



[www.beehappyplants.co.uk](http://www.beehappyplants.co.uk)

# TREES & SHRUBS 2024

Seed from healthy trees...



naturally grown...



to healthy...



happy trees...



Bee Happy Plants & Seeds is a propagation nursery specialist in plants for pollinators from wildflowers to shrubs and trees. All our trees, shrubs and other species plants are grown 100% from UK provenance seed at our nursery in Somerset, with biosecurity at the forefront and following organic principles. We are proud to be certified with Plant Healthy and Woodland Trust UKISG to the highest UK biosecurity standard and inspected by Grown in Britain and the Soil Association.

Encouraging conservation and proliferation of plants beneficial to pollinators, these grown from seed species shrubs and trees have evolutionary adaptability in the face of climate change.

Bee Happy Plants & Seeds is a not-for-profit company number: 9988290, with Plant Healthy certification: PHCS-0065-UK, and Soil Association grower number: G8492, and Defra PHSI plant passport registration number: 109891 and PHSI seed registration number: 7818





# Agroforestry Pollinator Plantations 4 the Future

APP4Future is a free to use interactive map to predict how future climate scenarios may impact tree species suitability for long-term survival on specific planting sites in England. Forest Research scientists have put together an Ecological Site Classification (ESC) climate prediction tool which assesses how site and soil may be impacted by predicted climate future extremes, such as rainfall, drought, wind-speeds, and temperatures. APP4Future also provides in-depth information on tree species beneficial for pollinators and suitable for growing in the British Isles.



Firstly plot your intended tree-planting site on the interactive map. Then choose one of four future climate scenarios based on the Intergovernmental Panel on Climate Change (IPCC) greenhouse gas concentration trajectory. The pathways describe different climate futures, all of which are considered possible depending on the volume of greenhouse gases emitted in the years to come.

From Forest Research's tool ESC you will see all of the tree species displayed with a traffic lights key showing suitability variables for that site, and how compatible this site is with each tree species.

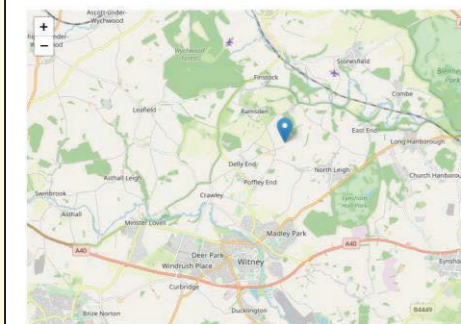
Finally all the attributes and uses in agroforestry will be displayed for each species. This information provides key facts for possible farming diversification and benefits to pollinators.

## Search For Suitable Species for Your Location

### Step 1

Begin with the map search for your intended site, field or plot for planting...

Scroll to zoom in or out and click to select location.



### Step 2

Choose a Future Climate Scenario and Temperature Change Projection which ranges from best-case, case scenario, depending on your level of optimism.

Representative Concentration Pathway (RCP) is a greenhouse gas concentration (not emissions) to Panel on Climate Change (IPCC). The pathways describe different climate futures, all of which are considered possible depending on the volume of greenhouse gases emitted in the years to come.

### Torminalis glaberrima Wild service tree

**Optimum Conditions for Growth:** (Synonym Sorbus torminalis) A med often on alkaline, but also found on neutral or acid soil. Prefers an open only reaches as far north as Cumbria and Yorkshire.

AT MD CT DAMS SNR SNR CS

Show All Attributes and Uses in Agroforestry

### Quercus petraea Sessile oak

**Optimum Conditions for Growth:** A large, long lived canopy tree. Pref rainfall as found in upland areas, especially in the west.

AT MD CT DAMS SNR SNR CS

Show All Attributes and Uses in Agroforestry

### Alnus cordata Italian alder

**Optimum Conditions for Growth:** Will grow on most soils, including, p on acid or alkaline soil pH.

AT MD CT DAMS SNR SNR CS

Show All Attributes and Uses in Agroforestry

### Prunus domestica Common plum

**Optimum Conditions for Growth:** Small to medium sized tree, suit though no strong dependence on soil pH.

AT MD CT DAMS SNR SNR CS

Show All Attributes and Uses in Agroforestry

### Show All Attributes and Uses in Agroforestry



**Optimum Conditions for Growth:** Small to medium sized tree, suitable though no strong dependence on soil pH.

AT MD CT DAMS SNR SNR CS

#### Species Tolerances

- Drought Tolerance: Medium

#### Service to Pollinators

- Summary of Service to Pollinators: Very good for the build up of bumble bee and honeybee colonies in spring. Total flowering time can be extended by choosing several different varieties. Honeydew also produced when aphids active. Extra-floral nectaries producing yet more nectar.
- Nectar Value to Pollinators: 3 (of 0-3)
- Honeydew Value to Pollinators: 1 (of 0-3)
- Pollen Value to Bees: 3 (of 0-3)
- Flowering Period: March-Apr

# Bee Happy Plants & Seeds TREES & SHRUBS WHOLESALE PRICE LIST 2024-25

| SPECIES                                 | SIZE in cm      | PROVENANCE    | PRICE PER 100 |
|---|-----------------|---------------|---------------|
| Acer pseudoplatanus Sycamore            | Air pot 30-50   | UK region 405 | £300.00       |
| Acer pseudoplatanus Sycamore            | Plug 20-30      | UK region 405 | £150.00       |
| Alnus cordata Italian alder             | Air pot 30-50   | UK region 403 | £300.00       |
| Alnus cordata Italian alder             | Plug 20-30      | UK region 403 | £150.00       |
| Alnus glutinosa English alder           | Air pot 30-50   | UK region 403 | £300.00       |
| Alnus glutinosa English alder           | Plug 20-30      | UK region 403 | £150.00       |
| Arbutus unedo Strawberry tree           | Air pot 30-50   | UK region 305 | £300.00       |
| Arbutus unedo Strawberry tree           | Plug 20-30      | UK region 305 | £150.00       |
| Berberis darwinii Berberis              | Air pot 20-40   | UK region 403 | £300.00       |
| Berberis darwinii Berberis              | Plug 10-20      | UK region 403 | £150.00       |
| Castanea sativa Sweet chestnut          | Air pot 40-60   | UK region 403 | £300.00       |
| Castanea sativa Sweet chestnut          | Multi bag 20-40 | UK region 403 | £150.00       |
| Corylus avellana Hazel                  | Air pot 30-50   | UK region 405 | £300.00       |
| Corylus avellana Hazel                  | Plug 20-30      | UK region 405 | £150.00       |
| Crataegus monogyna Hawthorn             | Air pot 20-40   | UK region 305 | £300.00       |
| Crataegus monogyna Hawthorn             | Plug 10-20      | UK region 305 | £150.00       |
| Lavandula angustifolia English lavender | Air pot 20-30   | UK region 305 | £400.00       |
| Lavandula angustifolia English lavender | Plug 10-20      | UK region 305 | £200.00       |
| Leptospermum scoparium Manuka           | Air pot 30-60   | UK region 305 | £600.00       |
| Leptospermum scoparium Manuka           | Plug 20-35      | UK region 305 | £300.00       |
| Malus sylvestris Crab apple             | Air pot 30-50   | UK region 403 | £300.00       |
| Malus sylvestris Crab apple             | Plug 20-30      | UK region 403 | £150.00       |
| Prunus avium Wild sweet cherry          | Air pot 30-60   | UK region 403 | £300.00       |
| Prunus avium Wild sweet cherry          | Plug 20-30      | UK region 403 | £150.00       |
| Prunus domestica Common plum            | Air pot 30-60   | UK region 403 | £300.00       |
| Prunus domestica Common plum            | Plug 20-30      | UK region 403 | £150.00       |
| Prunus padus Bird cherry                | Air pot 30-60   | UK region 305 | £300.00       |
| Prunus padus Bird cherry                | Plug 20-30      | UK region 305 | £150.00       |
| Quercus robur English oak               | Air pot 30-60   | UK region 403 | £300.00       |
| Quercus robur English oak               | Plug 20-30      | UK region 403 | £150.00       |
| Salix pentandra Bay willow              | Air pot 30-60   | UK region 201 | £300.00       |
| Salix pentandra Bay willow              | Plug 20-30      | UK region 201 | £150.00       |
| Sorbus torminalis Wild service tree     | Air pot 30-50   | UK region 403 | £300.00       |
| Sorbus torminalis Wild service tree     | Plug 20-30      | UK region 403 | £150.00       |
| Tilia cordata Small leaved lime         | Air pot 35-60   | UK region 404 | £300.00       |
| Tilia cordata Small leaved lime         | Plug 20-35      | UK region 404 | £150.00       |
| Vaccinium myrtillus Bilberry            | Plug 10-20      | UK region 305 | £300.00       |

APP4Future was funded by Defra through their Farming Innovation Programme and delivered in partnership with Innovate UK. A collaboration between Bee Happy Plants & Seeds, Forest Research and the Soil Association, this project's aim is to provide knowledge for the public good.

All Bee Happy Plants & Seeds trees are grown from seed, to Plant Healthy biosecure and Soil Association organic standards. Air pot-grown trees are generally a year older than plugs and will have some side root growth encouraged by our air prune system which help trees to establish. Plug sizes are generally 1+ year old, grown in trainers to encourage healthy root development. Bare-root, older trees are available on request, email sarah@beehappyplants.co.uk.

All trees need tree/shrub guards against deer or rabbits, and stakes on exposed sites. These plugs and air-pot grown trees can be planted at any time of year, but we advise the best time is September-October to allow some establishment before winter, and possible drought in their first spring.







***Berberis Darwinii* by Bee Happy Plants & Seeds**

“We depend on bees and other pollinators for our existence. They play a vital role in agriculture and global ecosystems by maintaining our food supply and contributing to biodiversity and other ecosystem services. The vast majority of pollinators are wild, including over 20 000 species of bees and many types of butterflies, birds, bats and other insects. However, in many areas, bees, pollinators, and many other insects are declining in abundance and diversity. Most of these drivers are human-induced”.

***Quote from World Bee day 20th May. Food and Agriculture Organization of the United Nations***

