

## **Appendix 13: Biodiversity Action Plan Summary**

**Manea & Welney District Drainage Commissioners**



## **Biodiversity Action Plan Summary for Manea & Welney District Drainage Commissioners (317)**

The actions listed in this appendix summarise Manea & Welney District Drainage Commissioners' Biodiversity Action Plan as a part of the larger Middle Level Biodiversity Action Plan. The plan has been prepared in accordance with the commitment in the Implementation Plan of the DEFRA Internal Drainage Board Review for IDBs to produce their own Biodiversity Action Plans by April, 2010.

It also demonstrates the Commissioners' commitment to fulfilling their duty as a public body under the Natural Environment and Rural Communities Act 2006 to conserve biodiversity.

Many of the Commissioners' activities have benefits for biodiversity, not least water level management and ditch maintenance work. This Biodiversity Action Plan will help the Commissioners to maximise the biodiversity benefits of their activities and demonstrate their contribution to the Government's UK Biodiversity Action Plan targets.

The Commissioners have adopted the Biodiversity Action Plan as a policy and are committed to its implementation. The plan will be reviewed periodically and updated as appropriate.

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Date .....

John Heading  
Chairman of the Commissioners

This Biodiversity Action Plan is a public statement by the Commissioners of their biodiversity objectives and the methods by which we intend to achieve them.

We would welcome appropriate involvement in the delivery of the Plan from interested organisations, companies, and individuals.

You can contact us about this Biodiversity Action Plan by writing to the following address:

Manea & Welney District Drainage Commissioners  
Middle Level Offices  
Dartford Road  
March  
Cambs PE15 8AF

or by email: [admin@middlelevel.gov.uk](mailto:admin@middlelevel.gov.uk)

Further information is available on the Middle Level Commissioners' website:  
<http://www.middlelevel.gov.uk/>

or from the Environmental Officer employed by the Commissioners to advise on biodiversity matters:  
[cliff.carson@middlelevel.gov.uk](mailto:cliff.carson@middlelevel.gov.uk)

## ***Biodiversity Audit***

### **Map**

The location map shows the drainage district, Adopted drains, Middle Level main drains, Environment Agency main river and any relevant designated sites and ditches of biodiversity interest.

### **Designated Sites**

- International sites: none
  - Adjacent to the Ouse Washes, designated for its bird populations and its floodplain grazing marsh habitat
- National and local statutory sites: none
  - Adjacent to the Ouse Washes
- County Wildlife Sites: 2
  - Bedlam Hill Pit
  - Manea Pit
  - Adjacent to Forty Foot Drain East CWS
- Scheduled monuments: none

### **Habitats**

Key habitats for Manea & Welney DDC:

- Drainage ditch
- Reedbed
- Grazing marsh
- Open water

### **Species**

Key species for Manea & Welney DDC:

- Water vole
- Otter
- Bats
- Kingfisher
- Barn owl

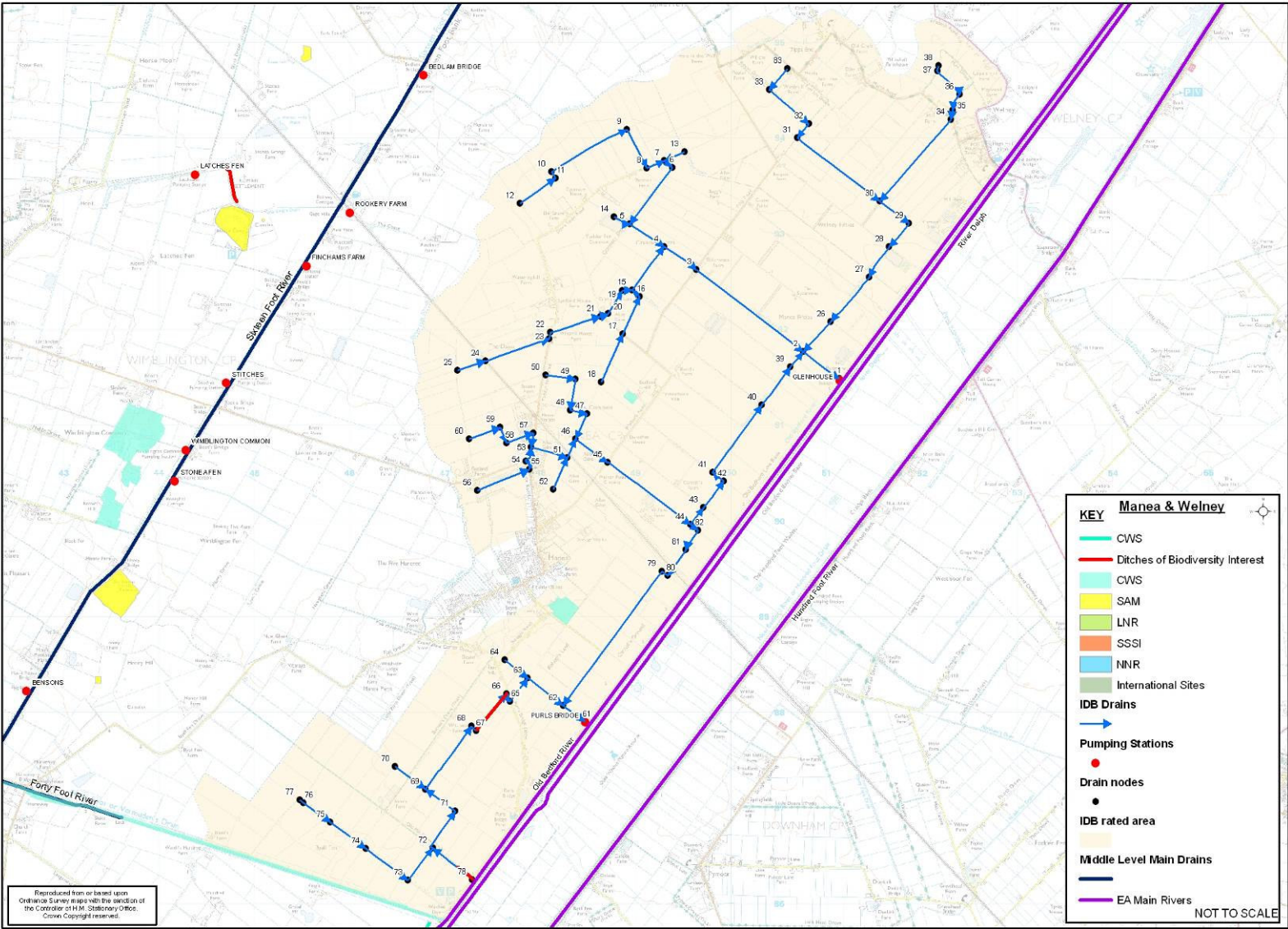
### **Procedural**

Training and capital works are covered by a Procedural Action Plan.

### **Notes**

There are water vole records from some DDC drains, and a concentration of water vole and otter records at Welches Dam. Water voles will be assumed to be present when carrying out work, as there has been no comprehensive survey. Otters use the Ouse Washes and probably also the Forty Foot River. A list of species recorded in the drainage district is provided at the end of this document. The list is restricted to BAP species and species listed under the Wildlife & Countryside Act 1981.

Location Map



## Drainage Ditch Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Manage ditches for biodiversity as well as for drainage	1.1	Establish and maintain a management plan for routine IDB operations incorporating key biodiversity features	Environmental Officer	2015	Plan finalised and followed each year	<i>Annual after plan created</i>
		1.2	Look for opportunities to provide natural erosion protection such as marginal plant ledges when re-profiling ditches	Environmental Officer	Ongoing	If re-profiling is carried out, opportunities identified	<i>Annual</i>
		1.3	Provide natural erosion protection as in 1.2 if opportunities available	Environmental Officer	Ongoing	Length of ditch with ledge / natural vegetation revetment	<i>Annual if opportunities available</i>
2	Identify ditches of conservation interest and manage appropriately	2.2	Ensure appropriate management of ditches for priority species	Environmental Officer, Plantlife, Wildlife Trust	Ongoing	Specified in management plan	<i>Annual</i>
3	Support the Environmental Officer in working with landowners to benefit wildlife in the district	3.1	Refer private landowners to the Environmental Officer for advice on creating field margin buffer zones and wildlife-friendly ditch management	Environmental Officer, Natural England, Wildlife Trust, FWAG	Ongoing	Number of contacts received and passed to Environmental Officer	<i>Annual</i>
4	Control invasive species	4.1	Report any sightings of non-native invasive species immediately to the Environmental Officer and control as appropriate (see Appendix F for species list)	Environmental Officer, Environment Agency, Plantlife, Wildlife Trust	Ongoing	Reports to Environmental Officer	<i>Annual</i>
5	Plant black poplars to increase existing population	5.1	Identify suitable sites and plant at least 2 young black poplars	Environmental Officer	2015	Number of trees planted	<i>2015 with annual progress reports</i>

## Reedbed Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Identify, assess and map any areas of reedbed over 0.5ha in size	1.1	Pass details of any known areas to MLC Environmental Officer	Wildlife Trust, Natural England, Environment Agency	2012	Review of reedbed areas carried out	2013
2	Support appropriate reedbed creation	2.2	Manage the District adopted drains, where possible, to assist private landowners who wish to create areas of reedbed on their own land	Wildlife Trust, Environment Agency	Ongoing	(a) Number of requests received (b) Number of landowners assisted	<i>In response to approaches</i>
3	Take conservation value of reedbed into account when planning and carrying out ditch and river maintenance	3.2	Where reeds are present, commence mowing or cleansing work outside the bird breeding season (7 <sup>th</sup> April – 15 <sup>th</sup> July). Where reeds are growing in water be aware of the potential for late-nesting reed warblers being present until late August and avoid mowing in that location. In exceptional circumstances where this is not possible, seek advice from the Environmental Officer.	Environmental Officer, Wildlife Trust, RSPB	Ongoing	Reeds not cut during bird nesting season	<i>Annual</i>

## Grazing Marsh Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Identify, assess and map areas of existing floodplain grazing marsh	1.1	Pass details of any known areas to Environmental Officer	Wildlife Trust, RSPB, WWT, Natural England, Environment Agency	2012	Review of potential grazing marsh area carried out	2013

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2	Support landowners in creating or restoring grazing marsh / wet grassland	2.1	Manage District adopted drains where possible to assist private landowners and organisations undertaking habitat creation	Environmental Officer, Natural England, RSPB, WWT, Wildlife Trust	Ongoing	(a) Number of requests received (b) Number of landowners assisted	<i>Annual</i>
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## Open Water Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Promote the creation of ponds, lakes and reservoirs in appropriate areas	1.1	Consider pond creation as mitigation when a ditch has to be filled in or culverted	Local authorities, Amphibian & Reptile Conservation, Wildlife Trust	Ongoing	(a) Number of mitigation opportunities (b) Number of ponds created	<i>Annual</i>
		1.2	Support creation of flood storage areas and reservoirs	Environment Agency, Natural England, Wildlife Trust, RSPB	Ongoing	Number of projects involved with	<i>Annual</i>
		1.3	Assist private landowners with advice, information or contacts as necessary	Amphibian & Reptile Conservation, Wildlife Trust	Ongoing	(a) Number of information requests (b) Number responded to	<i>Annual</i>
2	Look for opportunities to create open water habitat when managing ditches	2.1	Create a pool at an appropriate ditch junction when re-profiling (see the Drainage Channel Biodiversity Manual, technique CL3))	Environmental Officer	2010	One pool successfully created	<i>When created or every 5 years</i>
3	Support appropriate habitat creation as part of gravel pit restoration	3.1	Support inclusion of wetland habitats such as wet woodland, wet grassland, scrub and open water in gravel pit restoration schemes	Aggregates companies, local authorities, RSPB, WWT, Wildlife Trust	Ongoing	Number of schemes involved with	<i>Every 10 years</i>



## Water Vole Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Manage ditches according to the law and to best practice for water vole	1.1	Assume water voles are present when carrying out works (discuss special circumstances with the Environmental Officer) and follow the ADA water vole mitigation guide	Environmental Officer	Ongoing	Measures incorporated in management plans	<i>Annual</i>
		1.2	Publicise good practice for rat control near drainage ditches	Environmental Officer, Wildlife Trust	Ongoing	Good practice publicised	<i>Annual</i>
2	Enhance drainage ditch habitat to benefit water vole	2.1	Look for opportunities to add a marginal shelf when re-profiling banks	Environmental Officer	Ongoing	(a) Opportunities identified (b) Measures taken	<i>Annual</i>
		2.2	Consider using coir roll to stabilise banks and provide marginal vegetation	Environmental Officer	Ongoing	(a) Sites considered (b) Measures taken	<i>Annual</i>
3	Monitor water vole populations	3.1	Set up a survey programme to monitor water vole populations	Environmental Officer, Wildlife Trust	2010	Surveys carried out	<i>Annual</i>
		3.2	Provide data on water vole to the relevant Biological Records Centres	Environmental Officer, CPBRC, NBIS	Ongoing	Data sent via Environmental Officer annually	<i>Annual</i>
4	Control mink as necessary	4.2	Carry out mink control as part of the Middle Level programme and report all sightings to the Environmental Officer	Environmental Officer	Ongoing	(a) Number of trapping days (b) Number of mink caught	<i>Annual</i>

## Otter Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Improve otter habitat	1.1	Identify and maintain existing key bushes and trees near watercourses likely to be important for otters	Environmental Officer	2012 and ongoing	Sites identified and listed in management plans	<i>Annual</i>



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2	Monitor otter populations	2.3	Ensure any dead otters are reported to the Environmental Officer and transferred to the Environment Agency for post mortem	Environment Agency	Ongoing	Otters reported to Environmental Officer, if found	<i>Annual</i>
3	Reduce otter deaths related to eel and crayfish trapping and road traffic	3.1	Report incidents of suspected illegal netting, trapping or fishing to the Environment Agency Fisheries Officers and the MLC Environmental Officer	Environment Agency, Angling Clubs & syndicates	Ongoing	Incidents reported, if discovered	<i>Annual</i>

## Bats Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Improve habitat for bats	1.1	Put up at least 3 bat boxes at appropriate sites, e.g. pumping stations	Bat Conservation Trust	2015	Number of bat boxes sited	<i>2015 with annual progress report</i>
		1.2	Pollard suitable trees to provide bat roosts		Ongoing	Number of trees pollarded	<i>Annual</i>
		1.3	Identify potential sites for a bat hibernaculum, e.g. in disused buildings or tunnels	Environmental Officer, Bat Conservation Trust	As opportunities arise	(a) Potential sites looked for (b) Site created	<i>Annual</i>
2	Collect information on bat populations	2.1	Monitor bat boxes	Bat Conservation Trust	2015 onwards	(a) Number of boxes monitored (b) Number of boxes used by bats	<i>Annual</i>
		2.2	Pass bat box information to CPBRC and NBIS	Environmental Officer, CPBRC, NBIS	2015 onwards	Data via Environmental Officer annually	<i>Annual</i>

## Kingfisher Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Improve the quality of kingfisher habitat	1.1	Provide at least one potential nest hole in sheet pilings	Environmental Officer	Ongoing	Number of nest sites provided	<i>2015 with annual progress report</i>
		1.2	Leave kingfisher fishing perches where possible (e.g. occasional branch)	Environmental Officer	Ongoing	Number of perch sites left	<i>Annual</i>
2	Collect records of kingfisher breeding between March and July	2.1	Note sightings of potential breeding kingfisher and pass information to CPBRC and NBIS via the Environmental Officer	Environmental Officer, CPBRC, NBIS	Ongoing	Data sent via Environmental Officer annually	<i>Annual</i>

## Barn Owl Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Improve the quality of barn owl habitat	1.1	Put up at least 3 barn owl nest boxes in suitable locations	Wildlife Conservation Partnership	2015	Number of nest boxes provided	<i>2015 with annual progress report</i>
		1.2	Pollard suitable trees to provide natural nest sites	Environmental Officer	Ongoing	Number of trees pollarded	<i>Annual</i>
2	Collect records of barn owl presence	2.1	Monitor nest boxes for use. Have occupied boxes checked for success by licensed barn owl ringers.	Wildlife Conservation Partnership	2015	(a) Number of nest boxes checked by licensed ringers (b) Number of nest boxes used	<i>Annual once boxes installed</i>

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		2.2	Pass barn owl box information to CPBRC and NBIS	Environmental Officer, Wildlife Conservation Partnership, CPBRC, NBIS	2015	Data sent via Environmental Officer annually	<i>Annual once boxes installed</i>
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## Procedural Action Plan

Target Reference	Target	Action Reference	IDB Actions	Partners	Date	Indicators	Reporting
1	Provide training on IDB BAP and conservation management of drainage channels for all relevant staff by 2013	1.1	Establish programme of 1-day courses for IDB staff and members	Environmental Officer, Wildlife Trust, Natural England, other specialists	2013	(a) Number of courses held (b) Number of Board members / staff attending courses	<i>Annual</i>
		1.2	Establish suitable training for contractors' staff	Environmental Officer, Contractors	2013	Contractors attended training course	<i>Annual</i>
2	Take biodiversity into account when planning and undertaking capital works	2.1	Consult with the Environmental Officer and choose the best possible mitigation solutions for biodiversity, e.g. fish-friendly pumps	Environmental Officer	Ongoing	(a) Number of capital schemes undertaken (b) Number of schemes commented on	<i>Annual</i>

Species list for Manea & Welney DDC using data from the Cambridgeshire and Peterborough Biological Records Centre and the Norfolk Biodiversity Information Service:

<b>Designation</b>	<b>Taxon Group</b>	<b>Common Name</b>	<b>Scientific Name</b>
UKBAP	bird	Bittern	<i>Botaurus stellaris</i>
UKBAP	bird	Common Bullfinch	<i>Pyrrhula pyrrhula</i>
UKBAP	bird	Common Cuckoo	<i>Cuculus canorus</i>
UKBAP	bird	Common Linnet	<i>Carduelis cannabina</i>
UKBAP	bird	Common Scoter	<i>Melanitta nigra</i>
UKBAP	bird	Common Starling	<i>Sturnus vulgaris</i>
UKBAP	bird	Corn Bunting	<i>Emberiza calandra</i>
UKBAP	bird	Corn Bunting	<i>Miliaria calandra</i>
UKBAP	bird	Eurasian Curlew	<i>Numerius arquata</i>
UKBAP	bird	Eurasian Tree Sparrow	<i>Passer montanus</i>
UKBAP	bird	Eurasian Wryneck	<i>Jynx torquilla</i>
UKBAP	bird	European Nightjar	<i>Caprimulgus europaeus</i>
UKBAP	bird	European Turtle Dove	<i>Streptopelia turtur</i>
UKBAP	bird	Greater White-fronted Goose	<i>Anser albifrons</i>
UKBAP	bird	Greenland White-fronted Goose	<i>Anser albifrons subsp. flavirostris</i>
UKBAP	bird	Grey Partridge	<i>Perdix perdix</i>
UKBAP	bird	Hedge Accentor	<i>Prunella modularis</i>
UKBAP	bird	House Sparrow	<i>Passer domesticus</i>
UKBAP	bird	Lesser Redpoll	<i>Carduelis cabaret</i>
UKBAP	bird	Northern Lapwing	<i>Vanellus vanellus</i>
UKBAP	bird	Red-necked Phalarope	<i>Phalaropus lobatus</i>
UKBAP	bird	Reed Bunting	<i>Emberiza schoeniclus</i>
UKBAP	bird	Sky Lark	<i>Alauda arvensis</i>
UKBAP	bird	Spotted Flycatcher	<i>Muscicapa striata</i>
UKBAP	bird	Willow Tit	<i>Poecile montanus</i>
UKBAP	bird	Yellow Wagtail	<i>Motacilla flava</i>
UKBAP	bird	Yellowhammer	<i>Emberiza citrinella</i>
UKBAP	insect - butterfly	Wall	<i>Lasiommata megera</i>
UKBAP	insect - moth	Autumnal Rustic	<i>Eugnorisma glareosa</i>
UKBAP	insect - moth	Beaded Chestnut	<i>Agrochola lychnidis</i>
UKBAP	insect - moth	Blood-Vein	<i>Timandra comae</i>
UKBAP	insect - moth	Bordered Gothic	<i>Heliophobus reticulata</i>
UKBAP	insect - moth	Brindled Beauty	<i>Lycia hirtaria</i>
UKBAP	insect - moth	Broom Moth	<i>Melanchra pisi</i>
UKBAP	insect - moth	Brown-spot Pinion	<i>Agrochola litura</i>
UKBAP	insect - moth	Buff Ermine	<i>Spilosoma luteum</i>
UKBAP	insect - moth	Centre-barred Sallow	<i>Atethmia centrargo</i>
UKBAP	insect - moth	Cinnabar	<i>Tyria jacobaeae</i>
UKBAP	insect - moth	Crescent	<i>Celaena leucostigma</i>
UKBAP	insect - moth	Dark Brocade	<i>Blepharita adusta</i>
UKBAP	insect - moth	Dark Spinach	<i>Pelurga comitata</i>
UKBAP	insect - moth	Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>
UKBAP	insect - moth	Dot Moth	<i>Melanchra persicariae</i>
UKBAP	insect - moth	Double Dart	<i>Graphiphora augur</i>
UKBAP	insect - moth	Dusky Brocade	<i>Apamea remissa</i>
UKBAP	insect - moth	Dusky Thorn	<i>Ennomos fuscantaria</i>
UKBAP	insect - moth	Feathered Gothic	<i>Tholera decimalis</i>

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UKBAP	insect - moth	Flounced Chestnut	<i>Agrochola helvola</i>
UKBAP	insect - moth	Garden Dart	<i>Euxoa nigricans</i>
UKBAP	insect - moth	Garden Tiger	<i>Arctia caja</i>
UKBAP	insect - moth	Ghost Moth	<i>Hepialus humuli</i>
UKBAP	insect - moth	Goat Moth	<i>Cossus cossus</i>
UKBAP	insect - moth	Grey Dagger	<i>Acronicta psi</i>
UKBAP	insect - moth	Knot Grass	<i>Acronicta rumicis</i>
UKBAP	insect - moth	Lackey	<i>Malacosoma neustria</i>
UKBAP	insect - moth	Large Nutmeg	<i>Apamea anceps</i>
UKBAP	insect - moth	Latticed Heath	<i>Chiasmia clathrata</i>
UKBAP	insect - moth	Mottled Rustic	<i>Caradrina morpheus</i>
UKBAP	insect - moth	Mouse Moth	<i>Amphipyra tragopoginis</i>
UKBAP	insect - moth	Oak Hook-tip	<i>Watsonalla binaria</i>
UKBAP	insect - moth	Oblique Carpet	<i>Orthonama vittata</i>
UKBAP	insect - moth	Pale Eggar	<i>Trichiura crataegi</i>
UKBAP	insect - moth	Powdered Quaker	<i>Orthosia gracilis</i>
UKBAP	insect - moth	Rosy Minor	<i>Mesoligia literosa</i>
UKBAP	insect - moth	Rosy Rustic	<i>Hydraecia micacea</i>
UKBAP	insect - moth	Rustic	<i>Hoplodrina blanda</i>
UKBAP	insect - moth	Sallow	<i>Xanthia icteritia</i>
UKBAP	insect - moth	Shaded Broad-bar	<i>Scotopteryx chenopodiata</i>
UKBAP	insect - moth	Shoulder-striped Wainscot	<i>Mythimna comma</i>
UKBAP	insect - moth	Small Square-spot	<i>Diarsia rubi</i>
UKBAP	insect - moth	Spinach	<i>Eulithis mellinata</i>
UKBAP	insect - moth	White Ermine	<i>Spilosoma lubricipeda</i>
UKBAP	mollusc	Depressed river mussel	<i>Pseudanodonta complanata</i>
UKBAP		Red-Backed Shrike	<i>Lanius collurio</i>
WCA Schedule 1	bird	Barn Owl	<i>Tyto alba</i>
WCA Schedule 1	bird	Black Redstart	<i>Phoenicurus ochruros</i>
WCA Schedule 1	bird	Black Tern	<i>Chlidonias niger</i>
WCA Schedule 1	bird	Black-necked Grebe	<i>Podiceps nigricollis</i>
WCA Schedule 1	bird	Black-tailed Godwit	<i>Limosa limosa</i>
WCA Schedule 1	bird	Brambling	<i>Fringilla montifringilla</i>
WCA Schedule 1	bird	Cetti's Warbler	<i>Cettia cetti</i>
WCA Schedule 1	bird	Common Greenshank	<i>Tringa nebularia</i>
WCA Schedule 1	bird	Common Kingfisher	<i>Alcedo atthis</i>
WCA Schedule 1	bird	Common Quail	<i>Coturnix coturnix</i>
WCA Schedule 1	bird	Eurasian Hobby	<i>Falco subbuteo</i>
WCA Schedule 1	bird	Eurasian Marsh Harrier	<i>Circus aeruginosus</i>
WCA Schedule 1	bird	Eurasian Spoonbill	<i>Platalea leucorodia</i>
WCA Schedule 1	bird	European Honey-buzzard	<i>Pernis apivorus</i>
WCA Schedule 1	bird	Fieldfare	<i>Turdus pilaris</i>
WCA Schedule 1	bird	Firecrest	<i>Regulus ignicapilla</i>
WCA Schedule 1	bird	Garganey	<i>Anas querquedula</i>
WCA Schedule 1	bird	Green Sandpiper	<i>Tringa ochropus</i>
WCA Schedule 1	bird	Hen Harrier	<i>Circus cyaneus</i>
WCA Schedule 1	bird	Little Plover	<i>Charadrius dubius</i>
WCA Schedule 1	bird	Mediterranean Gull	<i>Larus melanocephalus</i>
WCA Schedule 1	bird	Merlin	<i>Falco columbarius</i>
WCA Schedule 1	bird	Osprey	<i>Pandion haliaetus</i>
WCA Schedule 1	bird	Peregrine Falcon	<i>Falco peregrinus</i>
WCA Schedule 1	bird	Pied Avocet	<i>Recurvirostra avosetta</i>
WCA Schedule 1	bird	Purple Heron	<i>Ardea purpurea</i>
WCA Schedule 1	bird	Red Kite	<i>Milvus milvus</i>

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WCA Schedule 1	bird	Redwing	<i>Turdus iliacus</i>
WCA Schedule 1	bird	Ruff	<i>Philomachus pugnax</i>
WCA Schedule 1	bird	Spotted Crake	<i>Porzana porzana</i>
WCA Schedule 1	bird	Whimbrel	<i>Numenius phaeopus</i>
WCA Schedule 1	bird	Whimbrel	<i>Numenius phaeopus</i>
WCA Schedule 1	bird	White-tailed Eagle	<i>Haliaeetus albicilla</i>
WCA Schedule 1	bird	Whooper Swan	<i>Cygnus cygnus</i>
WCA Schedule 1	bird	Wood Sandpiper	<i>Tringa glareola</i>
WCA Schedule 5	bat	Common Pipistrelle	<i>Pipistrellus pipistrellus</i>
WCA Schedule 5	bat	Pipistrelle	<i>Pipistrellus</i>
WCA Schedule 5	marine mammal	Common Porpoise	<i>Phocoena phocoena</i>
WCA Schedule 5	terrestrial mammal	Otter	<i>Lutra lutra</i>
WCA Schedule 5	terrestrial mammal	Water Vole	<i>Arvicola terrestris</i>