



**Appendix IV**  
Desk Study

**Contents**

**1. Desk Study Results..... 3**

**2. References: ..... 16**

# 1. Desk Study Results

Desktop records of protected, rare, or other notable flora and fauna species within the vicinity of the Proposed Scheme are listed in Table 1.

Plant species which are legally protected under the Flora (Protection) Order, 2015 and / or are listed as Critically Endangered, Endangered or Vulnerable on Ireland Red List No. 10: Vascular Plants (Wyse Jackson et al. ,2016) and Ireland Red List No. 8 Bryophytes (Lockhart et al. 2012) are listed.

In relation to amphibian, reptile and mammal species those which are protected under the Wildlife Acts, the Habitats Directive and / or are listed as threatened (Vulnerable to Critically Endangered) on Ireland Red List No. 12: Terrestrial Mammals (Marnell et al. 2019); Ireland Red List No. 5: Amphibians, Reptiles & Freshwater Fish (King et al. 2011).

In the case of bird species, only those species listed in Annex I of the Birds Directive or on the Birds of Conservation Concern in Ireland (BoCCI) Red List are included in Table 1.

For invertebrate species, those which are listed as threatened (Vulnerable to Critically Endangered) on Ireland Red List No. 4 – Butterflies (Regan et al. 2010); Ireland Red List No.6: Damselflies & Dragonflies (Nelson et al. 2011); Ireland Red List No. 2 – Non-Marine Molluscs.(Byrne et al. 2009); Ireland Red List No. 1 – Water beetles (Foster et al. 2009); Ireland Red List No. 9: Macro-moths (Allen et al. 2016); Ireland Red List No. 7: Mayflies (Kelly-Quinn et al. 2012); Ireland Red List No. 13: Stoneflies (Feeley et al. 2020); and Regional Red List of Irish Bees (Fitzpatrick et al. 2006).

Desktop records of invasive plant species which are scheduled under articles 49 and 50 of the Birds and Natural Habitats Regulations are considered as a potential threat in respect of biodiversity. S.I.477 species within the vicinity of the Proposed Scheme are listed in Table 2.

**Table 1 Records of Protected, Red-listed or Notable Flora Recorded within the Vicinity of the Proposed Scheme**

Common Name / Scientific name	Legal Status	Red List Status	Source
<b>Plants</b>			
Bearded Pawwort <i>Barbilophozia barbata</i>	n / a	Critically endangered	NBDC online database record
Baltic Bryum <i>Bryum marratii</i>	FPO	Least concern	NPWS Consultation 2021
Betony <i>Betonica officinalis</i>	FPO	Near threatened	NBDC online database record
Borrer's Saltmarsh Grass <i>Puccinellia fasciculata</i>	FPO	Near threatened	NPWS Consultation 2021
Blue Fleabane <i>Erigeron acer</i>	n / a	Least concern	NPWS Consultation 2021
Ceruous Thread-moss <i>Bryum uliginosum</i>	n / a	Endangered	NPWS Consultation 2021, Dublin City Biodiversity Action Plan 2015 - 2020
Dittander <i>Lepidium latifolium</i>	n / a	Vulnerable	NBDC online database record
Great Burnet <i>Sanguisorba officinalis</i>	FPO	Vulnerable	NBDC online database record
Green-winged Orchid <i>Orchis morio</i>	FPO	Vulnerable	NPWS Consultation 2021
Hairy Violet <i>Viola hirta</i>	FPO	Vulnerable	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Irish Whitebeam <i>Sorbus hibernica</i>	n / a	Vulnerable	NBDC online database record
Many-seasoned Thread-moss <i>Bryum intermedium</i>	FPO	Endangered	NPWS Consultation 2021
Meadow Barley <i>Hordeum secalinum</i>	FPO	Vulnerable	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Meadow Crane's-bill <i>Geranium pratense</i>	n / a	Vulnerable	NBDC online database record
Meadow Saxifrage <i>Saxifraga granulata</i>	FPO	Regionally extinct*	NPWS Consultation 2021, Dublin City Biodiversity Action Plan 2015 - 2020
Megapolitan Feather-moss <i>Rhynchostegium megapolitanum</i>	n / a	Near threatened	NPWS Consultation 2021
Opposite-leaved Pondweed <i>Groenlandia densa</i>	FPO	Near threatened	NBDC online database record, NPWS Consultation 2021, Dublin City Biodiversity Action Plan 2015 - 2020
Water-violet <i>Hottonia palustris</i>	n / a	Critically endangered	NBDC online database record
Wild clary <i>Salvia verbenaca</i>	n / a	Least concern	NPWS Consultation 2021
Blunt-fruited Pottia <i>Tortula modica</i>	n / a	Vulnerable	NBDC online database record
Lance-leaved Pottia <i>Tortula lanceola</i>	n / a	Critically endangered	NBDC online database record
Lesser Centaury <i>Centaureium pulchellum</i>	FPO	Endangered	NPWS Consultation 2021, Dublin City Biodiversity Action Plan 2015 - 2020
Shady Beard-moss <i>Didymodon umbrosus</i>	n / a	Vulnerable	NBDC online database record
Tall Aloe-moss <i>Aloina ambigua</i>	n / a	Endangered	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Twisting Thread-moss <i>Bryum torquescens</i>	n / a	Vulnerable	NBDC online database record
Curved Hard-grass <i>Parapholis incurva</i>	n / a	Endangered	NBDC online database record
Ceruous Thread-moss <i>Bryum uliginosum</i>	FPO	Endangered	NBDC online database record
Petalwort <i>Petalophyllum ralfsii</i>	FPO	Least concern	NPWS consultation, Dublin City Biodiversity Action Plan 2015 - 2020
Prickly Poppy <i>Papaver argemone</i>	n / a	Vulnerable	NBDC online database record
Prostrate Broom <i>Cytisus scoparius subsp. maritimus</i>	n / a	Vulnerable	NBDC online database record
Shady Beard Moss <i>Didymodon umbrosus</i>	n / a	Vulnerable	NPWS Consultation 2021
Sea Pea <i>Lathyrus japonicus</i>	n / a	Vulnerable	NBDC online database record
Wild Clary <i>Salvia verbenaca</i>	n / a	Vulnerable	NBDC online database record
Reindeer lichen <i>Cladonia portentosa</i>	HD V	Not evaluated	NBDC online database record
Petalwort <i>Petalophyllum ralfsii</i>	HD II	Least concern	NBDC online database record
Dwarf Haircap <i>Pogonatum nanum</i>	FPO	Endangered	NBDC online database record
Glass-wort Feather-moss <i>Scleropodium tourettii</i>	n / a	Endangered	NBDC online database record
Hoary Fringe-moss <i>Racomitrium canescens</i>	FPO	Vulnerable	NBDC online database record
Moore's Horsetail <i>Equisetum x moorei</i>	FPO	n / a	NPWS Consultation 2021
Many-seasoned Thread-moss <i>Bryum intermedium</i>	n / a	Endangered	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Warne's Thread-moss <i>Bryum warneum</i>	FPO	Endangered	NBDC online database record, City Biodiversity Action Plan 2015 – 2020, NPWS Consultation 2021, Dublin
Wedge-leaved Screw-moss <i>Tortula cuneifolia</i>	FPO	Critically endangered	NBDC online database record
<b>Mammals</b>			
Brown Long-eared Bat <i>Plecotus auritus</i>	HD IV, WA	Least concern	NBDC online database record
Daubenton's Bat <i>Myotis daubentonii</i>	HD IV, WA	Least concern	NBDC online database record
Eurasian Badger <i>Meles meles</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Eurasian Pygmy Shrew <i>Sorex minutus</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Eurasian Red Squirrel <i>Sciurus vulgaris</i>	WA	Least concern	NBDC online database record
European Otter <i>Lutra lutra</i>	HD II, HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020

Common Name / Scientific name	Legal Status	Red List Status	Source
Irish Hare <i>Lepus timidus subsp. hibernicus</i>	WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Lesser Noctule <i>Nyctalus leisleri</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Nathusius's Pipistrelle <i>Pipistrellus nathusii</i>	HD IV, WA	Least concern	NBDC online database record
Natterer's Bat <i>Myotis nattereri</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Pipistrelle <i>Pipistrellus pipistrellus sensu lato</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Soprano Pipistrelle <i>Pipistrellus pygmaeus</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Whiskered Bat <i>Myotis mystacinus</i>	HD IV, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Common Porpoise <i>Phocoena phocoena</i>	HD II, HD V, WA	Vulnerable	NBDC online database record
Grey Seal <i>Halichoerus grypus</i>	HD II, HD V, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Striped Dolphin <i>Stenella coeruleoalba</i>	HD IV, WA	n / a	NBDC online database record
Bottle-nosed Dolphin <i>Tursiops truncatus</i>	HD II, HD IV, WA	n / a	NBDC online database record
Common Dolphin <i>Delphinus delphis</i>	HD IV, WA	n / a	NBDC online database record
Common Seal <i>Phoca vitulina</i>	HD II, HD V, WA	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Humpback Whale <i>Megaptera novaeangliae</i>	HD IV, WA	Least concern	NBDC online database record
Minke Whale <i>Balaenoptera acutorostrata</i>	HD IV, WA	Least concern	NBDC online database record
Mountain Hare <i>Lepus timidus</i>	HD V, WA	Least concern	NBDC online database record
Northern Bottlenose Whale <i>Hyperoodon ampullatus</i>	HD IV, WA	n / a	NBDC online database record
Pine Marten <i>Martes martes</i>	HD V, WA	Least concern	NBDC online database record
Pygmy Sperm Whale <i>Kogia breviceps</i>	HD IV, WA	n / a	NBDC online database record
Risso's Dolphin <i>Grampus griseus</i>	HD IV, WA	n / a	NBDC online database record
White-beaked Dolphin <i>Lagenorhynchus albirostris</i>	HD IV, WA	Least concern	NBDC online database record
<b>Birds</b>			
Alpine Swift <i>Apus melba</i>	WA	n / a	NBDC online database record
American Bittern <i>Botaurus lentiginosus</i>	WA	n / a	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
American Black Duck <i>Anas rubripes</i>	WA	n / a	NBDC online database record
American Golden Plover <i>Pluvialis dominica</i>	WA	n / a	NBDC online database record
American Herring Gull <i>Larus smithsonianus</i>	WA	n / a	NBDC online database record
American Wigeon <i>Anas americana</i>	WA	n / a	NBDC online database record
Anthus spinoletta/petrosus agg.	WA	n / a	NBDC online database record
Arctic Skua <i>Stercorarius parasiticus</i>	WA	n / a	NBDC online database record
Arctic Tern <i>Sterna paradisaea</i>	SCI, BD I, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Atlantic Puffin <i>Fratercula arctica</i>	WA	Red	NBDC online database record
Barn Owl <i>Tyto alba</i>	WA	Red	NBDC online database record
Barn Swallow <i>Hirundo rustica</i>	WA	Amber	NBDC online database record
Barnacle Goose <i>Branta leucopsis</i>	SCI, BD I, WA	Amber	NBDC online database record
Barred Warbler <i>Sylvia nisoria</i>	BD I, WA	n / a	NBDC online database record
Bar-tailed Godwit <i>Limosa lapponica</i>	SCI, BD I, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Black Brant <i>Branta bernicla subsp. nigricans</i>	WA	Green	NBDC online database record
Black Guillemot <i>Cephus grylle</i>	WA	Amber	NBDC online database record
Black Redstart <i>Phoenicurus ochruros</i>	WA	Green	NBDC online database record
Black Tern <i>Chlidonias niger</i>	BD I, WA	n / a	NBDC online database record
Black-billed Magpie <i>Pica pica</i>	WA	Green	NBDC online database record
Blackcap <i>Sylvia atricapilla</i>	WA	Green	NBDC online database record
Black-headed Gull <i>Chroicocephalus ridibundus</i>	WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Black-legged Kittiwake <i>Rissa tridactyla</i>	SCI, WA	Red	NBDC online database record
Black-necked Grebe <i>Podiceps nigricollis</i>	WA	Red	NBDC online database record
Black-tailed Godwit <i>Limosa limosa</i>	SCI, WA	Red	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Black-throated Diver <i>Gavia arctica</i>	BD I, WA	Amber	NBDC online database record
Black-winged Stilt <i>Himantopus himantopus</i>	BD I, WA	n / a	NBDC online database record
Blue Tit <i>Cyanistes caeruleus</i>	WA	Green	NBDC online database record
Blue-winged Teal <i>Anas discors</i>	WA	n / a	NBDC online database record
Bohemian Waxwing <i>Bombycilla garrulus</i>	WA	Green	NBDC online database record
Bonaparte's Gull <i>Larus philadelphia</i>	WA	n / a	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Brambling <i>Fringilla montifringilla</i>	WA	Green	NBDC online database record
Brent Goose <i>Branta bernicla</i>	WA	Amber	NBDC online database record
Bridled Tern <i>Onychoprion anaethetus</i>	WA	n / a	NBDC online database record
Carrion Crow <i>Corvus corone</i>	WA	n / a	NBDC online database record
Carrion/Hooded Crow <i>Corvus corone agg.</i>	WA	n / a	NBDC online database record
Caspian Tern <i>Hydroprogne caspia</i>	BD I, WA	n / a	NBDC online database record
Chaffinch <i>Fringilla coelebs</i>	BD I, WA	Green	NBDC online database record
Coal Tit <i>Parus ater</i>	WA	Green	NBDC online database record
Common Blackbird <i>Turdus merula</i>	WA	Green	NBDC online database record
Common Bullfinch <i>Pyrrhula pyrrhula</i>	WA	Green	NBDC online database record
Common Buzzard <i>Buteo buteo</i>	WA	Green	NBDC online database record
Common Chiffchaff <i>Phylloscopus collybita</i>	WA	Green	NBDC online database record
Common Coot <i>Fulica atra</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Common Crane <i>Grus grus</i>	BD I, WA	n / a	NBDC online database record
Common Cuckoo <i>Cuculus canorus</i>	WA	Green	NBDC online database record
Common Eider <i>Somateria mollissima</i>	SCI, WA	Red	NBDC online database record
Common Goldeneye <i>Bucephala clangula</i>	SCI, BD II(II), WA	Red	NBDC online database record
Common Grasshopper Warbler <i>Locustella naevia</i>	WA	Amber	NBDC online database record
Common Greenshank <i>Tringa nebularia</i>	SCI, WA	Green	NBDC online database record
Common Guillemot <i>Uria aalge</i>	SCI, WA	Amber	NBDC online database record
Common Kestrel <i>Falco tinnunculus</i>	WA	Amber	NBDC online database record
Common Kingfisher <i>Alcedo atthis</i>	SCI, BD I, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Common Linnet <i>Carduelis cannabina</i>	WA	Amber	NBDC online database record
Common Moorhen <i>Gallinula chloropus</i>	WA	Green	NBDC online database record
Common Pheasant <i>Phasianus colchicus</i>	BD II(I) BD III(I), WA	Green	NBDC online database record
Common Pochard <i>Aythya ferina</i>	SCI, BD II(I) BD III(II), WA	Red	NBDC online database record
Common Raven <i>Corvus corax</i>	WA	Green	NBDC online database record
Common Redshank <i>Tringa totanus</i>	SCI, WA	Red	NBDC online database record
Common Sandpiper <i>Actitis hypoleucos</i>	WA	Amber	NBDC online database record



Common Name / Scientific name	Legal Status	Red List Status	Source
Common Scoter <i>Melanitta nigra</i>	SCI, BD II(II) BD III(III), WA	Red	NBDC online database record
Common Shelduck <i>Tadorna tadorna</i>	SCI, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Common Snipe <i>Gallinago gallinago</i>	BD II(I) BD III(III), WA	Red	NBDC online database record
Common Starling <i>Sturnus vulgaris</i>	WA	Amber	NBDC online database record
Common Swift <i>Apus apus</i>	SCI, BD II(II) BD III(III), WA	Red	NBDC online database record
Common Tern <i>Sterna hirundo</i>	SCI, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Common Whitethroat <i>Sylvia communis</i>	WA	Green	NBDC online database record
Common Wood Pigeon <i>Columba palumbus</i>	BD II(I) BD III(I), WA	Green	NBDC online database record
Corn Crake <i>Crex crex</i>	SCI, BD I, WA	Red	NBDC online database record
Curlew Sandpiper <i>Calidris ferruginea</i>	WA	Green	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Desert Wheatear <i>Oenanthe deserti</i>	WA	Green	NBDC online database record
Dunlin <i>Calidris alpina</i>	SCI, BD I, WA	Red	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Eurasian Collared Dove <i>Streptopelia decaocto</i>	WA	Green	NBDC online database record
Eurasian Curlew <i>Numenius arquata</i>	SCI, BD II(II), WA	Red	NBDC online database record
Eurasian Dotterel <i>Charadrius morinellus</i>	BD I, WA	n / a	NBDC online database record
Eurasian Golden Oriole <i>Oriolus oriolus</i>	WA	n / a	NBDC online database record
Eurasian Hobby <i>Falco subbuteo</i>	WA	n / a	NBDC online database record
Eurasian Jackdaw <i>Corvus monedula</i>	WA	Green	NBDC online database record
Eurasian Jay <i>Garrulus glandarius</i>	WA	Green	NBDC online database record
Eurasian Oystercatcher <i>Haematopus ostralegus</i>	SCI, WA	Red	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Eurasian Siskin <i>Carduelis spinus</i>	WA	Green	NBDC online database record
Eurasian Sparrowhawk <i>Accipiter nisus</i>	WA	Green	NBDC online database record
Eurasian Spoonbill <i>Platalea leucorodia</i>	BD I, WA	n / a	NBDC online database record
Eurasian Teal <i>Anas crecca</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Eurasian Tree Sparrow <i>Passer montanus</i>	WA	Amber	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Eurasian Treecreeper <i>Certhia familiaris</i>	WA	Green	NBDC online database record
Eurasian Wigeon <i>Anas penelope</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Eurasian Woodcock <i>Scolopax rusticola</i>	BD II(I) BD III(III), WA	Red	NBDC online database record
Eurasian Wryneck <i>Jynx torquilla</i>	WA	n / a	NBDC online database record
European Bee-eater <i>Merops apiaster</i>	WA	n / a	NBDC online database record
European Golden Plover <i>Pluvialis apricaria</i>	SCI, BD I BD II(II) BD III(III), WA	Red	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
European Goldfinch <i>Carduelis carduelis</i>	WA	Green	NBDC online database record
European Greenfinch <i>Carduelis chloris</i>	WA	Amber	NBDC online database record
European Robin <i>Erithacus rubecula</i>	WA	Green	NBDC online database record
European Serin <i>Serinus serinus</i>	WA	n / a	NBDC online database record
European Shag <i>Phalacrocorax aristotelis</i>	SCI, BD I, WA	Amber	NBDC online database record
European Turtle Dove <i>Streptopelia turtur</i>	WA	Amber	NBDC online database record
Ferruginous Duck <i>Aythya nyroca</i>	BD I, WA	n / a	NBDC online database record
Fieldfare <i>Turdus pilaris</i>	WA	Green	NBDC online database record
Forster's Tern <i>Sterna forsteri</i>	WA	n / a	NBDC online database record
Franklin's Gull <i>Larus pipixcan</i>	WA	n / a	NBDC online database record
Gadwall <i>Anas strepera</i>	SCI, BD II(I), WA	Amber	NBDC online database record
Glaucous Gull <i>Larus hyperboreus</i>	WA	Green	NBDC online database record
Glossy Ibis <i>Plegadis falcinellus</i>	BD I	n / a	NBDC online database record
Goldcrest <i>Regulus regulus</i>	WA	Amber	NBDC online database record
Great Black-backed Gull <i>Larus marinus</i>	WA	Amber	NBDC online database record
Great Cormorant <i>Phalacrocorax carbo</i>	SCI, WA	Amber	NBDC online database record
Great Crested Grebe <i>Podiceps cristatus</i>	SCI, WA	Amber	NBDC online database record
Great Egret <i>Ardea alba</i>	WA	n / a	NBDC online database record
Great Grey Shrike <i>Lanius excubitor</i>	WA	n / a	NBDC online database record
Great Northern Diver <i>Gavia immer</i>	SCI, BD I, WA	Amber	NBDC online database record
Great Snipe <i>Gallinago media</i>	BD I, WA	n / a	NBDC online database record
Great Spotted Cuckoo <i>Clamator glandarius</i>	WA	n / a	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Great Spotted Woodpecker <i>Dendrocopos major</i>	BD I, WA	Amber	NBDC online database record
Great Tit <i>Parus major</i>	WA	Green	NBDC online database record
Greater Scaup <i>Aythya marila</i>	SCI, BD II(II) BD III(III), WA	Red	NBDC online database record
Green Sandpiper <i>Tringa ochropus</i>	WA	Green	NBDC online database record
Green-winged Teal <i>Anas carolinensis</i>	WA	n / a	NBDC online database record
Grey Heron <i>Ardea cinerea</i>	SCI, WA	Green	NBDC online database record
Grey Partridge <i>Perdix perdix</i>	BD II(I) BD III(I)	Red	NBDC online database record
Grey Plover <i>Pluvialis squatarola</i>	SCI, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Grey Wagtail <i>Motacilla cinerea</i>	WA	Red	NBDC online database record
Hawfinch <i>Coccothraustes coccothraustes</i>	WA	n / a	NBDC online database record
Hedge Accentor <i>Prunella modularis</i>	WA	Green	NBDC online database record
Hen Harrier <i>Circus cyaneus</i>	SCI, BD I, WA	Amber	NBDC online database record
Herring Gull <i>Larus argentatus</i>	SCI, WA	Amber	NBDC online database record
Hooded Crow <i>Corvus cornix</i>	WA	Green	NBDC online database record
Hooded Merganser <i>Lophodytes cucullatus</i>	WA	n / a	NBDC online database record
Horned Lark <i>Eremophila alpestris</i>	WA	n / a	NBDC online database record
House Martin <i>Delichon urbicum</i>	WA	Amber	NBDC online database record
House Sparrow <i>Passer domesticus</i>	WA	Amber	NBDC online database record
Iceland Gull <i>Larus glaucooides</i>	WA	Green	NBDC online database record
Icterine Warbler <i>Hippolais icterina</i>	WA	n / a	NBDC online database record
Ivory Gull <i>Pagophila eburnea</i>	WA	n / a	NBDC online database record
Jack Snipe <i>Lymnocyptes minimus</i>	BD II(I) BD III(III)	Amber	NBDC online database record
Kentish Plover <i>Charadrius alexandrinus</i>	BD I, WA	n / a	NBDC online database record
Killdeer <i>Charadrius vociferus</i>	WA	n / a	NBDC online database record
Kumlien's Iceland Gull <i>Larus glaucooides subsp. kumlieni</i>	WA	n / a	NBDC online database record
Lapland Longspur <i>Calcarius lapponicus</i>	WA	n / a	NBDC online database record
Laughing Gull <i>Larus atricilla</i>	WA	n / a	NBDC online database record
Lesser Black-backed Gull <i>Larus fuscus</i>	SCI, WA	Amber	NBDC online database record
Lesser Redpoll <i>Carduelis cabaret</i>	WA	Green	NBDC online database record
Lesser Whitethroat <i>Sylvia curruca</i>	WA	Amber	NBDC online database record
Lesser Yellowlegs <i>Tringa flavipes</i>	WA	n / a	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Light-bellied Brent Goose <i>Branta bernicla subsp. hrota</i>	SCI, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Little Auk <i>Alle alle</i>	WA	Green	NBDC online database record
Little Bunting <i>Emberiza pusilla</i>	WA	n / a	NBDC online database record
Little Egret <i>Egretta garzetta</i>	BD I, WA	Green	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Little Grebe <i>Tachybaptus ruficollis</i>	SCI, WA	Green	NBDC online database record
Little Gull <i>Larus minutus</i>	WA	Amber	NBDC online database record
Little ringed Plover <i>Charadrius dubius</i>	WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Little Stint <i>Calidris minuta</i>	WA	Green	NBDC online database record
Little Tern <i>Sternula albifrons</i>	BD I, WA	Amber	NBDC online database record
Long-eared Owl <i>Asio otus</i>	WA	Green	NBDC online database record
Long-tailed Duck <i>Clangula hyemalis</i>	BD II(II)	Red	NBDC online database record
Long-tailed Tit <i>Aegithalos caudatus</i>	WA	Green	NBDC online database record
Magnificent Frigatebird <i>Fregata magnificens</i>	WA	n / a	NBDC online database record
Mallard <i>Anas platyrhynchos</i>	SCI, BD II(I) BD III(I), WA	Amber	NBDC online database record
Mandarin Duck <i>Aix galericulata</i>	WA	n / a	NBDC online database record
Manx Shearwater <i>Puffinus puffinus</i>	SCI, BD I, WA	Amber	NBDC online database record
Meadow Pipit <i>Anthus pratensis</i>	WA	Red	NBDC online database record
Mediterranean Gull <i>Larus melanocephalus</i>	BD I, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Melodious Warbler <i>Hippolais polyglotta</i>	WA	n / a	NBDC online database record
Merlin <i>Falco columbarius</i>	SCI, BD I	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Mew Gull <i>Larus canus</i>	SCI, WA	Amber	NBDC online database record
Mistle Thrush <i>Turdus viscivorus</i>	WA	Green	NBDC online database record
Montagu's Harrier <i>Circus pygargus</i>	BD I, WA	n / a	NBDC online database record
Mute Swan <i>Cygnus olor</i>	WA	Amber	NBDC online database record
Northern Fulmar <i>Fulmarus glacialis</i>	SCI	Amber	NBDC online database record
Northern Gannet <i>Morus bassanus</i>	SCI, WA	Amber	NBDC online database record
Northern Lapwing <i>Vanellus vanellus</i>	SCI, BD II(II), WA	Red	NBDC online database record
Northern Pintail <i>Anas acuta</i>	SCI, BD II(I) BD III(II)	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Northern Shoveler <i>Anas clypeata</i>	SCI, BD II(I) BD III(III), WA	Red	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020

Common Name / Scientific name	Legal Status	Red List Status	Source
Northern Wheatear <i>Oenanthe oenanthe</i>	WA	Amber	NBDC online database record
Pacific Golden Plover <i>Pluvialis fulva</i>	WA	n / a	NBDC online database record
Pallas's Leaf Warbler <i>Phylloscopus proregulus</i>	WA	n / a	NBDC online database record
Pallas's Sandgrouse <i>Syrrhaptes paradoxus</i>	WA	n / a	NBDC online database record
Pallid Swift <i>Apus pallidus</i>	WA	n / a	NBDC online database record
Peregrine Falcon <i>Falco peregrinus</i>	SCI, BD I, WA	Green	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Pied Avocet <i>Recurvirostra avosetta</i>	BD I, WA	n / a	NBDC online database record
Pied Wagtail <i>Motacilla alba subsp. yarrellii</i>	WA	Green	NBDC online database record
Pink-footed Goose <i>Anser brachyrhynchus</i>	WA	n / a	NBDC online database record
Purple Sandpiper <i>Calidris maritima</i>	SCI, WA	Red	NBDC online database record
Radde's Warbler <i>Phylloscopus schwarzi</i>	WA	n / a	NBDC online database record
Razorbill <i>Alca torda</i>	SCI, WA	Red	NBDC online database record
Red Kite <i>Milvus milvus</i>	BD I	Amber	NBDC online database record
Red Knot <i>Calidris canutus</i>	SCI, WA	Amber	NBDC online database record
Red-backed Shrike <i>Lanius collurio</i>	BD I, WA	n / a	NBDC online database record
Red-breasted Merganser <i>Mergus serrator</i>	SCI, BD II(II), WA	Amber	NBDC online database record
Red-footed Falcon <i>Falco vespertinus</i>	BD I, WA	n / a	NBDC online database record
Red-legged Partridge <i>Alectoris rufa</i>	WA	n / a	NBDC online database record
Red-necked Grebe <i>Podiceps grisegena</i>	WA	n / a	NBDC online database record
Red-necked Phalarope <i>Phalaropus lobatus</i>	BD I	Red	NBDC online database record
Red-throated Diver <i>Gavia stellata</i>	SCI, BD I, WA	Amber	NBDC online database record
Redwing <i>Turdus iliacus</i>	WA	Green	NBDC online database record
Reed Bunting <i>Emberiza schoeniclus</i>	WA	Green	NBDC online database record
Richard's Pipit <i>Anthus richardi</i>	WA	n / a	NBDC online database record
Ring-billed Gull <i>Larus delawarensis</i>	WA	Green	NBDC online database record
Ringed Plover <i>Charadrius hiaticula</i>	SCI, WA	Amber	NBDC online database record
Rock Pigeon <i>Columba livia</i>	WA	Green	NBDC online database record
Rock Pipit <i>Anthus petrosus</i>	WA	Green	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Rook <i>Corvus frugilegus</i>	WA	Green	NBDC online database record
Roseate Tern <i>Sterna dougallii</i>	SCI, BD I, WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Ross's Gull <i>Rhodostethia rosea</i>	WA	n / a	NBDC online database record
Rosy Starling <i>Sturnus roseus</i>	WA	n / a	NBDC online database record
Rough-legged Buzzard <i>Buteo lagopus</i>	WA	n / a	NBDC online database record
Royal Tern <i>Sterna maxima</i>	WA	n / a	NBDC online database record
Ruddy Turnstone <i>Arenaria interpres</i>	SCI, WA	Green	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Ruff <i>Philomachus pugnax</i>	BD I, WA	Amber	NBDC online database record
Sand Martin <i>Riparia riparia</i>	WA	Amber	NBDC online database record
Sanderling <i>Calidris alba</i>	SCI, WA	Green	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Sandwich Tern <i>Sterna sandvicensis</i>	SCI, BD I, WA	Amber	NBDC online database record
Sedge Warbler <i>Acrocephalus schoenobaenus</i>	WA	Green	NBDC online database record
Semipalmated Sandpiper <i>Calidris pusilla</i>	WA	n / a	NBDC online database record
Short-billed Dowitcher <i>Limnodromus griseus</i>	WA	n / a	NBDC online database record
Short-eared Owl <i>Asio flammeus</i>	BD I	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Sky Lark <i>Alauda arvensis</i>	WA	Amber	NBDC online database record
Slavonian Grebe <i>Podiceps auritus</i>	BD I, WA	Amber	NBDC online database record
Smew <i>Marcellus albellus</i>	BD I, WA	Amber	NBDC online database record
Snow Bunting <i>Plectrophenax nivalis</i>	WA	n / a	NBDC online database record
Snowy Owl <i>Bubo scandiaca</i>	BD I, WA	n / a	NBDC online database record
Song Thrush <i>Turdus philomelos</i>	WA	Green	NBDC online database record
Spotted Crake <i>Porzana porzana</i>	BD I, WA	Amber	NBDC online database record
Spotted Flycatcher <i>Muscicapa striata</i>	BD I, WA	Amber	NBDC online database record
Spotted Redshank <i>Tringa erythropus</i>	WA	Amber	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Squacco Heron <i>Ardeola ralloides</i>	BD I, WA	n / a	NBDC online database record
Stock Pigeon <i>Columba oenas</i>	WA	n / a	NBDC online database record
Stonechat <i>Saxicola torquata</i>	WA	Green	NBDC online database record
Stone-curlew <i>Burhinus oedicnemus</i>	BD I, WA	n / a	NBDC online database record
Surf Scoter <i>Melanitta perspicillata</i>	WA	n / a	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Temminck's Stint <i>Calidris temminckii</i>	WA	n / a	NBDC online database record
Thayer's Gull <i>Larus thayeri</i>	WA	n / a	NBDC online database record
Tufted Duck <i>Aythya fuligula</i>	SCI, BD II(I) BD III(II), WA	Amber	NBDC online database record
Tundra Swan <i>Cygnus columbianus</i>	SCI, WA	Red	NBDC online database record
Twite <i>Carduelis flavirostris</i>	WA	Red	NBDC online database record
Velvet Scoter <i>Melanitta fusca</i>	BD II(II)	Red	NBDC online database record
Water Pipit <i>Anthus spinoletta</i>	WA	n / a	NBDC online database record
Water Rail <i>Rallus aquaticus</i>	WA	Amber	NBDC online database record
Whimbrel <i>Numenius phaeopus</i>	WA	Green	NBDC online database record
White Stork <i>Ciconia ciconia</i>	BD I, WA	n / a	NBDC online database record
White Wagtail <i>Motacilla alba</i>	WA	Green	NBDC online database record
Whooper Swan <i>Cygnus cygnus</i>	SCI, BD I, WA	Amber	NBDC online database record
Willow Warbler <i>Phylloscopus trochilus</i>	WA	Green	NBDC online database record
Wilson's Phalarope <i>Phalaropus tricolor</i>	WA	n / a	NBDC online database record
Winter Wren <i>Troglodytes troglodytes</i>	WA	Green	NBDC online database record
Wood Duck <i>Aix sponsa</i>	WA	n / a	NBDC online database record
Wood Lark <i>Lullula arborea</i>	BD I, WA	n / a	NBDC online database record
Woodchat Shrike <i>Lanius senator</i>	WA	n / a	NBDC online database record
Yellow Wagtail <i>Motacilla flava</i>	WA	Amber	NBDC online database record
Yellowhammer <i>Emberiza citrinella</i>	WA	Red	NBDC online database record
Yellow-legged Gull <i>Larus michahellis</i>	WA	Green	NBDC online database record
<b>Reptiles</b>			
Common Lizard <i>Zootoca vivipara</i>	WA	n / a	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
<b>Amphibians</b>			
Common Frog <i>Rana temporaria</i>	HD II	Least concern	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Smooth Newt <i>Lissotriton vulgaris</i>	WA	Least concern	NBDC online database record
<b>Fish</b>			
European Eel <i>Anguilla anguilla</i>	OSPAR, Fisheries Acts	Critically endangered	NBDC online database record
Brown Trout <i>Salmo trutta</i>	Protected under Fisheries Acts and fishing bylaws	Least concern	IFI Consultation (2020)

Common Name / Scientific name	Legal Status	Red List Status	Source
Three spined stickleback <i>Gasterosteus aculeatus</i>	Protected under Fisheries Acts	Least concern	IFI WFD data (Kelly et al. 2011)
<b>Invertebrates</b>			
Blind Snail <i>Ceciloides acicula</i>	n / a	Vulnerable	NBDC online database record
Common Shelled Slug <i>Testacella haliotidea</i>	n / a	Vulnerable	NBDC online database record
Ear Pond Snail <i>Radix auricularia</i>	n / a	Vulnerable	NBDC online database record
English Chrysalis Snail <i>Leiostyla anglica</i>	n / a	Vulnerable	NBDC online database record
Glutinous Snail <i>Myxas glutinosa</i>	n / a	Endangered	NBDC online database record
Heath Snail <i>Helicella itala</i>	n / a	Vulnerable	NBDC online database record
Lake Orb Mussel <i>Musculium lacustre</i>	n / a	Vulnerable	NBDC online database record
Lesser Bulin <i>Merdigera obscura</i>	n / a	Endangered	NBDC online database record
Marsh Whorl Snail <i>Vertigo antivertigo</i>	n / a	Vulnerable	NBDC online database record
Mauge's Shelled Slug <i>Testacella maugei</i>	n / a	Near threatened	NBDC online database record
Moss Chrysalis Snail <i>Pupilla muscorum</i>	n / a	Endangered	NBDC online database record
<i>Pisidium pseudosphaerium</i>	n / a	Endangered	NBDC online database record
Iridescent pea mussel <i>Pisidium pulchellum</i>	n / a	Endangered	NBDC online database record
Lesser Ramshorn Snail <i>Anisus vorticulus</i>	n / a	Vulnerable	NBDC online database record
Smooth Grass Snail <i>Vallonia pulchella</i>	n / a	Vulnerable	NBDC online database record
Smooth Ramshorn <i>Gyraulus laevis</i>	n / a	Endangered	NBDC online database record
Swan Mussel <i>Anodonta cygnea</i>	n / a	Vulnerable	NBDC online database record
Tree Snail <i>Balea perversa</i>	n / a	Vulnerable	NBDC online database record
Spire snail <i>Ventrosia ventrosa</i>	n / a	Vulnerable	NBDC online database record
Spattered diver <i>Agabus conspersus</i>	n / a	Endangered	NBDC online database record
Grey-banded mining bee <i>Andrena denticulata</i>	n / a	Vulnerable	NBDC online database record
Heather mining-bee <i>Andrena fuscipes</i>	n / a	Vulnerable	NBDC online database record
Shiny-margined mini-mining bee <i>Andrena semilaevis</i>	n / a	Vulnerable	NBDC online database record
Barbut's Cuckoo Bee <i>Bombus barbutellus</i>	n / a	Endangered	NBDC online database record
Blossom Underwing moth <i>Orthosia miniosa</i>	n / a	Regionally extinct	NBDC online database record



Common Name / Scientific name	Legal Status	Red List Status	Source
Buffish Mining Bee <i>Andrena nigroaenea</i>	n / a	Vulnerable	NBDC online database record
Leaf Miner Beetle <i>Bagous alismatis</i>	n / a	Critically endangered	NBDC online database record
Barbut's Cuckoo Bee <i>Bombus barbutellus</i>	n / a	Endangered	NBDC online database record
Dark Green Fritillary <i>Argynnis aglaja</i>	n / a	Vulnerable	NBDC online database record
Field Cuckoo Bee <i>Bombus campestris</i>	n / a	Vulnerable	NBDC online database record
Feathered Gothic moth <i>Tholera decimalis</i>	n / a	Critically endangered	NBDC online database record
Gooden's Nomad Bee <i>Nomada goodeniana</i>	n / a	Endangered	NBDC online database record
Great Yellow Bumble Bee <i>Bombus distinguendus</i>	n / a	Endangered	NBDC online database record
Hill Cuckoo Bee <i>Bombus rupestris</i>	n / a	Endangered	NBDC online database record
Orangeman <i>Helophorus fulgidicollis</i>	n / a	Vulnerable	NBDC online database record
Short-horned yellow-face bee <i>Hylaeus brevicornis</i>	n / a	Endangered	NBDC online database record
Dark Green Fritillary <i>Argynnis aglaja</i>	n / a	Vulnerable	NBDC online database record
Dark Olive Mayfly <i>Labiobaetis atrebatinus</i>	n / a	Endangered	NBDC online database record
Marsh Fritillary <i>Euphydryas aurinia</i>	HD II	Vulnerable	NBDC online database record, Dublin City Biodiversity Action Plan 2015 - 2020
Pale evening mayfly <i>Procloeon bifidum</i>	n / a	Vulnerable	NBDC online database record
Portland Moth <i>Actebia praecox</i>	n / a	Critically endangered	NBDC online database record
Mallow moth <i>Larentia clavaria</i>	n / a	Critically endangered	NBDC online database record
March brown mayfly <i>Rhithrogena germanica</i>	n / a	Vulnerable	NBDC online database record
Marsh Fritillary <i>Euphydryas aurinia</i>	HD II	Vulnerable	NBDC online database record
Double Colon Moss beetle <i>Ochthebius bicolon</i>	n / a	Vulnerable	NBDC online database record
Tufted Furrow Bee <i>Lasioglossum nitidiusculum</i>	n / a	Vulnerable	NBDC online database record
Northern Colletes bee <i>Colletes floralis</i>	n / a	Vulnerable	NBDC online database record
Red-tailed Carder bee <i>Bombus ruderarius</i>	n / a	Vulnerable	NBDC online database record

Common Name / Scientific name	Legal Status	Red List Status	Source
Scarce Blue-tailed Damselfly <i>Ischnura pumilio</i>	n / a	Vulnerable	NBDC online database record
Small Blue <i>Cupido minimus</i>	n / a	Endangered	NBDC online database record
Trimmer's Mining Bee <i>Andrena trimmerana</i>	n / a	Critically endangered	NBDC online database record

HDII / IV / V = Habitats Directive Annexes II/IV/V; FPO = Flora (Protection) Order, 2015; WA = Wildlife Acts.  
 HD II / IV / V = Habitats Directive Annexes II/IV/V; BD I / II / III = Birds Directive Annex I / II / III; OSPAR = Convention for the protection of the marine environment of the North-east Atlantic 1992; \* = species considered regional extinct in their respective Red list documents, which have since been rediscovered.

**Table 2 Non-native IAPS species listed under S.I 477 of the Birds and Habitats Regulations 2011**

Common Name / Scientific name	Legal Status	Source
Hottentot-fig <i>Carpobrotus edulis</i>	Third schedule of S.I. 477	NBDC online database record
Indian Balsam <i>Impatiens glandulifera</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Water Fern <i>Azolla filiculoides</i>	Third schedule of S.I. 477	NBDC online database record
Brazilian Giant-rhubarb <i>Gunnera manicata</i>	Third schedule of S.I. 477	NBDC online database record
Giant Knotweed <i>Reynoutria sachalinensis</i>	Third schedule of S.I. 477	NBDC online database record
Japanese Knotweed <i>Reynoutria japonica</i>	Third schedule of S.I. 477	NBDC online database record
New Zealand Pigmyweed <i>Crassula helmsii</i>	Third schedule of S.I. 477	NBDC online database record
Rhododendron <i>Rhododendron ponticum</i>	Third schedule of S.I. 477	NBDC online database record
Salmonberry <i>Rubus spectabilis</i>	Third schedule of S.I. 477	NBDC online database record
Sea-buckthorn <i>Hippophae rhamnoides</i>	Third schedule of S.I. 477	NBDC online database record
Spanish Bluebell <i>Hyacinthoides hispanica</i>	Third schedule of S.I. 477	NBDC online database record
Three-cornered Garlic <i>Allium triquetrum</i>	Third schedule of S.I. 477	NBDC online database record
Common Cord-grass <i>Spartina anglica</i>	Third schedule of S.I. 477	NBDC online database record
Giant-rhubarb <i>Gunnera tinctoria</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
American Skunk-cabbage <i>Lysichiton americanus</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Nuttall's Waterweed <i>Elodea nuttallii</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Giant Hogweed <i>Heracleum mantegazzianum</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Parrot's-feather <i>Myriophyllum aquaticum</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record
Curly Waterweed <i>Lagarosiphon major</i>	Third schedule of S.I. 477 / Species of Union concern	NBDC online database record

S.I. 477 = Third Schedule of S.I. No. 477/2011 - European Communities (Birds and Natural Habitats) Regulations 2011, Species of Union concern = Regulation (EU) No 1143 / 2014 of the European Parliament and of the Council of 22 October 2014 on the prevention and management of the introduction and spread of invasive alien species, and Commission Implementing Regulation (EU) 2017/1263 updating the list of invasive alien species of Union concern established by Implementing Regulation (EU) 2016/1141 pursuant to Regulation (EU) No 1143/2014 of the European Parliament and of the Council.

## 2. References

- Allen, D., O'Donnell, M., Nelson, B., Tyner, A., Bond, K.G.M., Bryant, T., Crory, A., Mellon, C., O'Boyle, J., O'Donnell, E., Rolston, T., Sheppard, R., Strickland, P., Fitzpatrick, U., & Regan, E. (2016). Ireland Red List No. 9: Macro-moths (Lepidoptera).
- Byrne, A., Moorkens, E.A., Anderson, R., Killeen, I.J., & Regan, E.C. (2009). Ireland Red List No. 2 – Non-Marine Molluscs.
- Dublin City Council (2015). Dublin City Biodiversity Action Plan.
- Feeley, H.B., Baars, J-R., Kelly-Quinn, M., & Nelson, B. (2020). Ireland Red List No. 13: Stoneflies (Plecoptera). National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Dublin, Ireland.
- FitzPatrick, Ú., Murray, T.E., Byrne, A., Paxton, R.J., & Brown, M.J.F. (2006). Regional Red List of Irish Bees. Report to National Parks & Wildlife Service (Ireland) and Environment & Heritage Service (N. Ireland).
- Foster, G. N., Nelson, B. H., & O Connor, Á. (2009). Ireland Red List No. 1 – Water beetles.
- Gilbert, G., Stanbury, A., & Lewis, L. (2021). Birds of Conservation Concern in Ireland 4: 2020–2026. Irish Birds 9: 523-544.. RSPB Great Britain and Birdwatch Ireland.
- Kelly F. L., Matson, R., Connor, L., Feeney, R., Morrissey, E., Wogerbauer C., & Rocks, K. (2011). Water Framework Directive Fish Stock Survey of Rivers in the Eastern River Basin District, 2011. Inland Fisheries Ireland, Swords Business Campus, Swords, Co. Dublin.
- Kelly-Quinn, M., & Regan, E.C. (2012). Ireland Red List No. 7: Mayflies (Ephemeroptera). National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.
- King, J.L., Marnell, F., Kingston, N., Rosell, R., Boylan, P., Caffrey, J.M., Fitzpatrick, Ú., Gargan, P.G., Kelly, F.L., O'Grady, M.F., Poole, R., Roche, W.K., & Cassidy, D. (2011). Ireland Red List No. 5: Amphibians, Reptiles & Freshwater Fish. Marnell, F., Looney, D., & Lawton, C. (2019) Ireland Red List No. 12: Terrestrial Mammals.
- Lockhart, N., Hodgetts, N. & Holyoak, D. (2012) Ireland Red List No.8: Bryophytes. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.
- Nelson, B., Ronayne, C., & Thompson, R. (2011). Ireland Red List No.6: Damselflies & Dragonflies (Odonata).
- Nelson, B., Cummins, S., Fay, L., Jeffrey, R., Kelly, S., Kingston, N., Lockhart, N., Marnell, F., Tierney, D., & Wyse Jackson, M. (2019). Checklists of protected and threatened species in Ireland. Irish Wildlife Manuals, No. 116. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.
- Marnell, F., Looney, D. & Lawton, C. (2019) Ireland Red List No. 12: Terrestrial Mammals. National Parks and Wildlife Service, Department of the Culture, Heritage and the Gaeltacht, Dublin, Ireland.
- Regan, E.C., Nelson, B., Aldwell, B., Bertrand, C., Bond, K., Harding, J., Nash, D., Nixon, D., & Wilson, C.J. (2010). Ireland Red List No. 4 – Butterflies.
- Temple, H.J. & Terry, A. (Compilers) (2007). The Status and Distribution of European Mammals. Luxembourg: Office for Official Publications of the European Communities.
- Wyse Jackson, M., FitzPatrick, Ú., Cole, E., Jebb, M., McFerran, D., Sheehy Skeffington, M., & Wright, M. (2016). Ireland Red List No. 10: Vascular Plants. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Dublin, Ireland.

Directives and Legislation

Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (The Habitats Directive).

S.I. No. 477/2011 - European Communities (Birds and Natural Habitats) Regulations 2011.

S.I. No. 356/2015 - Flora (Protection) Order, 2015.

Wildlife Acts 1976 – 2020. As updated to 2019 by virtue of S.I. No. 411/2009 - European Communities (Cites Simplified Procedures) Regulations 2019.