

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Standing water	Food availability	Abundance of soft-leaved and aquatic plants	[>25% cover] of one or more target species, e.g. <i>Glyceria fluitans</i> , <i>Agrostis stolonifera</i> and <i>Chara</i> , <i>Potamogeton</i> , <i>Ceratophyllum</i> spp.	Cramp & Simmons 1977; [estimated, Just Ecology]	EN COs
Standing water	Water depth	Extensive shallow water (feeding)	<25cm over [>50%] of water area	Thomas 1980; [estimated, Just Ecology]	EN COs

**Gannet**

*Morus bassanus*

<b>Main Occurrence:</b>	Summer visitor
<b>Breeding Period:</b>	Mar-Aug
<b>Summer Season:</b>	Mar-Aug
<b>Winter Season:</b>	n/a

<b>Breeding habitat:</b>	Coastal cliffs, stacks and precipitous islands
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Pelagic

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Coastal waters	Food availability	Abundance of marine fish	Average biomass > [xxx], including e.g. herring, mackerel and sandeel of 25-30cm	Gibbons et al. 1993	Specialist

Clearings in or edges of deciduous woodland and conifer plantations

<b>Breeding habitat:</b>	n/a
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	n/a

Summer visitor

<b>Main Occurrence:</b>	Apr-Jun
<b>Breeding Period:</b>	Apr-Oct
<b>Summer Season:</b>	n/a
<b>Winter Season:</b>	n/a

**Garden warbler**

*Sylvia borin*

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Woodland and scrub	Food availability	Abundance of canopy invertebrates	Average biomass > [xxx], including e.g. aphids, caterpillars, flies	Snow & Perrins 1998	EN COs
Woodland and scrub	Vegetation characteristics	Mix of mature trees (display) and well developed field and shrub understorey (feeding, nesting)	Mature canopy with [>50%] understorey and ground cover of [>50cm] [locally frequent] within nesting areas	Smart & Andrews 1995; Snow & Perrins 1998; [estimated, Just Ecology]	EN COs
Woodland and scrub	Vegetation characteristics	High frequency of favoured scrub and tall herb plant species (nesting, feeding)	[>25% cover] of one or more target species, including e.g. Rubus, Urtica or Epilobium spp.	Snow & Perrins 1998; [estimated, Just Ecology]	EN COs

<b>Garganey</b>		Water meadows, rough grassland, marshes and the edges of shallow, freshwaters, always well vegetated	
<b>Anas querquedula</b>	Summer visitor	<b>Breeding habitat:</b>	[as breeding habitat], plus brief localized use of marine or tidal estuarine areas
	Apr-Jul	<b>Passage habitat:</b>	
	Feb-Aug	<b>Wintering habitat:</b>	n/a
	n/a		

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of aquatic plants	>25% cover] of one or more target species, e.g. Potamogeton, Sparganium, Scirpus, Carex, Glyceria, Rumex, Ranunculus spp.	Cramp & Simmons 1977; Owen et al. 1986; [estimated, Just Ecology]	EN COs
Any habitat	Food availability	Abundance of aquatic invertebrates	Average biomass >[xxx], including e.g. snails, chironomids, water beetles, caddisfly larvae, bugs	Cramp & Simmons 1977; Owen et al. 1986	Specialist
Grassland - marsh/marshy	Hydrology/flow	Wet fields with many surface pools, ditches or channels (feeding)	[20-30%] of the area soggy or flooded	RSPB/EN/ITE 1997; Newbold 1997; [estimated, Just Ecology]	EN COs
Grassland - marsh/marshy	Vegetation characteristics	Frequent patches of medium to tall vegetation, close to open water (nesting)	Several patches of vegetation of [20-60cm], [<50m] from open water, within areas used for nesting	Snow & Perrins 1998; [estimated, Just Ecology]	EN COs

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Standing water	Water depth	Extensive shallow water (feeding)	<20cm over [>50%] of water area	Owen et al. 1986; Newbold 1997; [estimated, T. Dixon]	EN COs
Standing water	Hydrology/flow	Dropping water levels (providing a succession of surface water areas for feeding)	Water levels falling by [5-15%] per month, from the time of mean hatch date	RSPB/EN/ITE 1997; [estimated, Just Ecology]	EN COs

## Goldcrest

### Regulus regulus

<b>Main Occurrence:</b>	Year-round	<b>Breeding habitat:</b>	Mature coniferous woodland, with or without understorey, plus deciduous woodlands with conifers mixed in
<b>Breeding Period:</b>	Apr-Jul	<b>Passage habitat:</b>	n/a
<b>Summer Season:</b>	Apr-Sep	<b>Wintering habitat:</b>	[as breeding habitat] plus greater use of deciduous woodland as well as hedgerows, parkland, open heathland and reedbeds
<b>Winter Season:</b>	Oct-Mar		

## Year-round

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Coniferous woodland	Landscape	Large coniferous woodlands (feeding, nesting)	Several woodlands of [ $>10$ ha] and representing [ $>50\%$ ] of the area overall	Gibbons et al. 1993; Snow & Perrins 1998; [estimated, Just Ecology]	EN COs
Woodland and scrub	Food availability	Abundance of canopy and shrub-layer invertebrates	Average biomass $> [xxx]$ , including e.g. caterpillars, bugs, springtails, beetles, flies, spiders, aphids	Witherby et al. 1938; Snow & Perrins 1998	Specialist
Woodland and scrub	Vegetation characteristics	A diversity of tree species and including conifers (nesting, feeding)	Tree mix containing [ $>30\%$ ] spruce, European larch, Silver fir, Scots or Mountain pine	Peck 1989; Snow & Perrins 1998; [estimated, Just Ecology]	EN COs

**Golden eagle**

*Aquila chrysaetos*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Mar-Jul
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Open hill, mountain and coastal habitats
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	[as breeding habitat]

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Vegetation characteristics	Isolated tall trees in remote areas (nesting)	Mature trees of >50cm diameter at breast height, and <100 trees/ha, within nesting areas	Tjernerberg 1983, 1985; McGrady et al. 1997; [estimated, Just Ecology]	EN COs

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Landscape	Open terrain (feeding) with tall trees (nesting, roosting) where cliffs/crags not available	Areas with unrestricted views over [>1km] and mature trees [locally frequent]	Watson 1991; [estimated, Just Ecology]	EN COs
Any habitat	Food availability	Abundance of live mammals, birds, reptiles and carrion	Average biomass >[xxx], including e.g. small to medium-sized prey of 300-3000g or >50kg of carrion	Cramp & Simmons 1980; Brown 1989; Watson 1991	Specialist

**Golden oriole**

*Oriolus oriolus*

<b>Main Occurrence:</b>
<b>Breeding Period:</b>
<b>Summer Season:</b>
<b>Winter Season:</b>

Summer visitor

May-Jul

Apr-Oct

n/a

<b>Breeding habitat:</b>
<b>Passage habitat:</b>
<b>Wintering habitat:</b>

Black poplar plantations and shelterbelts in lowland fenland, always with long woodland edges

n/a

n/a

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Broadleaved woodland	Landscape	High frequency of dense woodlands or shelterbelts with long woodland edges (feeding, display)	Several woodlands containing 400-1000 trees per sq.km and with a high [>xxx] edge to volume ratio	Prater 1991	EN COs
Broadleaved woodland	Food availability	Abundance of canopy invertebrates	Average biomass > [xxx], including e.g. caterpillars, sawfly larvae, spiders	EN 1994h	Specialist
Broadleaved woodland	Vegetation characteristics	High frequency of mature trees with large, open crowns (colonial nesting, feeding)	Trees of >7.5m dominant, especially hybrid black poplar and preferably early and large-leaf cultivars - robusta or balsamifera	Prater 1991; Dagley 1994; EN 1994h; Milwright 1998; Snow & Perrins 1998	EN COs



**Golden plover**

*Pluvialis apricaria*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Jul
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Moorland, often manged heather moor, bogs and hill pasture
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Mixed agricultural land, flooded wetlands and intertidal areas

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Vegetation characteristics	Mix of short (feeding) and patches of taller vegetation (nesting)	[1:3] ratio of short <5cm to medium 10-15cm vegetation, in mosaic, within breeding areas	Usher & Thompson 1993; Gregory 1987; Sutherland & Hill 1995; Whittingham 1996; Whittingham et al. (undated); [estimated, Just Ecology]	EN COs

**Non-breeding season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Non-intertidal	Vegetation characteristics	Predominantly short grassland swards (feeding)	<10cm throughout areas used for feeding	Gregory 1987; Sutherland & Hill 1995	EN COs

**Year-round**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
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**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Landscape	Open areas, including large fields (anti-predator, display)	Areas with unrestricted views over [ $>200\text{m}$ ] with an effective field size [ $>10\text{ha}$ ]	Tucker et al. 1994; Stroud et al. 1987; [estimated, Just Ecology]	EN COs
Any habitat	Vegetation characteristics	Open, short vegetation or bare ground predominating (roosting)	Vegetation of [ $<10\text{cm}$ ] throughout areas used for roosting	[estimated, Just Ecology]	EN COs
Non-intertidal	Food availability	Abundance of soil and ground-surface invertebrates	Average biomass $>$ [xxx], including e.g. earthworm, leatherjackets, beetles, spiders	Cramp & Simmons 1983; Barnard & Thompson 1985;	Specialist

**Goldeneye**

*Bucephala clangula*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Aug
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Shallow freshwater, open lakes and pools with adjacent mature woodland containing dead trees
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Flowing or standing freshwaters as well as estuaries, marine bays, sheltered shallow coasts and sewage outfalls

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Woodland and scrub	Cavities	Abundance of large tree cavities (nesting)	Suitable cavities of 110-125mm across and >45cm deep [locally frequent]	du Feu 1985; Dennis 1987; [estimated, Just Ecology]	EN COs
Woodland and scrub	Vegetation characteristics	Frequent patches of medium to tall vegetation, close to open water (nesting)	Several patches of trees of [>3m], [<30m] from open water, within areas used for nesting	Dennis 1987; [estimated, Just Ecology]	EN COs

**Non-breeding season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Coastal waters	Food availability	Abundance of benthic invertebrates	Average biomass >[xxx], including e.g. Mytilus, Cardium, Littorina, Hydrobia, Carcinus	Owen et al.1986	Specialist

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Water depth	Extensive water areas of medium depth (feeding)	[2-3m] over [>50%] of water area	Snow & Perrins 1998; [estimated, Just Ecology]	EN COs
Any habitat	Water area	Medium to large open areas of water (feeding, roosting)	One or more fresh or saltwaters of [>5ha]	Snow & Perrins 1998; [estimated, Just Ecology]	EN COs
Standing water	Food availability	Abundance of benthic invertebrates	Average biomass > [xxx], including e.g. Trichoptera, chironomid larvae, Gammarus, Asellus	Owen et al. 1986; Winfield & Winfield 1994b	Specialist

**Goldfinch**

*Carduelis carduelis*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Aug
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Scattered trees and shrubs on commons and heathlands, in parks, cemeteries and gardens. Also tree avenues, orchards and fringe woodlands
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Coastal flats, wasteland, overgrown rubbish dumps, rough pasture and neglected allotments

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of ground-surface and shrub-layer invertebrates	Average biomass > [xxx], including e.g. caterpillars, aphids, beetles, bugs, spiders	Snow & Perrins 1998	Specialist
Woodland and scrub	Vegetation characteristics	Mix of dense scrub/hedge patches (nesting, concealment) and areas of shorter vegetation (feeding)	[1:1] ratio of short [<5cm] to taller vegetation [1-3m], in mosaic, within breeding areas	Snow & Perrins 1998; [estimated, Just Ecology]	EN COs

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of seed-bearing plants	[>25% cover] of one or more target species, e.g. alder, birch, Compositae, Dipsacus, Cirsium and Pinus spp.	Witherby et al. 1938; Gibbons et al. 1993; [estimated, Just Ecology]	EN COs

**Goosander**

*Mergus merganser*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Mar-Sep
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Upper basins of fast-flowing rivers plus large clear inland lakes
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Large, open inland freshwaters, with only relatively minor use of estuaries or marine bays

**Breeding (summer) season**

**Habitat**      **Habitat Attribute**      **Preferred State**      **Monitoring Target**      **Citations**      **Task**

Running water      Landform      High frequency of wide river sections (anti-predator)      10-30m wide over [ $>50\%$ ] of length      Gregory et al. 1997; [estimated, Just Ecology]      EN COs

Running water      Vegetation characteristics      Many patches of tall bankside vegetation (nesting)      Vegetation of [0.5-1m] [locally frequent] along the water's edge in nesting areas      Gregory et al. 1997; [estimated, Just Ecology]      EN COs

Woodland and scrub      Vegetation characteristics      Abundance of large tree cavities (nesting)      Suitable cavities  $>10\text{cm}$  across and  $>60\text{cm}$  deep [locally frequent]      du Feu 1985; [estimated, Just Ecology]      EN COs

**Year-round**

**Habitat**      **Habitat Attribute**      **Preferred State**      **Monitoring Target**      **Citations**      **Task**

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of marine or freshwater fish and aquatic invertebrates	Average biomass > [xxx], including e.g. salmon, perch, trout, eel, carp, perch, rudd, herring, cod, sandeels of <10cm, chironomid larvae	Cramp & Simmons 1977; Owen et al. 1986	Specialist

**Goshawk**

**Accipter gentilis**

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Aug
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Extensive coniferous or broadleaved woodlands, with some open country
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	[as breeding habitat]

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Woodland and scrub	Vegetation characteristics	Trees at medium density (concealment, surprise attack) and including frequent clusters of tall trees (nesting)	Trees 6-10m apart, 200-900/ha, and regularly dispersed clusters of mature (>20m) trees in patches >0.25ha	Anon 1989; Petty 1996	EN COs

**Year-round**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Landscape	High frequency of large woodlands (nesting, feeding) amidst open country (feeding)	Several woodlands >3ha and representing 25-30% of the area overall	Brown 1989; Petty 1989a; Widen 1989	EN COs
Any habitat	Food availability	Abundance of live birds and mammals	Average biomass >[xxx], including e.g. medium-sized birds - pigeons to pheasants - rabbit, hare	Cramp & Simmons 1980	Specialist



**Grasshopper warbler**

*Locustella naevia*

<b>Main Occurrence:</b>
<b>Breeding Period:</b>
<b>Summer Season:</b>
<b>Winter Season:</b>

Summer visitor  
 May-Aug  
 Apr-Sep  
 n/a

<b>Breeding habitat:</b>
<b>Passage habitat:</b>
<b>Wintering habitat:</b>

Rough grassland, scrub, young plantations, fringes of marshes and other wet areas with good cover  
 n/a  
 n/a

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of shrub-layer invertebrates	Average biomass > [xxx], including e.g. flies, moths, beetles, damselflies, bugs	Witherby et al. 1938; Snow & Perrins 1998	Specialist
Woodland and scrub	Vegetation characteristics	Mix of medium height ground vegetation and scrub/low trees (feeding, nesting, display)	[1:1] ratio of open ground with vegetation >10cm] and scrub/trees of [2-3m] within areas used for nesting	Gibbons et al. 1993; Snow & Perrins 1998; [estimated, Just Ecology]	EN COs

**Great black-backed gull**

*Larus marinus*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Jul
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Small islands, stacks, cliffs, beaches and saltmarsh. Inland on islets in lakes and rivers and on wet moorland
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Estuaries and coastal beaches, at seas, on inland waters, rubbish dumps and farmland

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
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Any habitat	Vegetation characteristics	Predominantly short to medium swards (colonial nesting)	10-30cm throughout areas used for nesting	Cramp & Simmons 1983; [estimated, Just Ecology]	EN COs
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**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
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Any habitat	Food availability	Abundance of fish, birds, mammals and offal	Average biomass > [xxx], including e.g. fish, rabbit, seabirds, nestlings, eggs, ofal	Cramp et al. 1974	Specialist
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**Great crested grebe**

*Podiceps cristatus*

<b>Main Occurrence:</b>
<b>Breeding Period:</b>
<b>Summer Season:</b>
<b>Winter Season:</b>

Year-round  
Apr-Sep  
Apr-Sep  
Oct-Mar

<b>Breeding habitat:</b>
<b>Passage habitat:</b>
<b>Wintering habitat:</b>

Inland lakes, flooded gravel pits, large ponds, canals and slow-flowing rivers  
n/a  
[as breeding habitat], plus estuaries and inshore coastal waters

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Open water	Hydrology/flow	Stable water levels (nesting)	[<4cm] fluctuation	Cramp & Simmons 1977; [estimated, Just Ecology]	EN COs

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of fish	Average biomass > [xxx], including e.g. fish of 3-21cm for adults and <10cm for young	Cramp & Simmons 1977; Ulenaers et al. 1992; van Vesseem & Ulenaers 1994	Specialist
Open water	Water depth	Extensive shallow water (feeding)	1-3m over [>50%] of water area	Cramp & Simmons 1977; Marechal 1993; [estimated, Just Ecology]	EN COs

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Open water	Water area	Small to large open areas of water (feeding, roosting)	One or more salt or freshwaters of >1ha	Cramp & Simmons 1977; Ulenaers & Dhondt 1991	EN COs

**Great northern diver**

*Gavia immer*

<b>Main Occurrence:</b>	Winter visitor	<b>Breeding habitat:</b>	n/a
<b>Breeding Period:</b>	n/a	<b>Passage habitat:</b>	n/a
<b>Summer Season:</b>	n/a	<b>Wintering habitat:</b>	Inshore coastal waters; occasionally inland stillwaters
<b>Winter Season:</b>	Oct-Mar		

**Non-breeding season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
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Any habitat	Food availability	Abundance of fish, crustaceans and molluscs	Average biomass > [xxx], including e.g. fish of 10-28cm	Cramp & Simmons 1977	Specialist
Any habitat	Water depth	Extensive deep water (feeding)	4-10m over [>50%] of water area	Cramp & Simmons 1977; [estimated, Just Ecology]	EN COs

**Great skua**

*Catharacta skua*

<b>Main Occurrence:</b>	Summer visitor	<b>Breeding habitat:</b>	n/a
<b>Breeding Period:</b>	May-Aug	<b>Passage habitat:</b>	Pelagic
<b>Summer Season:</b>	Apr-Oct	<b>Wintering habitat:</b>	n/a
<b>Winter Season:</b>	n/a		

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Coastal waters	Food availability	Abundance of marine fish and offal	Average biomass >[xxx], including e.g. haddock and whiting of <25cm	Furness 1987	Specialist

**Great spotted woodpecker**

*Dendrocopos major*

<b>Main Occurrence</b>	Year-round
<b>Breeding Period:</b>	May-Jul
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Large deciduous or mixed woodland, well-wooded gardens, copses, and hedgerows
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	[as breeding habitat]

**Breeding (summer) season**

<i>Habitat</i>	<i>Habitat Attribute</i>	<i>Preferred State</i>	<i>Monitoring Target</i>	<i>Citations</i>	<i>Task</i>
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Broadleaved woodland	Vegetation characteristics	High frequency of mature trees, of large diameter, for excavation of holes (nesting)	Mature ash, beech or oak (>20cm diameter at breast height), abundant throughout the woodland area	Smith 1997; [estimated, Just Ecology]	EN COs
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**Non-breeding season**

<i>Habitat</i>	<i>Habitat Attribute</i>	<i>Preferred State</i>	<i>Monitoring Target</i>	<i>Citations</i>	<i>Task</i>
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Broadleaved woodland	Food availability	Abundance of seed and fruit-bearing plants	[>25% cover] of one or more target species, e.g. beech, hornbeam	Lack 1986; Smith 1987; [estimated, Just Ecology]	EN COs
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**Year-round**

<i>Habitat</i>	<i>Habitat Attribute</i>	<i>Preferred State</i>	<i>Monitoring Target</i>	<i>Citations</i>	<i>Task</i>
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**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Broadleaved woodland	Landscape	High frequency of medium to large woodlands (nesting, feeding)	Several woodlands of >2ha and [>50%] overall	Gibbons et al. 1993; [estimated, Just Ecology]	EN COs
Broadleaved woodland	Food availability	Abundance of dead-wood, canopy invertebrates and birds	Average biomass > [xxx], including e.g. beetles, caterpillars, woodlice, spiders, nestlings, eggs	Glue & Boswell 1994; Lack 1986; Smith 1987; Snow & Perrins 1998	Specialist
Broadleaved woodland	Vegetation characteristics	Abundance of dead wood in situ (nesting, feeding, and fallen dead wood (feeding)	[>20%] of standing trees containing [>10%] dead wood per tree, and ground wood [locally frequent]	Smith 1987; Glue & Boswell 1994; Smith 1997; [estimated, Just Ecology]	EN COs



<b>Great tit</b>	Year-round	<b>Breeding habitat:</b>	Open woodland, farmland with fragmented and scattered trees and suburban habitats such as gardens, parks and cemeteries
<b>Parus major</b>	Mar-Jul	<b>Passage habitat:</b>	
	Apr-Sep	<b>Wintering habitat:</b>	

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Mar-Jul
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Vegetation characteristics	Abundance of small tree cavities (nesting)	Suitable cavities of <35mm across, >15cm deep [locally frequent]	du Feu 1985; [estimated, Just Ecology]	EN COs

**Non-breeding season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of seed and fruit-bearing plants	[>25% cover] of one or more target species, e.g. beech, hazel, oak	Gosler 1993; Snow & Perrins 1998; [estimated, Just Ecology]	EN COs

**Year-round**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
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**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of ground and canopy invertebrates	Average biomass > [xxx], including e.g. caterpillars, beetles, flies, moths, bees, aphids, wasps, spiders	[estimated, Just Ecology]	Specialist
Woodland and scrub	Vegetation characteristics	High frequency of mature trees (feeding) plus dense understorey (concealment)	Mixed trees including at least [30%] oak, alder, birch or rowan [>20cm diameter at breast height], and with [>50%] understorey and ground cover throughout	Barnes 1975; Peck 1989; Green et al. 1994; [estimated, Just Ecology]	EN COs

**Green sandpiper**

*Tringa ochropus*

<b>Main Occurrence</b>	Passage migrant
<b>Breeding Period:</b>	n/a
<b>Summer Season:</b>	May-Jun; Aug-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	n/a
<b>Passage habitat:</b>	Inland lakes, reservoirs and gravel pits, plus coastal lagoons, disused watercress beds, sewage farms etc.
<b>Wintering habitat:</b>	A few winter on the margins on lowland streams, rivers, standing waters, on sewage farms and in estuaries

**Non-breeding season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Landscape	Open terrain, relatively free of obstructions (anti-predator, feeding, roosting)	Areas with unrestricted views over [ $>200m$ ] and an effective field size [ $>10ha$ ]	[estimated, Just Ecology]	EN COs
Any habitat	Food availability	Abundance of surface and sub-surface invertebrates	Average biomass $>$ [xxx], including e.g. beetles, bugs, caddisfly, spiders, Gammarus, earthworm, Physa	Cramp & Simmons 1983	Specialist
Any habitat	Vegetation characteristics	Open, short vegetation or bare ground predominating (roosting)	Vegetation of [ $<10cm$ ] throughout areas used for roosting	[estimated, Just Ecology]	EN COs
Open water	Water depth	Extensive shallow water (feeding)	[1-2cm] over [ $>25%$ ] of water area	Lack 1986; [estimated, Just Ecology]	EN COs

## Green woodpecker

*Picus viridis*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Jul
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Broadleaved forest close to unimproved pastures, parkland, groves, gardens, heathland with scattered trees and coniferous woodland
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	[as breeding habitat]

## Breeding (summer) season

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
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Any habitat	Vegetation characteristics	Abundance of dead wood in situ (nesting)	>20% of standing trees containing dead wood per tree	Gibbons et al. 1993; [estimated, Just Ecology]	EN COs
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Any habitat	Vegetation characteristics	High frequency of mature trees, of large diameter, for excavation of holes (nesting)	Mature ash, beech, oak of >20cm diameter at breast height], abundant throughout the nesting area	[estimated, Just Ecology]	EN COs
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## Year-round

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
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Any habitat	Food availability	Abundance of ants and other ground-surface invertebrates	Average biomass >[xxx], mainly adult and pupal ants - <i>Laluis</i> , <i>Formica</i> spp.	Tucker & Evans 1997; Snow & Perrins 1998	Specialist
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**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Vegetation characteristics	Mix of mature trees (nesting) and short grasslands (feeding)	[>xx trees/ha] adjacent to, or within grassland of [<2cm] within feeding areas	Gibbons et al. 1993; Glue & Boswell 1994; Tyler 1997; [estimated, Just Ecology]	EN COs

# Greenfinch

*Carduelis chloris*

<b>Main Occurrences:</b>
<b>Breeding Period:</b>
<b>Summer Season:</b>
<b>Winter Season:</b>

Year-round

Apr-Aug

Apr-Sep

Oct-Mar

<b>Breeding habitat:</b>
<b>Passage habitat:</b>
<b>Wintering habitat:</b>

Woodland edges, scrub, trees on farmland, tall hedgerows, lines of planted trees, orchards, cemeteries, parks and gardens

n/a

[as breeding habitat] plus farmfields, saltmarsh, shingle banks and other open sites

## Breeding (summer) season

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of ground-surface and shrub-layer invertebrates	Average biomass > [xxx], including e.g. caterpillars, flies, beetles	Gibbons et al. 1993; Snow & Perrins 1998	Specialist

## Year-round

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of seed-bearing plants	[>25% cover] of one or more target species, e.g. Polygonum, Sinapis and Rubus spp.	Gibbons et al. 1993; Snow & Perrins 1998; [estimated, Just Ecology]	EN COs

**Greenshank**

*Tringa nebularia*

<b>Main Occurrence:</b>
<b>Breeding Period:</b>
<b>Summer Season:</b>
<b>Winter Season:</b>

Passage migrant  
n/a  
May-Jun; Aug-Sep  
Oct-Mar

<b>Breeding habitat:</b>
<b>Passage habitat:</b>
<b>Wintering habitat:</b>

n/a  
Inland lakes, reservoirs and gravel pits, plus estuaries and coastal lagoons  
n/a

**Non-breeding season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Landscape	Open terrain, relatively free of obstructions (anti-predator, feeding, roosting)	Areas with unrestricted views over [ $>200m$ ] and an effective field size [ $>10ha$ ]	[estimated, Just Ecology]	EN COs
Any habitat	Food availability	Abundance of crustaceans, worms and fish	Average biomass $>$ [xxx], including e.g. Nereis, Gammarus, Crangon, Hydrobia, Littorina, Mya, eel, gobies	Lack 1986	Specialist
Any habitat	Vegetation characteristics	Open, short vegetation or bare ground predominating (roosting)	Vegetation of [ $<10cm$ ] throughout areas used for roosting	[estimated, Just Ecology]	EN COs
Open water	Water depth	Extensive shallow water (feeding)	[1-3cm] over [ $>50%$ ] of the water area	[estimated, Just Ecology]	EN COs

**Grey heron**

*Ardea cinerea*

<b>Main Occurrence</b>	Year-round
<b>Breeding Period:</b>	Feb-Aug
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Shallow fresh or saline waters in association or near to copses or small, mature woodlands, on or off islands
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Standing or flowing freshwaters, marshes, estuaries, rocky shores, sewage farms, ponds and ditches etc.

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of fish, amphibians, young waterbirds and small mammals	Average biomass > [xxx], including e.g. carp, roach, trout, eel of <60cm, frogs, ducklings, voles, rats	Carss & Marquiss 1996; Snow & Perrins 1998	Specialist
Open water	Landform	Many shallow-sloping banks along the waters' edge, not too steep for fishing (feeding)	All water features with shallow [<25%] slopes along [>50%] length/perimeter	Voisin 1991; [estimated, Just Ecology]	EN COs
Open water	Water depth	Extensive shallow water (feeding)	<0.5m over [>50%] of water area	Snow & Perrins (1998); [estimated, Just Ecology]	EN COs
Woodland and scrub	Vegetation characteristics	Frequent patches of mature trees, over or close to open water (nesting, roosting)	Several patches of trees of [>20m] and [<1km] from open water	Voisin 1991; Snow & Perrins 1998; [estimated, Just Ecology]	EN COs



**Grey partridge**

*Perdix perdix*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Jun
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Cereals, meadows and pastures, with bare ground and interspersed with hedges, woodland verges or scrub
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	[as breeding habitat]

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of ground-surface invertebrates	Average biomass > [xxx], including e.g. sawflies, caterpillars, weevils, aphids, craneflies	Cramp & Simmons 1980; Green 1984; Potts 1986	Specialist
Cultivated/disturbed land	Landform	Many raised, grassy banks between crops (nesting)	Raised, well-vegetated, banks of >0.5m high (to prevent flooding) [locally frequent]	Potts 1986; Rands 1986, 1987; Game Conservancy 1992b; [estimated, Just Ecology]	EN COs

**Year-round**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of seed-bearing plants	[>25% cover] of one or more target species, e.g. Gramineae, Trifolium and Polygonum spp., Stellaria media, Poa annua	Cramp & Simmons 1980; Green 1984; Potts 1986; [estimated, Just Ecology]	EN COs

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Vegetation characteristics	High frequency of hedgerows or scrub on raised banks and well vegetated underneath (nesting, concealment)	Scrub/hedge with well developed understorey [10-50cm tall], [locally frequent] throughout the area	Cramp & Simmons 1980; Rands 1986, 1987; Game Conservancy 1992a; [estimated, Just Ecology]	EN COs

**Grey plover**

*Pluvialis squatarola*

<b>Main Occurrence:</b>	Winter visitor
<b>Breeding Period:</b>	n/a
<b>Summer Season:</b>	n/a
<b>Winter Season:</b>	Sep-May

<b>Breeding habitat:</b>	n/a
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Estuaries and sheltered coasts

**Non-breeding season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Landscape	Open terrain, relatively free of obstructions (anti-predator, feeding, roosting)	Areas with unrestricted views over [ $>200m$ ] and an effective field size [ $>10ha$ ]	[estimated, Just Ecology]	EN COs
Any habitat	Vegetation characteristics	Open, short vegetation or bare ground predominating (roosting)	Vegetation of [ $<10cm$ ] throughout areas used for roosting	[estimated, Just Ecology]	EN COs
Intertidal	Food availability	Abundance of marine worms, molluscs and crustaceans	Average biomass $>$ [xxx], including e.g. Nereis, Arenicola and Nottomastus (biomass $>1000/m^2$ )	Cramp & Simmons 1983; Plenkowski 1982, 1983; Goss-custard et al. 1991	Specialist

**Grey wagtail**

*Motacilla cinerea*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Jun
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Fast-flowing water courses bordered by broadleaved trees, with rocks, riffles and areas of shingle
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Estuaries, coasts, sewage farms and other artificial situations

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Running water	Landform	Frequent steep, well vegetated banks, cliffs, waterfalls or bridges (nesting)	Suitable nest sites over water or on steep (>75o) slopes, [>75%] vegetated and [locally frequent]	Gibbons et al. 1993; [estimated, Just Ecology]	EN COs

**Year-round**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of aquatic invertebrates	Average biomass > [xxx], including e.g. caddisfly, mayfly, stonefly, true flies	Ormerod & Tyler 1987a	Specialist

# Greylag goose

*Anser anser*

<b>Main Occurrence</b>	Winter visitor
<b>Breeding Period</b>	n/a
<b>Summer Season</b>	n/a
<b>Winter Season</b>	Oct-Mar

<b>Breeding habitat</b>	[resident, naturalised birds not considered]
<b>Passage habitat</b>	n/a
<b>Wintering habitat</b>	Coastal and inland waters, improved grassland and arable

## Non-breeding season

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Landscape	Open areas, including large fields (feeding, anti-predator)	Areas with unrestricted views over [>500m] with an effective field size >6ha	Newton et al. 1973; [estimated, Just Ecology]	EN COs
Grassland - improved	Food availability	Abundance of soft-leaved plants	[>25% cover] of one or more target species, e.g. Lolium perenne, Phleum pratense, Poa and Festuca spp.	Cramp & Simmons 1977; [estimated, Just Ecology]	EN COs
Grassland - improved	Vegetation characteristics	Predominantly short grassland swards (feeding)	<10cm throughout areas used for feeding	Cramp & Simmons 1977; [estimated, Just Ecology]	EN COs

**Guillemot**

*Uria aalge*

<b>Main Occurrence</b>
<b>Breeding Period</b>
<b>Summer Season</b>
<b>Winter Season</b>

Summer visitor

Apr-Jul

Apr-Jul

n/a

<b>Breeding habitat</b>
<b>Passage habitat</b>
<b>Wintering habitat</b>

Coastal cliffs and rock stacks

n/a

Pelagic

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Coastal waters	Food availability	Abundance of marine fish, crustaceans and molluscs	Average biomass > [xxx], including e.g. sandeel of 14-17cm, herring, sprat [size]	Lloyd et al. 1991; Furness 1990	Specialist

**Hawfinch**

**Coccothraustes  
coccothraustes**

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Aug
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Broadleaved woodland, extensive orchards, hedges and thickets
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	[as breeding habitat]

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of canopy invertebrates	Average biomass > [xxx], including e.g. oak roller moth larvae, beetle larvae	Witherby et al. 1938; Snow & Perrins 1998	Specialist

**Year-round**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of fruit and seed-bearing plants	>25% cover] of one or more target species, e.g. oak, ash, beech, hornbeam, sycamore, hawthorn, fruit trees, yew	Witherby et al. 1938; Mount-Fort 1957; Gibbons et al. 1993; [estimated, Just Ecology]	EN COs

Open moorland dominated by heather, rushes and grass. Also young forestry plantations

<b>Breeding habitat:</b>	n/a
<b>Passage habitat:</b>	
<b>Wintering habitat:</b>	

Year-round

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Aug
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

**Hen harrier**

*Circus cyaneus*

[as breeding habitat], plus lowland heath, farmland, marshland and sand dunes

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Heathland	Vegetation characteristics	Frequent patches of tall heather or young forestry (nesting, roosting), plus grasslands, bracken or low trees/scrub (feeding)	[1:3] ratio of nesting - ground layer of 60-100cm; [conifers of <2m] - to foraging habitats, in mosaic throughout the breeding area	Watson 1977; Cadbury 1992, 1993; Redpath & Thirgood 1997; Redpath et al. 1998; Potts 1998; [estimated, Just Ecology]	EN COs

**Year-round**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of live mammals and birds	Average biomass > [xxx], including e.g. small-medium sized mammals - voles to rabbit - and birds - pipts to gamebirds	Watson 1977; Cramp & Simmons 1980; Cadbury 1992, 1993; Clarke et al. 1997; Redpath & Thirgood 1997	Specialist



**Herring gull**

*Larus argentatus*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Aug
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Rocky skerries, shingle banks, sand dunes, saltmarsh, cliffs and stacks, on wet moorland and buildings
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	Estuaries and coastal beaches, at sea, on inland waters, rubbish dumps and farmland

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
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Any habitat	Vegetation characteristics	Predominantly short to medium swards (colonial nesting)	[10-30cm] throughout areas used for nesting	Cramp & Simmons 1983; [estimated, Just Ecology]	EN COs
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**Year-round**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
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Any habitat	Food availability	Abundance of fish, mammals, birds, ground-surface invertebrates, grain, carrion and offal	Average biomass > [xxx], including e.g. sprat, herring, roach, perch, earthworm, beetles, Cardium, Mytilus, Carcinus	Cramp et al. 1974	Specialist
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Chalk downland, heaths, parkland, woods around farmland, gravel pits and wetlands

<b>Breeding habitat:</b>	n/a
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	n/a

Summer visitor

<b>Main Occurrence:</b>	May-Aug
<b>Breeding Period:</b>	Apr-Oct
<b>Summer Season:</b>	n/a
<b>Winter Season:</b>	n/a

**Hobby**

*Falco subbuteo*

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Landscape	Open terrain with low or sparse vegetation predominating (feeding)	Areas with unrestricted views over [ $>200m$ ] and predominantly low vegetation of [ $<1m$ ]	Parr 1985; [estimated, Just Ecology]	EN COs
Any habitat	Food availability	Abundance of live birds and airborne insects	Average biomass $>[xxx]$ , including e.g. small birds - swallows, martins - moths, flying ants, beetles, dragonflies	Cramp & Simmons 1980; Parr 1985	Specialist
Any habitat	Vegetation characteristics	Frequent mature trees, as singles or in patches (nesting), amidst open ground or low scrub (feeding)	Ground predominantly open ( $>75%$ by area) or with low scrub, with tree clusters of [ $<0.5ha$ ] [locally frequent]	Parr 1985; [estimated, Just Ecology]	EN COs

## Honey buzzard

*Pernis apivorus*

<b>Main Occurrence:</b>	Summer visitor
<b>Breeding Period:</b>	May-Sep
<b>Summer Season:</b>	May-Sep
<b>Winter Season:</b>	n/a

<b>Breeding habitat:</b>	n/a
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	n/a

Broadleaved or coniferous woodlands on mixed farmland with extensive open ground

## Breeding (summer) season

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Landscape	Many small to large woodlands (nesting) amidst open country (feeding)	Several woodlands of >1ha and representing [30-60%] of the area overall	Roberts et al. 1999; [estimated, Just Ecology]	EN COs
Any habitat	Food availability	Abundance of ground-surface invertebrates, live birds and mammals	Average biomass > [xxx], including e.g. wasp, bee, lepidoptera, frog, lizards, small-medium sized birds - pipits to gamebirds - and mammals - mice to mole	Cramp & Simmons 1983; Gibbons et al. 1993; Roberts et al. 1999	Specialist
Woodland and scrub	Vegetation characteristics	High frequency of clearings, glades or rides (feeding) plus patches of mature trees (nesting)	Rides or open areas frequent throughout each woodland patch, and trees of >8m [locally frequent]	Cramp & Simmons 1983; Roberts et al. 1999	EN COs

**House martin**

*Delichon urbica*

<b>Main Occurrence:</b>	Summer visitor
<b>Breeding Period:</b>	May-Sep
<b>Summer Season:</b>	Mar-Nov
<b>Winter Season:</b>	n/a

<b>Breeding habitat:</b>	Agricultural and urban habitats
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	n/a

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of airborne insects	Average biomass > [xxx], including e.g. flies, aphids, beetles, moths, mayflies	Witherby et al. 1938; Snow & Perrins 1998	Specialist
Inland cliff	Landform	Predominantly un-vegetated cliff faces, rock ledges or other artificial structures (colonial nesting)	Dry walls or cliff faces [locally frequent], with [<10%] vegetation overall on cliffs	Turner 1994; Snow & Perrins 1998	EN COs

**House sparrow**

*Passer domesticus*

<b>Main Occurrences:</b>	Year-round
<b>Breeding Period:</b>	Apr-Aug
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Agicultural land, grasslands, hedgerows, scrub, parks, gardens and farmyards
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	[as breeding habitat]

**Breeding (summer) season**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of ground and shrub-layer invertebrates	Average biomass > [xxx], including e.g. flies, aphids, beetles earthworms, moths, bees	Witherby et al. 1938; Snow & Perrins 1998	Specialist

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of seed-bearing plants	[>25% cover] of one or more target species, e.g. Cannabis, Urtica, Ranunculus, Plantain, grasses, cereals, birch, elm	Witherby et al. 1938; Snow & Perrins 1998; [estimated, Just Ecology]	EN COs

**Jack snipe**

***Lymnocyptes minimus***

<b>Main Occurrence:</b>	Winter visitor	<b>Breeding habitat:</b>	n/a
<b>Breeding Period:</b>	n/a	<b>Passage habitat:</b>	n/a
<b>Summer Season:</b>	n/a	<b>Wintering habitat:</b>	Lowland wetlands, including streams and sewage farms, and coastal saltmarsh
<b>Winter Season:</b>	Sep-Apr		

**Non-breeding season**

**Habitat      Habitat Attribute      Preferred State      Monitoring Target      Citations      Task**

Any habitat      Food availability      Abundance of soil, ground-surface and semi-aquatic invertebrates      Average biomass > [xxx], including e.g. earthworm, beetles, flies, Hydrobia      Cramp & Simmons 1983; Lack 1986      Specialist

Any habitat      Vegetation characteristics      Dense cover of wet vegetation predominant (concealment)      [>80%] vegetation cover throughout, over wet and muddy ground, and [20-100cm] tall      Cramp & Simmons 1983; [estimated, Just Ecology]      EN COs



**Jay**

**Garrulus glandarius**

<b>Main Occurrence:</b>
<b>Breeding Period:</b>
<b>Summer Season:</b>
<b>Winter Season:</b>

Year-round

Apr-Jun

Apr-Sep

Oct-Mar

<b>Breeding habitat:</b>
<b>Passage habitat:</b>
<b>Wintering habitat:</b>

n/a

[as breeding habitat]

Woodland and scrub, from large forests to spinneys, copses, parks and large gardens

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Woodland and scrub	Food availability	Abundance of seed and fruit-bearing plants	[>25% cover] of one or more target species, e.g. oak, beech, hornbeam	Gibbons et al. 1993; Snow & Perrins 1998; [estimated, Just Ecology]	EN COs
Woodland and scrub	Food availability	Abundance of canopy and ground-surface invertebrates, small live vertebrates and carrion	Average biomass > [xxx], including e.g beetles, caterpillars, nestlings, carrion	Gibbons et al. 1993; Snow & Perrins 1998	Specialist
Woodland and scrub	Vegetation characteristics	Trees at a high density with much scrub and woody undergrowth (nesting, concealment)	Tree density [>xx/ha] plus [>50%] scrub and/or understorey	Gibbons et al. 1993; Smart & Andrews 1985; [estimated, Just Ecology]	EN COs



**Kestrel****Falco tinnunculus**

<b>Main Occurrence:</b>
<b>Breeding Period:</b>
<b>Summer Season:</b>
<b>Winter Season:</b>

Year-round

Mar-Aug

Apr-Sep

Oct-Mar

<b>Breeding habitat:</b>
<b>Passage habitat:</b>
<b>Wintering habitat:</b>

Widespread and diverse including grasslands, moorland, heathland, open woodland, forestry plantations, farmland and urban

n/a

[as breeding habitat]

**Year-round**

<b>Habitat</b>	<b>Habitat Attribute</b>	<b>Preferred State</b>	<b>Monitoring Target</b>	<b>Citations</b>	<b>Task</b>
Any habitat	Food availability	Abundance of live mammals, birds and ground-surface invertebrates	Average biomass > [xxx], including e.g. small-medium sized mammals - mice to rabbits - birds, earthworms	Cramp & Simmons 1980; Shrubbs 1993	Specialist
Any habitat	Connectivity	Frequent mature trees, old buildings etc. (nesting, roosting) close to open ground (feeding)	Several suitable nesting sites (<1 km) from good feeding terrain	Gibbons et al. 1993; [estimated, Just Ecology]	EN COs
Cultivated/disturbed land	Landscape	Open ground (feeding)	Areas with unrestricted views over [>200m] and [<25%] tree or scrub cover	Gibbons et al. 1993; [estimated, Just Ecology]	EN COs
Grassland - poor/semi-improved	Vegetation characteristics	High frequency of short to medium length grassland swards (feeding)	Several grassland areas of [5-30cm]	Shrubbs 1980; [estimated, Just Ecology]	EN COs

**Kingfisher**

*Alcedo atthis*

<b>Main Occurrence:</b>	Year-round
<b>Breeding Period:</b>	Apr-Aug
<b>Summer Season:</b>	Apr-Sep
<b>Winter Season:</b>	Oct-Mar

<b>Breeding habitat:</b>	Slow-flowing rivers, canals, lakes, ponds and flooded gravel pits
<b>Passage habitat:</b>	n/a
<b>Wintering habitat:</b>	[as breeding habitat] plus estuaries, harbours and seashores

**Breeding (summer) season**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Landform	Frequent steep/vertical sandy or clay banks over water (nesting)	Nesting banks near-vertical, 1-2m tall, sparsely vegetated and above water [locally frequent]	RSPB/NRA/RSNC 1994; Tucker & Evans 1997; [estimated, Just Ecology]	EN COs

**Year-round**

Habitat	Habitat Attribute	Preferred State	Monitoring Target	Citations	Task
Any habitat	Food availability	Abundance of fish	Average biomass > [xxx], including e.g. minnows, bullheads, roach, sticklebacks of 3-7cm	Raven 1986; Tucker & Evans 1997	Specialist
Open water	Vegetation characteristics	Many patches of overhanging, marginal vegetation providing perches from which to hunt (feeding)	Patches of overhanging vegetation [locally frequent]	RSPB/NRA/RSNC 1994; Tucker & Evans 1997; [estimated, Just Ecology]	EN COs