the ecology partnership

The Ecology Partnership
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[redacted]

Zac Denton

Henry Adams

23rd June 2022

The Old Barn, Felpham Road, Bognor Regis, PO20 7DF - Biodiversity Net Gain

The Ecology Partnership was commissioned by Henry Adams to undertake a preliminary Biodiversity Net Gain calculation at The Old Barn, Felpham.

Background

The site has received planning permission to annexe the ground floor of the former public house building to residential use as part of planning application FP/14/22/PL. Condition 6 states:

"Prior to occupation of the converted dwelling details of Biodiversity Net Gain shall be submitted to and approved by the Local Planning Authority. The details so approved shall be implemented no later than 6 months following the occupation of the dwelling and permanently retained thereafter."

The Ecology Partnership have used the DEFRA small sites metric calculation tool (updated to reflect metric 3.1) – beta test version, to calculate a measurable net gain on site. The existing site is previously developed land dominated by hardstanding. This report summarises the results from the metric calculation.

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Figure 1: Approximate location of the development red line boundary/application area, and the survey area blue line boundary (Taken from Google Earth Pro 2022)

Habitats and Condition Assessment

A site visit and walkover was undertaken by Chris Jennings BSc (Hons) MSc MCIEEM on 6th June 2022. The habitats on site were classified and mapped for the purposes of providing an existing baseline for the biodiversity net gain assessment.

The site contains a single building with a thatched roof which is understood to be a former public house. The building is surrounded by associated hardstanding with a separate of hardstanding forming a parking area to the south of Felpham Road. Three small shrub beds were present dominated by a selection of non-native ornamental plant species planted. The tarmac around the edges of the separate parking area to the south was cracked with ruderal species such as red valerian and bristly oxtongue present.

The habitats on site were considered to have very low value with regards to biodiversity. With the building

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being converted into a residential dwelling the area of hardstanding to the east of the site on the southern side of the existing building will be converted into a residential garden. As such some ornamental beds are proposed. In addition it is proposed that a small area of bare earth to the north west of the building will be planted.

Table 1: Habitat Breakdown – Pre-Development

Habitat (UKHAB)	**Area (m2)**	**Description**
Urban – Developed Land; Sealed Surface (Building and Hardstanding)	**576**	Existing building and hardstanding on site
Urban – Introduced Shrub	**18**	Three beds planted for ornamental landscaping purposes present around the edges of the existing building
Urban – Vacant/derelict ground/ bare ground	**3**	A small area of bare ground present at the north western corner of the existing building present between the building and the adjacent introduced shrub planting.
Sparsely vegetated land – ruderal/ephemeral	**1**	Small strip of ruderal vegetation growing around the edge of the parking area to the south of site

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Figure 2: The site was dominated by building and hardstanding



Figure 3: Existing introduced shrub planting

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The habitats proposed – i.e. post-development on site have been divided into three main habitat types. These are shown in table 2 below.

Table 2: Habitat Breakdown – Post Development

Habitat type	Area (m2)	Description
Urban – Developed Land; Sealed Surface (Building and Hardstanding)	**544** (544 retained)	Retained building and hardstanding
Urban – Introduced Shrub	**53** (18 retained 35 created)	Retained existing ornamental beds, plus new proposed bed planting Target Condition for created habitat: Poor
Sparsely vegetated land – ruderal/ephemeral	**1** (1 retained)	Retained ruderal vegetation

Proposals

The headline results of the net gain calculation are shown in Figure 4 below.

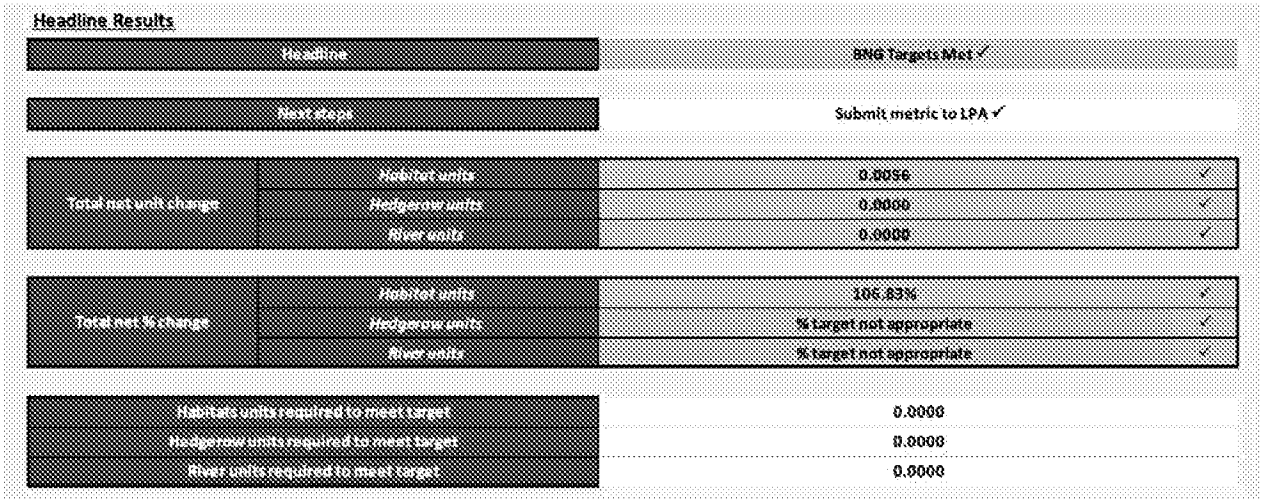

Figure 4: Headline results for development at The Old Barn

It can be seen that from this calculation, there is a large percentage net gain anticipated in both habitat units and hedgerow units. The net gain equates to **+106.83%** in terms of increase in habitat units.

To maximise biodiversity on site the new planting within the proposed borders will be stocked with species listed on the RHS Plants for Pollinators list. This gives a list of attractive native and non-native plant species that can be planted to benefit pollinating insects such as bees. The list is attached in Appendix 3.

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In addition, a bird box will be erected on within the garden on site on the external wall of the building on site. This should be sited as high from the ground as possible to discourage predation from domestic cats. Ideally positions on an eastern aspect so protected from prevailing winds. A Vivara Pro Seville 32mm WoodStone Nest Box will be erected. This hardwearing robust box is an attractive nesting site to a variety of small garden bird species.



Figure 5: Vivara Pro Seville Bird Box (32mm entrance)

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If you have any questions or queries, then please do not hesitate to get in touch. I look forward to hearing from you.

Yours sincerely,

[redacted]

Chris Jennings BSc (Hons) MSc MCIEEM

Director

References

Natural England (2022) *The Biodiversity Metric 3.1 - Technical Supplement.*

UK HAB (2020) *The UK Habitat Classification User Manuel Version 1.1*

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Appendix 1: Existing 2022 Baseline



Appendix 2: Proposed Habitats (Shrub Bed Creation)



Appendix 3: RHS Plants For Pollinators

RHS
Inspiring everyone to grow

RHS Plants for Pollinators
Garden plants
rhs.org.uk/plantsforpollinators

RHS Registered Charity No: 222879 / SC038262



Get your garden buzzing

- Fill gardens with **RHS Plants for Pollinators** plants
- Grow **a range of plants** for year-round flowering
- **Avoid** plants with double or multi-petalled flowers
- **Never use pesticides** on plants in flower
- Provide nest sites for **wild bees**

Subspecies and cultivars of plants listed here are also **Plants for Pollinators**, except for those that provide significantly reduced floral resources (i.e. pollen and nectar). This includes most doubles. See p.2 for **key to codes**.

Winter

Nov – Feb

Clematis cirrhosa Spanish traveller's joy	C
***Crocus* species** crocus (winter-flowering)	B
Eranthis hyemalis winter aconite	B
× ***Fatshedera lizei*** tree ivy	S
Galanthus nivalis common snowdrop	B
***Helleborus* species and hybrids** hellebore (winter-flowering)	H
Lonicera* × *purpusii Purpus honeysuckle	S
***Mahonia* species** Oregon grape	S
Salix aegyptiaca musk willow	S
Sarcococca confusa sweet box	S

Photo: RHS / Carol Sheppard (bumblebee on *Salvia farinacea* 'Victoria').

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Sarcococca hookeriana sweet box S
Viburnum tinus laurustinus S

Spring

Mar – May

Acer campestre Native plant; field maple S or T
Acer platanoides Norway maple T
Acer pseudoplatanus sycamore T
Acer saccharum sugar maple T
Aesculus hippocastanum horse chestnut T
Ajuga reptans Native plant; bugle H
Arabis alpina* subsp. *caucasica alpine rock cress H
Armeria juniperifolia juniper-leaved thrift H
***Aubrieta* species** aubretia H
Aurinia saxatilis gold dust H
Berberis darwinii Darwin's barberry S
Berberis thunbergii Japanese barberry S
***Bergenia* species** elephant ear H
Buxus sempervirens Native plant; common box S
Caltha palustris Native plant; marsh marigold H
***Ceanothus* species** California lilac S
Cercis siliquastrum Judas tree T
***Chaenomeles* species** Japanese quince S
Cornus mas Cornelian cherry S
Cotoneaster conspicuus Tibetan cotoneaster S
Crataegus monogyna Native plant; common hawthorn S or T
***Crocus* species** crocus (spring-flowering) B
Doronicum* × *excelsum leopard's bane H
Enkianthus campanulatus redvein enkianthus S
Erica carnea alpine heath S
Erica* × *darleyensis Darley Dale heath S
***Erysimum* species** wallflower Bi or H
Euphorbia amygdaloides Native plant; wood spurge H
Euphorbia characias Mediterranean spurge H
Euphorbia cyparissias cypress spurge H
Euphorbia epithymoides cushion spurge H
Euphorbia* × *martini Martin's spurge S
Euphorbia nicaeensis Nice spurge H
***Geranium* species** cranesbill H
Geum rivale Native plant; water avens H
***Hebe* species** hebe S
***Helleborus* species & hybrids hellebore** (spring-flowering) H
Iberis saxatilis alpine candytuft H
Iberis sempervirens perennial candytuft H
Ilex aquifolium Native plant; common holly T
Lamium maculatum spotted dead nettle H
Lunaria annua honesty Bi
***Mahonia* species** Oregon grape (spring-flowering) S
Malus baccata Siberian crab T
Malus domestica edible apple T
Malus floribunda Japanese crab T
Malus hupehensis Hupeh crab T
Malus sargentii Sargent's crab apple T
Mespilus germanica common medlar T
Muscari armeniacum Armenian grape hyacinth B
***Nectaroscordum* species** honey garlic B
Ornithogalum umbellatum common star of Bethlehem B
Pieris formosa lily-of-the-valley bush S
Pieris japonica lily-of-the-valley bush S
Primula veris common cowslip H
Primula vulgaris Native plant; primrose H
Prunus avium Native plant; wild & edible cherries T
Prunus domestica wild & edible plums T
Prunus dulcis almond T
***Prunus incisa* 'Kojo-no-mai'** cherry 'Kojo-no-mai' S
Prunus insititia damson T
Prunus laurocerasus cherry laurel S
Prunus mume Japanese apricot T
Prunus padus Native plant; bird cherry T
***Prunus pendula* f. *ascendens* 'Rosea'** flowering cherry T
Prunus persica peach T
Prunus spinosa Native plant; blackthorn S
Prunus tenella dwarf Russian almond S
Prunus* × *yedoensis flowering cherry T
***Pulmonaria* species** lungwort H
Pyrus communis pear T
Ribes nigrum blackcurrant S
Ribes rubrum Native plant; common redcurrant S
Ribes sanguineum flowering currant S
Salix caprea Native plant; goat willow (male form only) S or T
***Salix hastata* 'Wehrhahnii'** halberd willow 'Wehrhahnii' S
Salix lanata Native plant; woolly willow (male form only) S
Skimmia japonica skimmia S
Smyrnium olusatrum Native plant; alexanders † Bi
Stachyurus chinensis stachyurus S
Stachyurus praecox stachyurus S
Vaccinium corymbosum blueberry S

Natural England states: You can legally collect small quantities of wildflower seed for your own use, but you must get permission from the land's owner, tenant or other authority, as necessary. Although seed-collecting is allowed, you should not dig up native plants – many rare species are protected by law. You can collect seed of even rare plants, but cannot sell / trade seed or progeny.

Key to codes: T tree **S** shrub **C** climber **B** bulb / corm **A** annual **Bi** biennial **H** herbaceous perennial
† denotes an archaeophyte (a naturalised plant introduced into Britain before 1500)

Summer

June – Aug

***Achillea* species** yarrow	H
Actaea japonica baneberry	H
Aesculus indica Indian horse chestnut (resistant to leaf-mining moth)	T
Aesculus parviflora bottlebrush buckeye	S
***Agastache* species** giant hyssop	H
Ageratum houstonianum flossflower	A
Alcea rosea hollyhock	Bi
***Allium* species** ornamental and edibles (when allowed to flower)	B
***Alstroemeria* species** Peruvian lily	B
Amberboa moschata sweet sultan	A
Amsonia tabernaemontana eastern bluestar	H
Anchusa azurea large blue alkanet	A
Anchusa capensis Cape alkanet	A
Angelica archangelica angelica	Bi
Angelica gigas purple angelica	Bi
Angelica sylvestris Native plant; wild angelica	Bi
Anthemis tinctoria dyer's chamomile	H
Antirrhinum majus snapdragon	A or H
***Aquilegia* species** columbine	H
Arabis allionii Siberian wallflower	H
Argemone platyceras crested poppy	A **or H**
Armeria maritima Native plant; thrift	H
Aruncus dioicus goat's beard (male form only)	H
Asparagus officinalis common asparagus	H
Astrantia major greater masterwort	H
Borago officinalis borage	A
***Brachyglottis* (Dunedin Group) 'Sunshine'** brachyglottis 'Sunshine'	S
Brachyglottis monroi Monro's ragwort	S
Buddleja davidii butterfly bush	S
Buddleja globosa orange ball tree	S
Buphthalmum salicifolium yellow ox-eye	H
Bupleurum fruticosum shrubby hare's ear	S
Calamintha nepeta Native plant; lesser calamint	H
Calendula officinalis common marigold	A
Callicarpa bodinieri* var. *giraldii beautyberry	S
Callistephus chinensis China aster	A
Calluna vulgaris Native plant; heather	S
Campanula carpatica tussock bellflower	H
Campanula glomerata Native plant; clustered bellflower	H

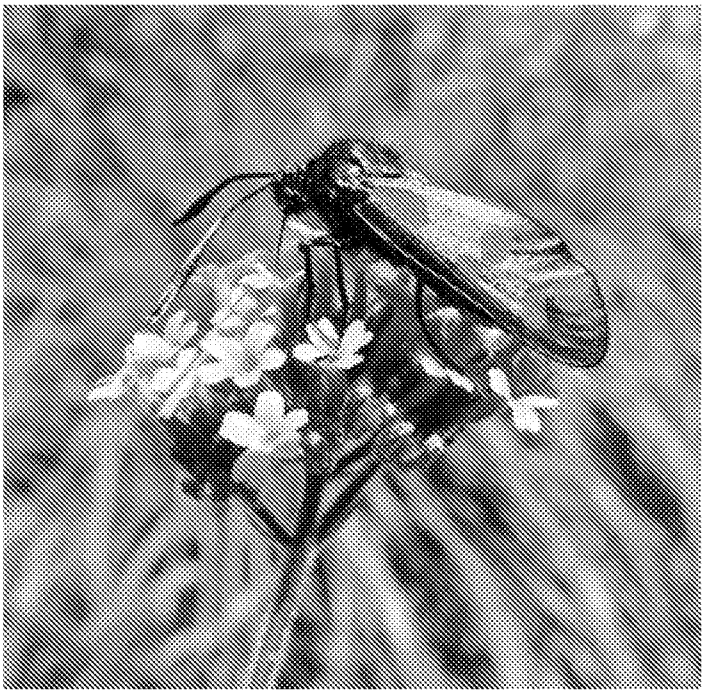

Photo: RHS / Helen Bostock (six-spot burnet moth on *Verbena bonariensis*).

Campanula lactiflora milky bellflower	H
Campanula latifolia Native plant; giant bellflower	H
Campanula medium Canterbury bells	Bi
Campanula persicifolia peach-leaved bellflower	H
Campsis radicans trumpet honeysuckle	C
Caryopteris* × *clandonensis caryopteris	S
Catalpa bignonioides Indian bean tree	T
Catananche caerulea blue cupidone	H
Centaurea atropurpurea purple knapweed	H
Centaurea cyanus cornflower †	A
Centaurea dealbata mealy centaury	H
Centaurea macrocephala giant knapweed	H
Centaurea montana perennial cornflower	H
Centaurea nigra Native plant; common knapweed	H
Centaurea scabiosa Native plant; greater knapweed	H
Centranthus ruber red valerian	H
Centratherum punctatum Manaos beauty	A
***Cerinthe major* 'Purpurascens'** honeywort 'Purpurascens'	A
***Cirsium rivulare* 'Atropurpureum'** purple plume thistle	H
Clarkia unguiculata butterfly flower	A
Clematis vitalba Native plant; old man's beard, travellers' joy	C
Cleome hassleriana spider flower	A
Consolida ajacis giant larkspur	A
Convolvulus tricolor dwarf morning glory	C/A
***Coreopsis* species** tickseed	H or A

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Cornus alba red-barked dogwood S

Cosmos bipinnatus cosmea A

Cosmos sulphureus yellow cosmos A

Crambe cordifolia greater sea kale H

Crataegus monogyna Native plant; common hawthorn S or T

Cucurbita pepo marrow, courgette A

Cuphea ignea cigar flower A

Cynara cardunculus including **Scolymus Group** globe artichoke and cardoon H

Cynoglossum amabile Chinese forget-me-not H

Dahlia species dahlia H

Delosperma floribundum ice plant H

Delphinium elatum candle larkspur H

Dianthus barbatus sweet william Bi

Dictamnus albus dittany H

***Digitalis* species** foxglove Bi

Dipsacus fullonum Native plant; common teasel Bi

Echinacea purpurea purple coneflower H

***Echinops* species** globe thistle H

Echium vulgare Native plant; viper's bugloss A

Elaeagnus angustifolia oleaster S

Erica cinerea Native plant; bell heather S

Erica erigena Irish heath S

Erica vagans Native plant; Cornish heath S

***Erigeron* species** fleabane H

Eriophyllum lanatum golden yarrow H

Eryngium alpinum alpine eryngo H

Eryngium giganteum Miss Willmott's ghost Bi

Eryngium planum blue eryngo H

Eryngium* × *tripartitum eryngo H

***Erysimum* species** wallflower H or S

***Escallonia* species** escallonia S

Eschscholzia californica California poppy A

Eupatorium cannabinum Native plant; hemp agrimony H

Eupatorium maculatum Joe Pye weed H

Euphorbia cornigera horned spurge H

Euphorbia donii spurge H

Euphorbia sarawschanica Zeravshan spurge H

Ferula communis giant fennel H

Foeniculum vulgare Native plant; common fennel † H

Fragaria* × *ananassa garden strawberry H

***Fuchsia* species** fuchsia – hardy types S

Gaillardia* × *grandiflora blanket flower H

Gaura lindheimeri white gaura H

Geranium pratense Native plant; meadow cranesbill H

***Geranium* species** cranesbill (summer-flowering) H

***Geum* species** avens (summer-flowering) H

Gilia capitata blue thimble flower A

Glandularia* × *hybrida garden verbena A

Glebionis segetum Native plant; corn marigold † A

Gypsophila elegans annual baby's breath A

***Hebe* species** hebe S

***Helenium* species** Helen's flower H

Helianthus annuus common sunflower (avoid pollen-free cultivars) A

Helianthus debilis cucumberleaf sunflower A

Heliopsis helianthoides smooth ox-eye H

Heliotropium arborescens common heliotrope A

Heracleum sphondylium Native plant; hogweed Bi

Hesperis matronalis dame's violet H

Hydrangea anomala* subsp. *petiolaris climbing hydrangea C

Hydrangea paniculata paniculate hydrangea (only cultivars with many fertile flowers, e.g. 'Kyushu', 'Big Ben', 'Floribunda', 'Brussels Lace') S

***Hydrotelephium spectabile* & hybrids** ice plant H

Hydrotelephium telephium Native plant; orpine H

Hyssopus officinalis hyssop S

Iberis amara Native plant; wild candytuft A

Ilex aquifolium Native plant; common holly T

***Inula* species** harvest daisy H

Jasminum officinale common jasmine C

Kalmia latifolia mountain laurel S

Knautia arvensis Native plant; field scabious H

Knautia macedonica Macedonian scabious H

Koelreuteria paniculata pride of India T

Lathyrus latifolius broad-leaved everlasting pea H

Laurus nobilis bay tree S

Lavandula angustifolia English lavender S

Lavandula* × *intermedia lavandin S

Lavandula stoechas French lavender S

Lavatera olbia tree lavatera S

Lavatera trimestris annual lavatera A

Leucanthemum* × *superbum Shasta daisy H

Leucanthemum vulgare Native plant; ox-eye daisy H

Liatris spicata button snakewort H

Ligustrum ovalifolium garden privet S

Ligustrum sinense Chinese privet S

Limnanthes douglasii poached egg flower A

Limonium platyphyllum broad-leaved statice H

Linaria maroccana annual toadflax A

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Linaria purpurea purple toadflax	H
Lobularia maritima sweet alyssum	A
Lonicera periclymenum Native plant; common honeysuckle	C
Lychnis coronaria rose campion	Bi or H
Lychnis flos-cuculi Native plant; ragged robin	H
Lysimachia vulgaris Native plant; yellow loosestrife	H
Lythrum salicaria Native plant; purple loosestrife	H
Lythrum virgatum wand loosestrife	H
Malope trifida large-flowered mallow wort	A
Malva alcea greater musk mallow	H
Malva moschata Native plant; musk mallow	H
Matthiola incana hoary stock	Bi
Mentha aquatica Native plant; water mint	H
Mentha spicata spearmint	H
Monarda didyma bergamot	H
***Myosotis* species** forget-me-not	Bi
Nemophila menziesii baby blue eyes	A
***Nepeta* species** catmint	H
Nicotiana alata flowering tobacco	A
Nicotiana langsdorffii Langsdorff's tobacco	A
Nicotiana sylvestris flowering tobacco	Bi
Nigella damascena love-in-a-mist	A
Nigella hispanica Spanish fennel flower	A
***Oenothera* species** evening primrose	Bi
***Olearia* species** daisy bush	S
Onopordum acanthium cotton thistle	Bi
Origanum onites pot marjoram	S
***Origanum* 'Rosenkuppel'** marjoram 'Rosenkuppel'	H
Origanum vulgare Native plant; oregano, wild marjoram	H
***Paeonia* species** peony	H
Papaver orientale oriental poppy	H
Papaver rhoeas Native plant; common poppy †	A
Parthenocissus tricuspidata Boston ivy	C
***Penstemon* species** beard-tongue	H
Perovskia atriplicifolia Russian sage	S
Persicaria amplexicaulis red bistort	H
Persicaria bistorta Native plant; common bistort	H
Phacelia campanularia Californian bluebell	A
Phacelia tanacetifolia fiddleneck	A
Phaseolus coccineus scarlet runner bean	A
***Phlomis* species** sage	S
Phlox paniculata perennial phlox	H
Photinia davidiana stranvaesia	S
Phuopsis stylosa Caucasian crosswort	H
Pileostegia viburnoides climbing hydrangea	C



Photo: RHS / Carol Sheppard (hoverfly on field scabious, *Knautia arvensis*).

Polemonium caeruleum Native plant; Jacob's ladder	H
***Potentilla* species** cinquefoil	H or S
Prostanthera cuneata alpine mint bush	S
Ptelea trifoliata hop tree	S
***Pyracantha* species** firethorn	S
Reseda odorata garden mignonette	A
Ridolfia segetum false fennel	A
Robinia pseudoacacia false acacia	T
***Rosa* species** rose	S
Rosmarinus officinalis rosemary	S
***Rubus fruticosus* agg.** Native plant; blackberry	S
Rubus idaeus Native plant; common raspberry	S
***Rudbeckia* species** coneflower	H or A
***Salvia* species** sage	A or H
Sanvitalia procumbens creeping zinnia	A
***Scabiosa* spp.** scabious	A/H

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Sidalcea malviflora checkerbloom	H
***Solidago* species** goldenrod	H
Sorbus aria Native plant; common whitebeam	T
Sorbus aucuparia Native plant; mountain ash, rowan	T
Spiraea japonica Japanese spiraea	S
Stachys byzantina lamb's ear	H
Stachys macrantha big sage	H
Stokesia laevis Stokes' aster	H
Symphoricarpos albus snowberry	S
Tagetes patula French marigold	A
Tamarix ramosissima tamarisk	S
Tanacetum coccineum pyrethrum	H
Tanacetum vulgare Native plant; tansy †	H
Telekia speciosa yellow ox-eye	H
Tetradium daniellii bee-bee tree	T
Teucrium chamaedrys Native plant; wall germander	H
***Thymus* species** thyme	S
Tilia* × *europaea common lime	T
Tilia maximowicziana lime	T
Tilia oliveri lime	T
Tilia platyphyllos Native plant; broad-leaved lime	T
Tithonia rotundifolia Mexican sunflower	A
Trachymene coerulea blue lace flower	A
***Trollius* species** globeflower	H
Tropaeolum majus garden nasturtium	A
***Verbascum* species** mullein	Bi
Verbena bonariensis purple top	H
Verbena rigida slender vervain	A
Veronica longifolia garden speedwell	H
Veronica spicata speedwell	H
Veronicastrum virginicum Culver's root	H
Viburnum lantana Native plant; common wayfaring tree	S
Viburnum opulus Native plant; guelder rose	S
Vicia faba broad bean	A
Weigela florida weigelia	S
Zauschneria californica Californian fuchsia	S
Zinnia elegans youth and old age	A

Autumn

Sept – Oct

Aconitum carmichaelii Carmichael's monk's hood	H
Actaea simplex simple-stemmed bugbane	H
Anemone hupehensis Chinese anemone	H
Anemone* × *hybrida Japanese anemone	H
Arbutus unedo strawberry tree	**S or T**
Campanula poscharskyana trailing bellflower	H
Ceratostigma plumbaginoides hardy blue-flowered leadwort	H
***Chrysanthemum* species & hybrids** chrysanthemum	H
Clematis heracleifolia tube clematis	C
***Colchicum* species** autumn crocus	B
***Crocus* species** crocus (autumn-flowering types)	B
***Dahlia* species & hybrids** dahlia	H
Elaeagnus pungens silverthorn	S
Elaeagnus* × *submacrophylla Ebbinge's silverberry	S
Fatsia japonica Japanese aralia	S
Hedera colchica Persian ivy	C
Hedera helix Native plant; common ivy	C
Helianthus* × *laetiflorus perennial sunflower	H
Leucanthemella serotina autumn ox-eye	H
Machaeranthera tanacetifolia tansy-leaf aster	A
***Salvia* species** sage (autumn-flowering types)	H
***Symphyotrichum* species and hybrids** Michaelmas daisy	H
Tilia henryana Henry's lime (one of the last to flower)	T

Natural England states: You can legally collect small quantities of wildflower seed for your own use, but you must get permission from the land's owner, tenant or other authority, as necessary. Although seed-collecting is allowed, you should not dig up native plants – many rare species are protected by law. You can collect seed of even rare plants, but cannot sell / trade seed or progeny.

Key to codes: T tree **S** shrub **C** climber **B** bulb / corm **A** annual **Bi** biennial **H** herbaceous perennial
† denotes an archaeophyte (a naturalised plant introduced into Britain before 1500)