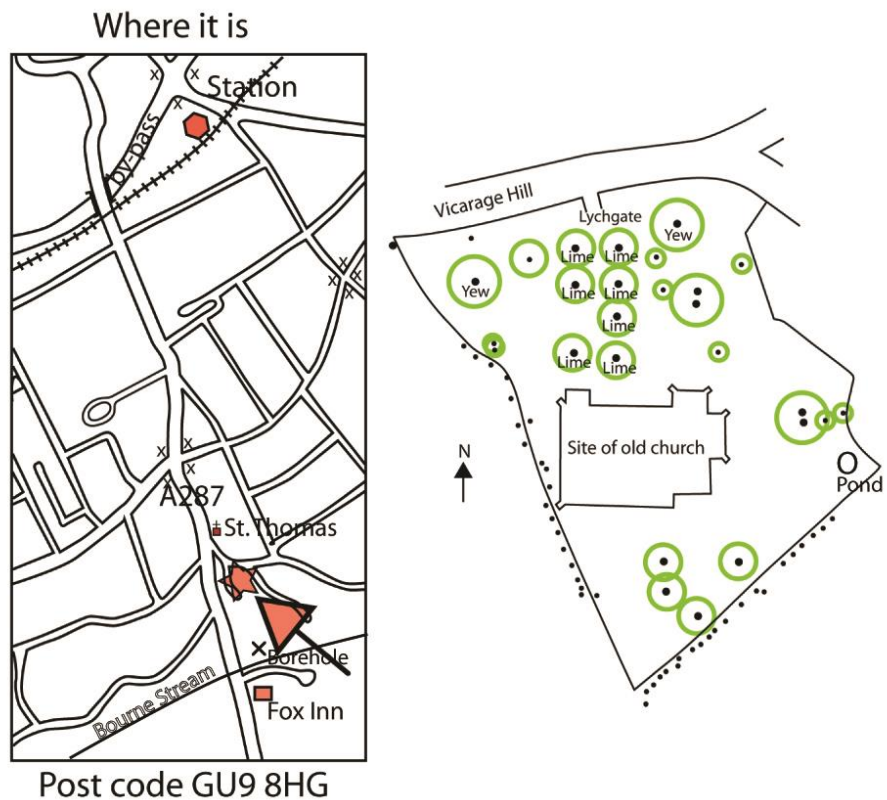


The Biodiversity of The Bourne Old Churchyard

Location: The site is to the south of Vicarage Hill at OS grid reference SU845 454 on the lip of the valley of the Bourne Stream.

Geology:

It is situated to the south of the town-centre of Farnham on a ridge of Greensand which is capped with gravels deposited at the end of the Last Ice Age. These gravels were extensively worked during the 19th Century and one such pit was on Old Church Lane immediately below the churchyard. Another, Ward's Pit, was the site used for the present church, which was started to be built in 1905. The soils are free draining and drought at any time of year leads to acute water stress. To the south the terrain falls away quite steeply to the valley of the Bourne Stream, which rises on the clays of Alice Holt Forest and flows north-east to join the northern branch of the River Wey. However, at the edge of the clay the water table sinks a depth of 40m at the water companies bore-hole in the valley immediately south of the churchyard so the Bourne stream ceases to flow whenever there is no rain for a few days (in most summers but also in some winters).



History of the site:

- Pre-1861 The site was heathland without trees and almost no nearby houses with clear unobstructed views across towards Hindhead.
- 1861 The nave was built at a cost of £344. The site had been donated by Revd John Martyr Ward, who was the owner of the Firgrove Estate. Technically it was a Chapel of Ease for the parish of Farnham built to relieve the pressure on both the rector and the parishioners so they did not have so far to walk.
- 1862 Church dedicated by the Bishop of Winchester
- 1869 Chancel and transept with vestry added at a further cost of £252.

- The church was consecrated by the Bishop of Winchester, Samuel ('Soapy Sam') Wilberforce, on St Thomas's Day. (The bishop was famed when in 1860 he was Bishop of Oxford, he had argued the Church's total rejection of Darwin's theory of evolution expounded in 'The Origin of the Species' at a debate in the Oxford Museum in 1860 (<https://darwinday.org/educate/oxforddebate/>),
- 1874 The Rev Thomas William Sidebotham was appointed as curate-in-charge. He was to remain in office for 33 years until 1907 and was buried in the churchyard (the tall cross marking his grave was restored by BCG in 2011).
- 1875 The old vicarage together with school built with money raised by the Vicar. This is just down Vicarage Hill (then called St Thomas's Hill). He raised £2000 from a parish of 600; quite an achievement!
- 1881 An aisle was added to the church
- 1888 Lychgate built as a gift by Miss Sidebotham, the Vicar's sister
- 1905 New Church begun to be built on Ward's pit.
- 1909 New consecrated.
- 1925 Old church demolished and the stone used to build a side chapel for the new Church, so burials could then occur on the site of the old church.
- 1961 The final interment in the burial ground.
- 1991 Botanical survey of the site conducted by Mrs Denise Todd.
- 2008 With the agreement of the Vicar, BCG took over the management of the site – the previous caretaker of the site had died two year previously and it was on the verge of a tipping point in decline if no further management was undertaken.
- 2009 First training day held by BCG in association with Surrey Wildlife Trust.
- 2010 Pond dug.
- 2015 Bioblitz held in June.
- 2021 The pond re-lined.

The flora:

When the Chapel of Ease was built in 1861 the site was open heathland and devoid of any trees. An avenue of eight lime trees was planted along the path lining from the road to the chapel door in 1862 (as shown in the Ordinance survey map of 1871), but one died so now only seven survive. These trees are now mature and will need to be replaced in the not-too-distant future if they are not to become a hazard. The limes are usually identified as '*lilia x europaea*' but the tree at the southern end has a very different growth form from the others, which is probably the result of it getting more light but could also be because it could be a different species (see the note on the occurrence of pauper pug).

Two other trees were planted at much the same time; two yew trees which are marked with metal plaques inscribed: -

'Planted by James Knight Esq of Vernon House ¹Farnham on March 17th 1863 as a memento of the Wedding Day of HRH The Prince and Princess of Wales².'

¹ Vernon House in West Street now houses the Museum of Farnham.

² The Prince of Wales became King Edward the Seventh.

Plants were recorded by on two occasions; Firstly in 1991 by Mrs Denise Todd as part of an OU degree and later on 11 June 2015 during the Bourne Conservation Group's Bioblitz by Isobel Girvan (principal ecologist at SWT). The survey techniques were quite different – the Bioblitz approach was to gain a comprehensive inventory of all the plants found in the churchyard by walk-overs, whereas Mrs Todd's approach was to produce comparative data from a series of quadrats and so was not comprehensive of the site as a whole - nevertheless her survey has been invaluable in providing a baseline for evaluating subsequent changes. Species recorded during both surveys are indicated with ●, and those planted by BCG are indicated by ■

1	<i>Acer pseudoplatanum</i> ●	Sycamore
2	<i>Alisma plantago-aquatica</i>	Water Plantain (p)
3	<i>Alliaria petiolata</i>	Jack-by-the-hedge
4	<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass
5	<i>Anthriscus sylvestris</i>	Cow Parsley
6	<i>Aquilegia vulgaris</i>	Columbine (g)
7	<i>Arrhenatheum elatius</i>	False Oat-grass
8	<i>Bellis perennis</i>	Daisy
9	<i>Brachypodium sylvaticum</i>	False Wood-brome
10	<i>Buddleja globosa</i> ■	Orange Ball Buddleja
11	<i>Caltha palustris</i>	Marsh Marigold (p)
12	<i>Acer campestre</i>	Field Maple (p)
13	<i>Calystegia sepium</i>	Hedge Bindweed
14	<i>Centaurea nigra</i>	Common Knapweed
15	<i>Centranthus ruber</i>	Red Valerian
16	<i>Chamaecyparis lawsoniana</i> ●	Lawson's Cypress (p)
17	<i>Cirsium vulgare</i>	Spear Thistle
18	<i>Clematis vitalba</i>	Wild Clematis
19	<i>Cornus sanguinea</i>	Dogwood (p)
20	<i>Corylus avellana</i>	Hazel
21	<i>Crataegus monogyna</i>	Hawthorn (p)
22	<i>Crocsmia</i> sp.	Montbretia (g)
23	<i>Cyclamen</i> sp.	a Sowbread Cyclamen (g)
24	<i>Cytisus scoparius</i>	Broom (g)
25	<i>Dactylis glomerata</i>	Cock's-foot
26	<i>Deschampsia caespitosa</i>	Tufted Hair-grass
27	<i>Digitalis purpurea</i> ●	Foxglove
28	<i>Dryopteris filix-mas</i>	Male Fern
29	<i>Epilobium montanum</i>	Broad-leaved Willowherb
30	<i>Epilobium</i> sp.	a Willowherb
31	<i>Euphorbia</i> sp.	a spurge
32	<i>Fagus sylvatica</i>	Beech (p)
33	<i>Fagus sylvatica</i> f. 'purpurea'	Copper Beech
34	<i>Festuca rubra</i> agg.	Red Fescue
35	<i>Fragaria vesca</i>	Wild Strawberry
36	<i>Frangula alnus</i>	Alder Buckthorn (g)
37	<i>Fraxinus excelsior</i>	Ash

38	<i>Galanthus sp.</i> ●	a Snowdrop (g)
39	<i>Galium album</i>	Hedge Bedstraw
40	<i>Galium aparine</i> ●	Cleavers
41	<i>Geranium dissectum</i>	Cut-leaved Crane's-bill
42	<i>Geranium lucidum</i>	Shining Crane's-bill (g)
43	<i>Geranium robertianum</i>	Herb-robert
44	<i>Geranium x oxonianum (G. endressi x G. versicolor)</i>	Druce's Crane's-bill (g)
45	<i>Geum urbanum</i>	Wood Avens
46	<i>Hedera helix</i> ●	Common Ivy
47	<i>Heracleum sphondylium</i>	Hogweed
48	<i>Holcus lanatus</i>	Yorkshire-fog
49	<i>Hyacinthoides x massartiana (H. non-scripta x H. hispanica)</i>	Hybrid Bluebell (g)
50	<i>Hypochaeris radicata</i>	Cat's-ear
51	<i>Ilex aquifolium</i> ●	Holly
52	<i>Iris pseudocorus</i>	Yellow (Flag) Iris (p)
53	<i>Jasminum sp.</i>	Jasmine (g)
54	<i>Juncus articulatus</i>	Jointed Rush (p)
55	<i>Lamium galeobdolon ssp. Argntatum</i>	Variegated Yellow Archangel (g)
56	<i>Lapsana communis</i>	Nipplewort
57	<i>Lavandula sp.</i>	Lavender
58	<i>Lemna minor</i>	Common Duckweed
59	<i>Leucanthemum vulgare</i>	Oxeye Daisy
60	<i>Ligustrum ovalifolium</i> ●	Garden Privet
61	<i>Lotus corniculatus</i>	Common Bird's-foot Trefoil
62	<i>Lunaria annua</i> ●	Honesty (g)
63	<i>Luzula campestris</i>	Field Wood-rush
64	<i>Luzula forsteri</i>	Southern Woodrush
65	<i>Lychnis flos-cuculi</i>	Ragged Robin
66	<i>Lysimachia nummularia</i>	Creeping Jenny
67	<i>Mahonia sp.</i>	an Oregon-grape (g)
68	<i>Malva moschata</i>	Musk Mallow
69	<i>Medicago lupulina</i>	Black Medick
70	<i>Mentha aquatica</i>	Water Mint (p)
71	<i>Myosotis arvense</i>	Field Forget-me-not
72	<i>Narcissus sp.</i> ●	a garden Daffodil (g)
73	<i>Nuphar lutea</i> ■	Yellow Waterlily (p)
74	<i>Pentaglottis sempervirens</i>	Green Alkanet
75	<i>Pinus sylvestris</i> ●	Scots Pine (g)
76	<i>Plantago lanceolata</i> ●	Ribwort Plantain
77	<i>Plantago major</i>	Greater Plantain
78	<i>Plantago media</i>	Greater Plantain
79	<i>Poa annua</i>	Annual Meadow-grass
80	<i>Poa trivialis</i>	Rough Meadow-grass
81	<i>Polypodium vulgare</i> ●	Common Polypody (fern)

82	<i>Primula veris</i> ■	Cowslip
83	<i>Primula vulgaris</i> ●	Primrose
84	<i>Prunella vulgaris</i>	Self-heal
	<i>Prunus sp</i>	Cherry
86	<i>Pyracantha sp.</i> ●	a Firethorn (g)
87	<i>Quercus robur</i>	Pedunculate Oak
88	<i>Ranunculus acris</i>	Meadow Buttercup
89	<i>Ranunculus repens</i>	Creeping Buttercup
90	<i>Rosa sp.</i>	a Rose
91	<i>Rubus fruticosus agg.</i> ●	Bramble
92	<i>Rumex acetosa</i>	Common Sorrel
93	<i>Salix caprea ssp. caprea</i>	Goat Willow (p)
94	<i>Salix viminalis</i>	Osier (p)
95	<i>Sanguisorba minor</i>	Salad Burnet
96	<i>Senecio jacobaea</i>	Common Ragwort
97	<i>Silene dioica</i>	Red Campion
98	<i>Silene vulgaris</i>	Bladder Campion
99	<i>Sorbus aucuparia</i>	Rowan (p)
100	<i>Stachys officinalis</i>	Betany
101	<i>Stellaria holostea</i>	Greater Stitchwort
102	<i>Taraxacum sp.</i> ●	Dandelion
103	<i>Torilis japonica</i>	Hedge Parsley
104	<i>Taxus baccata</i> ●	Yew
105	<i>Trifolium dubium</i>	Lesser Trefoil
106	<i>Trifolium pratense</i>	Red Clover
107	<i>Trifolium repens</i>	White Clover
108	<i>Urtica dioica</i> ●	Common Nettle
109	<i>Veronica chamaedrys</i> ●	Germander Speedwell
110	<i>Veronica hederifolia ssp. leucorum</i>	Ivy-leaved Speedwell
111	<i>Vicia hirsuta</i>	Hairy Tare
112	<i>Vicia sativa ssp. Sativa</i>	Common Vetch
113	<i>Vinca major</i> ●	
114	<i>Viola sp.</i>	
115	<i>Crocus sp.</i>	

Locally the Churchyard is well known for its colourful display of spring flowers – especially of purple and some white crocuses towards the end of February and into March. The crocus display is followed by smaller displays of daffodils and primroses followed by cow parsley, which are typical of local woodlands. A few changes in the plants occurred between the two surveys. The most striking was the disappearance of silver birches which in Denise Todd's 1991 report was reported to have been coppiced. Another loss was that of meadow saxifrage *Saxifraga granulata*. This plant flourishes in the churchyard in of Godalming's church and is an attractive summer flowering species might be a candidate for re-introduction. Another plant which has disappeared is bracken *Pteridium aquilinum*, which

was exterminated following three years of regularly pulling its emerging shoots as they appeared above ground in the Spring – otherwise the bracken would have spread throughout the site suppressing the ground flora, and hence many of the animal species would disappear. The rich diversity of plants results in a corresponding rich diversity of microhabitats and hence of insect and other invertebrate species. The animal species recorded, mostly from 2009-2016, are listed below.

Mammals

1	<i>Meles meles</i>	Badger
2	<i>Pipistrellus pipistrellus</i>	Pipistrelle bats
3	<i>Vulpes vulpes</i>	Fox
4	<i>Apodemus sylvaticus</i>	wood mouse
5	<i>Sciurus carolinensis</i>	grey squirrel
6	<i>Capreolus capreolus</i>	roe deer
7	<i>Pipistrellus pipistrellus</i>	pipistrelle bat (possibly other species)

Amphibia

8	<i>Lissotriton vulgaris</i>	Smooth newt
9	<i>Lissotriton helveticus</i>	palmate newt
10	<i>Rana temporaria</i>	common frog
11	<i>Bufo bufo</i>	Common toad

Reptiles

12	<i>Anguis fragilis</i>	Slow worm
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An adder was reported by a member of the public in 2011 which was most likely to have been a grass snake.

Birds

13	<i>Erithacus rubecula</i>	Robin
14	<i>Turdus merula</i>	Blackbird
15	<i>Columba palumbus</i>	Wood pigeon
16	<i>Carduelis carduelis</i>	Goldfinch
17	<i>Chloris chloris</i>	Greenfinch
18	<i>Turdus philomelos</i>	Song Thrush
19	<i>Sitta europaea</i>	Nuthatch
20	<i>Troglodytes troglodytes</i>	Wren
21	<i>Parus major</i>	Great Tit
22	<i>Cyanistes caeruleus</i>	Blue Tit
23	<i>Prunella modularis</i>	Dunnock
24	<i>Fringilla coelebs</i>	Chaffinch
25	<i>Corvus corone</i>	Carrion Crow
26	<i>Dendrocopos major</i>	Great Spotted Woodpecker

27	<i>Pyrrhula pyrrhula</i>	Bullfinch
28	<i>Garrulus glandarius</i>	Jay
29	<i>Pica pica</i>	Magpie
30	<i>Strix aluco</i>	tawny owl

Molluscs

31	<i>Cornu aspera</i>	Common garden snail
32	<i>Discus rotundus</i>	Rounded snail
33	<i>Cepaea nemoralis</i>	Banded snail
34	<i>Cepaea hortensis</i>	White-lipped s
35	<i>Limnaea stagnalis</i>	pond snail
36	<i>Limnaea peregra</i>	wandering pond snail
37	<i>Succinea putris</i>	
38	<i>Arion ater</i>	Large black slug
39	<i>Limax maxima</i>	leopard slug
40	<i>Arion subfuscus</i>	
41	<i>Limax marginatus</i>	tree slug
42	<i>Clausilia bidentata</i>	
43	<i>Oxychilus cellularis</i>	
44	<i>Aegopinella nitidula</i>	
45	<i>Zonitoides excavatus</i>	
46	<i>Limax flavus</i>	
47	<i>Lehmannia marginata</i>	
48	<i>Deroceras reticulatum</i>	

Isopods (woodlice)

49	<i>Armadillium vulgare</i>	common pill woodlouse
50	<i>Oniscus asellus</i>	common shiny woodlouse
51	<i>Philoscia muscorum</i>	common striped woodlouse
52	<i>Porcellus pictus</i>	
53	<i>Porcellio scaber</i>	common rough woodlouse
54	<i>Trichoniscus pygmaeus</i>	common pygmy woodlouse
55	<i>Platyarthrus hoffmannseggi</i>	ant woodlouse

Centipedes and millepedes

56	<i>Tachypodoiulus niger</i>	white-legged snake millipede
57	<i>Polydesmus sp,</i>	flat-backed millipedes
58	<i>Lithobius forficatus</i>	common centipede
59	<i>Pachymerium ferrugineum</i>	
60	<i>Polydesmus denticulatus</i>	

Diptera (flies)

60	<i>Cheilosia sp.</i>	Hoverfly
61	<i>Chrysotoxum bicinctum</i>	Hoverfly
62	<i>Chrysotoxum cautum</i>	Hoverfly
63	<i>Episyrphus balteatus</i>	Hoverfly
64	<i>Eristalis horticola</i>	Hoverfly
65	<i>Eristalis interruptus</i>	Hoverfly
66	<i>Eristalis intricaria</i>	Hoverfly
67	<i>Eristalis pertinax</i>	Hoverfly
68	<i>Eristalis tenax</i>	Hoverfly
69	<i>Eupeodes corollae</i>	Hoverfly
70	<i>Helophilus pendulus</i>	Hoverfly
71	<i>Melangyna opositarum</i>	Hoverfly
72	<i>Meredon equestris</i>	Narcissus fly
73	<i>Metasyrphus luniger</i>	Hoverfly
74	<i>Myathropa florea</i>	Hoverfly
75	<i>Rhingia campestris</i>	Hoverfly
76	<i>Scaeva pyrastris</i>	Hoverfly
77	<i>Sphaerophoria sp.</i>	Hoverfly
78	<i>Syritta pipiens</i>	Hoverfly
79	<i>Syrphus ribesii</i>	Hoverfly
80	<i>Syrphus vitripennis</i>	Hoverfly
81	<i>Volucella bombylans</i>	Hoverfly
82	<i>Volucella inanis</i>	Hoverfly
83	<i>Volucella pelluscens</i>	Hoverfly
	<i>Xanthogramma</i>	
84	<i>citrofasciatum</i>	Hoverfly
85	<i>Xanthogramma pedissequum</i>	Hoverfly
86	<i>Xylophagus sp</i>	Hoverfly
87	<i>Panorpa cognata</i>	A scorpion fly
88	<i>Bombylius major</i>	Bee fly
89	<i>Sarcophaga carnaria</i>	Flesh-fly
90	<i>Mesembrina meridiana</i>	
91	<i>Glyptotendipes cauliginellus</i>	Chironomid midge
92	<i>Asilus crabroniformis</i>	Robber fly
93	<i>Sepedon sphegeus</i>	sciomyzid fly
94	<i>Rhagio sp.</i>	Snipe fly
95	<i>Tachina fera</i>	Tachinid fly
96	<i>Bibio hybridus</i>	fly
97	<i>Ephemera danica</i>	Mayfly
98	<i>Conops quadrifasciata</i>	Conopid fly
99	<i>Sicus ferrugineus</i>	Myopinid fly
100	<i>Gymnosoma rotundatum</i>	Tachinid fly
101	<i>Physocephala rufipes</i>	
102	<i>Empis tessellata</i>	
103	<i>Simulium sp</i>	aquatic blood worm
104		house fly

105		bluebottle
106		Green bottle

Coleoptera (beetles)

107	<i>Amphimallon solstitialis</i>	Summer chafer
108	<i>Apoderus coryli</i>	hazel-leaf roller
109	<i>Cantharis rustica</i>	soldier beetle
110	<i>Cantharus rubra</i>	
111	<i>Cetonia aurata</i>	Rose chafer
112	<i>Coccinella septempunctata</i>	7- spot ladybird
113	<i>Curculio nucum</i>	Nut weevil
114	<i>Dorcus parallelepipedus</i>	Lesser stag beetle
115	<i>Gyrinus sp</i>	Whirligig beetles
116	<i>Harmonia axyridis</i>	Harlequin ladybird
117	<i>Lagria hirta</i>	
118	<i>Lucanus cervus</i>	Stag beetle
119	<i>Melolontha hippocastani</i>	Forest chaffer
120	<i>Melolontha melolontha</i>	may bug
121	<i>Nalassus laevioctostriatus</i>	
122	<i>Nebria brevicolis</i>	ground beetle
123	<i>Nicrophorus humator</i>	Black sexton beetle
124	<i>Nicrophorus vespilloides</i>	Red sexton beetle
125	<i>Notophilus biguttatus</i>	
126	<i>Oedemera nobiilis</i>	Thick-legged flower beetle
127	<i>Otiorhynchus sulcatus</i>	Vine weevil
128	<i>Phyllopertha horticola</i>	a chafer
129	<i>Prionus coriarius</i>	Tanner or Sawyer beetle
130	<i>Pterostichus madidus</i>	ground beetle
131	<i>Pyrochroa serraticornis</i>	Red headed cardinal beetle
132	<i>Rhagnum mordax</i>	a Longhorn beetle
133	<i>Rhagonycha fulva</i> <i>Rutpela (Strangalia)</i>	a soldier beetle
134	<i>maculata</i>	Longhorn beetle
135	<i>Serica brunnea</i>	Brown chafer
136	<i>Staphylinus olens</i>	Devils coach horse
137	<i>Strangalia maculata</i>	
138	<i>Acilis sulcatus</i>	water beetle
139	<i>Bibio varipes</i>	Variable bibio

Butterflies

140	<i>Aglais io</i>	peacock Small
141	<i>Aglais urticae</i>	tortoiseshell
142	<i>Anthocharis cardamines</i>	Orange tip
143	<i>Celastrina rgjolus</i>	Holly blue

144	<i>Coenonympha pamphilus</i>	Small heath
145	<i>Coenonympha tullia</i>	Large heath
146	<i>Gonepteryx rhamni</i>	Brimstone
147	<i>Inachus io</i>	Peacock
148	<i>Lycaena phlaes</i>	Small copper
149	<i>Maniola jurtina</i>	Meadow brown
150	<i>Ochlodes venata</i>	Large skipper
151	<i>Pararge aegeria</i>	Speckled wood
152	<i>Pieris brassicae</i>	Large white
153	<i>Pieris napi</i>	Green-veined white
154	<i>Pieris rapae</i>	Small white
155	<i>Polygona c-album</i>	Comma
156	<i>Polyommatus icarus</i>	Common blue
157	<i>Thymelicus sylvestris</i>	Small skipper
158	<i>Vanessa atalanta</i>	Red Admiral
159	<i>Vanessa cardui</i>	Painted lady

Hymenoptera (bees, ants and wasps)

160	<i>Bombus hypnorum</i>	Tree bumblebee
161	<i>Bombus pascuorum</i>	common carder Garden bumblebee
162	<i>Bombus hortorum</i>	bumblebee
163	<i>Apis mellifera</i>	Honey bee
164	<i>Vespula vulgaris</i>	Common wasp
165	<i>Lasius niger</i>	Black ants
166	<i>Vespa crabro</i>	Hornet
167	<i>Dolichovespula media</i>	Median wasp
168	<i>Dolichovespula sylvestris</i>	Tree wasp
169	<i>Bombus terrestris</i>	
170	<i>Osmia rufa</i>	
171	<i>Crabo cribarius</i>	
172	<i>Nomada flava</i>	
173	<i>Andrena flavipes</i>	
174	<i>Gasteruption jaculator</i>	
175	<i>Tenthredo arcuata</i>	
176	<i>Ophion luteus</i>	Yellow ichneumon

Orthoptera (grasshoppers and crickets)

177	<i>Meconema thalassinum</i>	Oak bush cricket
178	<i>Pholidoptera griseoptera</i>	Dark bush cricket
179	<i>Metrioptera roeselii</i>	Rosesel's Bush Cricket
180	<i>Leptophyes punctatissima</i>	Speckled Bush Cricket
181	<i>Tetrix undulata</i>	Common goundhopper
182	<i>Omocestus rufipes</i>	Woodland grasshopper

183	<i>Omocestus viridulus</i>	Common green grasshopper
184	<i>Chorthippus brunneus</i>	Field grasshopper
185	<i>Chorthippus parallelus</i>	Meadow grasshopper
186	<i>Ectobius lapponicus</i>	Dusky cockroach
187	<i>Ectobius pallidus</i>	Tawny cockroach

Earwig

189	<i>Forficula auricularia</i>	Common earwig
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Odonata (dragonflies and damselflies)

189	<i>Pyrrosoma nympha</i>	large red Damselfly
190	<i>Aeschna cyanea</i>	Souther hawker
191	<i>Enallagma cyathigerum</i>	Common blue damselfly

Hemiptera (bugs)

192	<i>Palomena prasina</i>	green shieldbug
193	<i>Acanthosoma haemorrhoidale</i>	hawthorn shieldbug
194	<i>Notonecta glauca</i>	water boatmen
195	<i>Elasmotethus interstinctus</i>	Birch shieldbug
196	<i>Elasmucha grisea</i>	Parent bug
197	<i>Palomena prasina</i>	Green shieldbug
198	<i>Pentatoma rufipes</i>	Forest bug
199	<i>Coreus marginatus</i>	Dock bug
200	<i>Leptoglossus occidentalis</i>	Western conifer seed bug
201	<i>Philaenus spumarius</i>	Common froghopper
202	<i>Graphocephala fennahi</i>	Rhododendron leafhopper

Arachnids (spiders and harvestmen)

203	<i>Nuctenea umbratica</i>	
204	<i>Amaurobius ferox</i>	
205	<i>Amaurobius fenestralis</i>	
206	<i>Araneus quadratus</i>	
207	<i>Araneus quadrimaculatus</i>	Common cross spider
208	<i>Dysdera crocata</i>	Woodlouse spider
209	<i>Meta mengei</i>	
210	<i>Misumena vatia</i>	Crab spider
211	<i>Pardosa</i> sp.	
212	<i>Pisaura mirabilis</i>	
213	<i>Steatoda bipunctata</i>	False widow
214	<i>Tetragnatha extensa</i>	
215	<i>Xysticus sabulosus</i>	A crab spider
216	<i>Lycosa terricola</i>	

217	<i>Anyphaena accentuata</i>	
218	<i>Platybunus triangularis</i>	Harvestman
219	<i>Oligolophus tridens</i>	Harvestman

Moths

220	<i>Nematopogon swammerdamella</i> .	
221	<i>Nematopogon schwarziellus</i>	
222	<i>Taleporia tubulosa</i>	
223	<i>Luffia ferchautella</i>	
224	<i>Psyche casta</i>	
225	<i>Monopsis laevigella</i>	skin moth
226	<i>Roeslerstammia erxlabella</i>	
227	<i>Parornix devoniella</i>	
228	<i>Paraswammerdamia nebulella</i>	
229	<i>Cedestis gysselella</i>	
230	<i>Ypsolopha scabrella</i>	
231	<i>Ypsolopha parenthesesella</i>	
232	<i>Plutella xylostella</i>	diamond-backed moth
233	<i>Endrosis sarcitrella</i>	White-shouldered house moth
234	<i>Hofmannophila pseudospretella</i>	brown house moth
235	<i>Alabonia geoffrella</i>	
236	<i>Diurnea fagella</i>	
237	<i>Carcina quercana</i>	
238	<i>Agonopterix heracliana</i>	
239	<i>Bryotropha terrella</i>	
240	<i>Bryotropha affinis</i>	
241	<i>Blastobasis adustella</i>	
242	<i>Blastobasis lacticolella</i>	
243	<i>Alucita hexadactyla</i>	Twenty plume moth
244	<i>Gillmeria pallidactyla</i>	yarrow plume
245	<i>Amblyptilia acanthadactyla</i>	Beautiful plume
246	<i>Emmelina monodactyla</i>	common plume
247	<i>Ditula angustiorana</i>	red barred tortrix
248	<i>Capua vulgana</i>	
249	<i>Archips xylosteana</i>	variegated golden tortrix
250	<i>Pandemis corylana</i>	Chequered fruit tree tortrix
251	<i>Pandemis cerasana</i>	barred fruit tree tortrix
252	<i>Syndemis musculana</i>	
253	<i>Aphelia paleana</i>	timothy tortrix
254	<i>Epiphyas postvittana</i>	light brown apple moth
255	<i>Lozotaeniodes formosana</i>	
256	<i>Tortricodes alternella</i>	
257	<i>Tortrix viridana</i>	green oak tortrix
258	<i>Aleimma loeflingiana</i>	

259	<i>Acleris cristana</i>	
260	<i>Agapeta hamana</i>	
261	<i>Eudemis profundana</i>	
262	<i>Piniphila bifasciana</i>	
263	<i>Rhopobota naevana</i>	holly tortrix
264	<i>Epinotia ramella</i>	
265	<i>Epinotia nisella</i>	
266	<i>Gypsonoma dealbana</i>	
267	<i>Rhyacionia pinivorana</i>	spotted shoot moth
268	<i>Cydia splendana</i>	
269	<i>Pammene regiana</i>	
270	<i>Pammene aurana</i>	
271	<i>Zeuzera pyrina</i>	Leopard moth
272	<i>Aphomia sociella</i>	bee moth
273	<i>Cryptoblabes bistriga</i>	
274	<i>Dioryctria simplicella</i>	
275	<i>Phycita roborella</i>	
276	<i>Acrobasis advenella</i>	
277	<i>Synaphe punctalis</i>	
278	<i>Hypsopygia glaucinalis</i>	
279	<i>Endotrichia flammealis</i>	
280	<i>Pyrausta aurata</i>	
281	<i>Pyrausta purpuralis</i>	
282	<i>Anania coronata</i>	
283	<i>Anania hortulata</i>	Small Magpie
284	<i>Udea prunalis</i>	
285	<i>Udea olivalis</i>	
286	<i>Pleuroptya ruralis</i>	Mother of pearl
287	<i>Nomophila noctuella</i>	Rush veneer
288	<i>Evergestis forficalis</i>	Garden pebble
289	<i>Scoparia basistrigalis</i>	
290	<i>Eudonia lacustrata</i>	
291	<i>Eudonia mercurella</i>	
292	<i>Chrysoteuchia culmella</i>	garden grass veneer
293	<i>Crambus pascuella</i>	
294	<i>Crambus lathoniellus</i>	
295	<i>Crambus perlella</i>	
296	<i>Agriphila tristella</i>	
297	<i>Agriphila straminella</i>	
298	<i>Agriphila geniculea</i>	
299	<i>Catoptria pinella</i>	
300	<i>Catoptria falsella</i>	
301	<i>Falcaria lacertinaria</i>	scalloped hooktip
302	<i>Watsonalla binaria</i>	Oak hook-tip
303	<i>Drepana falcataria</i>	pebble hook-tip
304	<i>Thyatira batis</i>	peach blossom

305	<i>Habrosyne pyritoides</i>	Buff arches
306	<i>Tethea ocularis</i>	Figure of 80
307	<i>Polyploca ridens</i>	Frosted green
308	<i>Achlya flavicornis</i>	Yellow horned
309	<i>Mimas tiliae</i>	lime hawkmoth
310	<i>Laothone cerula</i>	Poplar hawkmoth
311	<i>Sphinx pinastri</i>	pine hawkmoth
312	<i>Deilephila elpenor</i>	Elephant hawkmoth
313	<i>Idaea seriata</i>	small dusty wave
314	<i>Idaea trigeminata</i>	Treble brown spot
315	<i>Idaea biselata</i>	small fan-footed wave
316	<i>Idaea aversata</i>	Riband wave
317	<i>Timandra comae</i>	blood vein
318	<i>Cyclophora punctaria</i>	Maidens blush
319	<i>Xanthorhoe fluctuata</i>	Garden carpet
320	<i>Xanthorhoe biriviata</i>	Balsam carpet
321	<i>Xanthorhoe spadicearia</i>	red twinspace carpet
322	<i>Xanthorhoe designata</i>	flame carpet
323	<i>Xanthorhoe montanata</i>	silver ground carpet
324	<i>Camptogramma bilineata</i>	Yellow shell
325	<i>Hydriomena furcata</i>	july highflier
326	<i>Pennithera firmata</i>	Pine carpet
327	<i>Thera britannica</i>	Spruce carpet
328	<i>Thera obeliscata</i>	Grey pine carpet
329	<i>Electrophaes corylata</i>	Broken-barred carpet
330	<i>Ecliptopera silaceata</i>	small phoenix
331	<i>Chloroclysta siterata</i>	Red-green carpet
332	<i>Dysstroma truncata</i>	Common marbled carpet
333	<i>Colostygia pectinataria</i>	green carpet
334	<i>Perizoma alchemillata</i>	small rivulet
335	<i>Gymnoscelis rufifasciata</i>	Double-striped pug
336	<i>Chloroclystis v-ata</i>	V-pug
337	<i>Pasiphila rectanulata</i>	green pug
338	<i>Eupithecia haworthiata</i>	Hawoth's pug
339	<i>Eupithecia abietaria</i>	cloaked pug
340	<i>Eupithecia pulchellata</i>	Foxglove pug
341	<i>Eupithecia abbreviata</i>	Brindled pug
342	<i>Eupithecia dodoneata</i>	oak-tree pug
343	<i>Eupithecia tripunctaria</i>	White spotted pug
344	<i>Eupithecia tantillaria</i>	dwarf pug
345	<i>Eupithecia egenaria</i>	Pauper pug
346	<i>Eupithecia intricata</i>	Freyer's pug
347	<i>Eupithecia absinthiata</i>	Wormwood Pug
348	<i>Eupithecia exiguata exiguata</i>	mottled pug
349	<i>Acasis viretata</i>	yellow barred brindle
350	<i>Trichopteryx carpinata</i>	Early tooth-stripe

351	<i>Lomophila marginata</i>	clouded border
352	<i>Macarua notata</i>	Peacock
353	<i>Macaria liturata</i>	Tawny barred angle
354	<i>Plagodis dolabraria</i>	Scorched wing
355	<i>Pachycnemia hippocastanaria</i>	Horsechestnut
356	<i>Opisthograptis luteolata</i>	Brimstone
357	<i>Selenia dentaria</i>	Early thorn
358	<i>Selenia tetralunaria</i>	purple thorn
359	<i>Odontopera bidentata</i>	Scalloped hazel
360	<i>Alsophila aescularia</i>	March moth
361	<i>Biston strataria</i>	Oak beauty
362	<i>Biston betularia</i>	Peppered moth
363	<i>Menophra abruptaria</i>	waved umber
364	<i>Peribatodes rhomboidaria</i>	Willow beauty
365	<i>Alcis repandata</i>	Mottled beauty
366	<i>Hypomecis punctinalis</i>	Pale oak beauty
367	<i>Bupalus piniaria</i>	Bordered white
368	<i>Cabera pusaria</i>	Common white wave
369	<i>Cabera exanthemata</i>	Common wave
370	<i>Lomographa bimaculata</i>	White pinion spotted
371	<i>Lomographa temerata</i>	Clouded silver
372	<i>Campaea margaritata</i>	Light emerald
373	<i>Hylaea fasciaria</i>	barred red
374	<i>Hemistola chrysoprasaria</i>	small emerald
375	<i>Hemithea aestivaria</i>	Common emerald
376	<i>Stauropus fagi</i>	lobster moth
377	<i>Drymonia ruficornis</i>	lunar marbled brown
378	<i>Notodonta dromedarius</i>	iron prominent
379	<i>Pheosia tremula</i>	Swallow prominent
380	<i>Pterosoma palpina</i>	pale prominent
381	<i>Odontosia carmelita</i>	Scarce prominent
382	<i>Phalera bucephala</i>	Buff-tip
383	<i>Rivula sericealis</i>	Straw dot
384	<i>Hypena proboscidalis</i>	Snout
385	<i>Hypena rostralis</i>	buttoned snout
386	<i>Calliteara pudibunda</i>	Pale tussock
387	<i>Spilosoma luteum</i>	buff ermine
388	<i>Spilosoma lubricipeda</i>	white ermine
389	<i>Miltochrista miniata</i>	Rosy footman
390	<i>Eilema depressa</i>	Buff footman
391	<i>Eilema griseola</i>	Dingy footman
392	<i>Eilema lurideola</i>	Common footman
393	<i>Eilema complana</i>	Scarce footman
394	<i>Eilema caniola</i>	Hoary footman
395	<i>Eilema sororcula</i>	Orange footman
396	<i>Herminia tarsipennalis</i>	fan-foot

397	<i>Herminia grisealis</i>	small fanfoot
398	<i>Laspeyria flexula</i>	Beautiful hooktip
399	<i>Protodeltote pygarga</i>	Marbled white spot
400	<i>Abrostola tripartita</i>	Spectacle
401	<i>Autographa gamma</i>	silver Y
402	<i>Colocasia coryli</i>	Nut-tree tussock
403	<i>Acronicta alni</i>	alder moth
404	<i>Acronicta psi.</i>	Grey dagger
405	<i>Acronicta aceris</i>	Sycamore
406	<i>Acronicta leporina</i>	Miller
407	<i>Acronicta rumicis</i>	knotgrass
408	<i>Subacronicta megacephala</i>	poplar grey
409	<i>Craniophora ligustri</i>	coronet
410	<i>Cucillia umbratica</i>	shark
411	<i>Calophasia lunula</i>	toadflax brocade
412	<i>Amphipyra pyramidea</i>	copper underwing
413	<i>Amphipyra berbera</i>	Drab copper underwing
414	<i>Xylocampa areola</i>	early grey
415	<i>Caradrina clavipalpis</i>	Pale mottled willow,
416	<i>Hoplodrina octogenaria</i>	Uncertain
417	<i>Hoplodrina ambigua</i>	Vines rustic
418	<i>Charnyca trigrammica</i>	treble lines
419	<i>Dypterygia scabriuscula</i>	bird's wing
420	<i>Phlogophora meticulosa</i>	Angle shades
421	<i>Euplexia lucipara</i>	small angle shades
422	<i>Hydraecia micacea</i>	rosy rustic
423	<i>Amphipoea oculea</i>	Ear moth
424	<i>Luperina testacea</i>	Flounced rustic
425	<i>Apamea crenata</i>	clouded bordered brindle
426	<i>Apamea monoglypha</i>	Dark arches
427	<i>Apamea lithoxylosa</i>	Light Arches
428	<i>Mespamea secalis</i>	Common' rustic
429	<i>Oligia strigilis</i>	marbled minor
430	<i>Oligia latruncula</i>	Tawny marbled minor
431	<i>Conistra vaccinii</i>	Chestnut*
432	<i>Conistra rubiginea</i>	Dotted chestnut
433	<i>Lithophane ornitopus</i>	Grey shoulder knot
434	<i>Cosmia trapezina</i>	Dun-bar
435	<i>Atethmia centrigo</i>	centre-barred sallow
436	<i>Dryobotodes eremita</i>	Brindled green
437	<i>Aporophyla nigra</i>	black rustic
438	<i>Panolis flammea</i>	pine beauty
439	<i>Orthosia incerta</i>	Clouded drab
440	<i>Orthosia cerasi</i>	Common quaker
441	<i>Orthosia cruda</i>	Small quaker
442	<i>Orthosia gothica</i>	Hebrew character

443	<i>Anorthoa munda</i>	twin-spot quaker
444	<i>Polia nebulosa</i>	Grey Arches
445	<i>Lacanobia w-latinum</i>	Light brocade
446	<i>Melanchra persicariae</i>	Dot moth
447	<i>Hada plebeja</i>	Shears
448	<i>Mythimna impura</i>	common wainscot
449	<i>Mythimna pallens</i>	smoky wainscot
450	<i>Mythimna ferrago</i>	Clay
451	<i>Leucania comma</i>	shoulder-striped wainscot
452	<i>Agrotis exclamationis</i>	Heart and dart
453	<i>Agrotis segetum</i>	turnip moth
454	<i>Agrotis clavis</i>	Heart and club
455	<i>Agrotis puta</i>	Shuttle-shaped dart
456	<i>Axylia putris</i>	Flame
457	<i>Ochropleura plecta</i>	Flame shoulder
458	<i>Noctua pronuba</i>	large yellow underwing
459	<i>Noctua fimbriata</i>	Broad-bordered yellow underwing
460	<i>Noctua comes</i>	lesser yellow underwing
461	<i>Noctua interjecta</i>	Least yellow underwing
462	<i>Noctua janthe</i>	Lesser broad bordered yellow underwing
463	<i>Xestia xanthographa</i>	Square-spot rustic
464	<i>Xestia c-nigrum</i>	Setaceous hebrew character
465	<i>Xestia ditrapezium</i>	Triple spot clay
466	<i>Xestia triangulum</i>	Double square spot
467	<i>Nola confusalis</i>	Least black arches
468	<i>Pseudoips prasinana</i>	Green silver lines
469	<i>Nycteola revayana</i>	Oak Nycteoline

The length of this list is notable, even so it is probably no richer in diversity than neighbouring gardens and patches of woodland if they were to be surveyed as intensively. However, there is one notable species probably only found in the Churchyard - the pauper pug *Eupithecia egenaria* which is an extremely scarce species associated with lime trees. Until quite recently, it was thought to be restricted to historical strongholds in the Wye Valley and parts of East Anglia. Its discovery in the Churchyard in 2009 was one of the first indications it was more widespread. It may have been introduced on the trees when they were planted in the 1860's, but there is no record of from whence the trees were originally sourced.

Another interesting discovery in the churchyard was the first record of the ivy bee *Coletes hederæ* in Farnham. This bee was first described scientifically in Eastern Europe in 1993, and it arrived in the UK in 2001 and then spread rapidly throughout much of England. It was first recorded in Farnham in the Old Churchyard in 2012 and since has become the commonest hymenopteran species visiting ivy blossom. Other recent arrivals (since BCG took over the management of the site) include The harlequin ladybird (*Harmonia axyridis*), the tree bumblebee (*Bombus hypnorum*) and the box-tree moth (*Cydalima perspectalis*). No doubt there are species which will have disappeared like the meadow saxifrage, but in the absence of comprehensive past records these species cannot be identified nor the refactors leading to their local extinction identified.

An important factor contributing to the site's rich diversity has been the non-use of chemical fertilisers and pesticides over the years combined with a 'lightness' of management. There is a multiplicity of microhabitats, notably including the hard surfaces of the monuments. The

environmental management provided by the Bourne Conservation Group has been light, so the Churchyard has been saved from being over-tidied - with all the monuments laid flat for health and safety reasons as has occurred with so many other churchyards handed over to local councils.