

ACTION on Climate in Teignbridge

Planting for pollinators, wildlife and carbon sequestration by John Whetman.

Forestry

Source good quality seed from UK parents where possible.

Aim to plant a range of species as insurance against unknown but probably deteriorating changes in our climate in the next 75-100 years.

Aim to vary the planting pattern to provide small blocks of each species to aid tree survival and to benefit wildlife. Provide rides and glades for wildlife, and shrubs to provide woodland edge habitats.

Forestry – species for the future (in addition to the standard softwood species such as Douglas Fir, Norway Spruce, Scots Pine, Western Red Cedar).

Common name	Latin name	Nectar & pollen	Food for wildlife	Shelter for wildlife
Aspen	Populus tremula		xxx	x
Black walnut	Juglans nigra		xxx	x
Cherry	Prunus avium	xxxxx	xxxxx	xxx
Common lime	Tilia x europaea	xxxxx	xxx	xxxx
Coastal redwood	Sequoia sempervirens		x	xxxx
Downy birch	Betula pubescens		xxx	x
False acacia, Black locust	Robinia pseudoacacia	x	xx	xx
Hornbeam	Carpinus betulus		xxx	xxxxx
Italian alder	Alnus cordata		xxx	xx
Rowan	Sorbus acuparia	xxxx	xxxxx	x
Oak	Quercus robur		xxxxx	xxxxx
Small leaved lime	Tilia cordata	xxxxx	xxxx	xxxx
Walnut	Juglans regia		xxx	xx

Farm and rural sites.

Large trees for wet sites:

Common name	Latin name	Nectar & pollen	Food for wildlife	Shelter for wildlife
Aspen	Populus tremula	xx	xxx	xx
Black poplar	Populus nigra	xx	xxx	xxxx
Common alder	Alnus glutinosa		xxx	xxxx
Downy birch	Betulus pubesens		xx	xx
Grey willow	Salix cinerea	xxxx	xxx	xxx
Goat willow	Salix caprea	xxxx	xxx	xxx
Sessile oak	Quercus petraea		xxxxx	xxxxx

Large trees for dry sites:

Common name	Latin name	Nectar & pollen	Food for wildlife	Shelter for wildlife
Beech	Fagus sylvatica	x	xxxx	xxxx
Wild cherry	Prunus avium	xxxx	xxxx	xxx
English oak	Quercus robur		xxxxx	xxxxx
Hornbeam	Carpinus betulus		xxx	xxxx
Scots pine	Pinus sylvestris		xxx	xxxx
Silver birch	Betulus pendula		xxxx	xx
Small leaved lime	Tilia cordata	xxxxx	xxxx	xxxx
Sweet chestnut	Castanea sativa		xxxxx	xxxxx

Trees for exposed sites:

Common name	Latin name	Nectar & pollen	Food for wildlife	Shelter for wildlife
Goat willow	Salix caprea	xxxx	xxx	xxx
Rowan	Sorbus aucuparia	xxx	xxxx	x
Scots pine	Pinus sylvestris		xxx	xxxx
Sycamore	Acer pseudoplatanus	x	xxx	xxx

Trees to avoid planting

Common name	Latin name	Explanation
Ash	Fraxinus excelsior	Will become infected by Ash Dieback disease. There is almost no resistance, but maybe some tolerance of this disease.
English elm	Ulmus procera	Small trees become infected with Dutch Elm disease. Disease resistant hybrids will soon be available.
Eucalyptus	Various species	Trees appear alien in the Devon landscape, very fast growth, little value to wildlife.
Horse chestnut	Aesculus hippocastanum	Leaves likely to be severely damaged by a leaf miner
Larch	Larix decidua	Likely to become infected with a <i>Phytophthora</i> disease
Leyland cypress	Cupressocyparis x leylandii	Extremely vigorous, likely to cause problems with shading and excessive growth.
London plane	Platanus x hispanica	Diseases e.g. Canker Stain <i>Ceratocystis platani</i>
Sweet chestnut	Castanea sativa	Liable to damage by squirrels by ring barking – only grow where it can be protected.
Sycamore	Acer pseudoplatanus	Not suitable for hedgerows as it shades out nearby shrubs. Liable to squirrel damage by ring barking. May be useful as the climate warms.
Turkey oak	Quercus cerris	Is host to the Knopper gall which infests our native oaks and reduces the production of acorns.

Small trees for medium-sized gardens:

Common name	Latin name	Nectar & pollen	Food for wildlife	Shelter for wildlife
Bullace or Damson	Prunus domestica insititia	xxxxx	xxxxx	xxxx
Cherry Plum or Myrobalan	Prunus cersifera	xxxxx	xxxxx	xxxx
Cotoneaster	Cotoneaster frigidus and others	xxxxx	xxxxx	xx
Crab apple hybrids	Malus hybrids	xxxxx	xxxxx	xxxx
Devon whitebeam	Sorbus devoniensis	xxx	xx	x
Elder	Sambucus niger	xxxxx	xxxxx	x
Field maple	Acer campestris	x	xxx	xxxx
Holly	Ilex aquifolium	xxxx	xxxxx	xxxxx
Rowan	Sorbus aucuparia	xxx	xxx	x
Whitebeam	Sorbus aria	xxx	xx	x
Wild pear	Pyrus communis	xxxxx	xxxx	xxx
Wych elm	Ulmus glabra		xxx	x

Note. There are several excellent ornamental crab varieties that are good for wildlife
 Eg Evereste, John Downie, Laura, Red Sentinal
 With holly try to get the variety “Duc van Tol” which is self fertile.

Farm and rural hedges: native species to plant.

Common name	Latin name	Nectar & pollen	Food for wildlife	Shelter for wildlife
Beech	Fagus sylvatica		xx	xxxxx
Blackthorn	Prunus spinosa	xxxxx	xxxxx	xxxxx
Dog rose	Rosa canina	xxxx	xxxx	xxxx
Field maple	Acer campestre		xx	xxxxx
Field rose	Rosa arvensis	xxxx	xxx	xx
Hawthorn	Crataegus monogyna	xxxxx	xxxxx	xxxxx
Hazel	Coryllus avellana	xxx	xxxx	xxx
Honeysuckle	Lonicera periclynum	xxxxx	xxxxx	xxx
Holly	Ilex aquifolium	xxxxx	xxxxx	xxxxx
Hornbeam	Carpinus betula		xxx	xxxxx
Old man's beard	Clematis vitalba	xxx	x	xxxx
Spindle	Euonymus europea	xxx	xxxx	x

Planting trees in farm hedges:

Plant one whip every 5-10 metres to provide enough to select a good tree in every 15-30 metres, 15-20 years later.

In existing hedges, only plant where there is a large enough, fertile gap, or it will die!

See large trees – dry sites

See large trees – wet sites

Shrubs for medium sized garden

Common name	Latin name	Nectar & pollen	Food for wildlife	Shelter for wildlife
Alder buckthorn	Frangula alnus	xx	xxxxxx	x
Broom	Cystus scoparius	xxx	x	x
Buddleja	Buddleia hybrids	xxxxxx	x	x
Cotoneaster *	Cotoneaster hypahensis & others	xxxxxx	xxxxxx	xxxx
Dogwood	Cornussanguinea	xx	xx	x
Firethorn. Red, orange or yellow berries	Pyracantha angustifolia	xxxxxx	xxxxxx	xxxxxx
Gorse	Ulex europeus	xxxxxx	xx	xxxxxx
Guelder rose	Viburnum opulus	xxxxxx	xxxxxx	xxxx
Hawthorn	Crataegus monogyna	xxxx	xxx	xxxxxx
Hazel	Coryllus avellana	xx	xxx	xx
Hebe “Alicia Amhurst”	Hebe hybrids	xxx	x	xx
Laurustinus	Viburnum tinus	xxx	xx	xxxx
Oregon grape	Mahonia acanthifolia & other hybrids	xxxxxx	xxx	xx
Mock Orange Single forms	Philadelphus coronarius	xxxxxx	x	xx
Potentilla “Goldfinger”	Potentilla hybrids	xxxx	x	xx
Privet (wild)	Ligustrum vulgare	xxx	xx	xxxxxx
Quince or Japonica	Chaenomeles japonica	xxxxxx	xxxx	xxx
Rosemary	Rosemarinus hybrids	xxxxxx	x	x
Sea Buckthorn	Hippophae rhamnoides	xxxxxx	xxxxxx	xxx
Spindle	Euonymus europaeus	xxx	xxxxxx	x
Wayfaring tree	Viburnum lantana	xxxx	xxxx	xx

- Planting Cotoneaster in the wild, or allowing it to ‘escape’ is illegal because it invades natural habitats. Only plant with extreme care!!!!
- There are many forms of Buddleia, Cotoneaster, Hebe, Mahonia and Potentilla available so choose according to the space available.

Garden hedges:

This assumes they will be trimmed annually but there will be much more flowers and fruit if you trim every other year (or different parts every 3rd year).

Common name	Latin name	Pollen & nectar	Food for wildlife	Shelter for wildlife
Barberry	Berberis darwinii	xxx	xx	xxx
Beech	Fagus sylvatica		x	xxxxxx
Escallonia “Red	Escallonia hybrids	xx	x	xxxxxx

Hedger"				
Firethorn red,orange or gold berries	Pyracantha angustifolia	xxx	xxxx	xxxxx
Hawthorn	Crataegus monogyna	xx	xx	xxxxx
Holly	Ilex aquifolium	xx	xx	xxxxx
Hornbeam	Carpinus betula		x	xxxxx
Lavender "Hidcote"	Lavandula angustifolia	xxxxx	x	xx
Privet (wild)	Ligustrum vulgare	xx	xx	xxxxx

Wildflowers for the garden, lawn and meadow:

Common name	Latin name	Nectar & pollen	Food for wildlife
Agrimony	Agrimonia eupatoria	xxxxx	xxxxx
Autumn hawkbit	Leontodon autumnalis	xxx	x
Betony	Stachys officinalis	xxx	x
Birds- foot trefoil	Lotus corniculata	xxxxxx	xxxxx
Black knapweed	Centaurea nigra	xxxxx	xxxx
Bugle	Ajuga reptans	xxx	x
Celandine	Ranunculus ficaria	xxx	x
Common catsear	Hypochaeris radicata	xxxx	x
Creeping tormentil	Potentilla reptans	xxxx	xx
Daisy	Bellis perennis	xxxxx	x
Dandelion	Taraxicum officinale	xxxxx	xx
Devil's - bit scabious	Succisa pratensis	xxxxx	xxxx
Field scabious	Knautia arvensis	xxxxx	x
Fleabane	Pulicaria dysenterica	xxxxx	x
Lady's smock or Cuckoo flower	Cardamine pratensis	xxx	xxxx
Mouse ear hawkweed	Hieracium pilosella	xxx	x
Ox-eye daisy	Leucanthemum vulgare	xxxxx	x
Primrose	Primula veris	xxxx	x
Self heal	Prunella vulgaris	xxxx	x
Yarrow	Achillea millefolium	xxxxx	xxx
Yellow toadflax	Linaria vulgaris	xxxx	x

Wild flowers for hanging baskets and containers:

Common name	Latin name	Pollen & nectar
Trailing plants		
Birds- foot trefoil	Lotus corniculata	xxxxx
Creeping tormentil	Potentilla reptans	xxxxx
Ground - Ivy	Glechoma hederacea	xxxx
Bugle	Adjugareptans	xxxx
Upright plants		

Agrimony	Agrimonia eupatoria	xxxxx
Betony	Stachys officinalis	xxxxx
Field scabious	Knautia arvensis	xxxxx
Fleabane	Pulicariadysentrica	xxxx
Self heal	Prunella ulgaris	xxxxx
Yellow toadflax	Linaria vulgaris	xxxxx

MARITIME SITES

Large trees for shelter from wind and salt:

Common name	Latin name	Nectar & pollen	Food for wildlife	Shelter for wildlife
Corsican pine	Pinus nigra		xx	xxx
Holm oak	Quercus ilex		xx	xxxx
Maritime pine	Pinus pinaster		xx	xxxx
Monterey cyprus	Cupressus macrocarpa		x	xxxx
Monterey pine	Pinus radiata		x	xxx
Sycamore	Acer pseudoplatanus	x	xxx	xxxx
Western red cedar	Thuja plicata		x	xxxx

Shrubs for garden hedges for the seaside:

Common name	Latin name	Nectar & pollen	Food for wildlife	Shelter for wildlife
Berberis	Berberis thunbergii	xxx	xx	xx
Cotoneaster	Cotoneaster lacteus	xxx	xxxx	xx
Daisy bush	Olearia x haastii Olearia macrodonta	xxx	xx	xxxx
Escallonia	Escallonia rubra Excalloniamacrantha	xxx	x	xxxxx
Evergreen spindle	Euonymus japonica	xx	x	xxxxx
Fuchsia	Fuchsia magellanica	xxx	xx	xx
Japanese laurel	Aucuba japonica	xxx	xxx	xxx
N. Z. privet	Griselina littoralis	xx	x	xxxxx
Oleaster	Eleagnus x ebbingii	xxx	x	xxxxx
Pitosporum	Pitosporum crassifolium	xx	xx	xx
Rugosa roses	Rosa rugosa	xxx	xxx	xx

Local suppliers:

Bowhayes Trees, Ottery St. Mary. www.bowhayestress.co.uk

Exmoor Trees, Exford. www.exmoortrees.co.uk

Perriehayle Nursery, Honiton. www.perriehayle.co.uk