

Parasitic Hymenoptera from the Harrogate District

Superfamily CYNIPOIDEA

Family CYNIPIDAE – the Gall Wasps

These insects have switched from parasitising insects to laying their eggs in plant tissue. The females produce chemicals which mimic plant auxins and cause specific galls to develop on particular plants, even if no eggs are laid or the eggs or larvae die. Each gall isolates the larva from the plant and usually does not interfere with photosynthesis while providing nutrients to the growing larva. Some wasps which gall Sessile and Pedunculate Oaks and their hybrids have alternating generations – the overwintering galls are agamic, containing only females, but the galls which they produce in spring are different in appearance and contain males and females; in some cases these sexual galls only develop on Turkey Oak, so the host plant alternates as well.

Not all gall wasps produce galls, some are inquilines which lay their eggs in the galls of other wasps; often both causer and inquilines develop successfully but sometimes the inquilines crowd out the gall causer and prevent its development.

Adult insects, emergers and galls have contributed to this list.

Ceroptres arator Hartig, 1841. Uncommon in Yorkshire [U]

An inquiline which develops in oak galls such as Marble and Cola Nut Galls.
Bilton Lane disused railway embankment (SE3157) 1.7.1989 Bill Ely [WAE]

Phanacis hypochoeridis (Kieffer, 1877). Frequent in Yorkshire [F]

Galls distort the stems of Catsear.
Spofforth (SE3650/SE3651) 7.9.2008 WAE

Liposthenus latreillei (Kieffer, 1892) U

Forms sac-like swellings on Ground Ivy
Farnham gravel pits (SE3559) 13.6.1998 Ken Payne [KGP]
High Batts NR (SE2877/SE2977) 18.9.2019 Tom Higginbottom [TH], Ian Farmer [IF], Jill Cunningham [JC]

Periclistus caninae (Hartig, 1840). Rare in Yorkshire [R]

An inquiline in Smooth and Spiked Galls on rose.
Hollin Head Wood, Ellington Banks Training area (SE2773) 2.9.1989 WAE

Diastrophus rubi (Bouch 1834). U

Causes bramble runners to develop swellings.
West Tanfield (SE27U) early C20th

Synergus albipes Hartig, 1841. F

An inquiline which develops in oak galls such as Marble, Artichoke, Oyster, Common Spangle and Pea Galls.
Birk Gill Wood, Colsterdale (SE1381) 17.6.1981 WAE

Synergus gallaepomiformis (Boyer de Fonscolombe, 1832). U

An inquiline which develops in oak galls such as Cola Nut, Artichoke and Common Spangle Galls.
Parsonage Wood, Goldsborough Moor (SE3956) 16.5.1982 WAE

Synergus nervosus Hartig, 1840. F

An inquiline which develops in oak galls such as Common Spangle Galls.
Hollin Head Wood 2.9.1989 WAE
Hutton Conyers (SE323733) 17.5.2011 Charles Fletcher [CHF]
Guisecliffe Wood, Glasshouses (SE1663) 7.7.2011 CHF

Synergus pallidipennis Mayr, 1872. R* [the only Yorkshire record]

An inquiline which develops in oak galls
Birk Gill Wood 31.8.1980 WAE

Smooth Pea Gall *Diplolepis eglanteriae* (Hartig, 1840) or ***Diplolepis nervosus*** (Curtis, 1838).
Galls on upper surfaces of rose leaves. Adults have to be bred out for determination.
River Nidd, Wath (SE1467) 17.9.2011 WAE

Spiked Pea Gall *Diplolepis nervosus* (Curtis, 1838). F
Galls on upper surfaces of rose leaves.
Littlethorpe (SE3268/SE3269) 18.8.1957 FEB
High Batts NR 18.9.2019 TH,IF,JC

Robin's Pincushion or Bedeguar Gall *Diplolepis rosae* (Linnaeus, 1758). Very Common in Yorkshire [VC]
Galls leaves and buds of Field and Dog Roses with a mass of long, wiry red hairs.
Fulwith (SE3152) C19th Peter Inchbald + Smeaton, Harrogate 22.8.1957 FEB
Ripon 22.8.1957 EBG + Hell Wath (SE3070/SE2969) 2.6.1990 Lloyd Lloyd-Evans
Farnham Mires (SE3360/SE3561) 29.8.1957 FEB
Walkingham Warren (SE3361/SE3462) 3.8.1959 FEB
Brearton (SE3160/SE3261) 9.8.1959 FEB
West Tanfield (SE27U) 1985 John Newbould [JAN]
Bilton Lane disused railway embankment 1.7.1989 WAE
Piney Moor Wood + Ellington Banks 2.9.1989 WAE + 14.6.2008 TH
Gouthwaite Hall, Nidderdale (SE1368) 17.9.2011 WAE
Staveley YWT NR (SE3663) 9.8.2020 + 2.7.2021 D.Higginson-Tranter [DH-T]

Diplolepis spinosissima (Giraud, 1859). Scarce in Yorkshire [S]
Galls leaf midribs and petioles of Burnet Rose.
Burton Leonard (SE3264/SE3363) 7.1953 C.Sh
High Batts NR 21.7.2014 WAE + 18.9.2019 IF,TH,JC

Smooth Spangle Gall *Neuroterus albipes* (Schrank, 1863).F
Flat galls overwinter on the underside of oak leaves, spring galls are smooth woody cylinders on the edges of leaves and catkins.
Ripley + Hollybank Lane + Clint + Hampsthwaite 4.10.2005 JAN
Fountains Abbey (SE2768) 24.9.2010 JAN
Valley Gardens 8.10.2011 JAN

Oyster Gall *Neuroterus anthracinus* (Curtis, 1838) VC
Cylindrical swellings overwinter on larger veins on the underside of oak leaves, spring galls are within buds.
Dallowgill, Kirby Malzeard (SE1871) 7.7.1979 WAE
Colsterdale (SE1180) 5.6.1982 + Brown Beck (SE1381) 6.6.1982 WAE
Harlow Carr RHS garden (SE2753/SE2854) 17.9.1983 WAE
Fountain's Abbey, Broad Sweep (SE2768) 15.9.1984 WAE + 24.9.2010 JAN
Piney Moor Wood + Hollin Head Wood + Ellington Banks 2.9.1989 WAE
Farnham gravel pits 13.6.1999 KGP
Sadler Carr + Ripley + Crag Hill, Killinghall (SE2758/SE2859) + Hollybank Lane + Clint + Hampsthwaite 4.10.2005 JAN
Spofforth 7.9.2008 WAE
Copgrove (SE3463) 13.7.2011 WAE
High Batts NR 18.9.2019 TH,IF,JC

April-bud Gall *Neuroterus politus* Hartig, 1840. U
Agamic galls develop on oak catkins, sexual galls develop in buds.
Colsterdale 2.6.1979 WAE
Constitution Hill, Studley Royal Park (SE2869) 15.9.1984 WAE

Hackfall Woods (SE2377) 24.5.2017 CHF

Silk-button Spangle Gall *Neuroterus numismalis* (Geoffroy in Fourcroy, 1785). VC

Ribbed ring galls overwinter on the underside of oak leaves, spring galls are small blisters within the leaves.

Birk Gill 6.6.1982 + 2.9.1984 + Colsterdale 2.9.1984 WAE

Druids' Plantation (SE1778) 2.9.1984 WAE

Constitution Hill 15.9.1984 WAE

Ripley Park 7.10.2004 + Hollybank Lane + Clint + Crag Hill + Hampsthwaite 4.10.2005 JAN

Spofforth 7.9.2008 WAE

Valley Gardens 8.10.2011 JAN

Common Spangle Gall and Currant Gall *Neuroterus quercusbaccarum* (Linnaeus, 1758). VC

Fairly flat galls overwinter on the underside of oak leaves, spring galls are Currant Galls on young leaves and catkins.

Masham (SE28) 5.1919 William Falconer [WF]

Grantley Hall (SE2369/SE2470) 9.1951 Douglas Hincks [WDH]

Littlethorpe (SE3268/SE3269) 18.8.1957 FEB

Barley Quarry, Birstwith (SE2459) 9.8.1958 FEB

South Stainley (SE3063) 3.8.1959 FEB

Burnt Yates, Ripley (SE26K) 21.8.1960 FEB

Parsonage Wood 16.5.1982 WAE

Colsterdale + Brown Beck + Birk Gill Wood 6.6.1982 + 2.9.1984 WAE

Fountain's Abbey, Broad Sweep + Constitution Hill 15-16.9.1984 WAE + 24.9.2010 JAN + 11.6.2016 CHF

Bilton Lane disused railway embankment 1.7.1989 WAE

Piney Moor Wood + Hollin Head Wood + Ellington Banks 2.9.1989 WAE + 25.5.2011 CHF

Holly Bank Lane 4.10.2005 + 5.5.2011 + Hampsthwaite + Crag Hill + 4.10.2005 JAN

Spofforth 7.9.2008 WAE

Valley Gardens 10.10.2010 + 8.10.2011 JAN

Copgrove (SE3463) 13.7.2011 WAE

Arkendale (SE3861).13.7.2011 WAE

Sharow Grange (SE329716) 30.5.2012 Jill Warwick

Hackfall Woods 24.5.2017 CHF

High Batts NR 18.9.2019 TH,IF,JC

Staveley YWT NR gall 9.8.2020 DH-T

Ram's-horn Gall *Andricus aries* (Mayr, 1859). S

Elongate, upright galls overwinter on oaks; no sexual gall known.

High Batts NR 18.9.2019 TH,IF,JC

Curved-leaf Gall *Andricus curvator* (Hartig, 1840). C

Agamic galls develop within oak buds, spring galls distort leaf blades.

Masham-Jervaulx gall 5.1919 WF

Tanfield 5.1955 C.M.Robb [CMR]

Burnt Yates 21.8.1960 FEB

Birk Gill Wood 2.9.1984 WAE

Fountains Abbey, Broad Sweep 15.9.1984 WAE

Farnham gravel pits 13.6.1998 KGP

Ellington Banks 14.6.2008 TH

Artichoke Gall *Andricus foecundatrix* (Hartig, 1840). VC

Agamic galls overwinter in enlarged oak buds.

Ripon 25.6.1955 CMR

Burnt Yates 21.8.1960 FEB

Birk Gill Wood 4.6.1978 + 31.8.1980 + 27.6.1981 + 2.9.1984 + Brown Beck 2.6.1979 + 30.8.1980 + 6.6.1982 + Colsterdale 6.6.1982 WAE

Harlow Carr RHS Garden 17.9.1983 WAE
Druids Plantation 2.9.1984 WAE
Bilton Lane disused railway embankment 1.7.1989 WAE
Ripley Park 7.10.2004 + Hollybank Lane 4.10.2005 JAN

Andricus gemmeus (Giraud, 1859). R
High Batts NR 18.9.2019 TH.IF.JC

Andricus glandulae (Hartig, 1840). S
Overwintering galls turn oak buds into bell-shapes with silky hairs, oval spring galls on catkins.
Brown Beck Wood 6.6.1982 WAE

Marble Gall *Andricus kollari* (Hartig, 1840). VC
Hard globular galls overwinter on oak twigs, tiny elongate spring galls on Turkey Oak..
Hollybank Lane 4.10.2005 + Clint 7.5.2010 JAN
Ellington Banks 14.6.2008 TH
Arkendale 13.7.2011 WAE

Cola-Nut Gall *Andricus lignicolus* (Hartig, 1840). VC
Rough globular swellings overwinter on oak twigs, spring galls are small and thumb-shaped on Turkey Oak.
Harlow Carr RHS Garden 17.9.1983 WAE
Colsterdale 2.9.1984 WAE
Constitution Hill 15.9.1984 WAE
Bilton Lane disused railway embankment 1.7.1989 WAE
Ellington Banks 14.6.2008 TH
Whixley Lane End Plantation, Hunsingore (SE4153) 3.5.2011 WAE
High Batts NR 18.9.2019 TH.IF,JC

Andricus nudus Adler, 1881. R
Spindle-shaped galls without staks overwinter on oak twigs, elongate spring galls on catkins.
Masham-Jervaulx 5.1919 WF

Andricus quadrilineatus Hartig, 1840. S
Agamic galls are ridged ovoids on oak catkins and leafblade edges; no sexual gall known.
Masham-Jervaulx 5.1919 WF
Burnt Yates 21.8.1960 FEB
Birkham Wood (SE3554/SE3655) 3.10.1961 FEB

Knopper Gall *Andricus quercuscalicis* (Burgsdorf, 1783. VC
Smooth swellings overwinter on acorns, spring galls are tiny cones on Turkey Oak catkins.
High Batts NR 18.9.2019 TH.IF.JC
Staveley YWT NR 9.8.2020 DH-T
Nun Monkton (SE5057/SE5158) 21.8.2021 Nick Gaunt

Andricus quercuscorticis (Linnaeus, 1761). U
Overwintering galls are embedded in oak bark, spring galls enlarge axillary buds.
High Batts NR 18.9.2019 TH,IF,JC

Truffle Gall *Andricus quercusradicis* (Fabricius, 1798). U
Overwintering galls are irregular masses on oak roots, spindle-shaped sexual galls beneath bark or swelling petioles.
Barley Quarry 9.8.1958 FEB

Cottonwool Gall *Andricus quercusramuli* (Linnaeus, 1761). S
Agamic galls overwinter within oak buds, spring galls are covered in a mass of white hairs
Magdalen Wood (SE2377/SE2476) 30.5.1956 CMR

Andricus solitarius (Fonscolombe, 1832). S

Overwintering galls turn oak buds into smooth tapered swellings, spring galls are ridged ovals in buds.

Masham-Jervaulx 5.1919 WF

Barnacle Gall *Andricus testaceipes* Hartig, 1840. S

Tiny conical galls overwinter on oak stems, spindle-shaped sexual galls swell petioles.

South Stainley 3.8.1959 FEB

Burnt Yates 21.5.1960 FEB

Pea Gall *Cynips divisa* Hartig, 1840. VC

Overwintering galls underneath oak leaves, spring galls are slender and attached to leaves.

Masham-Jervaulx 5.1919 WF

Ripon 25.6.1955 CMR

Barley Quarry 1950s FEB

Colsterdale + Birks Gill Wood 2.6.1979 WAE

Constitution Hill 16.9.1984 WAE

Hollin Head Wood 2.9.1989 WAE

Spofforth 7.9.2008 WAE

High Batts NR 18.9.2019 TH,IF,JC

Striped Pea Gall *Cynips longiventris* Hartig, 1840. U

Swollen overwintering galls under oak leaves, smooth spring galls develop in buds.

Birkham Wood 3.10.1961 FEB

Cherry Gall *Cynips quercusfolii* Linnaeus, 1758. C

Agamic galls beneath oak leaves, smooth spring galls develop in buds.

Brown Beck 2.6.1979 WAE

Trigonaspis megaptera (Panzer, 1801). S

Kidney-shaped overwintering galls develop along the midrib underneath oak leaves, spring galls are waxy balls low down on oak trunks

Barley Quarry 9.8.1958 FEB

Burnt Yates 21.8.1960 FEB

Oak Apple *Biorhiza pallida* (Oliver, 1791). VC

Overwintering globular galls on oak roots, the wingless agamic females climb the trunks and produce spring galls which are large, soft, green swellings on twigs.

Birkham Wood 15.5.1961 FEB

Sole Beck Gill, Stone Fold (SE1979) 3.6.1978 WAE

Knaresborough Ringing Station (SE3656) 21.5.1983 WAE

Harlow Carr RHS Garden 17.9.1983 WAE + 8.5.2011 JAN

Fountains Abbey, Broad Sweep 15.9.1984 WAE

Bilton disused railway embankment 1.7.1989 WAE

Ripley Park 7.10.2004 + Clint 7.5.2010 + Holly Bank Lane 5.5.2011 JAN

Lower Dunsforth (SE4363) 3.7.2011 WAE

Family **CHARIPIDAE**

Subfamily **CHARIPINAE**

Parasitise jumping plantlice (Psyllidae).

Apocharips trapezoidea (Hartig, 1841). S

Harlow Carr RHS gardens 17.9.1983 WAE

Dilyta subclavata Foerster, 1869. S

Constitution Hill 15.9.1984 WAE

Suibamily **ALLOXYSTINAE**

Hyperparasites, attacking the larvae of Aphidiine wasps which are themselves internal parasites of aphids. There has been a recent revision of this group so some species have been split and older records have been reduced to aggregates.

Alloxysta brevis (Thomson, 1862) and others
Hollin Head Wood 2.9.1989 WAE

Alloxysta halterata (Thomson, 1862). R
Colsterdale 27.6.1981 WAE

Alloxysta macrophadna (Hartig, 1841) and others
How Stean Gorge (SE0973) 7.6.1986 WAE

Alloxysta obscurata (Hartig, 1840). R*
Colsterdale 31.8.1980 WAE

Alloxysta pallidicornis (Curtis, 1838). R
Ellington Firth (SE1884/SE1983) 2.7.1964 Ed Broadhead EB

Alloxysta semiaperta Fergusson, 1986 and others.
How Stean Gorge 7.6.1986 WAE
Piney Moor Wood & Hollin Head Wood 2.9.1989 WAE

Alloxysta victrix (Westwood, 1833). C
Constitution Hill 15.9.1984 WAE
Ellington Banks & Piney Moor Wood 2.9.1989 WAE

Alloxysta xanthopa (Thomson, 1862). R
Colsterdale 3.8.1980 WAE

Phaenoglyphis salicis (Cameron, 1883). F
Druid's Plantation 28.6.1981 WAE
Hell Wath 2.6.1990 WAE

Phaenoglyphis villosa (Hartig, 1841). F
Bilton Lane disused railway embankment 1.7.1989 WAE

Family **EUCOILIDAE**

These parasitise fly larvae

Kleidotoma striaticollis Cameron, 1880. R
Hell Wath 2.6.1990 WAE

Eucoila crassinerva Westwood 1833. S
Harlow Carr RHS Garden 17.9.1983 WAE

Glauraspida microptera (Hartig, 1840). U
Masham 14.10.1947 WDH
Hackfall 26.9.1948 WDH
Ellington Banks 2.9.1989 WAE

Trybliographa atra (Hartig, 1840). R
Brown Beck 5.6.1982 WAE

Trybliographa diaphana (Hartig, 1841). F

Bilton Lane disused railway embankment 1.7.1989 WAE

Trybliographa rapae (Westwood 1835). F
Colsterdale 31.8.1980 WAE
Piney Moor Wood 2.9.1989 WAE
Hutton Conyers (SE323733) 7.10.2013 CHF

Family **FIGITIDAE**

Subfamily **FIGITINAE**

These parasitise fly larvae.

Figites anthomyiarum Bouché, 1834. S
Ellington Firth 6.10.1964 EB

Lonchidia clavicornis Thomson, 1861. S
Harlow Carr RHS garden 17.9.1983 WAE

Melanips opacus (Hartig 1840). F
Grafton Lodge, Boroughbridge (SE4263) 13.7.2011 WAE
Whixley (SE439578) 2.5.2014 WAE
Upper Dunsforth Carrs YWT NR (SE4462/SE4463) 11.5.2015 Roy Crossley

Subfamily **ANACHARITINAE**

These parasitise the larvae of lacewings.

Aegilips nitidula (Dalman, 1823). F
Ellington Firth 7 + 21.9 + 4 + 16.10.1964 + 17.6.1965 EB

Anacharis eucharoides (Dalman, 1818). VC
Ellington Firth ex *Hemerobius atrifrons* 1964 EB
Colsterdale 31.8.1980 + 28.6.1981 WAE
Bilton Lane disused railway embankment 1.7.1989 WAE
Piney Moor Wood 2.9.1989 WAE
Hell Wath 2.6.1990 WAE
Harrogate showground (SE323541) 13.7.2011 WAE

Anacharis immunis Walker, 1835. F
Scotton Bank (SE3358/SE3458) 4.6.1949 John Wood
Ellington Firth 16.10.1964 EB
Colsterdale 27.6.1981 WAE
Piney Moor Wood & Hollin Head Wood 2.9.1989 WAE

Xyalaspis petiolata Kieffer, 1901. F
Hollin Head Wood 2.9.1989 WAE
Colsterdale 27.6.1981 WAE