

## Appendix 1: Key Species associated with the Biodiversity Action Plan

Please note that the following table is a list of key species allied with habitats in Buckinghamshire and Milton Keynes and should not be regarded as a definitive list of all priority species occurring in the county.

Key to table below

### Habitat Action Plans

- |                                 |                                     |
|---------------------------------|-------------------------------------|
| 1. Lowland Calcareous Grassland | 8. Chalk Rivers                     |
| 2. Lowland Meadows              | 9. Eutrophic Standing Water & Ponds |
| 3. Heathland & Acid Grassland   | 10. Fens & Reedbeds                 |
| 4. Woodland                     | 11. Urban                           |
| 5. Hedgerows                    | 12. Earth Heritage                  |
| 6. Arable Field Margins         | 13. Traditional Orchards            |
| 7. Rivers and Streams           | 14. Wood Pasture and Parkland       |

### European Protection

#### **Habitats Directive**

Species protected under *The Conservation (Natural Habitats, &c.) Regulations 1994* and the 2007 amendment

#### **Bern Conv**

Species listed under the Bern Convention on the Conservation of European Wildlife and Natural Habitats

#### **Birds Dir**

Species protected under the **EC Council Directive on the Conservation of Wild Birds**

#### **Bonn Conv**

Species listed under the **Bonn Convention on Migratory Species**

### UK Protection

#### **Wildlife & Countryside Act 1981**

Species in the schedules of the W&C Act are listed

#### **NERC Act**

Species of Principal Importance in Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 - Habitats and Species of Principal Importance in England are listed

#### **UK BAP**

UK BAP Priority Species are highlighted in **Bold**

### **National Status**

Data sources are as follows

Birds RSPB. 2002. The **population status of birds in the UK - birds of conservation concern: 2002-2007**

Fungi MapMate 'RDBLichens' table

All insects MapMate taxon dictionary at 02/07/2007  
(except listed below)

Dragonflies / Damselflies British Dragonfly Society website  
December 2007

Plants Based on list from BSBI website, entitled  
'Plant\_Status\_List\_2005.pdf', which gives a status of Rare  
or Scarce based on distribution data from the New Atlas.

### **Local Rarity**

Butterflies & Moths Lepidoptera species listed in: Clarke, S.A., and  
Bourn, N. 2000. Butterfly Conservation -  
Regional Action Plan - Thames Region.

Plants BSBI County Rare Plant List for Bucks - Roy Maycock - as  
revised at 05/09/2007

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



|                                   |                    | HAPs        | European Protection    | W& C Act 1981               | NERC Act | National status | Local Status |
|-----------------------------------|--------------------|-------------|------------------------|-----------------------------|----------|-----------------|--------------|
| <b>Amphibians and Reptiles</b>    |                    |             |                        |                             |          |                 |              |
| <i>Anguis fragilis</i>            | Slow-worm          | 11          |                        | Sch 5 Sec 9.1 (k/i), 9.5a+b |          | SPI             |              |
| <i>Bufo bufo</i>                  | Common Toad        | 9,10,11     |                        |                             |          | SPI             |              |
| <i>Lacerta vivipara</i>           | Viviparous Lizard  | 3           |                        | Sch 5 Sec 9.1 (k/i), 9.5a+b |          | SPI             |              |
| <i>Natrix natrix</i>              | Grass Snake        | 7,8,9,10,11 |                        | Sch 5 Sec 9.1 (k/i), 9.5a+b |          | SPI             |              |
| <i>Rana temporaria</i>            | Common Frog        | 9,10,11     |                        |                             |          |                 |              |
| <i>Triturus cristatus</i>         | Great Crested Newt | 9,10,11     | Habitats Directive     | Sch 5 (full)                |          | SPI             |              |
| <i>Triturus vulgaris</i>          | Smooth Newt        | 9,10,11     |                        |                             |          |                 |              |
| <i>Vipera berus</i>               | Adder              | 3           |                        | Sch 5 Sec 9.1 (k/i), 9.5a+b |          | SPI             |              |
| <b>Birds</b>                      |                    |             |                        |                             |          |                 |              |
| <i>Accipiter nisus</i>            | Sparrowhawk        | 11          | Bonn Conv              |                             |          |                 |              |
| <i>Acrocephalus schoenobaenus</i> | Sedge Warbler      | 7,9,10      |                        |                             |          |                 |              |
| <i>Acrocephalus scirpaceus</i>    | Reed Warbler       | 7,9,10      |                        |                             |          |                 |              |
| <i>Alauda arvensis</i>            | Sky Lark           | 1,2,3,6     |                        |                             |          | SPI             | Red List     |
| <i>Alcedo atthis</i>              | Kingfisher         | 7,8,9,10    | Birds Dir<br>Bern Conv | Sch 1 Pt 1                  |          |                 | Amber List   |
| <i>Anas acuta</i>                 | Pintail            | 9           | Bonn Conv              | Sch 1 Pt 2                  |          |                 | Amber List   |
| <i>Anas clypeata</i>              | Shoveler           | 9           | Bonn Conv              |                             |          |                 | Amber List   |
| <i>Anas crecca</i>                | Teal               | 7,9,10      | Bonn Conv              |                             |          |                 | Amber List   |
| <i>Anas penelope</i>              | Wigeon             | 9           | Bonn Conv              |                             |          |                 | Amber List   |
| <i>Anas platyrhynchos</i>         | Mallard            | 7,9,10      | Bonn Conv              |                             |          |                 |              |
| <i>Anas querquedula</i>           | Garganey           | 9           | Bonn Conv              | Sch 1 Pt 1                  |          |                 | Amber List   |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



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| Anas strepera                        | Gadwall              | 9              | Bonn Conv           |                   |            | Amber List        |              |
| Anser anser                          | Greylag Goose        | 9              | Bonn Conv           | Sch 1 Pt 2        |            | Amber List        |              |
| Anthus pratensis                     | Meadow Pipit         | 2,3            | Bern Conv           |                   |            | Amber List        |              |
| <b>Anthus trivialis</b>              | <b>Tree Pipit</b>    | <b>3</b>       | <b>Bern Conv</b>    |                   | <b>SPI</b> | <b>Amber List</b> |              |
| Apus apus                            | Swift                | 11             |                     |                   |            |                   |              |
|                                      |                      |                | Birds Dir           |                   |            |                   |              |
| Asio flammeus                        | Short-eared Owl      | 2              | Bern Conv           |                   |            | Amber List        |              |
| Aythya ferina                        | Pochard              | 9              | Bonn Conv           |                   |            | Amber List        |              |
| Aythya fuligula                      | Tufted Duck          | 9              | Bonn Conv           |                   |            |                   |              |
| Aythya marila                        | Greater Scaup        | 9              | Bonn Conv           | Sch 1 Pt 1        | SPI        | Amber List        |              |
|                                      |                      |                | <b>Birds Dir</b>    |                   |            |                   |              |
| <b>Botaurus stellaris</b>            | <b>Bittern</b>       | <b>7,10</b>    | <b>Bern Conv</b>    | <b>Sch 1 Pt 1</b> | <b>SPI</b> | <b>Red List</b>   |              |
| Bucephala clangula                   | Common Goldeneye     | 9              | Bonn Conv           | Sch 1 Pt 2        |            | Amber List        |              |
|                                      |                      |                | Birds Dir           |                   |            |                   |              |
| <b>Burhinus oedicnemus</b>           | <b>Stone-curlew</b>  | <b>1,6</b>     | Bern Conv           | <b>Sch 1 Pt 1</b> | <b>SPI</b> | <b>Red List</b>   |              |
| Buteo buteo                          | Buzzard              | 4              | Bonn Conv           |                   |            |                   |              |
|                                      |                      |                | Birds Dir           |                   |            |                   |              |
| <b>Caprimulgus europaeus</b>         | <b>Nightjar</b>      | <b>3</b>       | Bern Conv           |                   | <b>SPI</b> | <b>Red List</b>   |              |
| <b>Carduelis cannabina</b>           | <b>Linnet</b>        | <b>1,2,5,6</b> | Bern Conv           |                   | <b>SPI</b> | <b>Red List</b>   |              |
| Carduelis carduelis                  | Goldfinch            | 2,5,6,11       | Bern Conv           |                   |            |                   |              |
| Carduelis chloris                    | Greenfinch           | 2,5,6,11       | Bern Conv           |                   |            |                   |              |
| Carduelis spinus                     | Siskin               | 11             | Bern Conv           |                   |            |                   |              |
| Certhia familiaris                   | Treecreeper          | 4,11           | Bern Conv           |                   |            |                   |              |
| Cettia cetti                         | Cetti's Warbler      | 8              |                     | Sch 1 Pt 1        |            |                   |              |
|                                      |                      |                | Bern Conv           |                   |            |                   |              |
| Charadrius dubius                    | Little Ringed Plover | 9              | Bonn Conv           | Sch 1 Pt 1        |            |                   |              |
|                                      |                      |                | Bern Conv           |                   |            |                   |              |
| Charadrius hiaticula                 | Ringed Plover        | 9              | Bonn Conv           |                   |            | Amber List        |              |
| <b>Coccothraustes coccothraustes</b> | <b>Hawfinch</b>      | <b>4</b>       | Bern Conv           |                   | <b>SPI</b> | <b>Amber List</b> |              |
| Coturnix coturnix                    | Quail                | 6              |                     | Sch 1 Pt 1        |            | Red List          |              |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



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| <b>Cygnus columbianus</b>   | <b>Bewick's Swan</b>       | <b>8,9</b>        | Birds Dir<br>Bern Conv<br>Bonn Conv | <b>Sch 1 Pt 1</b> | <b>SPI</b> | <b>Amber List</b> |              |
| Cygnus cygnus               | Whooper Swan               | 9                 | Birds Dir<br>Bern Conv<br>Bonn Conv | Sch 1 Pt 1        |            | Amber List        |              |
| Cygnus olor                 | Mute Swan                  | 9                 | Bonn Conv                           |                   |            | Amber List        |              |
| Delichon urbicum            | House Martin               | 2,6,9,11          | Bern Conv                           |                   |            | Amber List        |              |
| Dendrocopos major           | Great Spotted Woodpecker   | 4,11              | Bern Conv                           |                   |            |                   |              |
| <b>Emberiza calandra</b>    | <b>Corn Bunting</b>        | <b>6</b>          |                                     |                   | <b>SPI</b> | <b>Red List</b>   |              |
| <b>Emberiza cirius</b>      | <b>Cirl Bunting</b>        | <b>6</b>          | Bern Conv                           | <b>Sch 1 Pt 1</b> | <b>SPI</b> | <b>Red List</b>   |              |
| <b>Emberiza citrinella</b>  | <b>Yellowhammer</b>        | <b>6</b>          | Bern Conv                           |                   | <b>SPI</b> | <b>Red List</b>   |              |
| <b>Emberiza schoeniclus</b> | <b>Reed Bunting</b>        | <b>6,7,8,9,10</b> | Bern Conv                           |                   | <b>SPI</b> | <b>Red List</b>   |              |
| Falco subbuteo              | Hobby                      | 3,5,7             | Bern Conv                           | Sch 1 Pt 1        |            |                   |              |
| Falco tinnunculus           | Kestrel                    | 11                | Bern Conv                           |                   |            | Amber List        |              |
| Fringilla montifringilla    | Brambling                  | 4                 |                                     | Sch 1 Pt 1        |            |                   |              |
| Gallinago gallinago         | Snipe                      | 2,8,9,10          | Bonn Conv                           |                   |            | Amber List        |              |
| Hirundo rustica             | Swallow                    | 11                | Bern Conv                           |                   |            | Amber List        |              |
| <b>Locustella naevia</b>    | <b>Grasshopper Warbler</b> | <b>4</b>          |                                     |                   | <b>SPI</b> | <b>Red List</b>   |              |
| <b>Lullula arborea</b>      | <b>Wood Lark</b>           | <b>3</b>          | <b>Birds Dir</b>                    | <b>Sch 1 Pt 1</b> | <b>SPI</b> | <b>Red List</b>   |              |
| Luscinia megarhynchos       | Nightingale                | 4                 | Bern Conv                           |                   |            | Amber List        |              |
| Mergus merganser            | Goosander                  | 9                 | Bonn Conv                           |                   |            |                   |              |
| Milvus milvus               | Red Kite                   | 4,6               | Bonn Conv                           | Sch 1 Pt 1        |            | Amber List        |              |
| Motacilla cinerea           | Grey Wagtail               | 9                 | Bern Conv                           |                   |            | Amber List        |              |
| <b>Motacilla flava</b>      | <b>Yellow Wagtail</b>      | <b>2,6,9</b>      | <b>Bern Conv</b>                    |                   |            | <b>Amber List</b> |              |
|                             |                            |                   | <b>Bern Conv</b>                    |                   |            |                   |              |
| <b>Muscicapa striata</b>    | <b>Spotted Flycatcher</b>  | <b>4,11,14</b>    | <b>Bonn Conv</b>                    |                   | <b>SPI</b> | <b>Red List</b>   |              |
|                             |                            |                   | <b>Bonn Conv</b>                    |                   |            |                   |              |
| <b>Numenius arquata</b>     | <b>Curlew</b>              | <b>2,9,10</b>     | <b>Conv</b>                         |                   | <b>SPI</b> | <b>Amber List</b> |              |
| <b>Parus montanus</b>       | <b>Willow Tit</b>          | <b>4</b>          | <b>Bern Conv</b>                    |                   | <b>SPI</b> | <b>Red List</b>   |              |
| <b>Parus palustris</b>      | <b>Marsh Tit</b>           | <b>4</b>          | <b>Bern Conv</b>                    |                   | <b>SPI</b> | <b>Red List</b>   |              |

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Appendix 1 – Key Species



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| <b>Passer domesticus</b>       | <b>House Sparrow</b>   | <b>6,11</b>      |                     |               | <b>SPI</b> | <b>Red List</b>   |              |
| <b>Passer montanus</b>         | <b>Tree Sparrow</b>    | <b>5,6,14</b>    |                     |               | <b>SPI</b> | <b>Red List</b>   |              |
| <b>Perdix perdix</b>           | <b>Grey Partridge</b>  | <b>2,5,6</b>     |                     |               | <b>SPI</b> | <b>Red List</b>   |              |
| Phalacrocorax carbo            | Cormorant              | 9                |                     |               |            | Amber List        |              |
| Phoenicurus phoenicurus        | Redstart               | 4                | Bern Conv           |               |            | Amber List        |              |
| Phylloscopus collybita         | Chiffchaff             | 11               |                     |               |            |                   |              |
| <b>Phylloscopus sibilatrix</b> | <b>Wood Warbler</b>    | <b>4</b>         |                     |               | <b>SPI</b> | <b>Amber List</b> |              |
| Picus viridis                  | Green Woodpecker       | 4                | Bern Conv           |               |            | Amber List        |              |
| Pluvialis apricaria            | European Golden Plover | 2,6              | Bonn Conv           |               |            |                   |              |
| <b>Prunella modularis</b>      | <b>Duncock</b>         | <b>5,11</b>      | Bern Conv           |               | <b>SPI</b> | <b>Amber List</b> |              |
| <b>Pyrrhula pyrrhula</b>       | <b>Bullfinch</b>       | <b>5,6,11,13</b> |                     |               | <b>SPI</b> | <b>Red List</b>   |              |
| <b>Rallus aquaticus</b>        | <b>Water Rail</b>      | <b>8,10</b>      |                     |               |            | <b>Amber List</b> |              |
| Regulus regulus                | Goldcrest              | 11               | Bern Conv           |               |            | Amber List        |              |
| Riparia riparia                | Sand Martin            | 9                | Bern Conv           |               |            | Amber List        |              |
| Saxicola rubetra               | Whinchat               | 6                | Bern Conv           |               |            |                   |              |
| Saxicola torquatus             | Stonechat              | 3                | Bern Conv           |               |            | Amber List        |              |
| Scolopax rusticola             | Woodcock               | 4                | Bonn Conv           |               |            | Amber List        |              |
| Sitta europaea                 | Nuthatch               | 4                | Bern Conv           |               |            |                   |              |
|                                |                        |                  | Birds Dir           |               |            |                   |              |
| Sterna hirundo                 | Common Tern            | 9,10             | Bern Conv           |               |            |                   |              |
| <b>Streptopelia turtur</b>     | <b>Turtle Dove</b>     | <b>5,6,11</b>    |                     |               | <b>SPI</b> | <b>Red List</b>   |              |
| Strix aluco                    | Tawny Owl              | 11               | Bern Conv           |               |            |                   |              |
| <b>Sturnus vulgaris</b>        | <b>Starling</b>        | <b>11</b>        |                     |               | <b>SPI</b> | <b>Red List</b>   |              |
| Sylvia atricapilla             | Blackcap               | 11               |                     |               |            |                   |              |
| Sylvia undata                  | Dartford Warbler       | 3                | Birds Dir           | Sch 1 Pt 1    |            | Amber List        |              |
|                                |                        |                  | Bern Conv           |               |            |                   |              |
| Tadorna tadorna                | Shelduck               | 9                | Bonn Conv           |               |            | Amber List        |              |
|                                |                        |                  | Bern Conv           |               |            |                   |              |
| Tringa ochropus                | Green Sandpiper        | 8,9,10           | Bonn Conv           | Sch 1 Pt 1    |            | Amber List        |              |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



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| Tringa totanus                    | Redshank                 | 2,8,9,10           | Bonn Conv           |                     |            | Amber List        |              |
| Turdus iliacus                    | Redwing                  | 2,6,13             |                     | Sch 1 Pt 1          |            | Amber List        |              |
| Turdus merula                     | Blackbird                | 11                 |                     |                     |            |                   |              |
| <b>Turdus philomelos</b>          | <b>Song Thrush</b>       | <b>2,5,6,11,14</b> |                     |                     | <b>SPI</b> | <b>Red List</b>   |              |
| Turdus pilaris                    | Fieldfare                | 2,6,13             |                     | Sch 1 Pt 1          |            | Amber List        |              |
| Tyto alba                         | Barn Owl                 | 2,5,6              | Bern Conv           | Sch 1 Pt 1          |            | Amber List        |              |
| <b>Vanellus vanellus</b>          | <b>Lapwing</b>           | <b>2,6,8,9</b>     | <b>Bonn Conv</b>    |                     | <b>SPI</b> | <b>Amber List</b> |              |
| <b>Fish</b>                       |                          |                    |                     |                     |            |                   |              |
| <b>Cobitis taenia</b>             | <b>Spined Loach</b>      | <b>7,8,9</b>       |                     |                     | <b>SPI</b> |                   |              |
| Cottus gobio                      | Bullhead                 | 7,8,9              |                     |                     |            |                   |              |
| <b>Lampetra fluviatilis</b>       | <b>River Lamprey</b>     | <b>8</b>           |                     |                     | <b>SPI</b> |                   |              |
| Lampetra planeri                  | Brook Lamprey            | 7,8,9              |                     |                     |            |                   |              |
| <b>Petromyzon marinus</b>         | <b>Sea Lamprey</b>       |                    |                     |                     | <b>SPI</b> |                   |              |
| <b>Salmo salar</b>                | <b>Atlantic Salmon</b>   | <b>8</b>           |                     |                     | <b>SPI</b> |                   |              |
| <b>Salmo trutta</b>               | <b>Brown Trout</b>       | <b>8</b>           |                     |                     | <b>SPI</b> |                   |              |
| Thymallus thymallus               | Grayling                 | 8                  |                     |                     |            |                   |              |
| <b>Fungi</b>                      |                          |                    |                     |                     |            |                   |              |
| Amanita echinocephala             |                          | 4                  |                     |                     |            |                   |              |
| <b>Bacidia incompta</b>           |                          |                    |                     |                     | <b>SPI</b> | <b>Vulnerable</b> |              |
| Boletus satanas                   | Devil's Bolete           | 4                  |                     |                     |            |                   |              |
| <b>Caloplaca luteoalba</b>        |                          |                    |                     | <b>Sch 8 (full)</b> | <b>SPI</b> |                   |              |
| Geastrum quadrifidum              |                          | 4                  |                     |                     |            |                   |              |
| Hericium cirrhatum                |                          |                    |                     |                     |            |                   |              |
| <b>Piptoporus quercinus</b>       |                          |                    |                     | <b>Sch 8 (full)</b> | <b>SPI</b> |                   |              |
| <b>Insects: ants, bees, wasps</b> |                          |                    |                     |                     |            |                   |              |
| <b>Formicoxenus nitidulus</b>     | <b>Shining Guest Ant</b> | <b>14</b>          |                     |                     | <b>SPI</b> |                   |              |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
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| <i>Lasius flavus</i>                     | an ant                    | 1,2            |                     |               |            |  |              |
| <b>Insects: beetles</b>                  |                           |                |                     |               |            |  |              |
| <i>Acrotrichis lucidula</i>              |                           | 7,9,10         |                     |               |            | Red Data Book K:<br>insufficiently known |              |
| <i>Ceutorhynchus unguicularis</i>        |                           | 1              |                     |               |            | Red Data Book 3:<br>Rare                 |              |
| <b>Gnorimus nobilis</b>                  | <b>Noble Chafer</b>       | <b>13</b>      |                     |               | <b>SPI</b> | <b>Red Data Book 2:<br/>Vulnerable</b>   |              |
| <i>Hydrophilus piceus</i>                | Great Silver Water Beetle | 9,10           |                     |               |            | Red Data Book 3:<br>Rare                 |              |
| <i>Lampyris noctiluca</i>                | Glow-worm                 | 1              |                     |               |            |  |              |
| <b>Lebia cyanocephala</b>                |                           | <b>1</b>       |                     |               | <b>SPI</b> | <b>Red Data Book 1:<br/>Endangered</b>   |              |
| <i>Longitarsus obliteratus</i>           |                           | 1              |                     |               |            |  |              |
| <b>Lucanus cervus</b>                    | <b>Stag Beetle</b>        | <b>4,13,14</b> |                     |               | <b>SPI</b> | <b>Nationally Scarce/Nb</b>              |              |
| <b>Ophonus puncticollis</b>              |                           |                |                     |               | <b>SPI</b> | <b>Red Data Book 3:<br/>Rare</b>         |              |
| <b>Insects: dragonflies, damselflies</b> |                           |                |                     |               |            |  |              |
| <i>Ceriagrion tenellum</i>               | Small Red Damselfly       | 3              |                     |               |            | Nationally Scarce                        |              |
| <i>Gomphus vulgatissimus</i>             | Club-tailed Dragonfly     | 7              |                     |               |            | Near Threatened                          |              |
| <b>Insects: flies</b>                    |                           |                |                     |               |            |  |              |
| <b>Asilus crabroniformis</b>             | <b>Hornet Robberfly</b>   | <b>3</b>       |                     |               | <b>SPI</b> | <b>Nationally Scarce</b>                 |              |
| <i>Criorhina berberina</i>               |                           | 4              |                     |               |            |  |              |
| <b>Dorycera graminum</b>                 |                           | <b>3</b>       |                     |               | <b>SPI</b> | <b>Red Data Book 3:<br/>Rare</b>         |              |
| <i>Eumerus ornatus</i>                   |                           | 4              |                     |               |            | Nationally Scarce                        |              |
| <i>Melanostolus melancholicus</i>        |                           | 7              |                     |               |            | Red Data Book 3:<br>Rare                 |              |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
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| Microdon devius                                  |  | 1        |                           |                     |            | Red Data Book 2:<br>Vulnerable |                                     |
| <b>Insects:<br/>grasshoppers,<br/>crickets</b>   |  |          |                           |                     |            |                                |                                     |
| Metrioptera brachyptera                          | Bog Bush Cricket                       | 3        |                           |                     |            |                                |                                     |
| <b>Insects:<br/>Lepidoptera:<br/>butterflies</b> |  |          |                           |                     |            |                                |                                     |
| Apatura iris                                     | Purple Emperor                         | 4        |                           |                     |            | Nationally Scarce/Nb           | High Priority butterflies           |
| Argynnis aglaja                                  | Dark Green Fritillary                  | 1        |                           |                     |            |                                | Low Priority butterflies            |
| Argynnis paphia                                  | Silver-washed Fritillary               | 4        |                           |                     |            |                                | Low Priority butterflies            |
| <b>Boloria euphrosyne</b>                        | <b>Pearl-bordered Fritillary</b>       | <b>4</b> |                           |                     | <b>SPI</b> | <b>Nationally Scarce/Nb</b>    | <b>Recently Extinct butterflies</b> |
| <b>Boloria selene</b>                            | <b>Small Pearl-bordered Fritillary</b> | <b>4</b> |                           |                     | <b>SPI</b> |                                | <b>Recently Extinct butterflies</b> |
| Callophrys rubi                                  | Green Hairstreak                       | 1        |                           |                     |            |                                | Low Priority butterflies            |
| Celastrina argiolus                              | Holly Blue                             | 11       |                           |                     |            |                                |                                     |
| <b>Cupido minimus</b>                            | <b>Small Blue</b>                      | <b>1</b> |                           |                     | <b>SPI</b> |                                | <b>Medium Priority butterflies</b>  |
| <b>Euphydryas aurinia</b>                        | <b>Marsh Fritillary</b>                | <b>2</b> | <b>Habitats Directive</b> | <b>Sch 5 (full)</b> | <b>SPI</b> | <b>Nationally Scarce/Nb</b>    | <b>High Priority butterflies</b>    |
| <b>Hamearis lucina</b>                           | <b>Duke of Burgundy</b>                | <b>1</b> |                           |                     | <b>SPI</b> | <b>Nationally Scarce/Nb</b>    | <b>Medium Priority butterflies</b>  |
| Hesperia comma                                   | Silver-spotted Skipper                 | 1        |                           |                     |            | Red Data Book 3:<br>Rare       | High Priority butterflies           |
| <b>Leptidea sinapis</b>                          | <b>Wood White</b>                      | <b>4</b> |                           |                     | <b>SPI</b> | <b>Nationally Scarce/Nb</b>    | <b>High Priority butterflies</b>    |
| <b>Limenitis camilla</b>                         | <b>White Admiral</b>                   | <b>4</b> |                           |                     | <b>SPI</b> |                                |                                     |
| Lycaena phlaeas                                  | Small Copper                           | 2,3,11   |                           |                     |            |                                |                                     |
| Lysandra bellargus                               | Adonis Blue                            | 1        |                           |                     |            | Nationally Scarce/Nb           | High Priority butterflies           |
| Lysandra coridon                                 | Chalkhill Blue                         | 1        |                           |                     |            |                                | Low Priority butterflies            |
| <b>Plebejus argus</b>                            | <b>Silver-studded Blue</b>             | <b>3</b> |                           |                     | <b>SPI</b> | <b>Nationally Scarce/Nb</b>    | <b>High Priority butterflies</b>    |
| Satyrrium pruni                                  | Black Hairstreak                       | 4,5      |                           |                     |            |                                | High Priority butterflies           |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



|                                 |                          | HAPs | European Protection | W& C Act 1981 | NERC Act | National status                    | Local Status              |
|---------------------------------|--------------------------|------|---------------------|---------------|----------|------------------------------------|---------------------------|
| <i>Thecla betulae</i>           | Brown Hairstreak         | 4,5  |                     |               | SPI      | Nationally Scarce/Nb               | High Priority butterflies |
| <b>Insects:</b>                 |                          |      |                     |               |          |                                    |                           |
| <b>Lepidoptera: moths</b>       |                          |      |                     |               |          |                                    |                           |
| <i>Adscita statices</i>         | Forester                 | 2,3  |                     |               | SPI      |                                    |                           |
| <i>Apoda limacodes</i>          | Festoon                  | 4    |                     |               |          | Nationally Scarce/Nb               | Medium Priority moths     |
| <i>Catocala promissa</i>        | Light Crimson Underwing  | 4    |                     |               | SPI      | <b>Red Data Book 3: Rare</b>       | High Priority moths       |
| <i>Catocala sponsa</i>          | Dark Crimson Underwing   | 4    |                     |               | SPI      | <b>Red Data Book 2: Vulnerable</b> |                           |
| <i>Chesias rufata</i>           | Broom-tip                | 3    |                     |               | SPI      | Nationally Scarce/Nb               | Medium Priority moths     |
| <i>Cosmia diffinis</i>          | White-spotted Pinion     | 4,14 |                     |               | SPI      | Nationally Scarce/Na               | High Priority moths       |
| <i>Cossus cossus</i>            | Goat Moth                | 4    |                     |               | SPI      | Nationally Scarce/Nb               | Medium Priority moths     |
| <i>Dicycla oo</i>               | Heart Moth               | 4    |                     |               | SPI      | <b>Red Data Book 3: Rare</b>       | High Priority moths       |
| <i>Diloba caeruleocephala</i>   | Figure of Eight          | 13   |                     |               | SPI      |                                    |                           |
| <i>Dyscia fagaria</i>           | Grey Scalloped Bar       | 3    |                     |               |          |                                    |                           |
| <i>Eriogaster lanestris</i>     | Small Eggar              | 5    |                     |               |          | Nationally Scarce/Nb               | Medium Priority moths     |
| <i>Hemaris fuciformis</i>       | Broad-bordered Bee Hawk  | 4    |                     |               |          | Nationally Scarce/Nb               | Medium Priority moths     |
| <i>Hemaris tityus</i>           | Narrow-bordered Bee Hawk | 4    |                     |               | SPI      | Nationally Scarce/Na               |                           |
| <i>Jodia croceago</i>           | Orange Upperwing         | 4    |                     |               | SPI      | <b>Red Data Book 1: Endangered</b> | High Priority moths       |
| <i>Meganola strigula</i>        | Small Black Arches       | 4    |                     |               |          | Nationally Scarce/Na               | Medium Priority moths     |
| <i>Minoa murinata</i>           | Drab Looper              | 4    |                     |               | SPI      | Nationally Scarce/Nb               | High Priority moths       |
| <i>Noctua orbona</i>            | Lunar Yellow Underwing   | 4    |                     |               | SPI      | Nationally Scarce/Nb               | High Priority moths       |
| <i>Oria muscosa</i>             | Brighton Wainscot        | 6    |                     |               | SPI      | Nationally Scarce/Na               | High Priority moths       |
| <i>Scotopteryx bipunctaria</i>  | Chalk Carpet             | 1    |                     |               | SPI      | Nationally Scarce/Nb               | High Priority moths       |
| <i>Shargacucullia lychnitis</i> | Striped Lychnis          | 1    |                     |               | SPI      | Nationally Scarce/Na               | High Priority moths       |
| <i>Spilosoma urticae</i>        | Water Ermine             | 10   |                     |               |          | Nationally Scarce/Nb               |                           |
| <i>Synanthedon myopaeformis</i> | Red-belted Clearwing     | 13   |                     |               |          | Nationally Scarce/Nb               | Medium Priority moths     |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



|                                   |                                  | HAPs   | European Protection | W& C Act 1981 | NERC Act | National status          | Local Status        |
|-----------------------------------|----------------------------------|--------|---------------------|---------------|----------|--------------------------|---------------------|
| <i>Trisateles emortalis</i>       | Olive Crescent                   | 4      |                     |               | SPI      | Red Data Book 3:<br>Rare | High Priority moths |
| <i>Tyta luctuosa</i>              | Four-spotted                     | 1      |                     |               | SPI      | Nationally Scarce/Na     | High Priority moths |
| <i>Xestia rhomboidea</i>          | Square-spotted Clay              | 4      |                     |               |          | Nationally Scarce/Nb     | High Priority moths |
| <b>Insects: mayflies</b>          |                                  |        |                     |               |          |                          |                     |
| <i>Ephemera lineata</i>           | a mayfly                         | 7,9,10 |                     |               |          |                          |                     |
| <b>Insects: true bugs</b>         |                                  |        |                     |               |          |                          |                     |
| <i>Anthocoris minki minki</i>     |                                  | 7,9,10 |                     |               |          | Red Data Book 3:<br>Rare |                     |
| <i>Elasmotethus tristriatus</i>   | Juniper Shield Bug               | 1      |                     |               |          |                          |                     |
| <b>Invertebrates: bryozoans</b>   |                                  |        |                     |               |          |                          |                     |
| <i>Lophopus crystallinus</i>      | a bryozoan or moss animal        | 7,9,10 |                     |               |          | Red Data Book :Rare      |                     |
| <b>Invertebrates: crustaceans</b> |                                  |        |                     |               |          |                          |                     |
| <i>Austropotamobius pallipes</i>  | Freshwater White-clawed Crayfish | 7,8,9  |                     |               | SPI      | Endangered               |                     |
| <i>Chirophalus diaphanus</i>      | a fairy shrimp                   | 9      |                     | Sch 5         |          | Red Data Book            |                     |
| <b>Invertebrates: molluscs</b>    |                                  |        |                     |               |          |                          |                     |
| <i>Abida secale</i>               | Large Chrysalis Snail            | 1      |                     |               |          |                          |                     |
| <i>Ashfordia granulata</i>        | Silky Snail                      | 10     |                     |               |          |                          |                     |
| <i>Ena montana</i>                | Mountain Bulin                   | 4      |                     |               |          |                          |                     |
| <i>Gyraulus acronicus</i>         | Thames Ram's-horn                | 7,9,10 |                     |               | SPI      |                          |                     |
| <i>Helicella itala</i>            | Heath Snail                      | 1      |                     |               |          |                          |                     |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



|  |                                  | HAPs            | European Protection       | W& C Act 1981            | NERC Act   | National status             | Local Status |
|--|----------------------------------|-----------------|---------------------------|--------------------------|------------|-----------------------------|--------------|
|  |                                  |                 |                           | Sch 5 Sec 9.1, 9.29.5a+b |            |                             |              |
| Helix pomatia                            | Roman Snail                      | 1               |                           |                          |            |                             |              |
| Limax tenellus                           | Slender Slug                     | 4               |                           |                          |            |                             |              |
| <b>Pisidium tenuilineatum</b>            | <b>Freshwater Pea Mussel</b>     | <b>7,8</b>      |                           |                          | <b>SPI</b> |                             |              |
| <b>Pseudanodonta complanata</b>          | <b>Compressed River Mussel</b>   | <b>7,8</b>      |                           |                          | <b>SPI</b> |                             |              |
| <b>Segmentina nitida</b>                 | <b>Shining Ram's-horn</b>        | <b>10</b>       |                           |                          | <b>SPI</b> |                             |              |
| <b>Valvata macrostoma</b>                | <b>Large-mouthed Valve Snail</b> | <b>10</b>       |                           |                          | <b>SPI</b> |                             |              |
| <b>Invertebrates: spiders and allies</b> |                                  |                 |                           |                          |            |                             |              |
| Gibbaranea bituberculata                 |                                  | 4               |                           |                          |            | Red Data Book 1: Endangered |              |
| Hyptiotes paradoxus                      |                                  | 4               |                           |                          |            | Red Data Book 3: Rare       |              |
| Tapinocyboides pygmaeus                  |                                  | 1               |                           |                          |            | Red Data Book 3: Rare       |              |
| Xysticus luctator                        |                                  | 4               |                           |                          |            | Red Data Book 2: Vulnerable |              |
| <b>Mammals</b>                           |                                  |                 |                           |                          |            |                             |              |
| <b>Arvicola terrestris</b>               | <b>Water Vole</b>                | <b>7,8,9,10</b> |                           | <b>Sch 5 (full)</b>      | <b>SPI</b> |                             |              |
| <b>Barbastella barbastellus</b>          | <b>Western Barbastelle</b>       | <b>14</b>       | <b>Habitats Directive</b> | <b>Sch 5 (full)</b>      | <b>SPI</b> |                             |              |
| Eptesicus serotinus                      | Serotine                         | 3               | Habitats Directive        | Sch 5 (full)             |            |                             |              |
| <b>Erinaceus europaeus</b>               | <b>Hedgehog</b>                  | <b>11</b>       |                           |                          | <b>SPI</b> |                             |              |
| <b>Lepus europaeus</b>                   | <b>Brown Hare</b>                | <b>2,5,6</b>    |                           |                          | <b>SPI</b> |                             |              |
| <b>Lutra lutra</b>                       | <b>Otter</b>                     | <b>7,8,9,10</b> | <b>Habitats Directive</b> | <b>Sch 5 (full)</b>      | <b>SPI</b> |                             |              |
| <b>Micromys minutus</b>                  | <b>Harvest Mouse</b>             | <b>2,5,6,10</b> |                           |                          | <b>SPI</b> |                             |              |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



|                                 |                             | HAPs                 | European Protection       | W& C Act 1981       | NERC Act   | National status | Local Status             |
|---------------------------------|-----------------------------|----------------------|---------------------------|---------------------|------------|-----------------|--------------------------|
| <b>Muscardinus avellanarius</b> | <b>Hazel Dormouse</b>       | <b>4,5</b>           | <b>Habitats Directive</b> | <b>Sch 5 (full)</b> | <b>SPI</b> |                 |                          |
| Myotis daubentonii              | Daubenton's Bat             | 7,8,9,10             | Habitats Directive        | Sch 5 (full)        |            |                 |                          |
| Myotis mystacinus               | Whiskered Bat               | 7,9,10               | Habitats Directive        | Sch 5 (full)        |            |                 |                          |
| Myotis nattereri                | Natterer's Bat              | 7                    | Habitats Directive        | Sch 5 (full)        |            |                 |                          |
| Neomys fodiens                  | Water Shrew                 | 7,8,9,10             |                           |                     |            |                 |                          |
| <b>Nyctalus noctula</b>         | <b>Noctule Bat</b>          | <b>3</b>             | <b>Habitats Directive</b> | <b>Sch 5 (full)</b> | <b>SPI</b> |                 |                          |
| Pipistrellus pipistrellus       | Common Pipistrelle          | 3,4,5,7,8,9,10,11,14 | Habitats Directive        | Sch 5 (full)        |            |                 |                          |
| <b>Plecotus auritus</b>         | <b>Brown Long-eared Bat</b> | <b>4,7</b>           | <b>Habitats Directive</b> | <b>Sch 5 (full)</b> | <b>SPI</b> |                 |                          |
| <b>Plants</b>                   |                             |                      |                           |                     |            |                 | <b>Local Status</b>      |
| <b>Adonis annua</b>             | <b>Pheasant's-eye</b>       | <b>6</b>             |                           |                     | <b>SPI</b> | <b>Rare</b>     | <b>Extinct</b>           |
| Adoxa moschatellina             | Moschatel                   | 4                    |                           |                     |            |                 |                          |
| Bromopsis benekenii             | Lesser Hairy-brome          | 4                    |                           |                     |            | Scarce          | County Scarce            |
| Butomus umbellatus              | Flowering-rush              | 7,9                  |                           |                     |            |                 |                          |
| Buxus sempervirens              | Box                         | 1,4                  |                           |                     |            | Rare            |                          |
| Calluna vulgaris                | Heather                     | 3                    |                           |                     |            |                 |                          |
| Cardamine bulbifera             | Coralroot                   | 4                    |                           |                     |            | Scarce          |                          |
| Carex binervis                  | Green-ribbed Sedge          | 3                    |                           |                     |            |                 | County Scarce            |
| Carex curta                     | White Sedge                 | 3                    |                           |                     |            |                 | County Rare              |
| <b>Centaurea cyanus</b>         | <b>Cornflower</b>           | <b>6</b>             |                           |                     | <b>SPI</b> |                 | <b>Extinct as native</b> |
| <b>Cephalanthera damasonium</b> | <b>White Helleborine</b>    | <b>4</b>             |                           |                     | <b>SPI</b> |                 |                          |
| <b>Cephalanthera rubra</b>      | <b>Red Helleborine</b>      | <b>4</b>             |                           | <b>Sch 8 (full)</b> | <b>SPI</b> | <b>Rare</b>     | <b>County Rare</b>       |
| Chrysanthemum segetum           | Corn Marigold               | 6                    |                           |                     |            |                 |                          |
| Cuscuta europaea                | Greater Dodder              | 7                    |                           |                     |            | Scarce          |                          |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



|                               |                            | HAPs        | European Protection       | W& C Act 1981 | NERC Act | National status | Local Status  |
|-------------------------------|----------------------------|-------------|---------------------------|---------------|----------|-----------------|---------------|
| <b>Cyperus fuscus</b>         | <b>Brown Galingale</b>     | <b>9,10</b> |                           | Sch 8 (full)  | SPI      | Rare            | County Rare   |
| Dactylorhiza maculata         | Heath Spotted-orchid       | 3           |                           |               |          |                 |               |
| <b>Damasonium alisma</b>      | <b>Starfruit</b>           | <b>9</b>    |                           | Sch 8 (full)  | SPI      | Rare            | County Scarce |
| Drosera rotundifolia          | Round-leaved Sundew        | 3           |                           |               |          |                 |               |
| Epipactis muelleri            | Narrow-lipped Heleborine   | 4           |                           |               |          | Scarce          |               |
| Epipactis palustris           | Marsh Helleborine          | 10          |                           |               |          |                 | County Rare   |
| Epipactis phyllanthes         | Green-flowered Helleborine | 4           |                           |               |          | Scarce          | County Scarce |
| Epipogium aphyllum            | Ghost Orchid               | 4           |                           | Sch 8 (full)  |          | Rare            | County Rare   |
| Erica cinerea                 | Bell Heather               | 3           |                           |               |          |                 | County Scarce |
| Erica tetralix                | Cross-leaved Heath         | 3           |                           |               |          |                 | County Scarce |
| Euphorbia platyphyllos        | Broad-leaved Spurge        | 6           |                           |               |          |                 |               |
| Filago minima                 | Small Cudweed              | 3           |                           |               |          |                 | County Scarce |
| Fritillaria meleagris         | Fritillary                 | 2           |                           |               |          | Scarce          | County Scarce |
| <b>Galeopsis angustifolia</b> | <b>Red Hemp-nettle</b>     | <b>6</b>    |                           |               | SPI      | Scarce          | County Scarce |
| Genista anglica               | Petty whin                 | 3           |                           |               |          |                 | County Scarce |
|                               |                            |             | <b>Habitats Directive</b> |               |          |                 |               |
| <b>Gentianella anglica</b>    | <b>Early Gentian</b>       | <b>1</b>    |                           | Sch 8 (full)  | SPI      | Scarce          | County Scarce |
| <b>Gentianella ciliata</b>    | <b>Fringed Gentian</b>     | <b>1</b>    |                           | Sch 8 (full)  | SPI      | Rare            | County Rare   |
| Gentianella germanica         | Chiltern Gentian           | 1           |                           |               |          | Scarce          |               |
| Geranium pratense             | Meadow Crane's-bill        | 2,11        |                           |               |          |                 |               |
| Gymnadenia conopsea           | Fragrant Orchid            | 1           |                           |               |          |                 |               |
| Hippocrepis comosa            | Horseshoe Vetch            | 1           |                           |               |          |                 |               |
| Hordelymus europaeus          | Wood Barley                | 4           |                           |               |          | Scarce          |               |
| Hyacinthoides non-scripta     | Bluebell                   | 4           |                           |               |          |                 |               |
| Hydrocotyle vulgaris          | Marsh Pennywort            | 3,9,10      |                           |               |          |                 |               |
| <b>Iberis amara</b>           | <b>Wild Candytuft</b>      | <b>1</b>    |                           |               | SPI      | Scarce          |               |
| Juncus subnodulosus           | Blunt-flowered Rush        | 10          |                           |               |          |                 |               |
| <b>Juniperus communis</b>     | <b>Juniper</b>             | <b>1</b>    |                           |               | SPI      |                 |               |
| Legousia hybrida              | Venus's-looking-glass      | 6           |                           |               |          |                 |               |
| Limosella aquatica            | Mudwort                    | 9,10        |                           |               |          | Scarce          | County Rare   |
| Lithospermum arvense          | Field Gromwell             | 6           |                           |               |          |                 |               |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



|   |                                | HAPs        | European Protection | W& C Act 1981       | NERC Act   | National status | Local Status         |
|---|--------------------------------|-------------|---------------------|---------------------|------------|-----------------|----------------------|
| <i>Lysimachia vulgaris</i>                                  | Yellow Loosestrife             | 9,10        |                     |                     |            |                 |                      |
| <i>Myriophyllum verticillatum</i>                           | Whorled Water-milfoil          | 9           |                     |                     |            |                 | Extinct              |
| <i>Oenanthe fluviatilis</i>                                 | River Water-dropwort           | 7,8,9       |                     |                     |            |                 |                      |
| <i>Ophioglossum vulgatum</i>                                | Adder's-tongue                 | 1,2         |                     |                     |            |                 |                      |
| <i>Orchis mascula</i>                                       | Early-purple Orchid            | 4           |                     |                     |            |                 |                      |
| <i>Orchis militaris</i>                                     | Military Orchid                | 1,4         |                     | Sch 8 (full)        |            | Rare            | County Rare          |
| <i>Orchis morio</i>   | Green-winged Orchid            | 2           |                     |                     |            |                 |                      |
| <i>Ornithopus perpusillus</i>                               | Bird's-foot                    | 3           |                     |                     |            |                 |                      |
| <i>Paris quadrifolia</i>                                    | Herb-paris                     | 4           |                     |                     |            |                 |                      |
| <i>Petroselinum segetum</i>                                 | Corn Parsley                   | 6           |                     |                     |            |                 |                      |
| <i>Physospermum cornubiense</i>                             | Bladderseed                    | 4           |                     |                     |            | Rare            | County Rare          |
| <i>Populus nigra</i> subsp. <i>betulifolia</i>              | Black Poplar                   | 5,7,9,10,11 |                     |                     |            |                 | Locally Important    |
| <b>Potamogeton compressus</b>                               | <b>Grass-wrack Pondweed</b>    | <b>9</b>    |                     |                     | <b>SPI</b> | <b>Scarce</b>   | <b>County Scarce</b> |
| <i>Primula veris</i>  | Cowslip                        | 2           |                     |                     |            |                 |                      |
| <b>Pulicaria vulgaris</b>                                   | <b>Small Fleabane</b>          | <b>9,10</b> |                     | <b>Sch 8 (full)</b> | <b>SPI</b> | <b>Rare</b>     |                      |
| <b>Pulsatilla vulgaris</b>                                  | <b>Pasqueflower</b>            | <b>1</b>    |                     |                     | <b>SPI</b> | <b>Scarce</b>   | <b>County Rare</b>   |
| <b>Ranunculus arvensis</b>                                  | <b>Corn Buttercup</b>          | <b>6</b>    |                     |                     | <b>SPI</b> |                 |                      |
| <i>Ranunculus fluitans</i>                                  | River Water-crowfoot           | 8,9         |                     |                     |            |                 |                      |
| <i>Ranunculus hederaceus</i>                                | Ivy-leaved Crowfoot            | 9           |                     |                     |            |                 | County Scarce        |
| <i>Ranunculus peltatus</i>                                  | Pond Water-crowfoot            | 8           |                     |                     |            |                 |                      |
| <i>Ranunculus penicillatus</i> subsp. <i>pseudofluitans</i> | var <i>pseudofluitans</i>      | 8           |                     |                     |            |                 |                      |
| <i>Salvia pratensis</i>                                     | Meadow Clary                   | 1           |                     | Sch 8 (full)        |            | Scarce          | County Rare          |
| <i>Saxifraga granulata</i>                                  | Meadow Saxifrage               | 2           |                     |                     |            |                 |                      |
| <b>Scandix pecten-veneris</b>                               | <b>Shepherd's-needle</b>       | <b>6</b>    |                     |                     | <b>SPI</b> |                 | <b>County Scarce</b> |
| <i>Scutellaria minor</i>                                    | Lesser Skullcap                | 3           |                     |                     |            |                 | County Scarce        |
| <b>Silene gallica</b>                                       | <b>Small-flowered Catchfly</b> | <b>6</b>    |                     |                     | <b>SPI</b> | <b>Scarce</b>   | <b>Extinct</b>       |
| <b>Sium latifolium</b>                                      | <b>Greater Water-parsnip</b>   | <b>9,10</b> |                     |                     | <b>SPI</b> | <b>Scarce</b>   | <b>Extinct</b>       |
| <i>Sorbus torminalis</i>                                    | Wild Service-tree              | 4           |                     |                     |            |                 |                      |

Buckinghamshire and Milton Keynes Biodiversity Action Plan  
Appendix 1 – Key Species



|                                       |  | HAPs     | European Protection | W& C Act 1981       | NERC Act   | National status | Local Status         |
|---------------------------------------|--|----------|---------------------|---------------------|------------|-----------------|----------------------|
| <i>Thelypteris palustris</i>          | Marsh Fern                             | 10       |                     |                     |            | Scarce          | County Rare          |
| <b><i>Thlaspi perfoliatum</i></b>     | <b>Perfoliate Penny-cress</b>          | <b>6</b> |                     | <b>Sch 8 (full)</b> | <b>SPI</b> | <b>Rare</b>     |                      |
| <b><i>Torilis arvensis</i></b>        | <b>Spreading Hedge-parsley</b>         | <b>6</b> |                     |                     | <b>SPI</b> | <b>Scarce</b>   | <b>County Scarce</b> |
| <i>Trifolium striatum</i>             | Knotted Clover                         | 3        |                     |                     |            |                 | County Scarce        |
| <i>Triglochin palustre</i>            | Marsh Arrowgrass                       | 9,10     |                     |                     |            |                 |                      |
| <i>Utricularia australis</i>          | Bladderwort                            | 3        |                     |                     |            |                 | County Rare          |
| <i>Vaccinium myrtillus</i>            | Bilberry                               | 3        |                     |                     |            |                 | County Scarce        |
| <i>Valerianella dentata</i>           | Narrow-fruited Cornsalad               | 6        |                     |                     |            |                 |                      |
| <i>Viscum album</i>                   | Mistletoe                              | 13       |                     |                     |            |                 |                      |
| <b>Plants: mosses and liverworts</b>  |  |          |                     |                     |            |                 |                      |
| <b><i>Leptodontium gemmascens</i></b> | <b>Thatch-moss</b>                     | <b>4</b> |                     |                     | <b>SPI</b> |                 |                      |
| <b><i>Sphagnum spp</i></b>            | <b>Sphagnum mosses</b>                 | <b>3</b> |                     |                     |            |                 |                      |
| <b><i>Weissia squarrosa</i></b>       | <b>Spreading-leaved Beardless-moss</b> | <b>2</b> |                     |                     | <b>SPI</b> |                 |                      |
| <b><i>Zygodon forsteri</i></b>        | <b>Knothole Yoke-moss</b>              | <b>4</b> |                     | <b>Sch 8 (full)</b> | <b>SPI</b> |                 |                      |