

# Biodiversity & Climate Change Evidence Paper [EBCC]

## Part 1: Introduction

1. This evidence paper, for the Stoke Mandeville Neighbourhood Plan, looks at biodiversity within the Parish and future issues, which need to be taken into account in the Plan. Particular attention will be drawn to 'The Natural Environment and Rural Communities Act 2006' (Section 40), which places a duty on all Public Authorities in England and Wales, to have regard in the exercise of their functions, to the purpose of conserving biodiversity. Conserving includes restoring and enhancing species and habitats, as well as protecting them. In addition, the more recent Climate Crisis, noted by the RTPI (Royal Town Planning Institute), introduces the concept of Climate Justice, whereby Local Authorities have responsibility for decisions that are vital to our collective future, referred to in the Neighbourhood Planning Act 2017 section 20. This empowers local authorities to act on climate change by placing it at the heart of the planning process. A second edition of this was published May 2018.
2. Stoke Mandeville was a nuclear rural community in the 19<sup>th</sup> century, with many surrounding farms, but a relatively small local population. The Parish's housing and population grew in the 20<sup>th</sup> and 21<sup>st</sup> centuries, with little appreciation of biodiversity. The population increased from around 500 in 1841 to around 6,000 in 2001.

Farming itself has historically helped biodiversity with open and arable land, providing a natural sanctuary and habitat for many species of animals and plants; hedgerows and watercourses also helped in this provision, as well as providing natural 'pathways'. This decreased as farming intensified.

Biodiversity has diminished greatly in recent years, with the huge increase in housing within the Parish. Now only one 'working' farm remains. The three northern areas of Hawkslade, Stoke Leys and Stoke Grange, are very much urban, whilst only the southern Stoke Mandeville Village area remains, to a degree, rural.

Recent surveys by Bucks County Council (now Buckinghamshire Council) (BBONT and RSPB), show a fairly wide range of both fauna and flora within the Parish (See list in Annex 1). This has diminished, however, in recent years, due to the ever-increasing numbers of houses being built in the Parish.

The greatest density of both population (% of) and housing (% of) is currently within the three northern areas. There is little scope here to extend biodiversity, but every effort should be made to maintain and enhance that which exists.

## Part 2: Parish History and Development

3. For the early history of Stoke Mandeville Parish, please see the 'History of Stoke Mandeville' Evidence Paper.

Stoke Mandeville Parish is primarily a post-WW2 suburban area, which has absorbed a small Victorian nucleated neighbourhood<sup>1</sup> from which it takes its name. The Parish consists of 4 distinct neighbourhoods, to which strategic development will soon add a fifth and sixth. The Parish has seen continuous and recently massive growth in housing numbers, but no recent proportionate development of community or leisure facilities and the Parish and its neighbourhoods lack cohesion or a strong sense of identity. The remaining open agricultural land within the Parish is rapidly being taken for development, radically altering the nature of the Parish. For more information about the neighbourhood development within the parish, please see the Neighbourhood Development Evidence Paper.

Notwithstanding the clear evidence to the contrary, for planning purposes Aylesbury Vale District Council (now Buckinghamshire Council) persistently and erroneously identified 'Stoke Mandeville' as being merely the 'village' or southern neighbourhood around the old Victorian centre. AVDC's Settlement Hierarchy Assessment Report 2017, using community facilities as a grading mechanism for sustainability assessment, assessed 'Stoke Mandeville' as a "larger village" on the basis of the facilities available to the 30% of the Parish's population located in the village neighbourhood. No account was taken of the facilities available to the Parish as a whole and all of its residents across all 4 neighbourhoods. Annex 1 shows a summary of the hierarchy assessment with the addition of the equivalent facilities in the other Parish neighbourhoods.

This wrong designation of one neighbourhood of the parish as the whole Parish grossly distorts the outcome of the 2017 review. Viewed purely as one "larger village" the review wrongly concludes that Stoke Mandeville is better off in terms of community facilities than most villages<sup>2</sup>. However, viewed as a parish, it is obvious that there is in fact a very significant under-provision of community facilities. The Neighbourhood Plan needs to address and correct this historical under-provision created by this egregious mistake.

### Part 3: Leisure/Green Space

4. The Parish presently consists of the following leisure facilities:

- Eskdale Road – Community Centre, playing field with a football pitch, tennis courts, basketball hoop, skateboard park, play area, recycling facilities.
- Orwell Drive - Hawkslade Community Centre – with recycling facility (in Parish but part of Aylesbury built up area)
- Bucks CC Social Club Lower Road – bar and function hall, tennis courts, football and cricket pitches (in Parish but adjoins Aylesbury built up area). Presently closed by Buckinghamshire Council but is an asset of community trust and requires to be reopened.
- Two places of worship are within Stoke Mandeville: St Mary's Church Station Road and Methodist Chapel Eskdale Road.
- There is no library at Stoke Mandeville, although a mobile library visits the Parish and specific areas weekly.

5. Green space locations are:

---

<sup>1</sup> A neighbourhood clustered around a central point, such as a village green or church

<sup>2</sup> AVDC Settlement Hierarchy Assessment Report 2017 .para 5.14, page 17 of 42

[https://www.aylesburyvalcdc.gov.uk/sites/default/files/page\\_downloads/Settlement%20Hierarchy%20Assessment%20Report%20September%202017.pdf](https://www.aylesburyvalcdc.gov.uk/sites/default/files/page_downloads/Settlement%20Hierarchy%20Assessment%20Report%20September%202017.pdf)

- QE2 Playing Fields – Eskdale Road
- Village Green – Lower Road
- Allotments – Lower Road
- Land Adjoining Church – Lower Road
- Road Margins – Risborough Road
- BCC SSC Playing Field – Stoke Leys
- Hawkslade Grassland
- Dalesford Road Grassland – Stoke Grange
- Charles Close Grassland - Stoke Grange

See Annex 2 – Proposed Designated Local Green Spaces (Maps All Areas)

**Point 1:** The Parish needs to retain its own identity and boundaries with any further developments being clearly defined with appropriate green boundaries, encouraging biodiversity net-gain, well-being and Parish character.

**Point 2:** With a growing community the present Parish facility needs to be kept for community use and consideration given to the provision of additional facilities (specifically within the determined new Parish centre advised in the main plan).

The following were designated through Accessible Natural England Standard (ANGSt) by Natural England which is considered a national benchmark and forms part of Government guidance on green space provision. The standard emphasizes the importance of accessible green space to local communities.

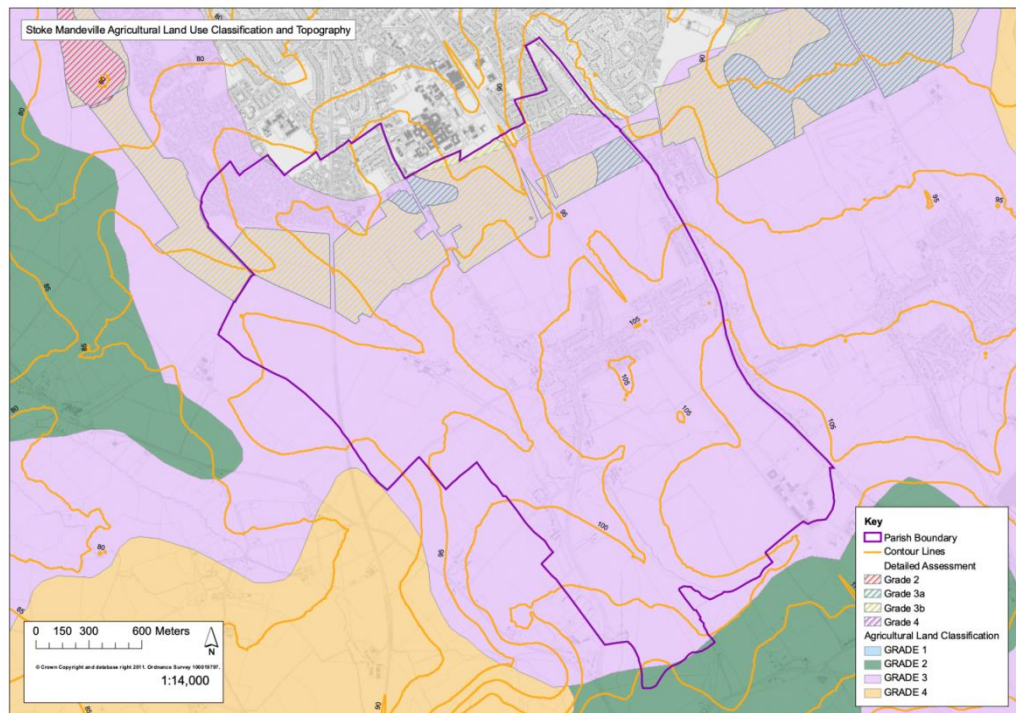
#### ANGSt Standard

- 2ha-20ha green spaces located within 300m of dwellings - Yes. East of railway and south of The Woolpack
- 20ha-100ha green spaces located within 2km of dwellings – Yes
- 100ha-500ha green spaces located within 5km of dwellings – None
- 500ha+ green spaces located within 10km of dwellings - Yes. A new site is required for this standard to be met within the district.

## Part 4: Agricultural Land/Topography

- The Agricultural Land Classification (ALC) provides a method for assessing the quality of farmland to enable informed choices to be made about its future use within the planning system. It helps underpin the principles of sustainable development. DEFRA produced guidance on the ALC in the planning system in 1998 and the most up to date data, was produced by Natural England in 2002.

The land within Stoke Mandeville and its immediate surroundings comprises of grade 3 agricultural land. Detailed work will be needed to distinguish between grades 3a and 3b for site-based assessment. 2011 map below.



Contours show land at heights at 5 metre vertical intervals. Stoke Mandeville sits 100 metres above sea level with small mounds rising to 105m above sea level. The village is not within a prominent hilltop position.

## Part 5: Environmental

- Stoke Mandeville is relatively unconstrained by environmental constraints. Along the eastern border lies a small area of floodplain, which is detached from the built development. These are areas subject to flooding and identified as flood zones 2 and 3 by the Environment Agency. In 2014 the Parish saw major flooding along Lower Road and subsequent developments must take note of the water table within the Parish. Recommendations from Buckinghamshire Councils report, although blaming blocked drainage, noted “Bucks CC to ensure that owners of culverts, watercourses and drainage infrastructure are aware of their responsibilities”. Presently there is no flood risk within the built-up area of Stoke Mandeville, although there are small pockets of areas subject to surface water flooding.

**Point 4:** All future developments must take into account the changing water table of the Parish and adhere to the Climate Justice principles to protect both the climate and biodiversity.

## Air quality and pollution

### a. Air quality

The following assessments are extracted from Aylesbury Vale District Council's website covering Air Quality Management Areas (AQMA) at <https://www.aylesburyvaledc.gov.uk/air-quality-management-areas>

"The air quality in the Vale is generally good. However, there is one pollutant of potential concern – nitrogen dioxide (NO<sub>2</sub>). The main source of NO<sub>2</sub> is vehicle emissions and new infrastructure like the SEALR might change this within the parish itself – bring sources into the parish it depends on the predicted vehicle emissions on the new link road and also Wendover Road.

There are no major industrial polluting processes in the area, but there are a number of smaller processes which may produce emissions.

We regulate many of these processes in order to minimise or prevent pollution. Businesses undertaking activities that can cause pollution must obtain a permit.

### Our legal obligations

By law, local authorities must review and assess air quality in their areas against national objectives." (For national air quality objectives, see Appendix E of the October 2016 status report referenced below)

"Areas that are unlikely to meet those objectives must declare an air quality management area (AQMA), and develop an action plan.

There are currently 3 AQMA in the Vale. We have decided it would be appropriate to take a 'whole town' approach to air quality rather than focusing on sections of individual roads, and have therefore created a single plan covering the whole of Aylesbury" (which can be found at <http://aqma.defra.gov.uk/action-plans/AVDC%20AQAP%202010.pdf>

The latest available status report was produced in October 2016 and can be found at [https://www.aylesburyvaledc.gov.uk/sites/default/files/page\\_downloads/AVDC%20ASR%202016%20Final.pdf](https://www.aylesburyvaledc.gov.uk/sites/default/files/page_downloads/AVDC%20ASR%202016%20Final.pdf)

The author of the status report was the Principal Enforcement Officer (Environmental Health). In a telephone conversation with him on 18th August 2017 at 4.20pm, he explained that AQMA are set up only where there is an issue identified. Non automatic monitoring may be set up from time to time in areas where there may be a concern. Accordingly, diffusion tubes are deployed to assess the rough levels of air quality. Depending on those results, automatic monitoring through an AQMA may be set up. Results of such monitoring are reviewed over time and the AQMA may be continued or revoked.

New developments may do their own air quality monitoring, sharing their data with the local authority. Also air quality monitoring may be a planning condition.

### b. Environmental pollution

The following information comes from: <https://www.gov.uk/government/publications/local-authority-pollution-control-general-guidance-manual>

"Local authorities who regulate businesses are usually district or borough councils. If an area has only one council (a unitary council) then that's the regulator.

A Port Health Authority may be the regulator in port areas.

This guidance helps local authorities:

- Follow statutory guidance under regulation 64 of the Environmental Permitting Regulations (EPR).
- Understand the EPR's main functions, procedures and terminology.

Any businesses whose premises produce pollution are known as "installations". These installations are one of the following:

Part A2, sectors regulated under integrated pollution prevention and control, known as Local Authority Industrial Pollution Prevention and Control (LA-IPPC)" See:

<https://www.gov.uk/government/collections/integrated-pollution-prevention-and-control-sector-guidance-notes> for the types of businesses covered

Part B, known as Local Air Pollution Prevention and Control (LAPPC)" See:

<https://www.gov.uk/government/collections/local-air-pollution-prevention-and-control-lappc-process-guidance-notes> for an explanation of businesses covered

Buckinghamshire Council ("the regulator") is required to maintain a public register containing information on the businesses they approve Part B (air pollution) and Part A2 (other environmental impacts) permits for<sup>3</sup>.

They currently permit a number of Part B processes but no Part A2 processes.

The public register of approved businesses can be found at:

<https://www.aylesburyvaledc.gov.uk/sites/default/files/EPR%20Part%20A2%20and%20Part%20B%20Public%20Register%20-%20August%202017.pdf>

There are no licensed businesses on the list based in Stoke Mandeville.

## Part 6: Landscape Character and Sensitivity

8. A Landscape Character Assessment was produced in May 2008. The assessment covers the whole of Aylesbury Vale District outside of the built-up areas of Aylesbury, Buckingham, Haddenham, Winslow and Wendover. It groups landscapes into 79 landscape character areas and 13 landscape character types covering landscape, visual, historic and ecological considerations. The landscape character type for Stoke Mandeville is Landscape Character Type 08, 'Vale'.

The Areas of Sensitive Landscape study (2008) followed up the Landscape Character Assessment looking specifically at the sensitivity of areas to change and new development. The following criteria determine how sensitive an area is –landscape quality, scenic quality, rarity, representativeness, conservation interests, wildness. Stoke Mandeville is identified as having a landscape type of Southern Vale, with a sensitivity measuring between 0-50%, as such measuring relatively low sensitivity. The bulk and greater degree is in the southern area, due to the current extent of both arable and rural areas. Existing footpaths give plenty of access to these green spaces.

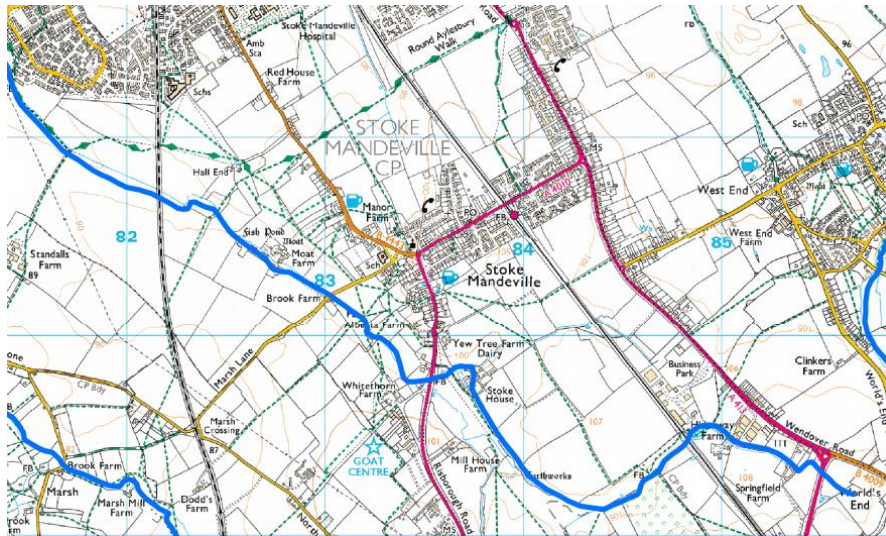
---

<sup>3</sup> chapter 29.3 Environmental Permitting General Guidance Manual on Policy and Procedures for A2 and B Installations p185

[https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/611093/General-guidance-manual-a2-and-b-installations-part1.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/611093/General-guidance-manual-a2-and-b-installations-part1.pdf)

## Part 7: Animals

10. Two major 'animal pathways', run north to south through the Parish – the main railway line and the Stoke Brook watercourse. Both the railway and brook provide excellent biodiversity. The railway providing hunting and nesting habitats either side of the tracks, although recent felling of trees, due to disease and danger, has reduced this in certain areas. Stoke Brook has recently been dredged and drained in parts and again, provides much biodiversity within and along its banks. Any new developments should not impinge on the brook, as this provides an ideal breeding and feeding ground for numerous aquatic animals and their predators.



Source : <https://riverthame.org/stoke-brook/>



The Stoke Brook around Stoke Mandeville is a beautiful sight with shallow waters and its meanders



Natural woody debris doing a great job on the Stoke Brook



Semi-improved grassland in the upper reaches of Stoke Brook





Grazing pressure on a small stream leading to Stoke Brook

Natural hedgerows and open arable 'farmland' still provide excellent animal habitats and breeding facilities, together with a wide and varied range of flora.

There are approximately 10 Notable Species Sites dotted within and adjacent to Stoke Mandeville. Notable Species Sites are locations of important ecological species recorded by the Milton Keynes and Buckinghamshire Biological Records Centre. This information is not normally shared however, the HS2, SES AP2ES of 2015 showed the existence of two notable species being Great Crested Newts and Bats. These animals were noted in three main areas:

- Land below the present Belmore Centre, south of Lower Road.
- Along Marsh Lane and the brook, south of the Parish.
- Around the Bucks Goat Centre just off Risborough Road, again south of the Parish.

The Great crested Newt is mentioned in the Aylesbury Vale conservation plans as the most threatened species of newt in the land. The significant Backstein's bats are also noted by Buckinghamshire Council conservation.

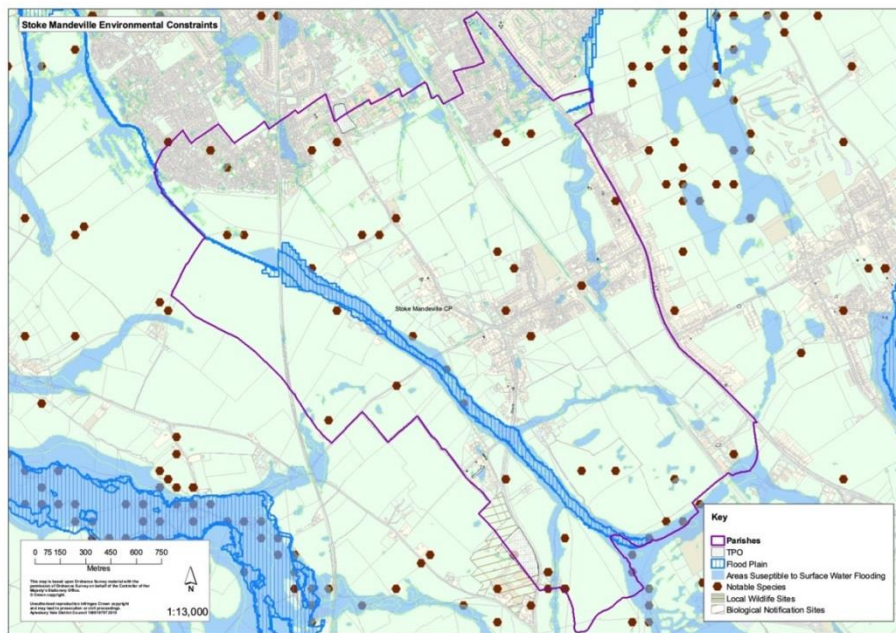


The Notable Species Sites are sensitive information and as such the species of wildlife cannot be stated in this Evidence Paper, however, the Environmental Records Centre can be contacted to give a case-by-case response – contact [erc@buckscc.gov.uk](mailto:erc@buckscc.gov.uk).

Other highlighted animals within the Parish include:

- Birds - Carrion Crow, Wood Pigeon, Red Kite, Starling, Magpie, Robin, Blackbird, Blue Tit, House Sparrow.
- Animals - Rabbit, Fox, Bat (Pipistrelle and Brown Long Eared), Rat, Mouse, Deer (Muntjac and Fallow).
- Water Voles and Otters have been noted within the Parish at points.

The map below provides some detail as to the presence of notable species according to an Aylesbury Vale Council (now Buckinghamshire Council) report of 2011. The same Council's report in relation to the HS2, 2015 report mentioned above already suggests a declining animal population over the 4 years difference of the reports.



**Point 5:** The Parish has seen a decline in animal population in recent years, new developments must acknowledge this and take steps to protect present wildlife and encourage more.

## Part 8: Historic Constraints

11. Listed Buildings - There are approximately 19 listed buildings of grade II. These buildings are selected on the basis of their architectural interest, historic interest and historical association. Age and rarity are also an important consideration.

Archaeological Notification Areas - An Archaeological Notification Area is located towards the east of the village where there is a Roman Pottery. There is also the site of a former village adjoining Mill House Farm. These are Areas where there is specific evidence recorded on the Buckinghamshire Historic Environment Record indicating the existence, or probable existence, of heritage assets of archaeological interest. Data managed by the Buckinghamshire Council.

## Part 9: Plants/Greenery

12. Stoke Mandeville neighbours one of the most densely wooded areas in the UK, the Chilterns and shares existence of the rare native Black Poplar tree.



The Buckinghamshire and Milton Keynes Biodiversity Action Plan – Forward to 2020 highlighted a couple of points to note:-

- A recent national report by Plant Life entitled “Our Vanishing Flora”, ranked Buckinghamshire and Milton Keynes 39th out of 52 counties in terms of the rate of plant extinctions, which is disappointing and we should strive to achieve better. Buckinghamshire and Milton Keynes are losing plant species at a rate of 0.59 species per year. If that rate continues then by 2020 there will be 4 fewer plant species living in Buckinghamshire and Milton Keynes.
- In common with other parts of the country and particularly the developed South East, Buckinghamshire has severely damaged ecosystems.

**Point 6:** Developments in the Parish must not add to the county going up the table of counties in terms of plant rate extinction. Indeed, a goal should be set to assist the county to improve its position to be in the top 10% of counties.

## Part 10: Climate Crisis

13. Climate Crisis (Royal Town Planning Institute - RTPI) empowers local authorities to act on climate change by placing it at the heart of the planning process - the second edition was published in May 2018. The report introduces the concept of Climate Justice, whereby local authorities have responsibility for decisions that are vital to our collective future, referred to in the Neighbourhood Planning Act 2017 section 20.

Protecting/improving the climate is stated to be achieved by:

- Protecting the green infrastructure
- The use of low carbon transport (electric cars, bicycles etc. covered under a different evidence paper)
- Flood and water management
- Adhering to biodiversity data

The Parish plan wishes all developments to adhere to all four of the above areas, by focusing through this paper on the protection and improvement of the Parish's present green infrastructure, raising the awareness of the already unstable or possibility of, poor water management and a need to protect biodiversity.

As a further objective to a more energy efficient/low carbon Parish, this evidence paper requests all developers to adhere to the Merton Rule - a minimum expected, whereby all new developments to generate at least 10% of their energy needs from on-site renewable energy equipment. This rule forms part of the Planning and Energy Act 2008.

The Parish will look at Section 106 powers in the same way as green infrastructure for community owned energy providers.

Further points in relation to low carbon in this paper (and others) set the Parish objectives:

- Code for sustainable homes policy – code level 4 to 2017, code level 5 from 2017-2020, code level 6 from 2020 onwards.
- Minimum BREEAM standards for non-residential development – BREEAM 'Very Good' from 2017; BREEAM 'Excellent' from 2020. Proposals not achieving these standards refused unless open-book evidence submitted to explain and justify. (BREEAM - Building Research Establishment (BRE) Environmental Assessment Method).
- Promoting retrofitting of existing buildings including traditional buildings.
- General policy supporting renewable energy (microgeneration only), provided there is no harm to landscape, character/biodiversity/heritage assets.
- Creation of specific new dedicated cycling routes.
- Rainwater and stormwater management.
- Short design briefs given for development sites, encouraging renewable energy and sustainable design.

**Point 7:** Adherence to the Merton Rule in relation to all appropriate Parish developments.

## Part 11: Environment Bill 2020 Policy Statement

14. The Bill legally obliges policy-makers to have due regard to the environmental principles policy statement when choosing policy options, for example by considering the policies which cause the least environmental harm. The principles are:

- Environmental protection should be integrated into policy-making principle
- The preventative action to avert environmental damage principle
- The precautionary principle
- Environmental damage should as a priority be rectified at source principle
- The polluter pays principle

The Bill lays the foundation for the Nature Recovery Network. In addition to setting the framework for at least one legally binding target for biodiversity, it establishes spatial mapping and planning tools to help inform nature recovery and, sitting alongside our plans for introducing a new Environmental Land Management Scheme, the actions and incentives to drive change on the ground.

The Bill supports and enables action on the ground through working together, including with land owners and managers, developers, local government and conservation organisations to create or restore wildlife rich habitats, to enable wildlife to recover and thrive. The Environment Bill introduces a mandatory requirement for biodiversity net gain in the planning system, to ensure that new developments enhance biodiversity and create new green spaces for local communities to enjoy.

Local Nature Recovery Strategies will help local authorities and other public bodies identify priorities and opportunities, for conserving and enhancing nature. These tools will also support strategic planning for housing and infrastructure and help direct net gain investment so that it has the greatest benefit for local wildlife and people. Whilst government will provide data, guidance and support for the Local Nature Recovery Strategies, each one will be produced locally ensuring local ownership and knowledge is embraced, and strategies are consistent and link together across England.

Buckinghamshire Council will also be required to produce a five-yearly report on the actions taken to comply with the new duty. Together, these measures provide an important driver for the effective implementation of the Local Nature Recovery Strategies, providing an effective way to embed consideration of biodiversity across the public sector.

Maximising benefits for our natural environment should not just be for the short term. The Environment Bill enables landowners to make long term commitments to conservation. A conservation covenant is a private, voluntary agreement between a landowner and a 'responsible body', such as a conservation charity or public body, to fulfil conservation objectives for the public good. Covenants will be voluntary but legally binding.

**Point 8:** SMPC will look to support a Local Nature Recovery Strategy and will ask all developers what their plans are in relation to the strategy before developments take place.

**Point 9:** SMPC will expect all developers to provide proof that the landowner has provided the developer with their commitment plan to conservation.

The Environment Bill introduces 'Duty to Consult' which will give the public the opportunity to understand why a street's tree is being felled and express any concerns regarding this. The Bill also introduces Forestry Enforcement Measures which strengthens the Forestry Commission's power to clamp down on illegal tree felling across England, ensuring the Commission has the powers to continue to protect and maintain our forests.

**Point 10:** SMPC will consult on all street trees that are planned to be felled by a developer.

Local government has an essential role to play responding to challenges at a local level, leading specific and locally appropriate responses and driving innovation. Local Authorities - as local experts, place-shapers, and conveners of their communities – must be empowered to play a fundamental role in delivering the environmental action needed in local areas.

The Bill bolsters the environmental role of local leaders by providing additional powers and flexibilities to deliver action. This Bill delivers this through:

- Improved and increased powers to take more effective action to address local priorities and deliver environmental change.
- Providing more certainty and simplicity for developers through the planning system by mandating biodiversity net gain, and ensuring that all new developments enhance biodiversity and help deliver thriving natural spaces for communities.
- Ensuring that producers can be held responsible for the full net costs of managing products at end of life, reducing Local Authorities' financial burdens from waste management, including litter collection.
- Stronger abilities to improve health and social outcomes for local citizens.
- Supporting Local Authorities as place shapers through new tools and data for effective spatial planning.

The Bill creates a framework in which strong Local Government leadership will be enhanced to drive the necessary, and once in a lifetime, environmental improvements to reverse decades of biodiversity loss and improve air quality.

Government will fully fund all new burdens on Local Authorities arising from the Bill in order to make the ambition a reality. There is a commitment to working in partnership with Local Government, businesses and wider stakeholders on the implementation of these measures, to identify and secure the capacity and skills to deliver a cleaner, greener and healthier environment.

## Part 12: Energy White Paper (December 2020)

Following publication of the White Paper, Stoke Mandeville Parish Council has noted the Government's target of a net zero pledge by 2050 and a major push on improved energy efficiency in all homes (Old and New). Money has been pledged to decarbonisation projects, building efficiency improvements and electric vehicle infrastructure. Buildings are the second largest source of U.K. emissions and 90% of homes in England currently use fossil fuels for heating, cooking and hot water. New build homes will eventually need to conform to 'The Future Homes Standard', which will ensure that all new-build homes are zero carbon ready via low-carbon heating and high levels of energy efficiency. It is clear from the White Paper that developers must build zero-carbon elements within their developments. Steps have already been taken to improve the almost 27 million existing dwellings via The Green Homes Grant Voucher and some Local Authority Delivery Schemes. Existing home owners should be made aware of possible funding schemes available and encouraged to take advantage of them.

SMPC awaits the completion and publication of the Energy White Paper which is expected in Q1 2020. Since the net zero pledge was made by Andrea Leadsom (Secretary of State for Business, Energy & Industrial Strategy until February 2020) said, £2 billion has been pledged to decarbonisation projects, as well as £400 million to be spent on electric vehicle infrastructure, climate finance being doubled from £5.8 to £11.8 billion and the Contracts for Difference scheme funding 12 new renewables projects that will power seven million homes.

It is clear from the above that developers will need to build zero carbon within their developments. Electric vehicle charging and solar panels on all new homes, together with adherence to the Merton rule and biodiversity policies are all part of this.

## Part 13: Analysis and Conclusions

15. Due to the ever-increasing number of houses being built in the Parish, biodiversity has and could continue to diminish in the future years. Every effort needs to be made to ensure that all new developments maximise biodiversity.

Noted points from the document:-

- The Parish needs to retain its own identity and boundaries with any further developments being clearly defined with appropriate green boundaries, encouraging biodiversity, well-being and Parish character.
- With a growing community, the present Parish facility needs to be kept for community use and consideration given to the provision of additional facilities (specifically within the determined new Parish centre advised in the main plan).
- The present playing facilities were relevant to the Parish 2011 population then with the increase in population seen in planning, more playing facilities are required.
- All future developments must take into account the changing water table of the Parish and adhere to the Climate Justice principles, to protect both the Climate and Biodiversity.
- The Parish has seen a decline in animal population in recent years, new developments must acknowledge this and take steps to protect present wildlife and encourage more.
- Developments in the Parish must not add to the county going up the table of counties in terms of plant rate extinction. Indeed, a goal should be set to assist the county to improve its position to be in the top 10% of counties.

- Adherence to the Merton Rule in relation to all Parish developments and those points noted above.
- SMPC will look to support a Local Nature Recovery Strategy and will ask all developers what their plans are in relation to the strategy before developments take place.
- SMPC will expect all developers to provide proof that the owner of the land they are developing on has provided the developer with their commitment plan to conservation.
- SMPC will consult on all street trees that are planned to be felled by a developer.
- Once the white paper is formally published and adopted, SMPC have the right to amend or update this Biodiversity Paper.



In addition to the main 11 points raised in this paper (above), the Parish would add local ownership to include:

- Maintenance of existing hedgerows and watercourses, together with the provision of designated 'green spaces' in all planning applications.
- Encouraging homeowners in the three northern areas to retain all-natural hedgerow boundaries, rather than replace with fencing.
- Replanting of trees along the Aylesbury to Wendover railway line, in areas where they have been felled, should be openly and actively encouraged.
- Landscaping can greatly retain and even increase biodiversity and all building developments, relief roads, and railways (HS2), should provide this.
- **SMPC intends to play an essential role in protecting the local environment through awareness and implementation of the Environment Bill that is currently passing through Parliament.**

Overall, the Parish accepts the need for development, but all development must be in character to the historic nature of the Parish and encourage both wildlife and animal growth. In line with this, as much greenery as possible is to be maintained and more encouraged in line with keeping the Parish its Best Kept Village award winning status and ambitions to become a garden town.

Stoke Mandeville has won the Best Kept Village competition in 1996, 1997, 2000 & 2004.

The shields and certificates that were awarded are shown below.



## Annex 1 – Priority, protected and other "notable" species in Buckinghamshire and Milton Keynes

Forward to 2020 - Buckinghamshire and Milton Keynes Biodiversity Action Plan - Appendix 1

[http://www.legislation.gov.uk/uksi/2012/1927/pdfs/uksi\\_20121927\\_en.pdf](http://www.legislation.gov.uk/uksi/2012/1927/pdfs/uksi_20121927_en.pdf) )

IMPORTANT NOTE - this document does not attempt to cover all forms of protection for wild species and should not be used as a definitive guide to such protections.

Amphibians and reptiles *Bufo calamita* Natterjack Toad

Amphibians and reptiles *Coronella austriaca* Smooth Snake

Amphibians and reptiles *Lacerta agilis* Sand Lizard

Amphibians and reptiles *Lacerta vivipara* Viviparous Lizard

Amphibians and reptiles *Natrix natrix* Grass Snake

Amphibians and reptiles *Rana temporaria* Common Frog

Amphibians and reptiles *Triturus cristatus* Great Crested Newt

Amphibians and reptiles *Triturus helveticus* Palmate Newt

Amphibians and reptiles *Triturus vulgaris* Smooth Newt

Amphibians and reptiles *Vipera berus* Adder

Birds *Cygnus olor* Mute Swan Bird-Amber

Birds *Cygnus columbianus* Bewick's Swan

Birds *Cygnus cygnus* Whooper Swan Bird-Amber

Birds *Anser fabalis* Bean Goose Bird-Amber

Birds *Anser brachyrhynchus* Pink-footed Goose Bird-Amber

Birds *Anser albifrons* Greater White-fronted Goose

Birds *Branta bernicla* Brent Goose Bird-Amber

Birds *Tadorna tadorna* Shelduck Bird-Amber

Birds *Branta bernicla bernicla* Dark-bellied Brent Goose

Birds *Anas penelope* Wigeon Bird-Amber

Birds *Anas strepera* Gadwall Bird-Amber

Birds *Anas crecca* Teal Bird-Amber

Birds *Anas platyrhynchos* Mallard Bird-Amber

Birds *Anas acuta* Pintail Bird-Amber

Birds *Circus* sp. Harrier species

Birds *Anas querquedula* Garganey Bird-Amber

Birds *Anas clypeata* Shoveler Bird-Amber

Birds *Aythya ferina* Pochard Bird-Red

Birds *Aythya fuligula* Tufted Duck Bird-Amber

Birds *Aythya marila* Greater Scaup

Birds *Somateria mollissima* Common Eider Bird-Amber

Birds *Clangula hyemalis* Long-tailed Duck Bird-Red

Birds *Melanitta nigra* Black Scoter

Birds *Melanitta fusca* Velvet Scoter Bird-Red

Birds *Bucephala clangula* Common Goldeneye Bird-Amber

Birds *Mergellus albellus* Smew Bird-Amber

Birds *Tetrao tetrix* Black Grouse

Birds *Tetrao urogallus* Capercaillie

Birds *Perdix perdix* Grey Partridge  
Birds *Coturnix coturnix* Quail Bird-Amber  
Birds *Gavia stellata* Red-throated Diver Bird-Amber  
Birds *Gavia arctica* Black-throated Diver  
Birds *Gavia immer* Great Northern Diver Bird-Amber  
Birds *Fulmarus glacialis* Fulmar Bird-Amber  
Birds *Puffinus puffinus* Manx Shearwater Bird-Amber  
Birds *Hydrobates pelagicus* Storm Petrel Bird-Amber  
Birds *Oceanodroma leucorhoa* Leach's Storm-petrel Bird-Amber  
Birds *Morus bassanus* Gannet Bird-Amber  
Birds *Phalacrocorax aristotelis* Shag Bird-Red  
Birds *Botaurus stellaris* Bittern  
Birds *Ixobrychus minutus* Little Bittern  
Birds *Egretta garzetta* Little Egret Bird-Amber  
Birds *Ardea purpurea* Purple Heron  
Birds *Platalea leucorodia* Spoonbill Bird-Amber  
Birds *Tachybaptus ruficollis* Little Grebe Bird-Amber  
Birds *Podiceps grisegena* Red-necked Grebe Bird-Red  
Birds *Podiceps auritus* Slavonian Grebe Bird-Red  
Birds *Podiceps nigricollis* Black-necked Grebe Bird-Amber  
Birds *Pernis apivorus* Honey Buzzard Bird-Amber  
Birds *Milvus milvus* Red Kite Bird-Amber  
Birds *Haliaeetus albicilla* White-tailed Eagle Bird-Red  
Birds *Circus aeruginosus* Marsh Harrier Bird-Amber  
Birds *Circus cyaneus* Hen Harrier  
Birds *Circus pygargus* Montagu's Harrier Bird-Amber  
Birds *Accipiter gentilis* Goshawk  
Birds *Aquila chrysaetos* Golden Eagle Bird-Amber  
Birds *Pandion haliaetus* Osprey Bird-Amber  
Birds *Falco tinnunculus* Kestrel Bird-Amber  
Birds *Falco columbarius* Merlin Bird-Red  
Birds *Falco subbuteo* Hobby  
Birds *Falco peregrinus* Peregrine Falcon  
Birds *Porzana porzana* Spotted Crane Bird-Amber  
Birds *Crex crex* Corn Crane  
Birds *Grus grus* Common Crane Bird-Amber  
Birds *Haematopus ostralegus* Oystercatcher Bird-Amber  
Birds *Himantopus himantopus* Black-winged Stilt  
Birds *Recurvirostra avosetta* Avocet Bird-Amber  
Birds *Burhinus oedicephalus* Stone-curlew  
Birds *Charadrius dubius* Little Ringed Plover  
Birds *Charadrius hiaticula* Ringed Plover Bird-Red  
Birds *Charadrius alexandrinus* Kentish Plover  
Birds *Pluvialis apricaria* European Golden Plover Bird-Amber  
Birds *Pluvialis squatarola* Grey Plover Bird-Amber  
Birds *Vanellus vanellus* Lapwing  
Birds *Calidris canutus* Red Knot Bird-Amber  
Birds *Calidris alba* Sanderling Bird-Amber

Birds *Calidris temminckii* Temminck's Stint Bird-Red  
Birds *Calidris ferruginea* Curlew Sandpiper Bird-Amber  
Birds *Calidris maritima* Purple Sandpiper Bird-Amber  
Birds *Calidris alpina* Dunlin Bird-Amber  
Birds *Philomachus pugnax* Ruff Bird-Red  
Birds *Lymnocyptes minimus* Jack Snipe Bird-Amber  
Birds *Gallinago gallinago* Snipe Bird-Amber  
Birds *Scolopax rusticola* Woodcock Bird-Red  
Birds *Limosa limosa* Black-tailed Godwit Bird-Red  
Birds *Limosa lapponica* Bar-tailed Godwit Bird-Amber  
Birds *Numenius phaeopus* Whimbrel Bird-Red  
Birds *Numenius arquata* Curlew  
Birds *Actitis hypoleucos* Common Sandpiper Bird-Amber  
Birds *Tringa ochropus* Green Sandpiper Bird-Amber  
Birds *Tringa erythropus* Spotted Redshank Bird-Amber  
Birds *Tringa nebularia* Common Greenshank Bird-Amber  
Birds *Tringa glareola* Wood Sandpiper Bird-Amber  
Birds *Tringa totanus* Redshank Bird-Amber  
Birds *Arenaria interpres* Ruddy Turnstone Bird-Amber  
Birds *Phalaropus lobatus* Red-necked Phalarope  
Birds *Stercorarius parasiticus* Arctic Skua  
Birds *Stercorarius skua* Great Skua Bird-Amber  
Birds *Rissa tridactyla* Black-legged Kittiwake Bird-Red  
Birds *Chroicocephalus ridibundus* Black-headed Gull Bird-Amber  
Birds *Hydrocoloeus minutus* Little Gull Bird-Amber  
Birds *Larus melanocephalus* Mediterranean Gull Bird-Amber  
Birds *Larus canus* Mew Gull Bird-Amber  
Birds *Larus fuscus* Lesser Black-backed Gull Bird-Amber  
Birds *Larus argentatus* Herring Gull Bird-Red  
Birds *Larus argentatus cachinnans* Caspian Gull Bird-Amber  
Birds *Larus michahellis* Yellow-legged Gull Bird-Amber  
Birds *Larus glaucoides* Iceland Gull Bird-Amber  
Birds *Larus hyperboreus* Glaucous Gull Bird-Amber  
Birds *Larus marinus* Great Black-backed Gull Bird-Amber  
Birds *Sternula albifrons* Little Tern Bird-Amber  
Birds *Chlidonias niger* Black Tern Bird-Amber  
Birds *Sterna sandvicensis* Sandwich Tern Bird-Amber  
Birds *Sterna hirundo* Common Tern Bird-Amber  
Birds *Sterna dougallii* Roseate Tern  
Birds *Sterna paradisaea* Arctic Tern Bird-Amber  
Birds *Fratercula arctica* Atlantic Puffin Bird-Red  
Birds *Columba oenas* Stock Dove Bird-Amber  
Birds *Streptopelia turtur* Turtle Dove  
Birds *Cuculus canorus* Cuckoo  
Birds *Tyto alba* Barn Owl Bird-Amber  
Birds *Bubo scandiacus* Snowy Owl  
Birds *Strix aluco* Tawny Owl Bird-Amber  
Birds *Asio flammeus* Short-eared Owl Bird-Amber

Birds *Caprimulgus europaeus* Nightjar  
Birds *Apus apus* Swift Bird-Amber  
Birds *Alcedo atthis* Kingfisher Bird-Amber  
Birds *Merops apiaster* Bee-eater  
Birds *Upupa epops* Hoopoe  
Birds *Jynx torquilla* Wryneck UKBAP-2007 Bird-Red  
Birds *Picus viridis* Green Woodpecker Bird-Amber  
Birds *Dendrocopos minor* Lesser Spotted Woodpecker  
Birds *Oriolus oriolus* Golden Oriole Bird-Red  
Birds *Lanius collurio* Red-backed Shrike  
Birds *Pyrrhocorax pyrrhocorax* Red-billed Chough Bird-Amber  
Birds *Regulus ignicapilla* Firecrest Bird-Amber  
Birds *Poecile montana* Willow Tit  
Birds *Poecile palustris* Marsh Tit  
Birds *Panurus biarmicus* Bearded Tit Bird-Amber  
Birds *Lullula arborea* Wood Lark  
Birds *Alauda arvensis* Sky Lark  
Birds *Riparia riparia* Sand Martin Bird-Amber  
Birds *Hirundo rustica* Swallow Bird-Amber  
Birds *Delichon urbicum* House Martin Bird-Amber  
Birds *Cettia cetti* Cetti's Warbler  
Birds *Phylloscopus sibilatrix* Wood Warbler  
Birds *Phylloscopus trochilus* Willow Warbler Bird-Amber  
Birds *Sylvia communis* Whitethroat Bird-Amber  
Birds *Sylvia undata* Dartford Warbler Bird-Amber  
Birds *Locustella naevia* Grasshopper Warbler  
Birds *Acrocephalus paludicola* Aquatic Warbler  
Birds *Acrocephalus palustris* Marsh Warbler  
Birds *Sturnus vulgaris* Starling  
Birds *Turdus torquatus* Ring Ouzel  
Birds *Turdus pilaris* Fieldfare Bird-Red  
Birds *Turdus philomelos* Song Thrush  
Birds *Turdus iliacus* Redwing Bird-Red  
Birds *Turdus viscivorus* Mistle Thrush Bird-Red  
Birds *Muscicapa striata* Spotted Flycatcher  
Birds *Luscinia megarhynchos* Nightingale Bird-Red  
Birds *Phoenicurus ochruros* Black Redstart Bird-Red  
Birds *Phoenicurus phoenicurus* Redstart Bird-Amber  
Birds *Saxicola rubetra* Whinchat Bird-Red  
Birds *Oenanthe oenanthe* Wheatear Bird-Amber  
Birds *Ficedula hypoleuca* Pied Flycatcher Bird-Red  
Birds *Prunella modularis* Dunnock  
Birds *Passer domesticus* House Sparrow  
Birds *Passer montanus* Tree Sparrow  
Birds *Motacilla flava* Yellow Wagtail Bird-Red  
Birds *Motacilla flava flavissima* Yellow Wagtail  
Birds *Motacilla cinerea* Grey Wagtail Bird-Red  
Birds *Cinclus cinclus* Dipper Bird-Amber

Birds *Anthus trivialis* Tree Pipit  
Birds *Anthus pratensis* Meadow Pipit Bird-Amber  
Birds *Anthus spinoletta* Water Pipit Bird-Amber  
Birds *Fringilla montifringilla* Brambling  
Birds *Serinus serinus* Serin Bird-Amber  
Birds *Carduelis cannabina* Linnet  
Birds *Carduelis flavirostris* Twite  
Birds *Carduelis flammea* Mealy Redpoll Bird-Amber  
Birds *Carduelis cabaret* Lesser Redpoll  
Birds *Loxia curvirostra* Crossbill  
Birds *Pyrrhula pyrrhula* Bullfinch  
Birds *Coccothraustes coccothraustes* Hawfinch  
Birds *Plectrophenax nivalis* Snow Bunting Bird-Amber  
Birds *Calcarius lapponicus* Lapland Longspur Bird-Amber  
Birds *Emberiza citrinella* Yellowhammer  
Birds *Emberiza cirlus* Cirl Bunting  
Birds *Emberiza schoeniclus* Reed Bunting  
Birds *Emberiza calandra* Corn Bunting

Fish *Lampetra fluviatilis* River Lamprey  
Fish *Lampetra planeri* Brook Lamprey  
Fish *Anguilla anguilla* Eel  
Fish *Barbus barbus* Barbel  
Fish *Cobitis taenia* Spined Loach  
Fish *Salmo salar* Atlantic Salmon  
Fish *Salmo trutta* Brown Trout  
Fish *Thymallus thymallus* Grayling  
Fish *Cottus gobio* Bullhead

Fungi *Aureoboletus gentilis* Near Threatened  
Fungi *Boletus luridiformis* var. *immutatus*  
Fungi *Boletus satanas* Vulnerable  
Fungi *Hericium coralloides*  
Fungi *Hericium erinaceum*  
Fungi *Hydnellum ferrugineum*  
Fungi *Leccinum duriusculum* Near Threatened  
Fungi *Phellodon melaleucus*  
Fungi *Phylloporus rhodoxanthus*  
Fungi *Piptoporus quercinus*  
Fungi *Podoscypha multizonata*  
Fungi *Acarospora cervina* Scarce  
Fungi *Illosporopsis christiansenii* Scarce

Insects: ants, bees, wasps *Chrysura radians* a cuckoo wasp Scarce-A  
Insects: ants, bees, wasps *Cleptes semiauratus* a cuckoo wasp Scarce-B  
Insects: ants, bees, wasps *Pseudomalus violaceus* chrysidids & cuckoo wasps Scarce-B  
Insects: ants, bees, wasps *Methocha articulata* a solitary wasp Scarce-B  
Insects: ants, bees, wasps *Tiphia minuta* The Small Tiphia Scarce-B

Insects: ants, bees, wasps *Formicoxenus nitidulus* an ant

Insects: ants, bees, wasps *Lasius brunneus* an ant Scarce-A

Insects: ants, bees, wasps *Myrmica schencki* an ant Scarce-B

Insects: ants, bees, wasps *Auplopus carbonarius* a spider-hunter wasp Scarce-B

Insects: ants, bees, wasps *Priocnemis agilis* a spider-hunter wasp Scarce-B

Insects: ants, bees, wasps *Priocnemis cordivalvata* a spider-hunter wasp Scarce-B

Insects: ants, bees, wasps *Priocnemis gracilis* a spider-hunter wasp Scarce-B

Insects: ants, bees, wasps *Priocnemis hyalinata* a spider-hunter wasp Scarce-B

Insects: ants, bees, wasps *Dolichovespula media* a social wasp Scarce-A

Insects: ants, bees, wasps *Dolichovespula saxonica* a social wasp Insufficiently Known

Insects: ants, bees, wasps *Eumenes coarctatus* Heath Potter Wasp Scarce-A

Insects: ants, bees, wasps *Symmorphus connexus* a mason wasp Rare

Insects: ants, bees, wasps *Crossocerus binotatus* a digger wasp Scarce-B

Insects: ants, bees, wasps *Ectemnius ruficornis* a digger wasp Scarce-B

Insects: ants, bees, wasps *Ectemnius sexcinctus* a digger wasp Scarce-B

Insects: ants, bees, wasps *Gorytes laticinctus* a digger wasp Rare

Insects: ants, bees, wasps *Lestiphorus bicinctus* a digger wasp Scarce-B

Insects: ants, bees, wasps *Nysson trimaculatus* a digger wasp Scarce-B

Insects: ants, bees, wasps *Psenulus schencki* a digger wasp Scarce-A

Insects: ants, bees, wasps *Andrena apicata* a mining bee Scarce-B

Insects: ants, bees, wasps *Andrena bimaculata* a mining bee Scarce-B

Insects: ants, bees, wasps *Andrena florea* a mining bee Rare

Insects: ants, bees, wasps *Andrena fulvago* a mining bee Scarce-A

Insects: ants, bees, wasps *Andrena hattorfiana* a mining bee Rare

Insects: ants, bees, wasps *Andrena labiata* Girdled Mining Bee Scarce-A

Insects: ants, bees, wasps *Andrena minutuloides* a mining bee Scarce-A

Insects: ants, bees, wasps *Andrena similis* a mining bee Scarce-B

Insects: ants, bees, wasps *Andrena tibialis* a mining bee Scarce-A

Insects: ants, bees, wasps *Bombus ruderarius* Red-tailed Carder Bee

Insects: ants, bees, wasps *Bombus rupestris* a cuckoo bumblebee Scarce-B

Insects: ants, bees, wasps *Dasypoda hirtipes* Hairy Legged Mining Bee Scarce-B

Insects: ants, bees, wasps *Hylaeus signatus* Large Yellow-faced Bee Scarce-B

Insects: ants, bees, wasps *Lasioglossum leucopus* a mining bee Rare

Insects: ants, bees, wasps *Lasioglossum malachurum* a mining bee Scarce-B

Insects: ants, bees, wasps *Lasioglossum pauxillum* a mining bee Scarce-A

Insects: ants, bees, wasps *Lasioglossum quadrinotatum* a mining bee Scarce-A

Insects: ants, bees, wasps *Lasioglossum xanthopus* a mining bee Scarce-B

Insects: ants, bees, wasps *Macropis europaea* a mining bee Scarce-A

Insects: ants, bees, wasps *Melitta tricincta* a mining bee Scarce-B

Insects: ants, bees, wasps *Nomada ferruginata* a solitary bee Endangered

Insects: ants, bees, wasps *Nomada flavopicta* a solitary bee Scarce-B

Insects: ants, bees, wasps *Nomada fucata* a solitary bee Scarce-A

Insects: ants, bees, wasps *Nomada fulvicornis* 6-banded Nomad Bee Rare

Insects: ants, bees, wasps *Nomada hirtipes* a solitary bee Rare

Insects: ants, bees, wasps *Nomada lathburiana* a solitary bee Rare

Insects: ants, bees, wasps *Osmia bicolor* Two Coloured Mason Bee Scarce-B

Insects: ants, bees, wasps *Sphecodes crassus* a cuckoo bee Scarce-B

Insects: ants, bees, wasps *Sphecodes ferruginatus* a cuckoo bee Scarce-B

Insects: ants, bees, wasps *Sphecodes niger* a cuckoo bee Rare  
Insects: ants, bees, wasps *Sphecodes rubicundus* a cuckoo bee Scarce-A

Insects: beetles *Cryptophagus micaceus* Insufficiently Known  
Insects: beetles *Gyrinus distinctus* Scarce  
Insects: beetles *Gyrinus paykulli* Scarce  
Insects: beetles *Hygrotus decoratus* Scarce  
Insects: beetles *Hydroporus longicornis* Near Threatened  
Insects: beetles *Hydroporus neglectus* Scarce  
Insects: beetles *Nebrioporus depressus* Near Threatened Scarce-B  
Insects: beetles *Agabus biguttatus* Scarce  
Insects: beetles *Rhantus frontalis* Scarce  
Insects: beetles *Hydaticus seminiger* Scarce  
Insects: beetles *Carabus monilis* Scarce-B  
Insects: beetles *Blemus discus* Scarce-B  
Insects: beetles *Bembidion gilvipes* Scarce-B  
Insects: beetles *Bembidion clarkii* Scarce-B  
Insects: beetles *Bembidion fumigatum* Scarce-B  
Insects: beetles *Tachys bistratus* Scarce-B  
Insects: beetles *Pterostichus oblongopunctatus* Scarce-B  
Insects: beetles *Pterostichus quadrioveolatus* Scarce-B  
Insects: beetles *Pterostichus anthracinus* Scarce-B  
Insects: beetles *Pterostichus gracilis* Scarce-B  
Insects: beetles *Amara lucida* Scarce-B  
Insects: beetles *Ophonus azureus* Scarce-B  
Insects: beetles *Ophonus melletii* Scarce-A  
Insects: beetles *Ophonus laticollis* Scarce-A  
Insects: beetles *Ophonus rufibarbis* Scarce-B  
Insects: beetles *Ophonus rupicola* Scarce-B  
Insects: beetles *Acupalpus exiguus* Scarce-B  
Insects: beetles *Anthracus consputus* Scarce-B  
Insects: beetles *Licinus depressus* Scarce-B  
Insects: beetles *Panagaeus bipustulatus* Scarce-B  
Insects: beetles *Lebia chlorocephala* Scarce-B  
Insects: beetles *Lebia cyanocephala* Endangered  
Insects: beetles *Demetrias imperialis* Scarce-B  
Insects: beetles *Polistichus connexus* Vulnerable  
Insects: beetles *Brachinus crepitans* Bombardier Beetle Scarce-B  
Insects: beetles *Helophorus alternans* Scarce  
Insects: beetles *Helophorus dorsalis* Scarce  
Insects: beetles *Helophorus granularis* Scarce  
Insects: beetles *Hydrochus angustatus* Scarce  
Insects: beetles *Helochares punctatus* Scarce  
Insects: beetles *Hydrophilus piceus* Great Silver Water Beetle Near Threatened  
Insects: beetles *Cercyon nigriceps* Scarce-B  
Insects: beetles *Abraeus granulum* Scarce-A  
Insects: beetles *Plegaderus dissectus* Scarce-B



Insects: beetles *Ptenidium gressneri* Scarce  
Insects: beetles *Ptenidium turgidum* Insufficiently Known  
Insects: beetles *Oligella intermedia* Insufficiently Known  
Insects: beetles *Smicrus filicornis* Insufficiently Known  
Insects: beetles *Acrotrichis cephalotes* Insufficiently Known  
Insects: beetles *Acrotrichis lucidula* Insufficiently Known  
Insects: beetles *Leiodes lucens* Insufficiently Known  
Insects: beetles *Leiodes macropus* Insufficiently Known  
Insects: beetles *Leiodes oblonga* Scarce  
Insects: beetles *Leiodes nigrita* Insufficiently Known  
Insects: beetles *Leiodes gyllenhalii* Insufficiently Known  
Insects: beetles *Dendroxena quadrimaculata* Scarce-B  
Insects: beetles *Nicrophorus interruptus* Scarce-B  
Insects: beetles *Nicrophorus vestigator* Scarce-A  
Insects: beetles *Acidota cruentata* Scarce-B  
Insects: beetles *Dropephylla gracilicornis* Scarce  
Insects: beetles *Omalium exiguum* Scarce  
Insects: beetles *Omalium rugatum* Scarce  
Insects: beetles *Xylostiba monilicornis* Scarce  
Insects: beetles *Proteinus crenulatus* Scarce-B  
Insects: beetles *Bibloporus minutus* Scarce-B  
Insects: beetles *Euplectus mutator* Scarce  
Insects: beetles *Euplectus kirbii* Scarce  
Insects: beetles *Euplectus nanus* Indeterminate  
Insects: beetles *Batrisodes venustus* Scarce-A  
Insects: beetles *Trichonyx sulcicollis* Vulnerable  
Insects: beetles *Sepedophilus bipunctatus* Scarce-B  
Insects: beetles *Sepedophilus testaceus* Scarce  
Insects: beetles *Lamprinodes saginatus* Scarce-A  
Insects: beetles *Mycetoporus punctus* Scarce  
Insects: beetles *Myllaena elongata* Scarce  
Insects: beetles *Calodera riparia* Scarce  
Insects: beetles *Stichoglossa semirufa* Indeterminate  
Insects: beetles *Dexiogyia corticina* Scarce  
Insects: beetles *Homoeusa acuminata* Insufficiently Known  
Insects: beetles *Ilyobates bennetti* Scarce  
Insects: beetles *Ilyobates nigricollis* Insufficiently Known  
Insects: beetles *Dacrila fallax* Scarce  
Insects: beetles *Schistoglossa gemina* Scarce  
Insects: beetles *Liogluta pagana* Scarce  
Insects: beetles *Anopleta corvina* Insufficiently Known  
Insects: beetles *Datomicra zosterae* Scarce  
Insects: beetles *Atheta laevicauda* Insufficiently Known  
Insects: beetles *Atheta basicornis* Scarce  
Insects: beetles *Aleochara fumata* Insufficiently Known  
Insects: beetles *Aleochara kamila* Scarce  
Insects: beetles *Aleochara maculata* Indeterminate  
Insects: beetles *Aleochara moesta* Insufficiently Known

Insects: beetles Aleochara ruficornis Scarce  
Insects: beetles Falagria sulcatula Scarce  
Insects: beetles Gyrophaena manca Scarce  
Insects: beetles Gyrophaena lucidula Scarce  
Insects: beetles Gyrophaena munsteri Insufficiently Known  
Insects: beetles Euryusa sinuata Indeterminate  
Insects: beetles Cypha seminulum Insufficiently Known  
Insects: beetles Holobus flavicornis Scarce  
Insects: beetles Oligota apicata Scarce  
Insects: beetles Scaphisoma boleti Scarce-B  
Insects: beetles Deleaster dichrous Scarce-B  
Insects: beetles Bledius furcatus Indeterminate  
Insects: beetles Carpelimus similis Scarce  
Insects: beetles Oxytelus fulvipes Scarce-A  
Insects: beetles Stenus argus Scarce-B  
Insects: beetles Stenus carbonarius Scarce-B  
Insects: beetles Stenus circularis Scarce-B  
Insects: beetles Stenus pusillus Scarce-B  
Insects: beetles Stenus fornicatus Scarce-B  
Insects: beetles Stenus butrintensis Scarce  
Insects: beetles Stenus canescens Scarce-B  
Insects: beetles Rugilus similis Scarce  
Insects: beetles Medon apicalis Scarce  
Insects: beetles Medon castaneus Indeterminate  
Insects: beetles Sunius melanocephalus Scarce  
Insects: beetles Scopaeus sulcicollis Endangered  
Insects: beetles Achenium humile Scarce-B  
Insects: beetles Philonthus confinis Indeterminate  
Insects: beetles Bisnius pseudoparcus Scarce  
Insects: beetles Staphylinus caesareus Indeterminate  
Insects: beetles Velleius dilatatus Hornet Rove-beetle Endangered  
Insects: beetles Quedius aetolicus Scarce-A  
Insects: beetles Quedius brevicornis Scarce-B  
Insects: beetles Quedius invreae Scarce-B  
Insects: beetles Quedius microps Scarce-B  
Insects: beetles Quedius truncicola Scarce-B  
Insects: beetles Hypnogyra angularis Scarce-A  
Insects: beetles Xantholinus elegans Scarce-A  
Insects: beetles Lucanus cervus Stag Beetle Scarce-B  
Insects: beetles Odonteus armiger Scarce-A  
Insects: beetles Aphodius sordidus Scarce-A  
Insects: beetles Aphodius zenkeri Scarce-B  
Insects: beetles Omaloplia ruricola Scarce-B  
Insects: beetles Gnorimus nobilis Noble Chafer Vulnerable  
Insects: beetles Elodes minuta Scarce  
Insects: beetles Elodes pseudominuta Scarce  
Insects: beetles Cyphon punctipennis Scarce  
Insects: beetles Agrilus angustulus Scarce

Insects: beetles *Aphanisticus pusillus* Scarce  
Insects: beetles *Trachys minuta* Near Threatened  
Insects: beetles *Trachys troglodytes* Devil's-bit Jewel Beetle Rare  
Insects: beetles *Melasis buprestoides* Scarce-B  
Insects: beetles *Hylis olexai* Rare  
Insects: beetles *Eucnemis capucina* Endangered  
Insects: beetles *Aulonothroscus brevicollis* Rare  
Insects: beetles *Lacon querceus* a click beetle Endangered  
Insects: beetles *Paraphotistus nigricornis* Rare  
Insects: beetles *Athous campyloides* Scarce-B  
Insects: beetles *Ampedus cardinalis* Cardinal Click Beetle Vulnerable  
Insects: beetles *Ampedus elongantulus* Scarce-A  
Insects: beetles *Ampedus rufipennis* Vulnerable  
Insects: beetles *Prokraerus tibialis* Rare  
Insects: beetles *Oedostethus quadripustulatus* Scarce-A  
Insects: beetles *Ancistronycha abdominalis* Blue Soldier Beetle Scarce  
Insects: beetles *Rhagonycha lutea* Scarce  
Insects: beetles *Rhagonycha translucida* Scarce  
Insects: beetles *Malthinus frontalis* Scarce  
Insects: beetles *Malthodes fibulatus* Scarce  
Insects: beetles *Malthodes maurus* Scarce  
Insects: beetles *Malthodes pumilus* Scarce  
Insects: beetles *Trinodes hirtus* Rare  
Insects: beetles *Globicornis rufitarsis* Endangered  
Insects: beetles *Ctesias serra* Cobweb Beetle Scarce-B  
Insects: beetles *Hedobia imperialis* Scarce-B  
Insects: beetles *Ptinus sexpunctatus* Scarce-B  
Insects: beetles *Anobium inexpectatum* Scarce-B  
Insects: beetles *Anobium nitidum* Indeterminate  
Insects: beetles *Dorcatoma dresdensis* Scarce-A  
Insects: beetles *Dorcatoma flavicornis* Scarce-B  
Insects: beetles *Anitya rubens* Scarce-B  
Insects: beetles *Lymexylon navale* Scarce  
Insects: beetles *Phloiophilus edwardsii* Scarce  
Insects: beetles *Tillus elongatus* Scarce  
Insects: beetles *Opilo mollis* Scarce  
Insects: beetles *Kyklioacalles roboris* Scarce-B  
Insects: beetles *Bagous limosus* Scarce-B  
Insects: beetles *Orthochaetes setiger* Scarce-B  
Insects: beetles *Neophytobius quadrinodosus* Scarce-  
Insects: beetles *Korynetes caeruleus* Scarce  
Insects: beetles *Dasytes plumbeus* Scarce  
Insects: beetles *Malachius aeneus* Near Threatened  
Insects: beetles *Anthocomus fasciatus* Scarce  
Insects: beetles *Sphindus dubius* Scarce-B  
Insects: beetles *Epuraea guttata* Scarce-B  
Insects: beetles *Epuraea longula* Scarce-B  
Insects: beetles *Epuraea silacea* Rare

Insects: beetles *Epuraea terminalis* Indeterminate Scarce  
Insects: beetles *Meligethes atramentarius* Scarce  
Insects: beetles *Meligethes solidus* Scarce  
Insects: beetles *Cryptarcha strigata* Scarce-B  
Insects: beetles *Cryptarcha undata* Scarce-B  
Insects: beetles *Rhizophagus nitidulus* Scarce-B  
Insects: beetles *Monotoma angusticollis* Rare  
Insects: beetles *Uleiota planatus* Scarce-A  
Insects: beetles *Pediacus depressus* Scarce-A  
Insects: beetles *Notolaemus unifasciatus* Scarce-A  
Insects: beetles *Leptophloeus clematidis* Endangered  
Insects: beetles *Cryptophagus badius* Indeterminate  
Insects: beetles *Cryptophagus confusus* Insufficiently Known  
Insects: beetles *Cryptophagus labilis* Scarce  
Insects: beetles *Cryptophagus micaceus* Insufficiently Known  
Insects: beetles *Atomaria fimetarii* Scarce  
Insects: beetles *Atomaria strandi* Scarce  
Insects: beetles *Diplocoelus fagi* Scarce-B  
Insects: beetles *Teredus cylindricus* Endangered  
Insects: beetles *Oxylaemus variolosus* Rare  
Insects: beetles *Cerylon fagi* Scarce-B  
Insects: beetles *Lycoperdina bovista* Rare  
Insects: beetles *Symbiotes latus* Scarce-B  
Insects: beetles *Scymnus schmidti* Scarce-B  
Insects: beetles *Coccinella magnifica* Scarce 7-spot Ladybird Scarce-A  
Insects: beetles *Hippodamia variegata* Adonis' Ladybird Scarce-B  
Insects: beetles *Orthoperus aequalis* Insufficiently Known  
Insects: beetles *Orthoperus nigrescens* Scarce-B  
Insects: beetles *Enicmus brevicornis* Scarce  
Insects: beetles *Enicmus rugosus* Scarce  
Insects: beetles *Latridius consimilis* Scarce  
Insects: beetles *Corticaria alleni* Scarce  
Insects: beetles *Mycetophagus piceus* Scarce-B  
Insects: beetles *Cis festivus* Scarce-B  
Insects: beetles *Strigocis bicornis* Scarce-B  
Insects: beetles *Tetratoma desmarestii* Scarce-A  
Insects: beetles *Hallomenus binotatus* Scarce-B  
Insects: beetles *Orchesia micans* Scarce-B  
Insects: beetles *Orchesia minor* Scarce-B  
Insects: beetles *Melandrya caraboides* Scarce-B  
Insects: beetles *Hypulus quercinus* Vulnerable  
Insects: beetles *Phloiotrya vaudoueri* Scarce-B  
Insects: beetles *Abdera biflexuosa* Scarce-B  
Insects: beetles *Abdera quadrifasciata* Scarce-A  
Insects: beetles *Anisoxya fuscula* Scarce-A  
Insects: beetles *Conopalpus testaceus* Scarce-B  
Insects: beetles *Osphya bipunctata* Rare  
Insects: beetles *Tomoxia bucephala* Scarce-A

Insects: beetles *Mordellistena brevicauda* Insufficiently Known  
Insects: beetles *Mordellistena humeralis* Insufficiently Known  
Insects: beetles *Mordellistena neuwaldeggiana* Insufficiently Known  
Insects: beetles *Synchita humeralis* Scarce-B  
Insects: beetles *Cicones undatus* Endangered  
Insects: beetles *Cicones variegatus* Scarce-A  
Insects: beetles *Colydium elongatum* Rare  
Insects: beetles *Aulonium trisulcus* Scarce-A  
Insects: beetles *Helops caeruleus* Scarce-B  
Insects: beetles *Prionychus ater* Scarce-B  
Insects: beetles *Mycetochara humeralis* Scarce-A  
Insects: beetles *Scaphidema metallicum* Scarce-B  
Insects: beetles *Eledona agricola* Scarce-B  
Insects: beetles *Diaperis boleti* Vulnerable  
Insects: beetles *Ischnomera sanguinicollis* Scarce-B  
Insects: beetles *Ischnomera caerulea* Rare  
Insects: beetles *Ischnomera cinerascens* Vulnerable  
Insects: beetles *Ischnomera cyanea* Scarce-B  
Insects: beetles *Oedemera femoralis* Scarce-B  
Insects: beetles *Meloe proscarabaeus*  
Insects: beetles *Pyrochroa coccinea* Black-headed Cardinal Beetle Scarce-B  
Insects: beetles *Lissodema cursor* Scarce-A  
Insects: beetles *Lissodema denticolle* Scarce-B  
Insects: beetles *Rabocerus gabrieli* Scarce-B  
Insects: beetles *Omonadus bifasciatus* Scarce-B  
Insects: beetles *Vanonus brevicornis* Vulnerable  
Insects: beetles *Euglenes oculatus* Scarce-B  
Insects: beetles *Aderus populneus* Scarce-B  
Insects: beetles *Scryptia fuscata* Endangered  
Insects: beetles *Scryptia testacea* Rare  
Insects: beetles *Anaspis thoracica* Indeterminate Scarce-A  
Insects: beetles *Prionus coriarius* Sawyer Beetle Scarce-A  
Insects: beetles *Stictoleptura scutellata* Scarce-A  
Insects: beetles *Glaphyra umbellatarum* Scarce-A  
Insects: beetles *Pyrrhidium sanguineum* Vulnerable  
Insects: beetles *Anaglyptus mysticus* Scarce-B  
Insects: beetles *Mesosa nebulosa* Rare  
Insects: beetles *Phytoecia cylindrica* Scarce-B  
Insects: beetles *Bruchus atomarius* Scarce-B  
Insects: beetles *Donacia cinerea* Scarce-B  
Insects: beetles *Donacia clavipes* Scarce-B  
Insects: beetles *Cassida prasina* Scarce-B  
Insects: beetles *Chrysolina oricalcia* Scarce-B  
Insects: beetles *Chrysolina sanguinolenta* Toadflax Leaf Beetle Scarce-A  
Insects: beetles *Chrysolina sturmi* Scarce-B  
Insects: beetles *Gonioctena decemnotata* Scarce-B  
Insects: beetles *Phyllotreta vittula* Scarce-A  
Insects: beetles *Longitarsus ballotae* Scarce-B

Insects: beetles *Longitarsus dorsalis* Scarce-B  
Insects: beetles *Longitarsus parvulus* Scarce-A  
Insects: beetles *Longitarsus pratensis* Insufficiently Known  
Insects: beetles *Altica brevicollis* Scarce-A  
Insects: beetles *Lythraia salicariae* Scarce-B  
Insects: beetles *Epitrix atropae* Scarce-B  
Insects: beetles *Podagrica fuscicornis* Scarce-B  
Insects: beetles *Mantura obtusata* Scarce-B  
Insects: beetles *Mantura rustica* Scarce-B  
Insects: beetles *Apteropeda globosa* Scarce-B  
Insects: beetles *Psylliodes luteola* Insufficiently Known  
Insects: beetles *Cryptocephalus aureolus* Scarce-B  
Insects: beetles *Cryptocephalus bipunctatus* Scarce-B  
Insects: beetles *Platyrhinus resinosus* Cramp-ball Fungus Weevil Scarce-B  
Insects: beetles *Platystomos albinus* Scarce-B  
Insects: beetles *Anthribus fasciatus* Scarce-A  
Insects: beetles *Anthribus nebulosus* Scarce-B  
Insects: beetles *Involvulus cupreus* Scarce-B  
Insects: beetles *Lasiornychites cavifrons* Scarce-B  
Insects: beetles *Squamapion flavimanum* Scarce-A  
Insects: beetles *Protapion filirostre* Scarce-B  
Insects: beetles *Protapion varipes* Scarce-B  
Insects: beetles *Oxystoma cerdo* Scarce-B  
Insects: beetles *Dryophthorus corticalis* Wood-boring Weevil Endangered  
Insects: beetles *Notaris scirpi* Scarce-B  
Insects: beetles *Polydrusus marginatus* Vulnerable  
Insects: beetles *Polydrusus formosus* Scarce-A  
Insects: beetles *Polydrusus flavipes* Scarce-B  
Insects: beetles *Tropiphorus obtusus* Scarce-A  
Insects: beetles *Sitona macularius* Scarce-B  
Insects: beetles *Hypera meles* Scarce-A  
Insects: beetles *Cionus nigritarsis* Scarce-A  
Insects: beetles *Magdalis cerasi* Scarce-B  
Insects: beetles *Cossonus linearis* Scarce-A  
Insects: beetles *Stereocorynes truncorum* Scarce-A  
Insects: beetles *Cryptorhynchus lapathi* Willow Beetle Scarce-B  
Insects: beetles *Acalles ptinoides* Scarce-B  
Insects: beetles *Drupenatus nasturtii* Scarce-B  
Insects: beetles *Coeliodes transversealbofasciatus* Scarce-B  
Insects: beetles *Coeliodes ruber* Scarce-B  
Insects: beetles *Thamiocolus viduatus* Scarce-B  
Insects: beetles *Microplontus campestris* Scarce-B  
Insects: beetles *Hadroplontus trimaculatus* Scarce-B  
Insects: beetles *Ceutorhynchus constrictus* Scarce-B  
Insects: beetles *Ceutorhynchus unguicularis* Rare  
Insects: beetles *Sirocalodes quercicola* Scarce-A  
Insects: beetles *Stenocarus ruficornis* Scarce-B  
Insects: beetles *Anthonomus chevrolati* Insufficiently Known

Insects: beetles *Curculio rubidus* Scarce-B  
Insects: beetles *Curculio villosus* Scarce-B  
Insects: beetles *Gymnetron villosulum* Scarce-B  
Insects: beetles *Scolytus mali* Large Fruit Bark Beetle Scarce-B  
Insects: beetles *Dryocoetinus alni* Scarce-A  
Insects: beetles *Taphrorychus bicolor* Scarce-A  
Insects: beetles *Xyleborus dispar* Scarce-B  
Insects: beetles *Xyleborus dryographus* Scarce-B  
Insects: beetles *Trypophloeus binodulus* Scarce-A  
Insects: beetles *Ernoporicus fagi* Scarce-A  
Insects: beetles *Platypus cylindrus* Oak Pin-hole Borer Scarce-B  
Insects: beetles *Ophonus ardosiacus* Scarce-B  
Insects: beetles *Eutheia plicata* Insufficiently Known  
Insects: beetles *Eutheia scydmaenoides* Scarce  
Insects: beetles *Scydmorephes sparshalli* Insufficiently Known  
Insects: beetles *Stenichnus godarti* Rare  
Insects: beetles *Microscydms nanus* Scarce  
Insects: beetles *Scydmaenus rufus* Vulnerable

Insects: caddisflies *Anabolia brevipennis* Scarce  
Insects: caddisflies *Ceraclea senilis* Scarce

Insects: dragonflies, damselflies *Ischnura pumilio* Scarce Blue-tailed Damselfly Near Threatened  
Insects: dragonflies, damselflies *Coenagrion pulchellum* Variable Damselfly Near Threatened  
Insects: dragonflies, damselflies *Gomphus vulgatissimus* Club-tailed Dragonfly Near Threatened  
Insects: dragonflies, damselflies *Aeshna caerulea* Azure Hawker Vulnerable  
Insects: dragonflies, damselflies *Somatochlora metallica* Brilliant Emerald Vulnerable

Insects: flies *Ctenophora ornata* Endangered  
Insects: flies *Ctenophora flaveolata* Vulnerable  
Insects: flies *Ctenophora pectinicornis* Scarce  
Insects: flies *Prionocera subserricornis* Vulnerable  
Insects: flies *Tipula helvola* Scarce  
Insects: flies *Tipula livida* Scarce  
Insects: flies *Tipula peliostigma* Scarce  
Insects: flies *Tipula selene* Rare  
Insects: flies *Tipula gimmerthali* Rare  
Insects: flies *Tipula hortorum* Rare  
Insects: flies *Cheilotrichia imbuta* Scarce  
Insects: flies *Atypophthalmus inustus* Scarce  
Insects: flies *Dicranomyia chorea* Rare  
Insects: flies *Limonia nigropunctata* Rare  
Insects: flies *Thaumastoptera calceata* Scarce  
Insects: flies *Ditomyia fasciata* Scarce  
Insects: flies *Keroplatus testaceus* Scarce  
Insects: flies *Brachypeza armata* Scarce  
Insects: flies *Exechiopsis membranacea* Scarce  
Insects: flies *Cladoneura hirtipenne* Scarce

Insects: flies *Orthopodomyia pulcripalpis* Near Threatened  
Insects: flies *Atylotus rusticus* Endangered  
Insects: flies *Chorisops nagatomii* Scarce  
Insects: flies *Oxycera morrisii* Scarce  
Insects: flies *Vanoyia tenuicornis* Scarce  
Insects: flies *Stratiomys potamida* Scarce  
Insects: flies *Stratiomys singularior* Scarce  
Insects: flies *Ogcodes pallipes* Scarce  
Insects: flies *Bombylius discolor* Scarce  
Insects: flies *Villa cingulata* Endangered  
Insects: flies *Pandivirilia melaleuca* Endangered  
Insects: flies *Scenopinus niger* Scarce  
Insects: flies *Asilus crabroniformis* Hornet Robberfly Scarce  
Insects: flies *Pamponerus germanicus* Rare  
Insects: flies *Choerades marginatus* Scarce  
Insects: flies *Dioctria oelandica* Scarce  
Insects: flies *Syndyas nigripes* Near Threatened  
Insects: flies *Stilpon sublunatus* Scarce  
Insects: flies *Platypalpus sylvicola* Near Threatened  
Insects: flies *Empis woodi* Scarce  
Insects: flies *Hilara albitarsis* Scarce  
Insects: flies *Dryodromya testacea* Scarce  
Insects: flies *Melanostolus melancholicus* Scarce  
Insects: flies *Dolichopus agilis* Scarce  
Insects: flies *Hercostomus plagiatus* Scarce  
Insects: flies *Campsicnemus pumilio* Scarce  
Insects: flies *Agathomyia elegantula* Scarce  
Insects: flies *Agathomyia wankowiczii* Scarce  
Insects: flies *Platycheirus immarginatus* Scarce  
Insects: flies *Platycheirus melanopsis* Rare  
Insects: flies *Platycheirus scutatus sens. lat.* Scarce  
Insects: flies *Didea fasciata* Scarce  
Insects: flies *Eupeodes bucculatus* Scarce  
Insects: flies *Eupeodes nitens* Scarce  
Insects: flies *Parasyrphus nigratarsis* Endangered  
Insects: flies *Callicera aurata* Rare  
Insects: flies *Cheilosia barbata* Scarce  
Insects: flies *Cheilosia chrysocoma* Rare  
Insects: flies *Cheilosia nigripes* Rare  
Insects: flies *Cheilosia soror* Scarce  
Insects: flies *Ferdinanda ruficornis* Scarce  
Insects: flies *Rhingia rostrata* Vulnerable  
Insects: flies *Brachyopa pilosa* Scarce  
Insects: flies *Neoascia geniculata* Scarce  
Insects: flies *Orthonevra brevicornis* Scarce  
Insects: flies *Sphegina verecunda* Scarce  
Insects: flies *Eumerus ornatus* Scarce  
Insects: flies *Pipizella virens* Scarce



Insects: flies *Triglyphus primus* Scarce  
Insects: flies *Volucella inanis* Scarce  
Insects: flies *Volucella inflata* Scarce  
Insects: flies *Volucella zonaria* Scarce  
Insects: flies *Brachypalpus laphriformis* Scarce  
Insects: flies *Criorhina ranunculi* Scarce  
Insects: flies *Xylota jakutorum* Scarce  
Insects: flies *Xylota xanthocnema* Scarce  
Insects: flies *Microdon devius* Vulnerable  
Insects: flies *Nephrocerus scutellatus* Near Threatened  
Insects: flies *Eudorylas arcanus* Near Threatened  
Insects: flies *Dasydorylas horridus* Scarce  
Insects: flies *Eudorylas zermattensis* Scarce  
Insects: flies *Megamerina dolium* Scarce  
Insects: flies *Leopoldius brevisrostris* Vulnerable  
Insects: flies *Leopoldius signatus* Scarce  
Insects: flies *Myopa pellucida* Rare  
Insects: flies *Dasiops spatiosus* Scarce  
Insects: flies *Lonchaea iona* Scarce  
Insects: flies *Acinia corniculata* Endangered  
Insects: flies *Campiglossa malaris* Endangered  
Insects: flies *Merzomyia westermanni* Scarce  
Insects: flies *Oxyna nebulosa* Rare  
Insects: flies *Trypeta zoe* Endangered  
Insects: flies *Sapromyza quadricincta* Scarce  
Insects: flies *Pherbellia annulipes* Scarce  
Insects: flies *Pherbellia dorsata* Scarce  
Insects: flies *Pherbellia griseola* Scarce  
Insects: flies *Dichetophora finlandica* Rare  
Insects: flies *Psacadina verbekei* Scarce  
Insects: flies *Tetanocera phyllophora* Scarce  
Insects: flies *Tetanocera punctifrons* Scarce  
Insects: flies *Clusia tigrina* Vulnerable  
Insects: flies *Lasiochaeta pubescens* Scarce  
Insects: flies *Morpholeria dudai* Rare  
Insects: flies *Philygria semialata* Insufficiently Known  
Insects: flies *Norellia spinipes* Scarce  
Insects: flies *Egle subarctica* Insufficiently Known  
Insects: flies *Eustalomyia hilaris* Rare  
Insects: flies *Piezura graminicola* Insufficiently Known  
Insects: flies *Lispocephala falculata* Rare Scarce  
Insects: flies *Cistogaster globosa* Endangered

Insects: Lepidoptera: butterflies *Carterocephalus palaemon* Chequered Skipper Endangered  
Insects: Lepidoptera: butterflies *Thymelicus acteon* Lulworth Skipper Near Threatened  
Insects: Lepidoptera: butterflies *Hesperia comma* Silver-spotted Skipper Near Threatened  
Insects: Lepidoptera: butterflies *Erynnis tages* Dingy Skipper Vulnerable

Insects: Lepidoptera: butterflies *Pyrgus malvae* Grizzled Skipper Vulnerable  
Insects: Lepidoptera: butterflies *Papilio machaon* Swallowtail Near Threatened  
Insects: Lepidoptera: butterflies *Leptidea sinapis* Wood White Endangered  
Insects: Lepidoptera: butterflies *Thecla betulae* Brown Hairstreak Vulnerable  
Insects: Lepidoptera: butterflies *Satyrium w-album* White-letter Hairstreak Endangered  
Insects: Lepidoptera: butterflies *Satyrium pruni* Black Hairstreak Endangered  
Insects: Lepidoptera: butterflies *Cupido minimus* Small Blue Near Threatened  
Insects: Lepidoptera: butterflies *Plebejus argus* Silver-studded Blue Vulnerable  
Insects: Lepidoptera: butterflies *Lysandra coridon* Chalkhill Blue Near Threatened  
Insects: Lepidoptera: butterflies *Lysandra bellargus* Adonis Blue Near Threatened  
Insects: Lepidoptera: butterflies *Maculinea arion* Large Blue Critically Endangered  
Insects: Lepidoptera: butterflies *Hamearis lucina* Duke of Burgundy Endangered  
Insects: Lepidoptera: butterflies *Limenitis camilla* White Admiral Vulnerable  
Insects: Lepidoptera: butterflies *Apatura iris* Purple Emperor Near Threatened  
Insects: Lepidoptera: butterflies *Nymphalis polychloros* Large Tortoiseshell Regionally Extinct  
Insects: Lepidoptera: butterflies *Boloria selene* Small Pearl-bordered Fritillary Near Threatened  
Insects: Lepidoptera: butterflies *Boloria euphrosyne* Pearl-bordered Fritillary Endangered  
Insects: Lepidoptera: butterflies *Argynnis adippe* High Brown Fritillary Critically Endangered  
Insects: Lepidoptera: butterflies *Euphydryas aurinia* Marsh Fritillary Vulnerable  
Insects: Lepidoptera: butterflies *Lasiommata megera* Wall Near Threatened  
Insects: Lepidoptera: butterflies *Hipparchia semele* Grayling Vulnerable  
Insects: Lepidoptera: butterflies *Coenonympha pamphilus* Small Heath Near Threatened  
Insects: Lepidoptera: butterflies *Coenonympha tullia* Large Heath Vulnerable

Insects: Lepidoptera: moths *Hepialus humuli* Ghost Moth  
Insects: Lepidoptera: moths *Cossus cossus* Goat Moth Scarce-B  
Insects: Lepidoptera: moths *Adscita statices* Forester  
Insects: Lepidoptera: moths *Adscita geryon* Cistus Forester Scarce-B  
Insects: Lepidoptera: moths *Jordanita globulariae* Scarce Forester Rare Scarce-A  
Insects: Lepidoptera: moths *Zygaena lonicerae* Narrow-bordered Five-spot Burnet  
Insects: Lepidoptera: moths *Apoda limacodes* Festoon Scarce-B  
Insects: Lepidoptera: moths *Heterogenea asella* Triangle Rare  
Insects: Lepidoptera: moths *Sesia apiformis* Hornet Moth Scarce-B  
Insects: Lepidoptera: moths *Synanthedon tipuliformis* Currant Clearwing Scarce-B  
Insects: Lepidoptera: moths *Synanthedon vespiformis* Yellow-legged Clearwing Scarce-B  
Insects: Lepidoptera: moths *Synanthedon flaviventris* Sallow Clearwing Scarce-B  
Insects: Lepidoptera: moths *Synanthedon andrenaeformis* Orange-tailed Clearwing Scarce-B  
Insects: Lepidoptera: moths *Synanthedon myopaeformis* Red-belted Clearwing Scarce-B  
Insects: Lepidoptera: moths *Synanthedon formicaeformis* Red-tipped Clearwing Scarce-B  
Insects: Lepidoptera: moths *Synanthedon culiciformis* Large Red-belted Clearwing Scarce-B  
Insects: Lepidoptera: moths *Bembecia ichneumoniformis* Six-belted Clearwing Scarce-B  
Insects: Lepidoptera: moths *Ethmia dodecea* Scarce-B  
Insects: Lepidoptera: moths *Metzneria neuropterella* Indeterminate  
Insects: Lepidoptera: moths *Monochroa palustrella* Scarce-B  
Insects: Lepidoptera: moths *Monochroa suffusella* Scarce  
Insects: Lepidoptera: moths *Monochroa lutulentella* Insufficiently Known  
Insects: Lepidoptera: moths *Recurvaria nanella* Scarce-B  
Insects: Lepidoptera: moths *Altenia scriptella* Scarce-B

Insects: Lepidoptera: moths *Bryotropha basaltinella* Scarce  
 Insects: Lepidoptera: moths *Mirificarma lentiginosella* Scarce  
 Insects: Lepidoptera: moths *Neofriseria singula* Insufficiently Known  
 Insects: Lepidoptera: moths *Gelechia scotinella* Insufficiently Known  
 Insects: Lepidoptera: moths *Gelechia nigra* Scarce-B  
 Insects: Lepidoptera: moths *Pexicopia malvella* Hollyhock Seed Moth Scarce-B  
 Insects: Lepidoptera: moths *Syncopacma cinctella* Scarce-B  
 Insects: Lepidoptera: moths *Dichomeris alacella* Scarce  
 Insects: Lepidoptera: moths *Acompsia schmidtellus* Scarce-B  
 Insects: Lepidoptera: moths *Stathmopoda pedella* Scarce-B  
 Insects: Lepidoptera: moths *Aethes margarotana* Vulnerable  
 Insects: Lepidoptera: moths *Calamotropha paludella* Scarce-B  
 Insects: Lepidoptera: moths *Crambus hamella* Scarce-B  
 Insects: Lepidoptera: moths *Crambus pratella* Scarce-B  
 Insects: Lepidoptera: moths *Catoptria furcatellus* Scarce-B  
 Insects: Lepidoptera: moths *Pediasia contaminella* Scarce-B  
 Insects: Lepidoptera: moths *Schoenobius gigantella* Scarce-B  
 Insects: Lepidoptera: moths *Eudonia delunella* Scarce-B  
 Insects: Lepidoptera: moths *Evergestis extimalis* Scarce-B  
 Insects: Lepidoptera: moths *Loxostege sticticalis* Extinct  
 Insects: Lepidoptera: moths *Sitochroa palealis* Scarce  
 Insects: Lepidoptera: moths *Paratalanta pandalis* Scarce-A  
 Insects: Lepidoptera: moths *Paratalanta hyalinalis* Scarce-B  
 Insects: Lepidoptera: moths *Sclerocona acutellus* Insufficiently Known  
 Insects: Lepidoptera: moths *Mecyna flavalis* Vulnerable  
 Insects: Lepidoptera: moths *Oncocera semirubella* Scarce-B  
 Insects: Lepidoptera: moths *Pempelia genistella* Scarce-A  
 Insects: Lepidoptera: moths *Elegia similella* Scarce-B  
 Insects: Lepidoptera: moths *Nephopterix angustella* Scarce-B  
 Insects: Lepidoptera: moths *Ancylosis oblitella* Scarce  
 Insects: Lepidoptera: moths *Euzophera cinerosella* Scarce-B  
 Insects: Lepidoptera: moths *Homoeosoma nebulella* Scarce-B  
 Insects: Lepidoptera: moths *Apomyeloides bistriatella* Scarce-B  
 Insects: Lepidoptera: moths *Trichiura crataegi* Pale Eggar  
 Insects: Lepidoptera: moths *Eriogaster lanestris* Small Eggar Vulnerable Scarce-B  
 Insects: Lepidoptera: moths *Malacosoma neustria* Lackey  
 Insects: Lepidoptera: moths *Lasiocampa trifolii* Grass Eggar Scarce-A  
 Insects: Lepidoptera: moths *Watsonalla binaria* Oak Hook-tip  
 Insects: Lepidoptera: moths *Cymatophorima diluta* Oak Lutestring  
 Insects: Lepidoptera: moths *Archiearis notha* Light Orange Underwing Scarce-B  
 Insects: Lepidoptera: moths *Hemistola chrysoprasaria* Small Emerald  
 Insects: Lepidoptera: moths *Cyclophora pendularia* Dingy Mocha Rare  
 Insects: Lepidoptera: moths *Cyclophora annularia* Mocha Scarce-B  
 Insects: Lepidoptera: moths *Cyclophora porata* False Mocha  
 Insects: Lepidoptera: moths *Timandra comae* Blood-vein  
 Insects: Lepidoptera: moths *Scopula marginepunctata* Mullein Wave  
 Insects: Lepidoptera: moths *Idaea dilutaria* Silky Wave Rare  
 Insects: Lepidoptera: moths *Orthonama vittata* Oblique Carpet

Insects: Lepidoptera: moths *Xanthorhoe biriviata* Balsam Carpet Rare  
 Insects: Lepidoptera: moths *Xanthorhoe decoloraria* Red Carpet  
 Insects: Lepidoptera: moths *Xanthorhoe ferrugata* Dark-barred Twin-spot Carpet  
 Insects: Lepidoptera: moths *Scotopteryx bipunctaria* Chalk Carpet Scarce-B  
 Insects: Lepidoptera: moths *Scotopteryx chenopodiata* Shaded Broad-bar  
 Insects: Lepidoptera: moths *Catarhoe rubidata* Ruddy Carpet Scarce-B  
 Insects: Lepidoptera: moths *Epirrhoe galiata* Galium Carpet  
 Insects: Lepidoptera: moths *Pelurga comitata* Dark Spinach  
 Insects: Lepidoptera: moths *Lampropteryx otregiata* Devon Carpet Scarce-B  
 Insects: Lepidoptera: moths *Eulithis mellinata* Spinach  
 Insects: Lepidoptera: moths *Ecliptopera silaceata* Small Phoenix  
 Insects: Lepidoptera: moths *Melanthia procellata* Pretty Chalk Carpet  
 Insects: Lepidoptera: moths *Rheumaptera hastata* Argent & Sable Scarce-B  
 Insects: Lepidoptera: moths *Perizoma minorata* Heath Rivulet Scarce-B  
 Insects: Lepidoptera: moths *Perizoma albulata* Grass Rivulet  
 Insects: Lepidoptera: moths *Eupithecia plumbeolata* Lead-coloured Pug Scarce-B  
 Insects: Lepidoptera: moths *Eupithecia irriguata* Marbled Pug Scarce-B  
 Insects: Lepidoptera: moths *Eupithecia insigniata* Pinion-spotted Pug Scarce-B  
 Insects: Lepidoptera: moths *Eupithecia valerianata* Valerian Pug Scarce-B  
 Insects: Lepidoptera: moths *Eupithecia egenaria* Pauper Pug Rare  
 Insects: Lepidoptera: moths *Eupithecia expallidata* Bleached Pug Scarce-B  
 Insects: Lepidoptera: moths *Eupithecia denotata* Campanula Pug Scarce-A  
 Insects: Lepidoptera: moths *Eupithecia millefoliata* Yarrow Pug Scarce-B  
 Insects: Lepidoptera: moths *Eupithecia distinctaria* Thyme Pug Scarce-B  
 Insects: Lepidoptera: moths *Chesias legatella* Streak  
 Insects: Lepidoptera: moths *Chesias rufata* Broom-tip Scarce-B  
 Insects: Lepidoptera: moths *Discoloxia blomeri* Blomer's Rivulet Scarce-B  
 Insects: Lepidoptera: moths *Minoa murinata* Drab Looper Scarce-B  
 Insects: Lepidoptera: moths *Trichopteryx polycommata* Barred Tooth-striped Scarce-A  
 Insects: Lepidoptera: moths *Chiasmia clathrata* Latticed Heath  
 Insects: Lepidoptera: moths *Itame brunneata* Rannoch Looper Scarce-A  
 Insects: Lepidoptera: moths *Macaria wauaria* V-Moth  
 Insects: Lepidoptera: moths *Cepphis advenaria* Little Thorn Scarce-B  
 Insects: Lepidoptera: moths *Pachycnemia hippocastanaria* Horse Chestnut Scarce-B  
 Insects: Lepidoptera: moths *Ennomos autumnaria* Large Thorn Scarce-B  
 Insects: Lepidoptera: moths *Ennomos quercinaria* August Thorn  
 Insects: Lepidoptera: moths *Ennomos fuscantaria* Dusky Thorn  
 Insects: Lepidoptera: moths *Ennomos erosaria* September Thorn  
 Insects: Lepidoptera: moths *Lycia hirtaria* Brindled Beauty  
 Insects: Lepidoptera: moths *Peribatodes secundaria* Feathered Beauty Rare  
 Insects: Lepidoptera: moths *Hypomecis roboraria* Great Oak Beauty Scarce-B  
 Insects: Lepidoptera: moths *Hemaris tityus* Narrow-bordered Bee Hawk Scarce-A  
 Insects: Lepidoptera: moths *Hemaris fuciformis* Broad-bordered Bee Hawk Scarce-B  
 Insects: Lepidoptera: moths *Ptilophora plumigera* Plumed Prominent Scarce-A  
 Insects: Lepidoptera: moths *Clostera pigra* Small Chocolate-tip Scarce-B  
 Insects: Lepidoptera: moths *Diloba caeruleocephala* Figure of Eight  
 Insects: Lepidoptera: moths *Lymantria dispar* Gypsy Moth Extinct  
 Insects: Lepidoptera: moths *Eilema caniola* Hoary Footman Scarce-B

Insects: Lepidoptera: moths *Eilema complana* Scarce Footman Rare  
 Insects: Lepidoptera: moths *Arctia caja* Garden Tiger  
 Insects: Lepidoptera: moths *Spilosoma lubricipeda* White Ermine  
 Insects: Lepidoptera: moths *Spilosoma luteum* Buff Ermine  
 Insects: Lepidoptera: moths *Spilosoma urticae* Water Ermine Scarce-B  
 Insects: Lepidoptera: moths *Euplagia quadripunctaria* Jersey Tiger Scarce-B  
 Insects: Lepidoptera: moths *Tyria jacobaeae* Cinnabar  
 Insects: Lepidoptera: moths *Meganola strigula* Small Black Arches Scarce-A  
 Insects: Lepidoptera: moths *Meganola albula* Kent Black Arches Scarce-B  
 Insects: Lepidoptera: moths *Euxoa obelisca* Square-spot Dart Scarce-B  
 Insects: Lepidoptera: moths *Euxoa tritici* White-line Dart  
 Insects: Lepidoptera: moths *Euxoa nigricans* Garden Dart  
 Insects: Lepidoptera: moths *Agrotis cinerea* Light Feathered Rustic Scarce-B  
 Insects: Lepidoptera: moths *Noctua orbona* Lunar Yellow Underwing Scarce-B  
 Insects: Lepidoptera: moths *Graphiphora augur* Double Dart  
 Insects: Lepidoptera: moths *Eugnorisma glareosa* Autumnal Rustic  
 Insects: Lepidoptera: moths *Diarsia rubi* Small Square-spot  
 Insects: Lepidoptera: moths *Xestia rhomboidea* Square-spotted Clay Scarce-B  
 Insects: Lepidoptera: moths *Xestia castanea* Neglected Rustic  
 Insects: Lepidoptera: moths *Xestia agathina* Heath Rustic  
 Insects: Lepidoptera: moths *Eurois occulta* Great Brocade Scarce-A  
 Insects: Lepidoptera: moths *Polia bombycina* Pale Shining Brown Scarce-B  
 Insects: Lepidoptera: moths *Polia trimaculosa* Silvery Arches Scarce-B  
 Insects: Lepidoptera: moths *Heliophobus reticulata* Bordered Gothic Scarce-A  
 Insects: Lepidoptera: moths *Melanchra persicariae* Dot Moth  
 Insects: Lepidoptera: moths *Melanchra pisi* Broom Moth  
 Insects: Lepidoptera: moths *Hecatera dysodea* Small Ranunculus Extinct  
 Insects: Lepidoptera: moths *Tholera cespitis* Hedge Rustic  
 Insects: Lepidoptera: moths *Tholera decimalis* Feathered Gothic  
 Insects: Lepidoptera: moths *Orthosia gracilis* Powdered Quaker  
 Insects: Lepidoptera: moths *Mythimna turca* Double Line Scarce-B  
 Insects: Lepidoptera: moths *Mythimna comma* Shoulder-striped Wainscot  
 Insects: Lepidoptera: moths *Cucullia absinthii* Wormwood Scarce-B  
 Insects: Lepidoptera: moths *Shargacucullia lychnitis* Striped Lychnis Scarce-A  
 Insects: Lepidoptera: moths *Calophasia lunula* Toadflax Brocade Rare  
 Insects: Lepidoptera: moths *Brachylochia viminalis* Minor Shoulder-knot  
 Insects: Lepidoptera: moths *Asteroscopus sphinx* Sprawler  
 Insects: Lepidoptera: moths *Aporophyla lutulenta* Deep-brown Dart  
 Insects: Lepidoptera: moths *Allophyes oxyacanthae* Green-brindled Crescent  
 Insects: Lepidoptera: moths *Blepharita adusta* Dark Brocade  
 Insects: Lepidoptera: moths *Conistra rubiginea* Dotted Chestnut Scarce-B  
 Insects: Lepidoptera: moths *Agrochola helvola* Flounced Chestnut  
 Insects: Lepidoptera: moths *Agrochola litura* Brown-spot Pinion  
 Insects: Lepidoptera: moths *Agrochola lychnidis* Beaded Chestnut  
 Insects: Lepidoptera: moths *Atethmia centrargo* Centre-barred Sallow  
 Insects: Lepidoptera: moths *Xanthia icteritia* Sallow  
 Insects: Lepidoptera: moths *Xanthia gilvago* Dusky-lemon Sallow

Insects: Lepidoptera: moths *Xanthia ocellaris* Pale-lemon Sallow Scarce-A  
Insects: Lepidoptera: moths *Acronicta psi* Grey Dagger  
Insects: Lepidoptera: moths *Acronicta rumicis* Knot Grass  
Insects: Lepidoptera: moths *Amphipyra tragopoginis* Mouse Moth  
Insects: Lepidoptera: moths *Enargia paleacea* Angle-striped Sallow Scarce-B  
Insects: Lepidoptera: moths *Dicycla oo* Heart Moth Rare  
Insects: Lepidoptera: moths *Cosmia diffinis* White-spotted Pinion Scarce-A  
Insects: Lepidoptera: moths *Apamea oblonga* Crescent Striped Scarce-B  
Insects: Lepidoptera: moths *Apamea remissa* Dusky Brocade  
Insects: Lepidoptera: moths *Apamea anceps* Large Nutmeg  
Insects: Lepidoptera: moths *Mesoligia literosa* Rosy Minor  
Insects: Lepidoptera: moths *Chortodes fluxa* Mere Wainscot Scarce-B  
Insects: Lepidoptera: moths *Amphipoea oculea* Ear Moth  
Insects: Lepidoptera: moths *Hydraecia micacea* Rosy Rustic  
Insects: Lepidoptera: moths *Celaena leucostigma* Crescent  
Insects: Lepidoptera: moths *Archanara sparganii* Webb's Wainscot Scarce-B  
Insects: Lepidoptera: moths *Rhizedra lutosa* Large Wainscot  
Insects: Lepidoptera: moths *Oria musculosa* Brighton Wainscot Scarce-A  
Insects: Lepidoptera: moths *Hoplodrina blanda* Rustic  
Insects: Lepidoptera: moths *Caradrina morpheus* Mottled Rustic  
Insects: Lepidoptera: moths *Elaphria venustula* Rosy Marbled Scarce-B  
Insects: Lepidoptera: moths *Periphanes delphinii* Pease Blossom Extinct  
Insects: Lepidoptera: moths *Earias clorana* Cream-bordered Green Pea Scarce-B  
Insects: Lepidoptera: moths *Diachrysia chryson* Scarce Burnished Brass Scarce-A  
Insects: Lepidoptera: moths *Catocala promissa* Light Crimson Underwing Rare  
Insects: Lepidoptera: moths *Catocala sponsa* Dark Crimson Underwing Rare  
Insects: Lepidoptera: moths *Tyta luctuosa* Four-spotted Vulnerable Scarce-A  
Insects: Lepidoptera: moths *Parascotia fuliginaria* Waved Black Scarce-B  
Insects: Lepidoptera: moths *Hypena rostralis* Buttoned Snout Scarce-B  
Insects: Lepidoptera: moths *Schrankia taenialis* White lined Snout Scarce-B  
Insects: Lepidoptera: moths *Hypenodes humidalis* Marsh Oblique-barred Scarce-B  
Insects: Lepidoptera: moths *Pechipogo strigilata* Common Fan-foot Scarce-A  
Insects: Lepidoptera: moths *Macrochilo cribrumalis* Dotted Fan-foot Scarce-B  
Insects: Lepidoptera: moths *Trisateles emortualis* Olive Crescent Rare

Insects: mayflies *Ephemera lineata* Vulnerable

Insects: stoneflies *Nemoura dubitans* Scarce

Insects: stoneflies *Taeniopteryx nebulosa* Threatened

Insects: true bugs *Pediopsis tiliae* Scarce-B

Insects: true bugs *Macropsis glandacea* Insufficiently Known Scarce-B

Insects: true bugs *Austroagallia sinuata* Insufficiently Known

Insects: true bugs *Anoscopus albifrons* Scarce-B

Insects: true bugs *Psammotettix nodosus* Insufficiently Known

Insects: true bugs *Cicadula flori* Scarce-B

Insects: true bugs *Kybos calyculus* Scarce-B

Insects: true bugs *Micronecta minutissima* Rare

Insects: true bugs *Eurhadina ribauti* Scarce-B  
Insects: true bugs *Asiraca clavicornis* Scarce-B  
Insects: true bugs *Chloriona vasconica* Scarce-B  
Insects: true bugs *Criomorphus williamsi* Scarce-B  
Insects: true bugs *Laodelphax striatellus* Scarce-A  
Insects: true bugs *Florodelphax paryphasma* Scarce-A  
Insects: true bugs *Scottianella dalei* Scarce-B  
Insects: true bugs *Tettigometra impressopunctata* Scarce-B  
Insects: true bugs *Aquarius paludum* Scarce-B  
Insects: true bugs *Hebrus pusillus* Scarce-B  
Insects: true bugs *Microvelia pygmaea* Scarce-B  
Insects: true bugs *Anthocoris minki minki* Rare  
Insects: true bugs *Drymus latus* Scarce-B  
Insects: true bugs *Drymus pumilio* Scarce-B  
Insects: true bugs *Eremocoris fenestratus* Endangered  
Insects: true bugs *Megalonotus antennatus* Scarce-B  
Insects: true bugs *Scolopostethus pictus* Scarce-A  
Insects: true bugs *Myrmedobia coleoptrata* Scarce-B  
Insects: true bugs *Amblytylus brevicollis* Scarce-B  
Insects: true bugs *Capsus wagneri* Scarce-B  
Insects: true bugs *Deraeocoris olivaceus* Scarce-B  
Insects: true bugs *Dichrooscytus gustavi* Scarce-B  
Insects: true bugs *Lygus pratensis* Rare  
Insects: true bugs *Catoplatus fabricii* Scarce-B  
Insects: true bugs *Tingis reticulata* Scarce-B  
Insects: true bugs *Bathysolen nubilus* Scarce-B  
Insects: true bugs *Gonocerus acuteangulatus* Endangered  
Insects: true bugs *Adomerus biguttatus* Scarce-B  
Insects: true bugs *Pyrrhocoris apterus* Endangered  
Insects: true bugs *Stictopleurus abutilon* Extinct  
Insects: true bugs *Stictopleurus punctatonervosus* Extinct  
Insects: true bugs *Dicranocephalus medius* Scarce-B

Invertebrates: crustaceans *Austropotamobius pallipes* Freshwater White-clawed

Invertebrates: molluscs *Valvata macrostoma* Large-mouthed Valve Snail Vulnerable

Invertebrates: molluscs *Lymnaea glabra* Mud Pond Snail Vulnerable

Invertebrates: molluscs *Myxas glutinosa* Glutinous Snail

Invertebrates: molluscs *Gyraulus acronicus* Thames Ram's-horn Vulnerable

Invertebrates: molluscs *Segmentina nitida* Shining Ram's-horn Endangered

Invertebrates: molluscs *Helix pomatia* Roman Snail

Invertebrates: molluscs *Pseudanodonta complanata* Compressed River Mussel

Invertebrates: molluscs *Pisidium tenuilineatum* Freshwater Pea Mussel Rare

Invertebrates: spiders and allies *Hyptiotes paradoxus* Rare

Invertebrates: spiders and allies *Tapinocyboides pygmaeus* Rare

Invertebrates: spiders and allies *Dendrochernes cyrneus* Rare

Invertebrates: spiders and allies *Saaristoa firma*

Invertebrates: spiders and allies Xysticus luctator Vulnerable

Invertebrates: spiders and allies Ozyptila nigrita

Lichens Acarospora glaucocarpa a lichen Scarce  
Lichens Anaptychia ciliaris subsp. ciliaris a lichen Vulnerable Scarce  
Lichens Pyrenocollema monense a lichen Scarce  
Lichens Lecania cuprea a lichen Scarce  
Lichens Bacidia friesiana a lichen Scarce  
Lichens Bacidia incompta a lichen Vulnerable  
Lichens Caloplaca chalybaea a lichen Scarce  
Lichens Caloplaca ferruginea a lichen Scarce  
Lichens Caloplaca luteoalba a lichen Vulnerable Scarce  
Lichens Fellhanera bouteillei a lichen Scarce  
Lichens Chaenotheca chlorella a lichen Near Threatened Scarce  
Lichens Chaenotheca phaeocephala a lichen Critically Endangered Rare  
Lichens Chrysothrix chrysophthalma a lichen Near Threatened Rare  
Lichens Cladonia chlorophaea a lichen Scarce  
Lichens Cladonia portentosa a lichen  
Lichens Ramonia interjecta a lichen Scarce  
Lichens Gyalecta flotowii a lichen Near Threatened Scarce  
Lichens Lecania cyrtella a lichen Rare  
Lichens Lecanora atosulphurea a lichen Near Threatened Rare  
Lichens Lecidea lichenicola a lichen Scarce  
Lichens Clauzadea metzleri a lichen Scarce  
Lichens Lecanora albella a lichen Scarce  
Lichens Lepraria crassissima a lichen Rare  
Lichens Melaspilea ochrothalamia a lichen Scarce  
Lichens Micarea prasina a lichen Scarce  
Lichens Normandina pulchella a lichen Rare  
Lichens Opegrapha mougeotii a lichen Scarce  
Lichens Peltigera polydactyla a lichen Scarce  
Lichens Pertusaria hemisphaerica a lichen Vulnerable Scarce  
Lichens Pertusaria pustulata a lichen Vulnerable Rare  
Lichens Polyblastia dermatodes a lichen Scarce  
Lichens Pyrenula nitida a lichen Vulnerable Rare  
Lichens Pyrenula nitidella a lichen Extinct  
Lichens Thelidium minutulum a lichen Scarce  
Lichens Usnea florida a lichen Near Threatened  
Lichens Verrucaria dufourii a lichen Scarce  
Lichens Verrucaria glaucina a lichen Scarce  
Lichens Verrucaria murina a lichen Scarce  
Lichens Cyphelium sessile a lichenicolous fungi Scarce  
Lichens Parmelia subargentifera a lichen Endangered Rare  
Lichens Macentina stigonemoides a lichen Scarce  
Lichens Lepraria nivalis a lichen Scarce  
Lichens Opegrapha parasitica a lichenicolous fungi Rare



Mammals Chiroptera sp. a bat species  
 Mammals Vespertilionidae sp. evening or vesper bat sp.  
 Mammals Erinaceus europaeus Hedgehog  
 Mammals Rhinolophus ferrumequinum Greater Horseshoe Bat  
 Mammals Rhinolophus hipposideros Lesser Horseshoe Bat  
 Mammals Barbastella barbastellus Western Barbastelle  
 Mammals Eptesicus serotinus Serotine  
 Mammals Myotis bechsteinii Bechstein's Bat  
 Mammals Myotis brandtii Brandt's Bat  
 Mammals Myotis daubentonii Daubenton's Bat  
 Mammals Myotis mystacinus Whiskered Bat  
 Mammals Myotis mystacinus/brandtii Whiskered / Brandt's Bat  
 Mammals Myotis nattereri Natterer's Bat  
 Mammals Myotis sp. Myotis bat sp  
 Mammals Nyctalus leisleri Leisler's Bat  
 Mammals Nyctalus noctula Noctule Bat  
 Mammals Pipistrellus nathusii Nathusius's Pipistrelle  
 Mammals Pipistrellus pipistrellus Common Pipistrelle  
 Mammals Pipistrellus sp. Pipistrelle species  
 Mammals Pipistrellus pygmaeus Soprano Pipistrelle  
 Mammals Plecotus auritus Brown Long-eared Bat  
 Mammals Plecotus sp. Long-eared bats  
 Mammals Lutra lutra Otter  
 Mammals Meles meles Badger Badgers Act  
 Mammals Martes martes Pine Marten  
 Mammals Mustela putorius Western Polecat  
 Mammals Sciurus vulgaris Red Squirrel  
 Mammals Arvicola amphibius Water Vole  
 Mammals Micromys minutus Harvest Mouse  
 Mammals Muscardinus avellanarius Hazel Dormouse  
 Mammals Lepus europaeus Brown Hare

Plants Hyoscyamus niger Henbane Vulnerable  
 Plants Hypericum montanum Pale St John's-wort Near Threatened  
 Plants Iberis amara Wild Candytuft Vulnerable Scarce  
 Plants Impatiens noli-tangere Touch-me-not Balsam Scarce  
 Plants Isatis tinctoria Woad Scarce  
 Plants Juncus acutus Sharp Rush Scarce  
 Plants Pulsatilla vulgaris Pasqueflower Vulnerable Scarce  
 Plants Juncus compressus Round-fruited Rush Near Threatened  
 Plants Juniperus communis Juniper  
 Plants Petrorhagia nanteuilii Childing Pink Vulnerable Rare  
 Plants Lathyrus aphaca Yellow Vetchling Vulnerable Scarce  
 Plants Lathyrus palustris Marsh Pea Near Threatened Scarce  
 Plants Lepidium latifolium Dittander Scarce  
 Plants Limosella aquatica Mudwort Scarce  
 Plants Anthemis arvensis Corn Chamomile Endangered

Plants *Anthemis cotula* Stinking Chamomile Vulnerable  
 Plants *Lolium temulentum* Darnel Endangered Rare  
 Plants *Lonicera xylosteum* Fly Honeysuckle Rare  
 Plants *Chamaemelum nobile* Chamomile Vulnerable  
 Plants *Lotus subbiflorus* Hairy Bird's-foot-trefoil Scarce  
 Plants *Clinopodium acinos* Basil Thyme Vulnerable  
 Plants *Lycopodium clavatum* Stag's-horn Clubmoss  
 Plants *Lycopodiella inundata* Marsh Clubmoss Endangered Scarce  
 Plants *Lythrum hyssopifolia* Grass-poly Endangered Rare  
 Plants *Marrubium vulgare* White Horehound Scarce  
 Plants *Meconopsis cambrica* Welsh Poppy Scarce  
 Plants *Medicago sativa* subsp. *falcata* Sickle Medick Scarce  
 Plants *Medicago polymorpha* Toothed Medick Scarce  
 Plants *Melampyrum arvense* Field Cow-wheat Rare  
 Plants *Silene noctiflora* Night-flowering Catchfly Vulnerable  
 Plants *Misopates orontium* Weasel's-snout Vulnerable  
 Plants *Mentha pulegium* Pennyroyal Endangered Scarce  
 Plants *Mentha suaveolens* Round-leaved Mint Scarce  
 Plants *Mespilus germanica* Medlar Scarce  
 Plants *Apera spica-venti* Loose Silky-bent Near Threatened  
 Plants *Minuartia hybrida* Fine-leaved Sandwort Endangered Scarce  
 Plants *Hypopitys monotropa* subsp. *hypophegea* Endangered Scarce  
 Plants *Hypopitys monotropa* Yellow Bird's-nest Endangered  
 Plants *Hypopitys monotropa* subsp. *monotropa* Endangered Scarce  
 Plants *Muscari neglectum* Grape-hyacinth Vulnerable Rare  
 Plants *Myosurus minimus* Mousetail Vulnerable  
 Plants *Myriophyllum verticillatum* Whorled Water-milfoil Vulnerable  
 Plants *Lysimachia thysiflora* Tufted Loosestrife Scarce  
 Plants *Neottia nidus-avis* Bird's-nest Orchid Near Threatened  
 Plants *Nepeta cataria* Cat-mint Vulnerable  
 Plants *Nymphoides peltata* Fringed Water-lily Scarce  
 Plants *Oenanthe fistulosa* Tubular Water-dropwort Vulnerable  
 Plants *Oenanthe silaifolia* Narrow-leaved Water-dropwort Near Threatened Scarce  
 Plants *Onobrychis viciifolia* Sainfoin Near Threatened  
 Plants *Ophrys insectifera* Fly Orchid Vulnerable  
 Plants *Orchis militaris* Military Orchid Vulnerable Rare  
 Plants *Anacamptis morio* Green-winged Orchid Near Threatened  
 Plants *Orchis purpurea* Lady Orchid Endangered Scarce  
 Plants *Neotinea ustulata* Burnt Orchid Endangered Scarce  
 Plants *Ornithogalum pyrenaicum* Spiked Star-of-Bethlehem Scarce  
 Plants *Orobanche picridis* Oxtongue Broomrape Endangered Rare WACA-Sch8  
 Plants *Orobanche rapum-genistae* Greater Broomrape Near Threatened Scarce  
 Plants *Papaver argemone* Prickly Poppy Vulnerable  
 Plants *Thyselium palustre* Milk-parsley Vulnerable Scarce  
 Plants *Platanthera bifolia* Lesser Butterfly-orchid Vulnerable  
 Plants *Platanthera chlorantha* Greater Butterfly-orchid Near Threatened  
 Plants *Polemonium caeruleum* Jacob's-ladder Rare  
 Plants *Polycarpon tetraphyllum* Four-leaved Allseed Rare

Plants *Fallopia dumetorum* Cope-bindweed Vulnerable Scarce  
 Plants *Persicaria minor* Small Water-pepper Vulnerable  
 Plants *Persicaria mitis* Tasteless Water-pepper Vulnerable Scarce  
 Plants *Polypogon monspeliensis* Annual Beard-grass Scarce  
 Plants *Potamogeton coloratus* Fen Pondweed Scarce  
 Plants *Potamogeton compressus* Grass-wrack Pondweed Endangered Scarce  
 Plants *Potamogeton friesii* Flat-stalked Pondweed Near Threatened Scarce  
 Plants *Potamogeton nodosus* Loddon Pondweed Vulnerable Rare  
 Plants *Potamogeton praelongus* Long-stalked Pondweed Near Threatened  
 Plants *Potentilla argentea* Hoary Cinquefoil Near Threatened  
 Plants *Potentilla fruticosa* Shrubby Cinquefoil Near Threatened Rare  
 Plants *Potentilla tabernaemontani* Spring Cinquefoil Scarce  
 Plants *Primula elatior* Oxlip Near Threatened Scarce  
 Plants *Pulicaria vulgaris* Small Fleabane Critically Endangered Rare WACA-Sch8  
 Plants *Radiola linoides* Allseed Near Threatened  
 Plants *Ranunculus penicillatus* subsp. *penicillatus* Scarce  
 Plants *Ranunculus arvensis* Corn Buttercup Critically Endangered  
 Plants *Arnoseris minima* Lamb's Succory Extinct  
 Plants *Rhinanthus angustifolius* Greater Yellow-rattle Rare  
 Plants *Ribes alpinum* Mountain Currant Scarce  
 Plants *Adiantum capillus-veneris* Maidenhair Fern Scarce  
 Plants *Rosa agrestis* Small-leaved Sweet-briar Near Threatened Scarce  
 Plants *Ruscus aculeatus* Butcher's-broom  
 Plants *Arum italicum* subsp. *neglectum* Italian Lords and Ladies Near Threatened Scarce  
 Plants *Adonis annua* Pheasant's-eye Endangered Scarce  
 Plants *Salvia pratensis* Meadow Clary Near Threatened Scarce  
 Plants *Scandix pecten-veneris* Shepherd's-needle Critically Endangered  
 Plants *Scleranthus annuus* Annual Knawel Endangered  
 Plants *Sedum forsterianum* Rock Stonecrop Scarce  
 Plants *Tephrosia integrifolia* subsp. *integrifolia*  
 Plants *Silene gallica* Small-flowered Catchfly Endangered Scarce  
 Plants *Sium latifolium* Greater Water-parsnip Endangered Scarce  
 Plants *Spergula arvensis* Corn Spurrey Vulnerable  
 Plants *Spiranthes spiralis* Autumn Lady's-tresses Near Threatened  
 Plants *Stachys arvensis* Field Woundwort Near Threatened  
 Plants *Stachys germanica* Downy Woundwort Vulnerable Rare  
 Plants *Stellaria palustris* Marsh Stitchwort Vulnerable  
 Plants *Stratiotes aloides* Water-soldier Near Threatened Rare  
 Plants *Teesdalia nudicaulis* Shepherd's Cress Near Threatened  
 Plants *Teucrium chamaedrys* Wall Germander Rare  
 Plants *Thelypteris palustris* Marsh Fern Scarce  
 Plants *Gymnocarpium robertianum* Limestone Fern Scarce  
 Plants *Microthlaspi perfoliatum* Perfoliate Penny-cress Vulnerable Rare  
 Plants *Tilia platyphyllos* Large-leaved Lime Scarce  
 Plants *Torilis arvensis* Spreading Hedge-parsley Endangered Scarce  
 Plants *Turritis glabra* Tower Mustard Endangered Scarce  
 Plants *Valerianella dentata* Narrow-fruited Cornsalad Endangered  
 Plants *Valerianella rimosa* Broad-fruited Cornsalad Endangered Scarce

Plants *Verbascum lychnitis* White Mullein Scarce  
Plants *Verbascum pulverulentum* Hoary Mullein Scarce  
Plants *Veronica spicata* Spiked Speedwell  
Plants *Vicia lutea* Yellow-vetch Near Threatened Scarce  
Plants *Vicia parviflora* Slender Tare Vulnerable Scarce  
Plants *Viola canina* Heath Dog-violet Near Threatened  
Plants *Viola canina* subsp. *canina* Heath Dog-violet Near Threatened  
Plants *Viola lactea* Pale Dog-violet Vulnerable Scarce  
Plants *Viola persicifolia* Fen Violet Endangered Rare  
Plants *Viola tricolor* Wild Pansy Near Threatened  
Plants *Viola tricolor* subsp. *tricolor* Wild Pansy Near Threatened  
Plants *Vulpia ciliata* subsp. *ambigua* Purple Fescue Scarce  
Plants *Baldellia ranunculoides* Lesser Water-plantain Near Threatened  
Plants *Vulpia unilateralis* Mat-grass Fescue Scarce  
Plants *Blysmus compressus* Flat-sedge Vulnerable  
Plants *Brassica oleracea* cultivated variants Scarce  
Plants *Bromopsis benekenii* Lesser Hairy-brome Scarce  
Plants *Gentianopsis ciliata* Fringed Gentian Critically Endangered Rare  
Plants *Bromus hordeaceus* subsp. *ferronii* Least Soft-brome Scarce  
Plants *Bromus interruptus* Interrupted Brome Extinct in the Wild  
Plants *Bromus secalinus* Rye Brome Vulnerable Scarce  
Plants *Lithospermum arvense* Field Gromwell Endangered  
Plants *Lithospermum purpureocaeruleum* Purple Gromwell Rare  
Plants *Bunium bulbocastanum* Great Pignut Rare  
Plants *Bupleurum rotundifolium* Thorow-wax Critically Endangered Rare  
Plants *Buxus sempervirens* Box Rare  
Plants *Clinopodium calamintha* Lesser Calamint Vulnerable Scarce  
Plants *Campanula rapunculus* Rampion Bellflower Endangered Rare  
Plants *Hieracium virgultorum* Rare  
Plants *Cardamine impatiens* Narrow-leaved Bitter-cress Near Threatened Scarce  
Plants *Carex diandra* Lesser Tussock-sedge Near Threatened  
Plants *Rubus castrensis* Rare  
Plants *Carex montana* Soft-leaved Sedge Scarce  
Plants *Carex muricata* subsp. *muricata* Large-fruited Prickly-sedge Near Threatened Rare  
Plants *Carex trinervis* Three-nerved Sedge Extinct  
Plants *Carex vulpina* True Fox-sedge Vulnerable Rare  
Plants *Ajuga chamaepitys* Ground-pine Endangered Rare  
Plants *Carum carvi* Caraway Endangered Scarce  
Plants *Camelina sativa* Gold-of-pleasure Scarce  
Plants *Centaurea cyanus* Cornflower  
Plants *Centunculus minimus* Chaffweed Near Threatened  
Plants *Cephalanthera damasonium* White Helleborine Vulnerable  
Plants *Cephalanthera rubra* Red Helleborine Critically Endangered Rare  
Plants *Cerastium pumilum* Dwarf Mouse-ear Near Threatened Scarce  
Plants *Chenopodium bonus-henricus* Good-King-Henry Vulnerable  
Plants *Chenopodium glaucum* Oak-leaved Goosefoot Vulnerable Scarce  
Plants *Chenopodium murale* Nettle-leaved Goosefoot Vulnerable  
Plants *Chenopodium urbicum* Upright Goosefoot Critically Endangered Rare

Plants *Chenopodium vulvaria* Stinking Goosefoot Endangered Scarce  
 Plants *Glebionis segetum* Corn Marigold Vulnerable  
 Plants *Cirsium tuberosum* Tuberous Thistle Near Threatened Rare  
 Plants *Coeloglossum viride* Frog Orchid Vulnerable  
 Plants *Colchicum autumnale* Meadow Saffron Near Threatened  
 Plants *Tephrosia integrifolia* Field Fleawort Endangered Scarce  
 Plants *Epipactis leptochila* Narrow-lipped Heleborine Scarce  
 Plants *Crassula tillaea* Mossy Stonecrop Scarce  
 Plants *Cuscuta epithymum* Dodder Vulnerable  
 Plants *Cuscuta europaea* Greater Dodder Scarce  
 Plants *Cynodon dactylon* Bermuda-grass Rare  
 Plants *Cynoglossum germanicum* Green Hound's-tongue Critically Endangered Rare  
 Plants *Cynoglossum officinale* Hound's-tongue Near Threatened  
 Plants *Cyperus fuscus* Brown Galingale Vulnerable Rare  
 Plants *Cyperus longus* Galingale Near Threatened Scarce  
 Plants *Damasium alisma* Starfruit Critically Endangered Rare  
 Plants *Physospermum cornubiense* Bladderseed Rare  
 Plants *Daphne mezereum* Mezereon Vulnerable Scarce  
 Plants *Cardamine bulbifera* Coralroot Scarce  
 Plants *Dianthus armeria* Deptford Pink Endangered Scarce  
 Plants *Dianthus deltoides* Maiden Pink Near Threatened Scarce  
 Plants *Draba muralis* Wall Whitlowgrass Scarce  
 Plants *Allium oleraceum* Field Garlic Vulnerable  
 Plants *Hyacinthoides non-scripta* Bluebell  
 Plants *Epipogium aphyllum* Ghost Orchid Extinct  
 Plants *Allium schoenoprasum* Chives Scarce  
 Plants *Eryngium campestre* Field Eryngo Critically Endangered Rare  
 Plants *Euphorbia exigua* Dwarf Spurge Near Threatened  
 Plants *Euphorbia stricta* Upright Spurge Rare  
 Plants *Euphrasia officinalis* subsp. *anglica* Glandular Eyebright Endangered  
 Plants *Euphrasia pseudokernerii* Chalk Eyebright Endangered Scarce  
 Plants *Filago lutescens* Red-tipped Cudweed Endangered Scarce  
 Plants *Filago gallica* Narrow-leaved Cudweed Extinct in the Wild Rare  
 Plants *Filago vulgaris* Common Cudweed Near Threatened  
 Plants *Filago pyramidata* Broad-leaved Cudweed Endangered Scarce  
 Plants *Fritillaria meleagris* Fritillary Scarce  
 Plants *Fumaria parviflora* Fine-leaved Fumitory Vulnerable Scarce  
 Plants *Fumaria vaillantii* Few-flowered Fumitory Vulnerable Scarce  
 Plants *Malva setigera* Rough Marsh-mallow  
 Plants *Galeopsis angustifolia* Red Hemp-nettle Critically Endangered Scarce  
 Plants *Galeopsis speciosa* Large-flowered Hemp-nettle Vulnerable  
 Plants *Althaea officinalis* Marsh-mallow Scarce  
 Plants *Galium pumilum* Slender Bedstraw Endangered Rare  
 Plants *Galium tricornutum* Corn Cleavers Critically Endangered Rare  
 Plants *Alyssum alyssoides* Small Alison  
 Plants *Genista anglica* Petty whin Near Threatened  
 Plants *Gentianella germanica* Chiltern Gentian Vulnerable Scarce  
 Plants *Gnaphalium sylvaticum* Heath Cudweed Endangered

Plants *Groenlandia densa* Opposite-leaved Pondweed Vulnerable  
 Plants *Helleborus foetidus* Stinking Hellebore Scarce  
 Plants *Herminium monorchis* Musk Orchid Vulnerable Scarce  
 Plants *Himantoglossum hircinum* Lizard Orchid Near Threatened Scarce  
 Plants *Hippophae rhamnoides* Sea-buckthorn Scarce  
 Plants *Hordelymus europaeus* Wood Barley Scarce  
 Plants *Anagallis arvensis* subsp. *foemina* Blue Pimpernel Scarce  
 Plants *Hydrocharis morsus-ranae* Frogbit Vulnerable

Plants: mosses and liverworts *Acaulon muticum* Rounded Pygmy-moss Rare  
 Plants: mosses and liverworts *Aloina ambigua* Tall Aloe-moss Scarce  
 Plants: mosses and liverworts *Bryum knowltonii* Knowlton's Thread-moss Vulnerable Rare  
 Plants: mosses and liverworts *Platygyrium repens* Flat-brocade Moss Scarce  
 Plants: mosses and liverworts *Pohlia lescuriana* Pretty Nodding-moss Scarce  
 Plants: mosses and liverworts *Didymodon umbrosus* Shady Beard-moss Scarce  
 Plants: mosses and liverworts *Leptobarbula berica* Beric Beard-moss Scarce  
 Plants: mosses and liverworts *Grimmia trichophylla* Hair-pointed *Grimmia* Scarce  
 Plants: mosses and liverworts *Bryum pseudotriquetrum* var. *pseudotriquetrum* Marsh *Bryum* Rare  
 Plants: mosses and liverworts *Aloina rigida* Rigid Aloe-moss Scarce  
 Plants: mosses and liverworts *Campyliadelphus elodes* Fine-leaved Marsh Feather-moss Scarce  
 Plants: mosses and liverworts *Ditrichum flexicaule* Bendy *Ditrichum* Scarce  
 Plants: mosses and liverworts *Campylophyllum calcareum* Chalk Feather-moss Scarce  
 Plants: mosses and liverworts *Orthotrichum consimile* Extinct Rare  
 Plants: mosses and liverworts *Ceratodon conicus* Scarce Redshank Endangered Rare  
 Plants: mosses and liverworts *Brachythecium cirrosum* Tendril Feather-moss Vulnerable Rare  
 Plants: mosses and liverworts *Sphagnum subsecundum* sens. lat  
 Plants: mosses and liverworts *Bryum archangelicum* Archangelic Thread-moss Rare  
 Plants: mosses and liverworts *Seligeria campylopoda* Bentfoot Rock-bristle Vulnerable Rare  
 Plants: mosses and liverworts *Hygroamblystegium humile* Constricted Feather-moss Scarce  
 Plants: mosses and liverworts *Ephemerum recurvifolium* Strap-leaved Earth-moss Scarce  
 Plants: mosses and liverworts *Hygrohypnum luridum* Drab Brook-moss Rare  
 Plants: mosses and liverworts *Hypnum imponens* Pellucid Plait-moss Scarce  
 Plants: mosses and liverworts *Herzogiella seligeri* Silesian Feather-moss Scarce  
 Plants: mosses and liverworts *Leptodontium gemmascens* Thatch-moss Vulnerable Rare  
 Plants: mosses and liverworts *Leucobryum glaucum* Large White-moss  
 Plants: mosses and liverworts *Plagiomnium ellipticum* Marsh Thyme-moss Rare  
 Plants: mosses and liverworts *Fissidens fontanus* Fountain Pocket-moss Scarce  
 Plants: mosses and liverworts *Orthotrichum obtusifolium* Blunt-leaved Bristle-moss  
 Plants: mosses and liverworts *Didymodon acutus* Pointed Beard-moss Scarce  
 Plants: mosses and liverworts *Pottiopsis caespitosa* Round-fruited *Pottia* Scarce  
 Plants: mosses and liverworts *Pterygoneurum lamellatum* Spiral Chalk-moss Extinct Rare  
 Plants: mosses and liverworts *Pterygoneurum ovatum* Oval-leaved *Pottia* Scarce  
 Plants: mosses and liverworts *Sphagnum compactum* Compact Bog-moss  
 Plants: mosses and liverworts *Sphagnum cuspidatum* Feathery Bog-moss  
 Plants: mosses and liverworts *Sphagnum fimbriatum* Fringed Bog-moss  
 Plants: mosses and liverworts *Sphagnum magellanicum* Magellanic Bog-moss  
 Plants: mosses and liverworts *Sphagnum capillifolium* Red Bog-moss

Plants: mosses and liverworts *Sphagnum capillifolium* subsp. *capillifolium* Acute-leaved Bog-moss  
 Plants: mosses and liverworts *Sphagnum palustre* Blunt-leaved Bog-moss  
 Plants: mosses and liverworts *Sphagnum papillosum* Papillose Bog-moss  
 Plants: mosses and liverworts *Sphagnum subnitens* Lustrous Bog-moss  
 Plants: mosses and liverworts *Sphagnum subnitens* var. *subnitens* Lustrous Bog-moss  
 Plants: mosses and liverworts *Sphagnum pulchrum* Golden Bog-moss Scarce  
 Plants: mosses and liverworts *Didymodon rigidulus* Rigid Beard-moss Rare  
 Plants: mosses and liverworts *Sphagnum recurvum* sens. lat.  
 Plants: mosses and liverworts *Sphagnum flexuosum* Flexuous Bog-moss Scarce  
 Plants: mosses and liverworts *Sphagnum fallax* Flat-topped Bog-moss  
 Plants: mosses and liverworts *Sphagnum riparium* Cleft Bog-moss Rare  
 Plants: mosses and liverworts *Sphagnum capillifolium* subsp. *rubellum* Red Bog-moss  
 Plants: mosses and liverworts *Sphagnum squarrosum* Spiky Bog-moss  
 Plants: mosses and liverworts *Sphagnum denticulatum* Cow-horn Bog-moss  
 Plants: mosses and liverworts *Sphagnum inundatum* Lesser Cow-horn Bog-moss  
 Plants: mosses and liverworts *Sphagnum tenellum* Soft Bog-moss  
 Plants: mosses and liverworts *Abietinella abietina* var. *hystricosa* Prickly Tamarisk-moss Scarce  
 Plants: mosses and liverworts *Tortella inflexa* Sassari Crisp-moss Scarce  
 Plants: mosses and liverworts *Tortula schimperi* Upright Screw-moss Rare  
 Plants: mosses and liverworts *Syntrichia virescens* Lesser Screw-moss Scarce  
 Plants: mosses and liverworts *Ulota coarctata* Club Pincushion Scarce  
 Plants: mosses and liverworts *Weissia squarrosa* Spreading-leaved Beardless-moss Vulnerable Scarce  
 Plants: mosses and liverworts *Weissia sterilis* Sterile Beardless-moss Vulnerable Scarce  
 Plants: mosses and liverworts *Zygodon forsteri* Knothole Yoke-moss Endangered Rare  
 Plants: mosses and liverworts *Bryum torquescens* Twisting Thread-moss Scarce  
 Plants: mosses and liverworts *Campylopus pilifer* Stiff Swan-neck Moss Scarce  
 Plants: mosses and liverworts *Phaeoceros carolinianus* Carolina Hornwort Near Threatened Rare  
 Plants: mosses and liverworts *Cephalozia macrostachya* Bog Pincerwort Scarce  
 Plants: mosses and liverworts *Cladopodiella francisci* Holt Notchwort Scarce  
 Plants: mosses and liverworts *Aneura mirabilis* Ghostwort Scarce  
 Plants: mosses and liverworts *Lophozia capitata* Large-celled Flapwort Endangered Scarce  
 Plants: mosses and liverworts *Brachythecium salebrosum* Smooth-stalk Feather-moss Scarce  
 Plants: mosses and liverworts *Riccia rhenana* Pond Crystalwort Rare  
 Plants: mosses and liverworts *Ricciocarpos natans* Fringed Heartwort Scarce  
 Plants: mosses and liverworts *Sphaerocarpos michelii* Micheli's Balloonwort Scarce  
 Plants: mosses and liverworts *Sphaerocarpos texanus* Texas Balloonwort Vulnerable Scarce  
 Plants: mosses and liverworts *Lophozia perssonii* Chalk Notchwort Near Threatened Rare  
 Plants: mosses and liverworts *Riccia cavernosa* Cavernous Crystalwort Scarce

Plants: stoneworts *Nitella flexilis* Smooth Stonewort Scarce  
 Plants: stoneworts *Tolypella intricata* Tassel Stonewort Endangered  
 Plants: stoneworts *Tolypella glomerata* Clustered Stonewort Scarce

Forward to 2020 - Buckinghamshire and Milton Keynes Biodiversity Action Plan - Appendix 1  
[http://www.legislation.gov.uk/uksi/2012/1927/pdfs/uksi\\_20121927\\_en.pdf](http://www.legislation.gov.uk/uksi/2012/1927/pdfs/uksi_20121927_en.pdf) )  
<https://bucks.mknep.co.uk/projects/forward-to-2020-biodiversity-action/>  
 Appendix-1-Species-List-Feb-2018(2) Biodiversity-Action-Plan-Bucks-and-MK.pdf

## Annex 2 – Proposed Designated Local Green Spaces (Maps All Areas)

### 1. QE2 Playing Fields – Eskdale Road



### 2. Village Green – Lower Road





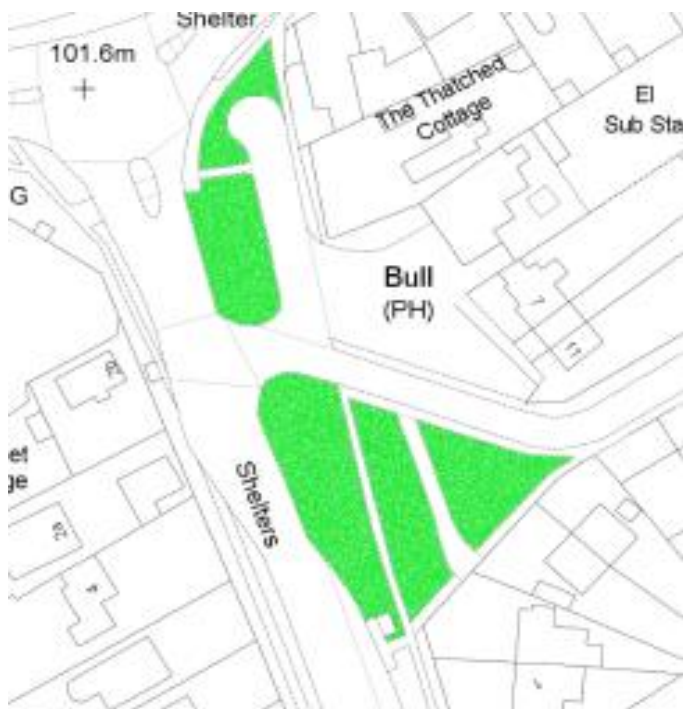
### 3. Allotments – Lower Road



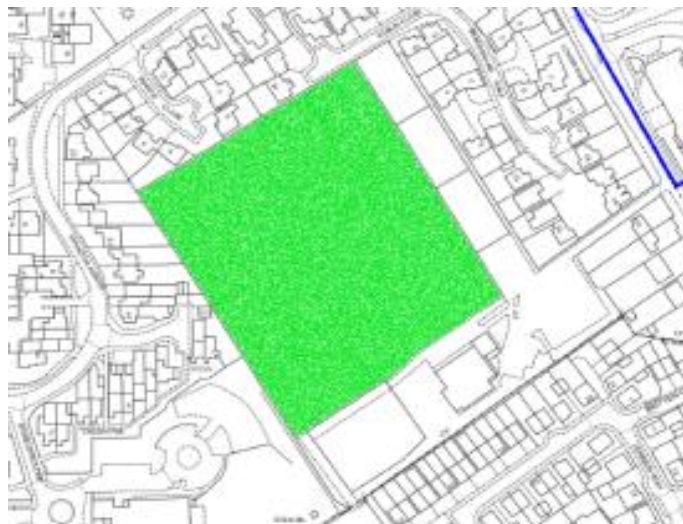
### 4. Land Adjoining Church – Lower Road



5. Road Margins – Risborough Road



6. Bucks CC Sports & Social Club Playing Field – Stoke Leys



7. Grassland - Hawkslade



8. Dalesford Road Grassland – Stoke Grange



9. Charles Close Grassland - Stoke Grange



<https://eservices.landregistry.gov.uk/>

## Annex 3 – List of Public Consultation Comments 2019

### Responses to the idea to create Stoke Mandeville Garden Parish.

- Best way to protect green areas.
- I prefer a garden Parish because it allows a lot of more possible green spaces which are important to me and my family.
- It will benefit everyone who lives here.
- We need more green spaces for existing residents.
- Wide open green spaces are a priority. Existing residents should have the priority for green spaces.
- 100% of land should be a beautiful natural green land for local people.
- 50% green space should be the absolute minimum.
- 70 per cent beautiful green natural environment not houses, houses and more houses.
- All the green spaces are being built on, so a clear structure is required.
- Pollution on the main roads is awful.
- A strong link with the countryside needs to be maintained.
- Agree the importance of green infrastructure, protected views etc.
- All the green spaces you mention I would expect to be left as they are anyway!
- AND keep MORE countryside/open green areas.
- As much green open space needed to balance extensive develops elsewhere in Parish and meet 50% garden Parish target.
- But much more should be protected.
- Ground level greenery and nature are important views, as well as hills.
- To protect views from the Chiltern Hills.
- 50% green space retention in Stoke Mandeville is vital to attempt to retain the character of the Village.
- I am on the Aylesbury Garden Town panel. I love nature, so it is very important to have enough green space with all these houses!
- Retaining the rural and green nature of the area is essential.
- Why can't we leave a few of our fields and hedgerows rather than building so many houses and leaving a few green patches?
- Healthy! Try breathing in the traffic fumes in the rush hours. Let's get it to 'average' before we aim for beautiful, shall we?
- Keep green fields that are left.
- The beautiful green environment is vanishing before our eyes!
- Would like to see wildlife mentioned not just people.
- Yes, it must be protected for the future generations to enjoy.
- Devil in the detail. What does a green natural environment mean?
- We do not need hundreds of acres of open space - just a sensible amount of well managed areas will totally transform the living quality of the area.
- We lived here for green aspect not building site!
- We think it should be at least 60/70% of the land to be a green, natural environment.
- Wildlife needs to be valued not just people.
- You have to stop any more housing to achieve a "beautiful green natural environment for local people".
- More green spaces and less built up.
- Lack of green space/fields.
- The buffer to HS2 must be substantial e.g. large trees.

- Want to maintain green land as much as possible.
- You cannot man-make natural beauty.
- This area has good views across the Chilterns so important to provide good amounts of green space with open views.
- This site must be preserved for GREEN land & not have its area spoilt by anymore building.
- Existing green spaces, particularly those identified in the centre of the village, should be protected from development to ensure that the nature of the village is protected and to act as a buffer against ever increasing traffic levels, particularly along Lower Road.
- I think all the green space will be gone!
- I think this area should remain agricultural land creating a green edge to the wider Aylesbury with no further development.
- In my experience, most people in the Parish believe the green spaces listed are already protected. Making this officially designated and protected space is vital and should form a key part of the neighbourhood plan.
- Keeping more than 50% of land a beautiful natural environment for local people.
- More protection needed or else even more houses! Prevent builders removing all hedges, destroying the environment.
- Need loads of green spaces. More trees to help with climate.
- Not all green spaces should be for people all year round.
- Not enough or large enough green spaces.
- Proposed local plan does not allow for sufficient open spaces/countryside.
- Protection of green spaces and keeping large green spaces and especially vistas which is why so many residents live in village rather than a town.
- The "dog walking track" along the south of Hawkslade is incredibly important. The trees/hedges must be maintained, if not have more planted and the green area extended.
- They need to be protected however some of the areas you mentioned in your leaflet are laughable, the green space in front of the School and the green space in front of Brudenell Drive, those green space are so small I am not sure why they need protected as you couldn't built anything on them, a bus stop maybe? You need to protect bigger green space as well as they are the one that make a difference and make the space feel green.
- With all the homes and traffic, we need to protect enough green spaces for the physical and mental health of our community.
- Open space is essential for human's wellbeing.
- Views of Coombe Hill should be protected - it's a key part of the attraction of the Chilterns and should be treated as such.
- Green spaces are good for physical and mental wellbeing. The trend for paving over front gardens makes green space in residential areas particularly important.
- I can remember cows being driven down the road by the Woolpack Pub twice a day for milking. I know times have changed but this last few years it has become heart-breaking to see hedges disappearing and the whole character of the village changing just a large housing estate.
- I would like to see more emphasis on trees and shrubs also wild flower meadows where possible to attract protect and support all wildlife. With many species facing unprecedented challenges for survival, it would be great if in your planning you could give wildlife a helping hand, as we all rely on them for our wellbeing. Thank you, I hope you have a successful outcome.
- What SM needs is a park with seats and flower beds, but I know this is a pipe dream!
- Massive tree planting mitigation.