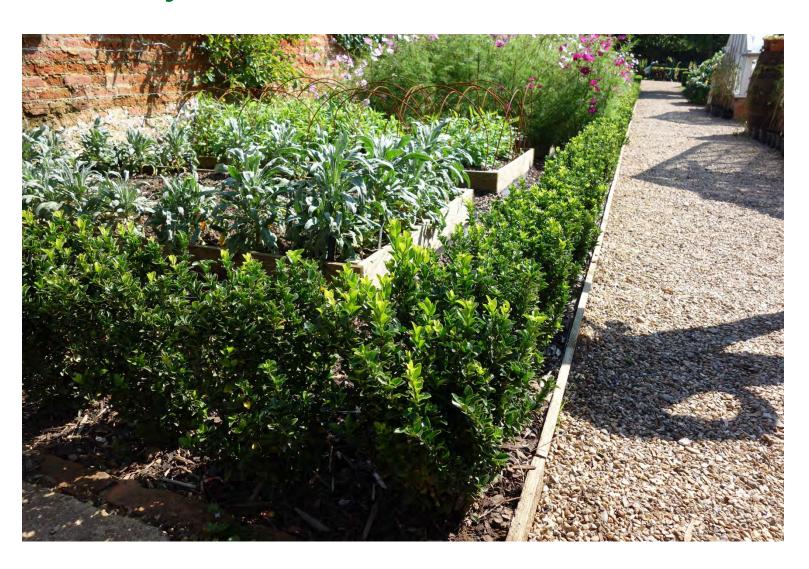


Like-for-Like at Croome





Imitative box replacement at Greys Court





Meet The Nobles...

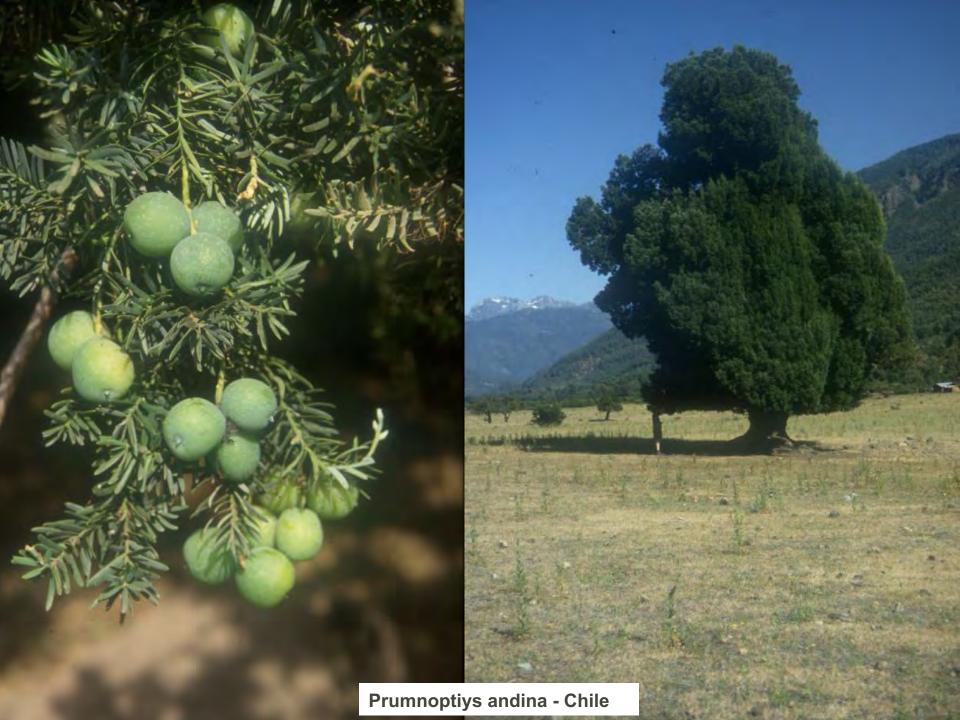




Elm conservation









Multiple Objectives





Groups of Association

Cedrus libani (Croome Park)

	Cedrus atlantica	Cryptomeria japonica	Pinus peuce	Pinus nigra ssp. Pallasiana
Imitative	√ √ √	√	√	√ ✓
Functional	√ √ √	√ √ √	√ √ √	√ √ √
Spirit of Place	√ ✓	√	√ ✓	✓ ✓
Contextual	√	√	√	√√√



Groups of Association

Fraxinus excelsior (Ilam Park)

	Carya ovata	Fraxinus mandshurica	Acer campestre	Toona sinensis
Imitative	√ √	√ √	√	√
Functional	√ √ √	√ √ √	√ ✓	√ ✓
Spirit of place			√ ✓	
Contextual			√ √ √	



Groups of Association

Aesculus hippocastanum (Basildon Park)

	Aesculus indica	Castanea sativa	Platanus orientalis	Acer macrophyllum
Imitative	√ √ √	√	√	√ ✓
Functional	√ √ √	√ ✓	√ ✓	√ ✓
Spirit of place	√	√√√	√	√
Contextual		√ √ √	√ ✓	



Thank You

