

An Atlas of Nottinghamshire Ladybirds

Trevor and Dilys Pendleton



Introduction

Ladybirds include some of our most popular and easily recognised beetles.

Their often bright colouration also makes them favourites with both adults and children alike, so many common species quickly become familiar to people from a very early age. As a consequence, they are often well recorded and our knowledge of Ladybird distribution in Nottinghamshire, is extremely good compared to the majority of beetles.

This Atlas of Nottinghamshire Ladybirds produces up to date distribution maps of all the *Coccinellidae* (Ladybirds) recorded in the county over recent years. No Atlas can ever be complete, but this work is as comprehensive as is possible for us to do at the present time.

Nottinghamshire species and the introduced *Cryptolaemus montrouzieri*

Nottinghamshire currently has a total of 30 species, of which 22 of these are easily recognisable as being Ladybirds. This Atlas does not include *Cryptolaemus montrouzieri* (Mulsant, 1853) as this beetle does not occur naturally in Nottinghamshire.

C. montrouzieri is an introduced species, commonly used as a biological pest control of Mealybugs, by many commercial growers in large glasshouses. Adults occasionally escape through ventilation windows, where they may be found outdoors for a time, but cannot survive the UK Winter.

The *Coccidula*, *Rhyzobius*, *Scymnus* and *Nephus* species, are usually very small, rarely found unless specifically searched for and often difficult to identify without resorting to genitalia dissection.

They are also less well recorded in Nottinghamshire, than the more recognisable Ladybirds, most people will know.



The Nottinghamshire distribution maps

The following distribution maps are sourced from the records of the following list of individuals and organisations/survey results and are as accurate as can be (as of December 2014) with the records and data we have at our disposal. We have also refrained from using historical records listed in J.W. Carrs book 'The Invertebrate Fauna of Nottinghamshire' published in 1916.

Nottinghamshire Wildlife Trust, Keith Alexander (Invertebrate assemblage condition at Birklands & Bilhaugh SSSI/Birklands West & Ollerton Corner SSSI surveys 2009-10) Pauline Bradford, Netherfield Wildlife Group, M L Denton (2002 Sherwood Forest *Coleoptera* survey data) Martin Harvey, Wil Heeney, Bob Merritt, Natural England (Invertebrate Site Register - Sherwood Forest NNR *Coleoptera* records, 2006) Trevor and Dilys Pendleton, Richard Rogers and the Sherwood Forest Trust (2008 Oak Tree Heath *Coleoptera* survey data)



Coccidula rufa



Coccidula scutellata



Rhyzobius litura



Scymnus frontalis



Scymnus schmidti



Scymnus suturalis



Heather Ladybird



Kidney-spot Ladybird



Pine Ladybird



Water Ladybird



16-spot Ladybird



Striped Ladybird



18-spot Ladybird



14-spot Ladybird



Cream-Spot Ladybird



Orange Ladybird



22-spot Ladybird



Eyed Ladybird



Larch Ladybird



Adonis Ladybird



Hieroglyphic Ladybird



7-spot Ladybird



11-spot Ladybird



2-spot Ladybird



10-spot Ladybird



Harlequin Ladybird (*f. succinea*)



Harlequin Ladybird (*f. spectabilis*)



Harlequin Ladybird (*f. conspicua*)



Cream-streaked Ladybird



24-spot Ladybird

Nottinghamshire species

Coccidula rufa (Herbst, 1783)

Quite widespread across many parts of Nottinghamshire and presumably a much under recorded species. Usually found near water, on the leaves of Bulrush. Over-wintering known to take place within dead Bulrush stems.

Coccidula scutellata (Herbst, 1783)

Possibly an under recorded species, with just two known Nottinghamshire records from Moorbridge Pond in 2001 (Kirby, P.) and Eakring Flash in 2013 (Pendleton, T.A. and Pendleton, D.T.). Found in similar habitat to *Coccidula rufa* and over-wintering the same.

Rhyzobius litura (Fabricius, 1787)

Widespread and quite common across most of Nottinghamshire, but there are few records from sites east of the River Trent. A small species, best looked for by sweeping areas of lush vegetation.

Scymnus frontalis (Fabricius, 1787)

Just one Nottinghamshire record to date, of a specimen found along a field margin near Edwinstowe in 2014 (Pendleton, T.A. and Pendleton, D.T.).

The very small size of all the *Scymnus* Ladybirds, makes them difficult to find and identification to species level often requires dissection.

Scymnus haemorrhoidalis (Herbst, 1797)

The only Nottinghamshire records of this beetle, have both come from the east of the county, where it was found at Treswell Wood and at Farndon Willow Holt in 2003 (Kirby, P.). Both sites are Nottinghamshire Wildlife Trust's reserves.

Scymnus schmidti (Fürsch, 1958)

One of three difficult *Scymnus* species to identify There are again, just two Nottinghamshire records, from sites lying on Sherwood Sandstone. It was found at Sherwood Forest CP in 2009 (Alexander, K.N.A.) and at Rainworth Heath in 2014. (Pendleton, T.A. and Pendleton, D.T.)

Scymnus suturalis (Thunberg, 1795)

Uncommon, with few Nottinghamshire records. Most are from the Sherwood Forest area, where it can be found on Pine growing on heathland. There are records from Budby South Forest, Lound Wood and Warsop Main Pit Top.

Nephus redtenbacheri (Mulsant, 1846)

Currently uncommon or possibly even rare in the county, with just three records from Grove near Retford (Merritt, R.) in 1999, Treswell Wood (Kirby, P.) in 2003 and Attenborough NR (Richards, D.) in 2011.

Chilocorus bipustulatus **Heather Ladybird** (Linnaeus, 1758)

The Heather Ladybird has a very restricted distribution in Nottinghamshire and is a true heathland species.

In Nottinghamshire, it seems confined to Budby South Forest, with a single record from a small area of heathland at the nearby Sherwood Forest CP (Pendleton, T.A. and Pendleton, D.T.).

Chilocorus renipustulatus **Kidney-spot Ladybird** (Scriba, 1791)

Widespread and common, although rarely found in any numbers at any site. An arboreal species found in many north Nottinghamshire woodlands, the Kidney-spot Ladybird is best looked for on the trunks of smooth-barked trees such as Ash.

Also well recorded from around Attenborough NR, so probably widespread in many parts of the county.

Exochomus quadripustulatus **Pine Ladybird** (Linnaeus, 1758)

Very common and despite being called the Pine Ladybird, this species is just as likely to be found on roadside Limes in the suburbs of Nottingham, as it is in areas of commercial forestry.

It does occur in numbers on small Pines growing on many former Colliery sites, often over-wintering at the end of the previous year's growth.

Anisosticta novemdecimpunctata **Water Ladybird** (Linnaeus, 1758)

The Water Ladybird is widespread in Nottinghamshire. It favours waterside vegetation, particularly Bulrush and passes the Winter inside dead stems, or tucked into the leaves.

This Ladybird is well known for losing its light orange colouration in the Autumn before over-wintering, when it becomes straw coloured

Tytthaspis sedecimguttata **16-spot Ladybird** (Linnaeus, 1758)

Widespread in grassy areas with an abundance of flowers, in the western-half of Nottinghamshire.

The 16-spot Ladybird's small size and pale colouration, often leads to it being overlooked. It will frequently turn up in the sweep-net and usually over-winters in grass tussocks and leaf litter

Myzia oblongoguttata **Striped Ladybird** (Linnaeus, 1758)

An arboreal species which is rare and often difficult to find. The distinctively-marked Striped Ladybird prefers areas of Pine and the only records are from Clipstone Forest/Sherwood Pines, Budby South Forest and Clipstone Old Quarter (Pendleton, T.A. and Pendleton, D.T.).

It over-winters, probably under the flaked bark of Pines, but sometimes at the end of the previous years growth.

Myrrha octodecimguttata **18-spot Ladybird** (Linnaeus, 1758)

Currently rare with just three records, but probably more widespread than the distribution map suggests. The 18-spot Ladybird is found on or near Pines, but is not confined to the large areas of commercial forestry present in the Sherwood Forest area. There are records for Budby South Forest, near Haywood Oaks and Mansfield, where it turned up in numbers on an isolated Pine in an open area on the Oak Tree Lane estate.

Propylea quattuordecimpunctata **14-spot Ladybird** (Linnaeus, 1758)

The 14-spot Ladybird is one of our commonest species and found in a range of well vegetated habitats. It is widespread across Nottinghamshire, although there appear to be fewer records from sites lying east of the River Trent.

Calvia quattuordecimguttata **Cream-Spot Ladybird** (Linnaeus, 1758)

Widespread and common over much of Nottinghamshire. The Cream-spot Ladybird is most often found in woodlands and other well vegetated sites, but will occur in suburban gardens. There are very few records from the far north of the county.

Halyzia sedecimguttata **Orange Ladybird** (Linnaeus, 1758)

More widespread in the north of Nottinghamshire, but the Orange Ladybird is common in many areas of suburban Nottingham.

Another arboreal species, often favouring Beech and Sycamore, there may be some evidence to show it has declined in recent years.

Psyllobora vigintiduopunctata **22-spot Ladybird** (Linnaeus, 1758)

The bright yellow elytral colouration of the 22-spot Ladybird is diagnostic, but it can be easily missed through its small size.

Found in a range of habitats, from woods and hedgerows, to brownfield sites, where it is found on low vegetation covered in Mildew. Probably very much under recorded in Nottinghamshire

Anatis ocellata **Eyed Ladybird** (Linnaeus, 1758)

Most Nottinghamshire records of the Eyed Ladybird, come from the Sherwood Forest area and it becomes more uncommon away from Pine forested areas of the county.

It does sometimes turn up in more unusual locations, including on a window in Mapperley in 2014 (Pendleton, T.A. and Pendleton, D.T.) which seems to be the most southerly Nottinghamshire record.

Aphidecta obliterated **Larch Ladybird** (Linnaeus, 1758)

The Larch Ladybird is one of our rarest Ladybirds, although there may be an element of under recording. The only Nottinghamshire records, have both come from Sherwood Forest, where it was recorded from Proteus Square in 2000 (Drane, T) and Budby South Forest in 2010 (Pendleton, T.A. and Pendleton, D.T.) when two were beaten from the lower branches of Larch.

Hippodamia variegata **Adonis Ladybird** (Goeze, 1777)

In Nottinghamshire, the Adonis Ladybird shows a preference for sites lying on sandy soils and it can be quite numerous in the Mansfield area.

There are several records from the south-west of the county and it seems to have increased its range since 2000. It should be expected to occur on former Colliery spoil heaps and other sparsely vegetated brownfield sites.

Coccinella hieroglyphica **Hieroglyphic Ladybird** (Linnaeus, 1758)

This is a rare Nottinghamshire Ladybird and currently restricted to a handful of wet heath sites in the Sherwood Forest area. In the 1980's, there were records of the Hieroglyphic Ladybird from Clumber Park in 1981, Clipstone Heath in 1987 and Budby South Forest in 1989 (NBN Gateway). However, more recent records have come from the Nottinghamshire Wildlife Trust's reserve at Rainworth Heath in 2007, 2011 (Williams, H) and 2014 (Pendleton, T.A. and Pendleton, D.T.).

Coccinella septempunctata **7-spot Ladybird** (Linnaeus, 1758)

The 7-spot Ladybird is the most widespread and commonest of all the Nottinghamshire Ladybirds. It is found in any habitat type and its distribution probably only mirrors that of where regular recorders of *Coleoptera* live.

Coccinella undecimpunctata **11-spot Ladybird** (Linnaeus, 1758)

All Nottinghamshire records of the 11-spot Ladybird have come within the last few years. This seems to be a rare species in the county, with records from Attenborough NR (Rogers, R.) Warsop Main Pit Top and the Idle Valley NR near Retford (Pendleton, T.A. and Pendleton, D.T.).

Adalia bipunctata **2-spot Ladybird** (Linnaeus, 1758)

Widespread and generally still quite common, although 2-spot Ladybird numbers can vary and it can seemingly 'go missing' in poor years. Groups have been recorded passing the Winter under loose bark along the edge of woodland, together with *Harmonia axyridis* (Pendleton, T.A. and Pendleton, D.T.) and the two species can often be found occupying the same trees in urban areas during the Summer.

Adalia decempunctata **10-spot Ladybird** (Linnaeus, 1758)

A common and often indiscreet species, the 10-spot Ladybird has a wide distribution across much of the county and is to be found in a range of habitats. It is regularly found in gardens around both Nottingham and Mansfield, but its generally small size makes it quite difficult to find at well vegetated sites.

An extremely variable Ladybird, showing a huge range of variations in both number of spots and ground colouration of the elytra.

Harmonia axyridis **Harlequin Ladybird** (Pallas, 1773)

A very common and widespread species in Nottinghamshire, with huge numbers often seen in urban areas. It occurs in most types of habitat, showing a preference for Lime and Sycamore.

Originally a Ladybird of Asian origin, the Harlequin Ladybird first appeared in the UK in 2004. Nottinghamshire's first record was from Penny Pasture Common near Eakring in 2006 (Pendleton, T.A. and Pendleton, D.T.) although it had certainly reached Nottinghamshire by 2005.

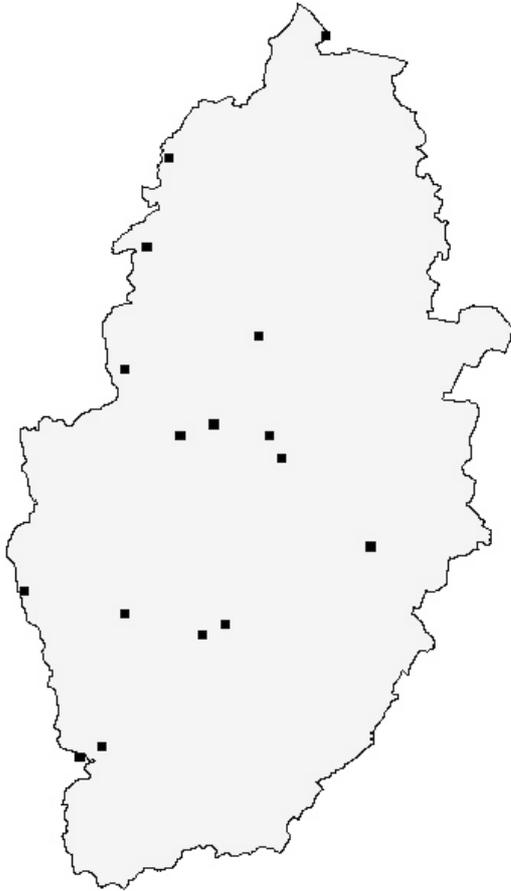
Harmonia quadripunctata **Cream-streaked Ladybird** (Pontoppidan, 1763)

In Nottinghamshire, the Cream-streaked Ladybird is largely confined to the Sherwood Forest area and is unusual away from there. Usually found on or near Pines, it can be common in areas of commercial forestry.

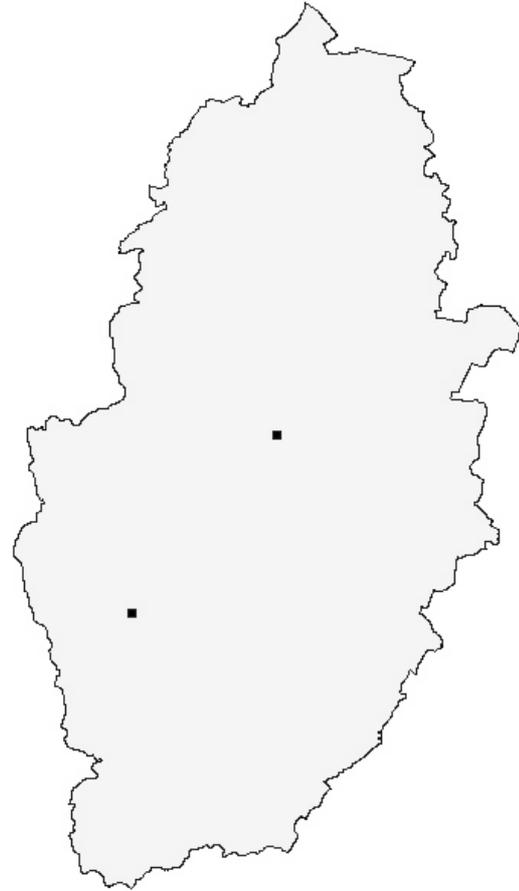
Subcoccinella vigintiquattuor punctata **24-spot Ladybird** (Linnaeus, 1758)

A scarce species in Nottinghamshire, with all records previously coming from the south of the county, at both Attenborough NR and Netherfield Ash Lagoons. In 2014, it was found at Besthorpe near Newark, but remains confined to the Trent Valley.

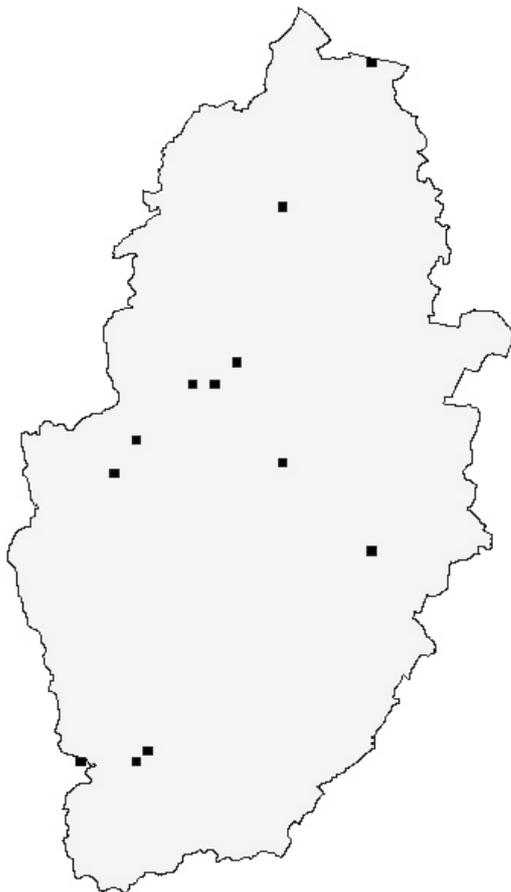
Coccidula rufa



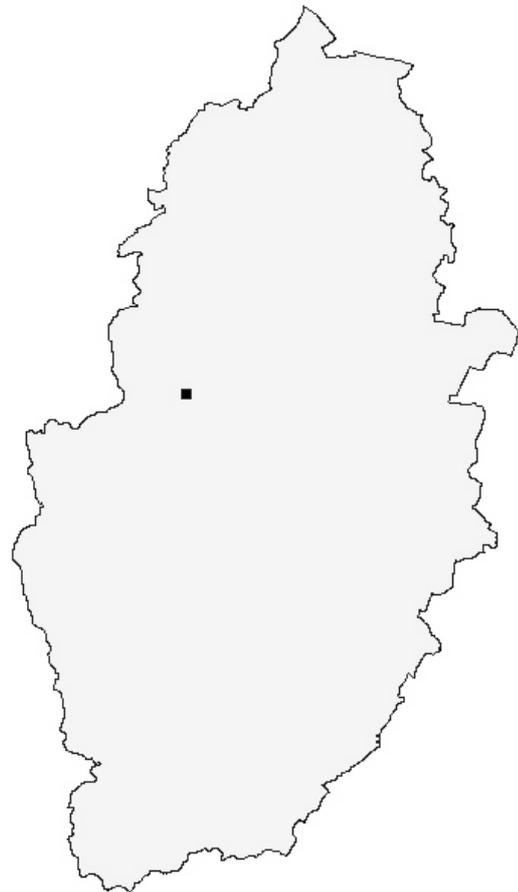
Coccidula scutellata



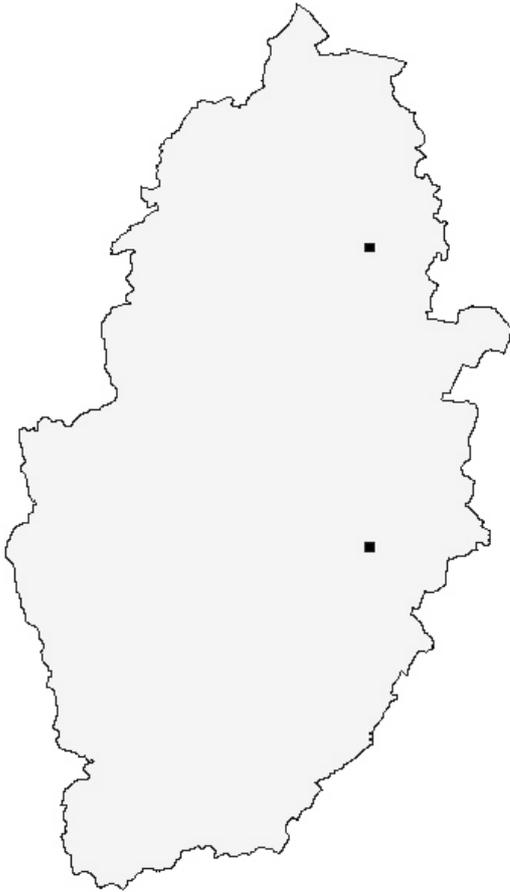
Rhyzobius litura



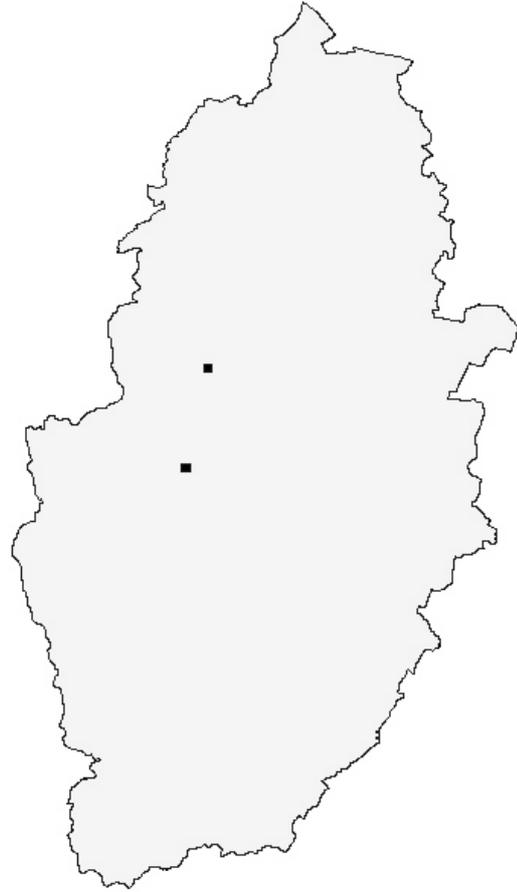
Scymnus frontalis



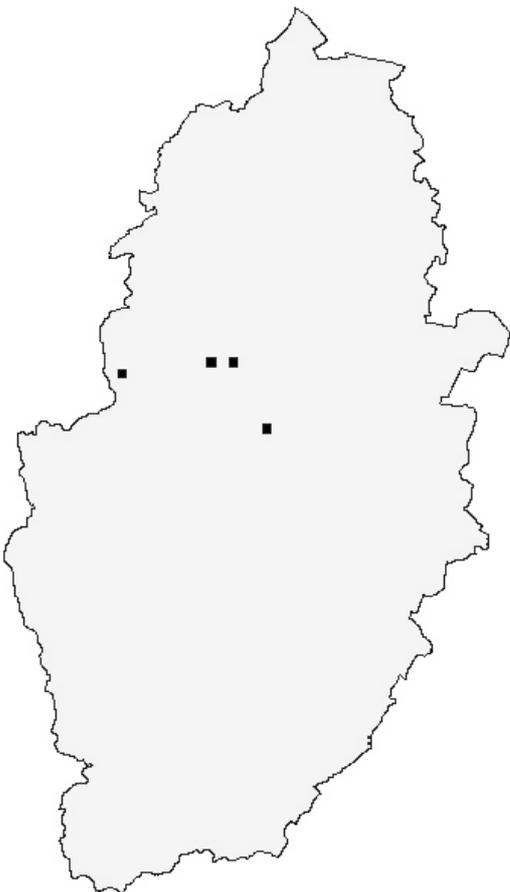
Scymnus haemorrhoidalis



Scymnus schmidti



Scymnus suturalis



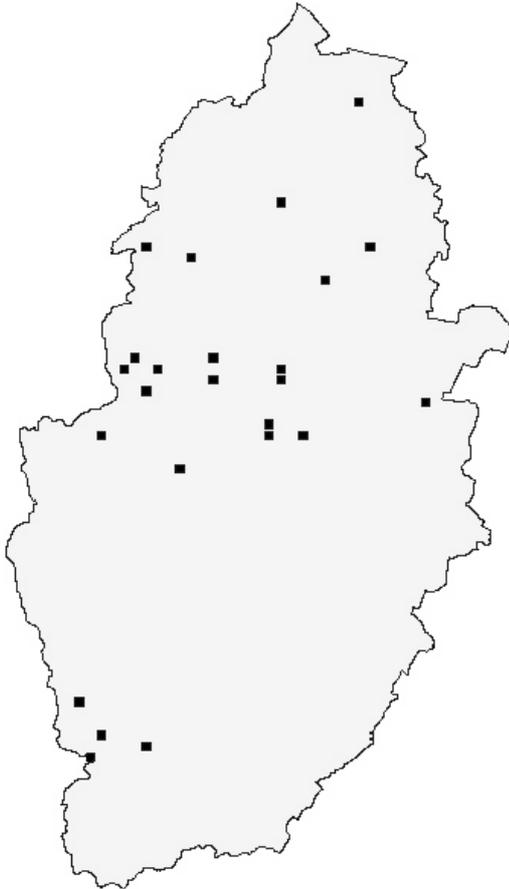
Nephus redenbacher



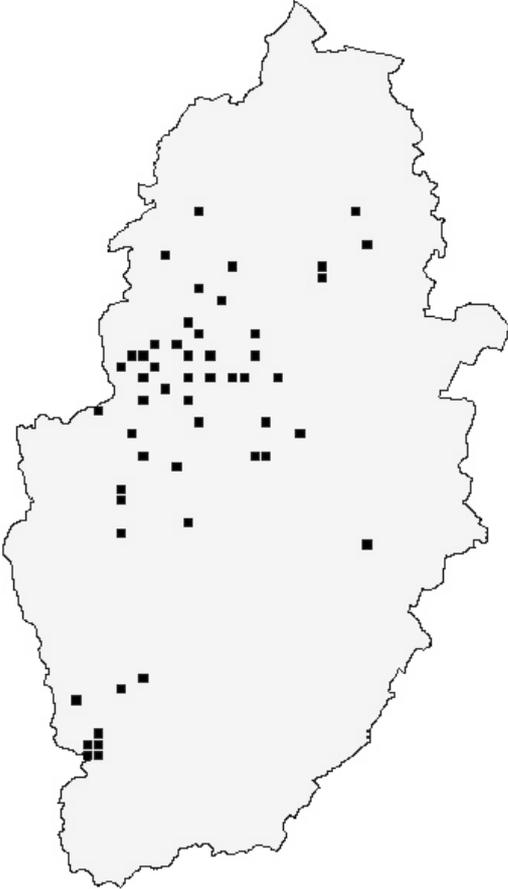
Chilocorus bipustulatus



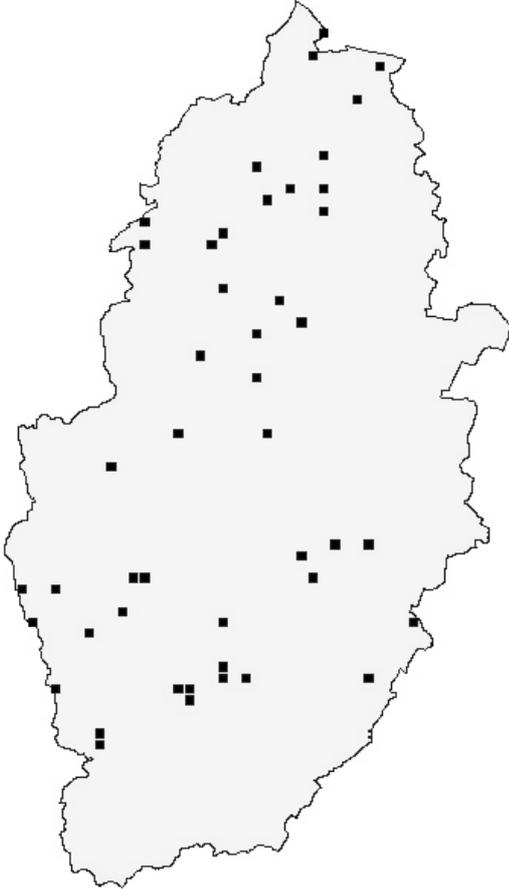
Chilocorus renipustulatus



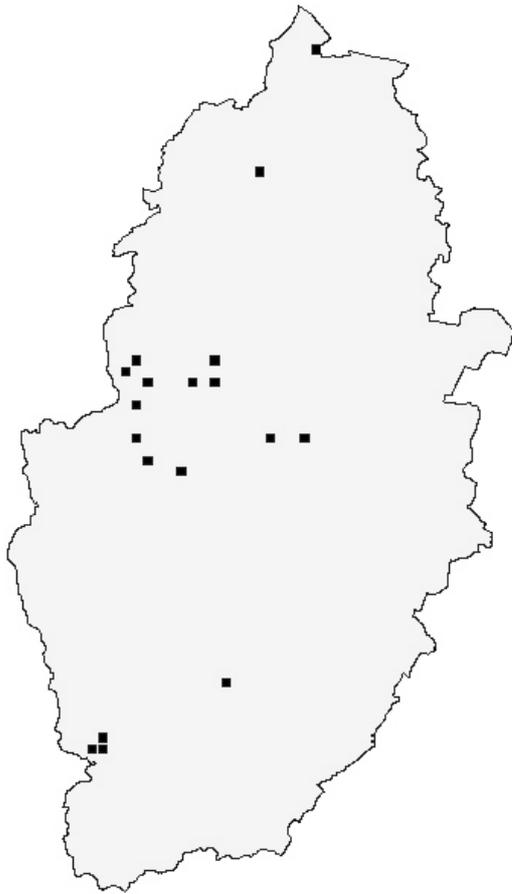
Exochomus quadripustulatus



Anisosticta novemdecimpunctata



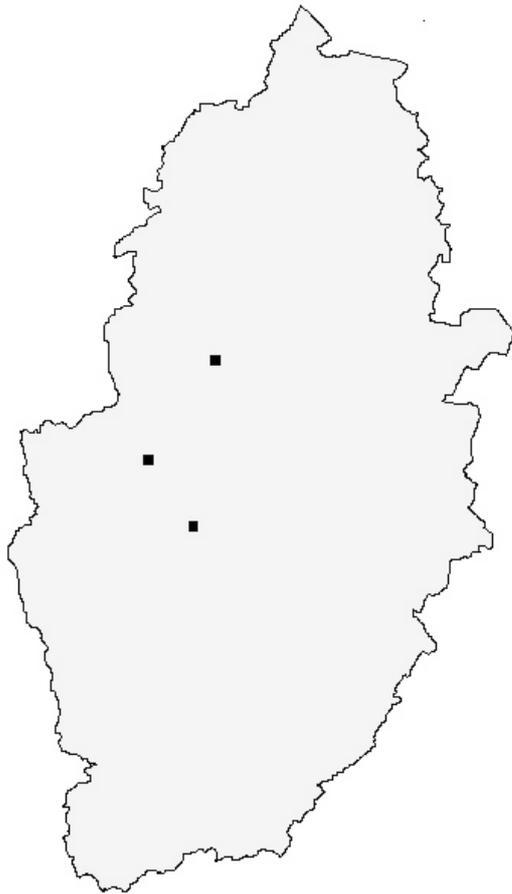
Tytthaspis sedecimguttata



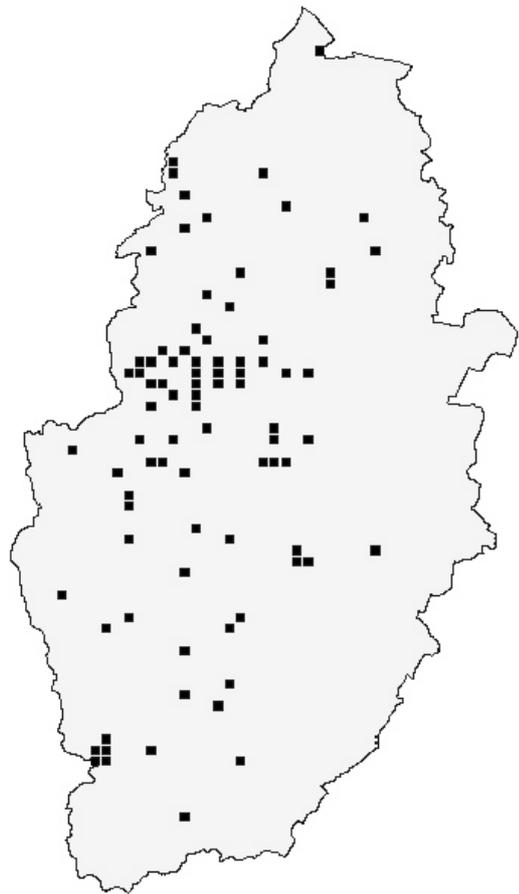
Myzia oblongoguttata



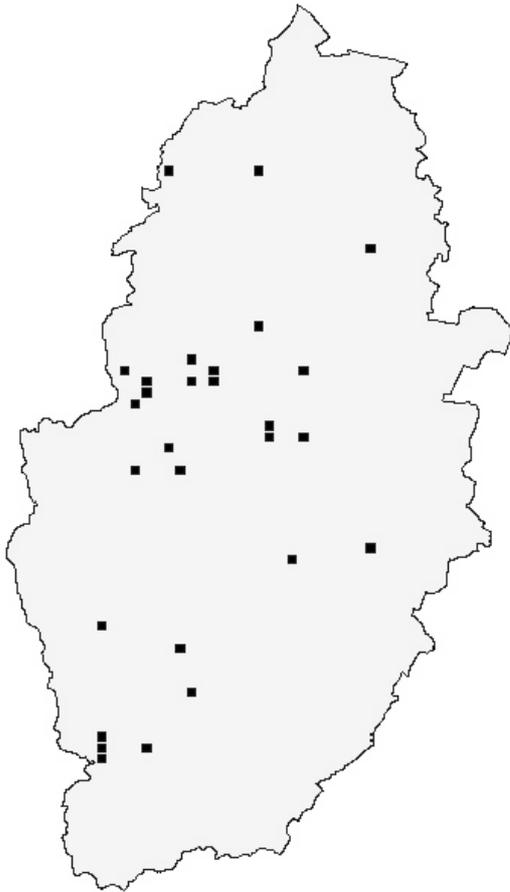
Myrrha octodecimguttata



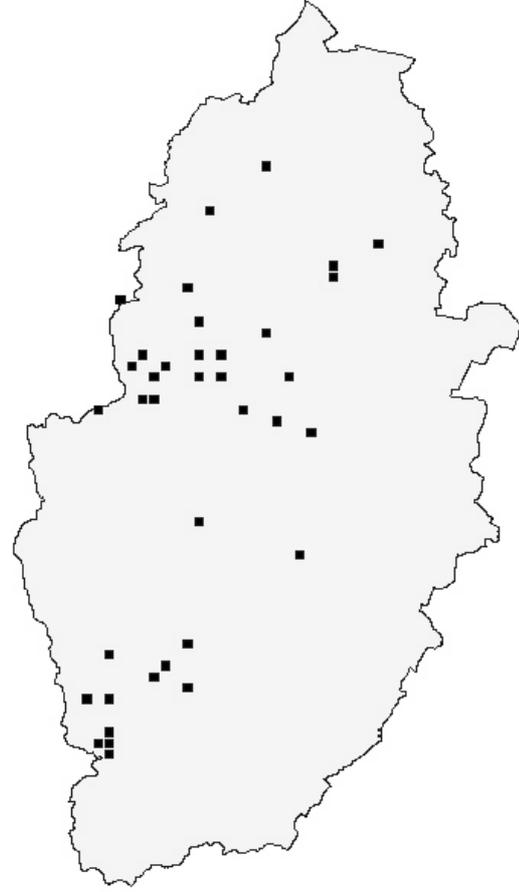
Propylea quattuordecimpunctata



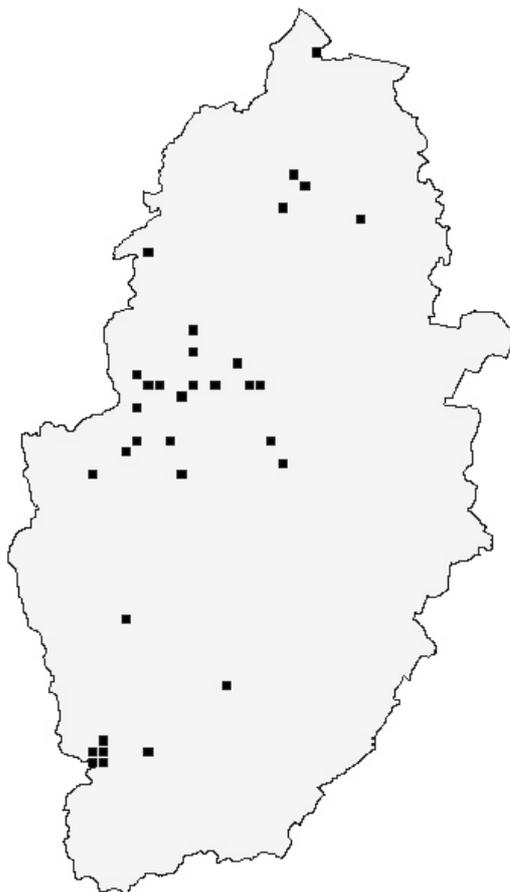
Calvia quattuordecimguttata



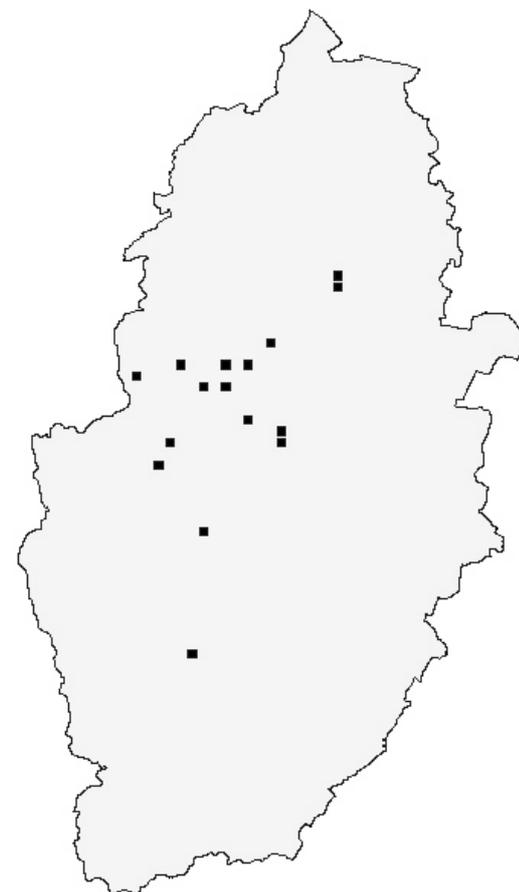
Halyzia sedecimguttata



Psyllobora vigintiduopunctata



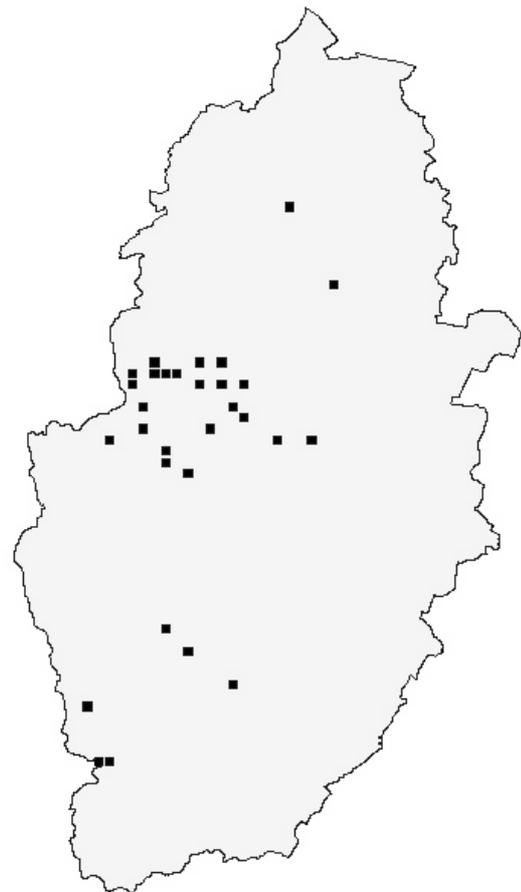
Anatis ocellata



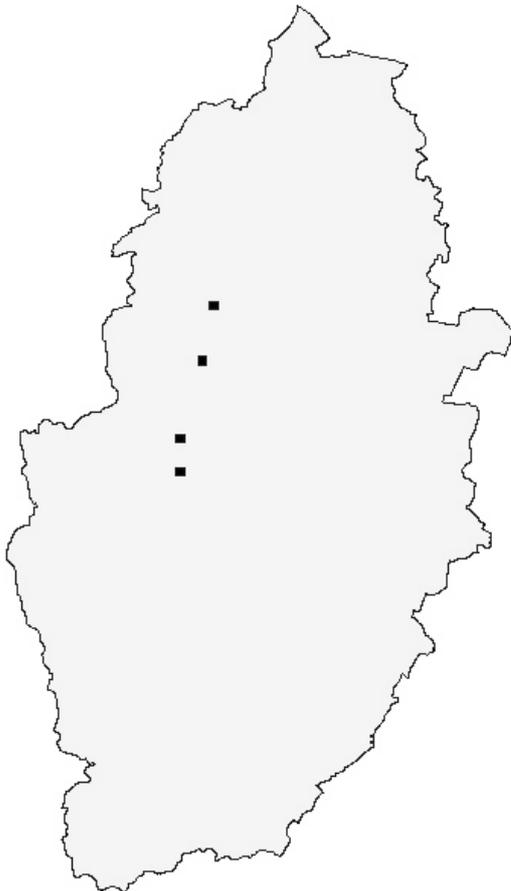
Aphidecta obliterata



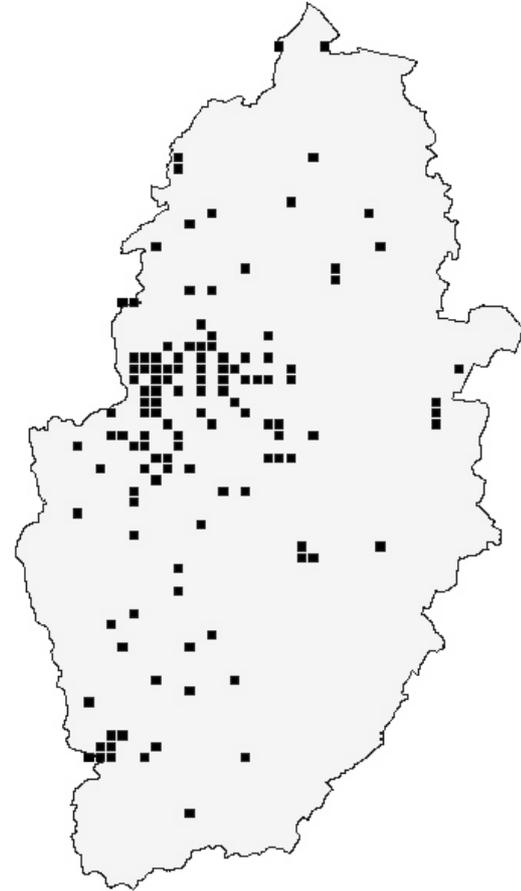
Hippodamia variegata



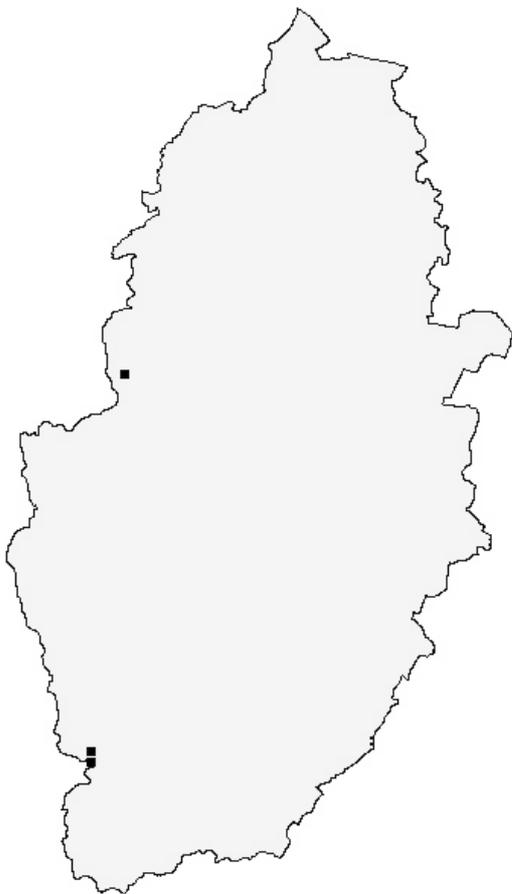
Coccinella hieroglyphica



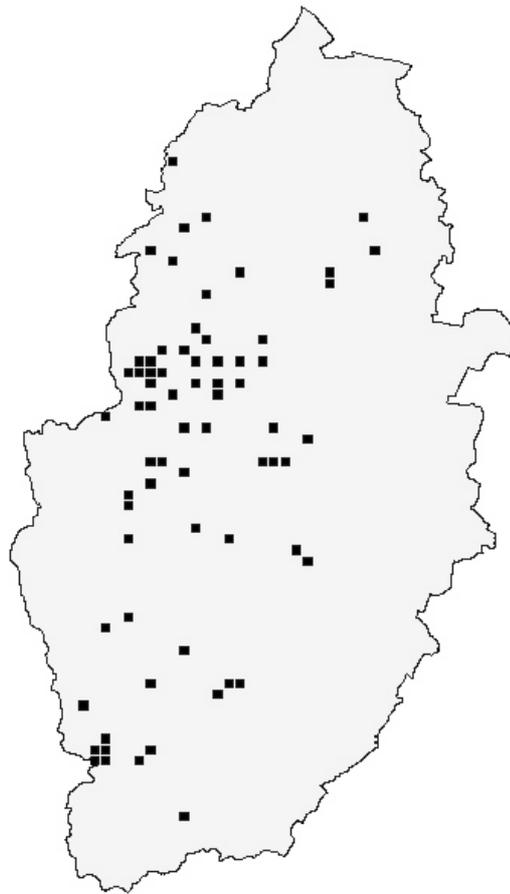
Coccinella septempunctata



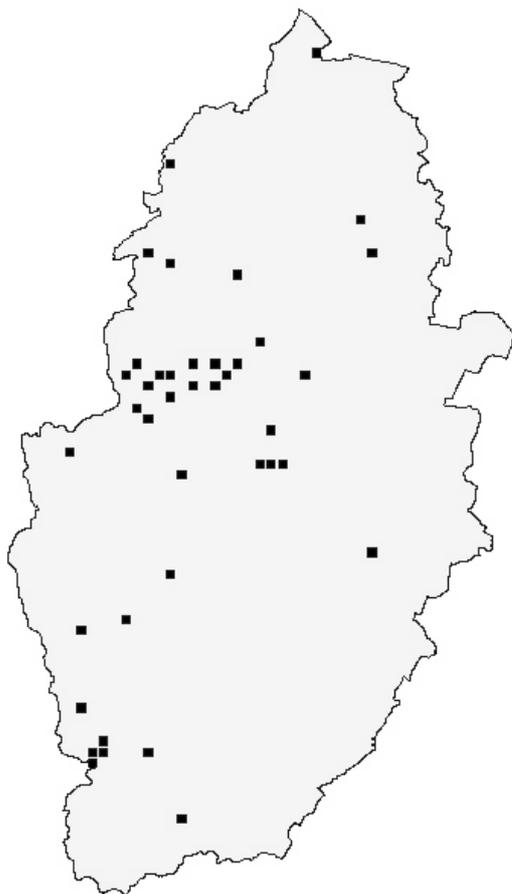
Coccinella undecimpunctata



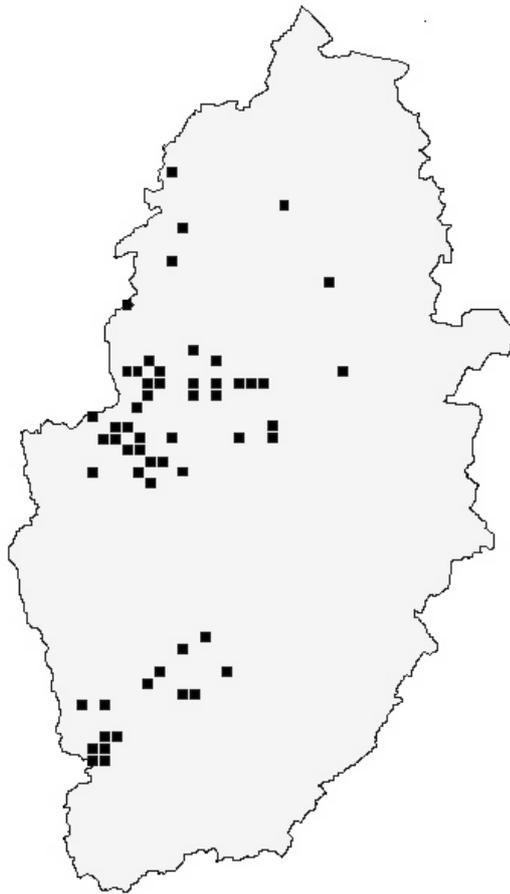
Adalia bipunctata



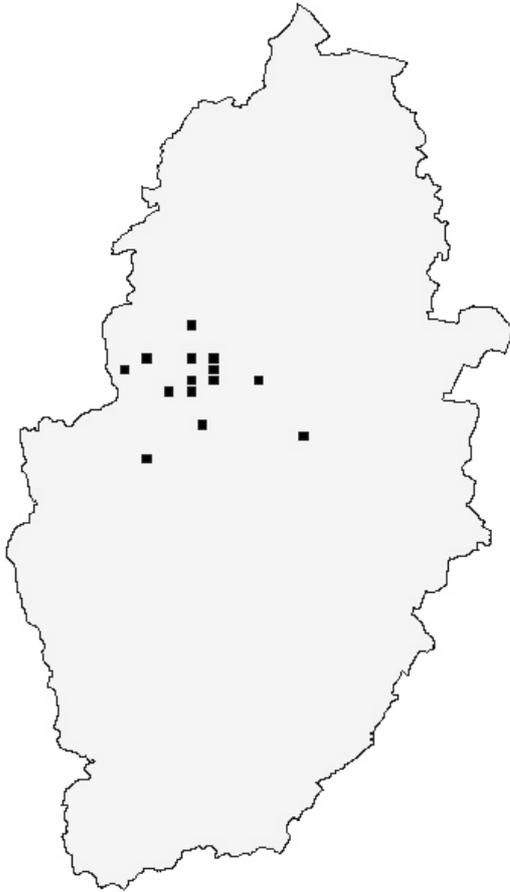
Adalia decempunctata



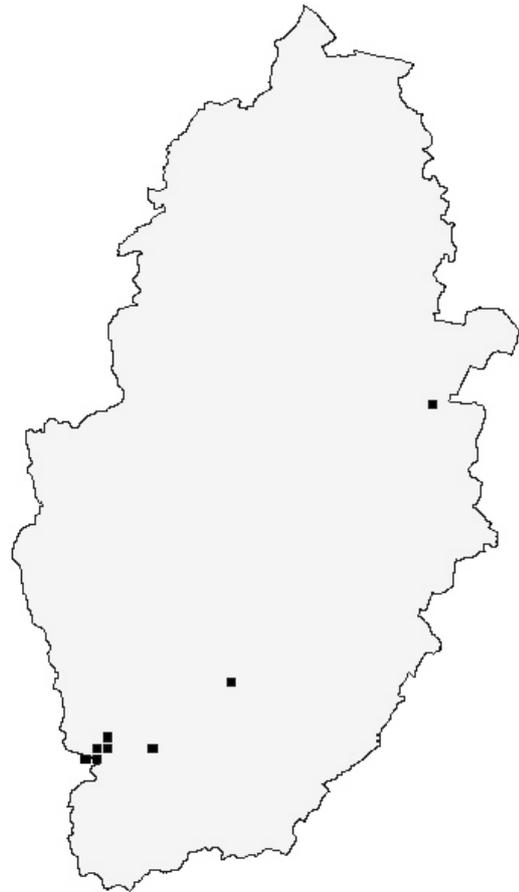
Harmonia axyridis



Harmonia quadripunctata



Subcoccinella vigintiquattuorpunctata



A checklist of Nottinghamshire Ladybirds 2014

COCCIDULINAE Kugelann in Illiger, 1798

Coccidula rufa (Herbst, 1783)

Coccidula scutellata (Herbst, 1783)

RHYZOBIOUS Stephens, 1829

Rhyzobius litura (Linnaeus, 1787)

SCYMNUS Kugelann, 1794

Scymnus frontalis (Linnaeus, 1787)

Scymnus haemorrhoidalis (Herbst, 1797)

Scymnus schmidtii (Fürsch, 1958)

Scymnus suturalis (Thunberg, 1795)

NEPHUS Mulsant, 1846

Nephus redtenbacheri (Mulsant, 1846)

CHILOCORUS Leach, 1815

Chilocorus bipustulatus **Heather Ladybird** (Linnaeus, 1758)

Chilocorus renipustulatus **Kidney-spot Ladybird** (Scriba, 1791)

EXOCHOMUS Redtenbacher, 1843

Exochomus quadripustulatus **Pine Ladybird** (Linnaeus, 1758)

ANISOSTICTA Dejean, 1836

Anisosticta novemdecimpunctata **Water Ladybird** (Linnaeus, 1758)

TYTTHASPIS Crotch, 1874

Tytthaspis sedecimguttata **16-spot Ladybird** (Linnaeus, 1758)

MYZIA Mulsant, 1846

Myzia oblongoguttata **Striped Ladybird** (Linnaeus, 1758)

MYRRHA Mulsant, 1846

Myrrha octodecimguttata **18-spot Ladybird** (Linnaeus, 1758)

PROPYLEA Mulsant, 1846

Propylea quattuordecimpunctata **14-spot Ladybird** (Linnaeus, 1758)

CALVIA Mulsant, 1846

Calvia quattuordecimguttata **Cream-Spot Ladybird** (Linnaeus, 1758)

HALYZIA Mulsant, 1846

Halyzia sedecimguttata **Orange Ladybird** (Linnaeus, 1758)

PSYLLOBORA Dejean, 1836

Psyllobora vigintiduopunctata **22-spot Ladybird** (Linnaeus, 1758)

ANATIS Mulsant, 1846

Anatis ocellata **Eyed Ladybird** (Linnaeus, 1758)

APHIDECTA Weise, 1899

Aphidecta oblitterata **Larch Ladybird** (Linnaeus, 1758)

HIPPODAMIA Dejean, 1836

Hippodamia variegata **Adonis Ladybird** (Goeze, 1777)

COCCINELLA Linnaeus, 1758

Coccinella hieroglyphica **Hieroglyphic Ladybird** (Linnaeus, 1758)

Coccinella septempunctata **7-spot Ladybird** (Linnaeus, 1758)

Coccinella undecimpunctata **11-spot Ladybird** (Linnaeus, 1758)

ADALIA Mulsant, 1846

Adalia bipunctata **2-spot Ladybird** (Linnaeus, 1758)

Adalia decempunctata **10-spot Ladybird** (Linnaeus, 1758)

HARMONIA Mulsant, 1846

Harmonia axyridis **Harlequin Ladybird** (Pallas, 1773)

Harmonia quadripunctata **Cream-streaked Ladybird** (Pontoppidan, 1763)

SUBCOCCINELLA Guérin-Méneville, 1844

Subcoccinella vigintiquatuorpunctata **24-spot Ladybird** (Linnaeus, 1758)

References:

A.G. Duff. Checklist of Beetles of the British Isles, 2008 edition