**Checklist of protected & rare species in Ireland**Key to Tables:EU DirectivesEU HD EU Habitats Directive [Council Directive 92/43/EEC] II Annex II animal & plant species IV Annex IV animal & plant species V Annex V animal & plant speciesEU BD EU Birds Directive [Council Directive 79/409/EEC] I Annex I bird species II(I) Annex II, section I bird species II(II) Annex II, section II bird species III(I) Annex III, section I bird species III(II) Annex III, section II bird species III(III) Annex III, section III bird species

National legislationWA Wildlife Act, 1976 & Wildlife (Amendment) Act, 2000FPO Flora (Protection) Order, 1999 [SI 94/1999]Published National Red Lists\*Plant Red Data Book (Curtis & McGough, 1988; Stewart & Church, 1992)

 Ex Extinct E Endangered V Vulnerable R Rare I Indeterminate (E,V or R, but not enough information available to say which) K Insufficiently known DD Data deficient

Ireland Red Lists using IUCN (2001)

 RE Regionally Extinct

 CR Critically Endangered

 EN Endangered

 VU Vulnerable

 NT Near threatened

 lc least concern

 dd data deficient

 na not assessed

Birds of Conservation Concern in Ireland (BoCCI; Lynas *et al*., 2009)

Bird Red

Bird Amber

International Conventions

OSPAR Convention for the protection of the marine environment of the North-east Atlantic [1992]

AEWA Agreement on the Conservation of African-Eurasian Migratory Waterbirds [1999]

\* Many national red lists are under review, to bring them into line with the IUCN (2001) criteria & categories, and the IUCN (2003) guidance on regional red listing.**References**

*Ireland Red Lists are available for download from www.npws.ie/Publications/RedLists*

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**Plants, Algae & LichensAngiosperms (Flowering plants)**

| **Species** |  | **EU HD** | **FPO** | **Red Status****(Curtis & McGough, 1988)** |
| --- | --- | --- | --- | --- |
| *Adoxa moschatellina* |  |  |  |  | V |
| *Luronium natans* | Floating Water-Plantain | II |  |  |  |
| *Allium schoenoprasum* | Chives |  |  | X | R |
| *Asparagus officinalis* ssp. *prostrata* | Wild Asparagus |  |  | X | R |
| *Simethis planifolia* | Kerry Lily |  |  | X | V |
| *Mertensia maritima* | Oyster Plant |  |  | X | R |
| *Callitriche truncata* | Short-leaved Water-Starwort |  |  | X | R |
| *Campanula trachelium* | Bats-in-the-Belfry |  |  |  | V |
| *Arenaria norvegica* |  |  |  |  | DD |
| *Agrostemma githago* |  |  |  |  | Ex |
| *Arenaria ciliata* | Fringed Sandwort |  |  | X | R |
| *Minuartia recurva*  | Recurved Sandwort |  |  | X | R |
| *Silene acaulis* |  |  |  |  | R |
| *Arthrocnemum perenne*  | Perennial Glasswort |  |  | X | V |
| *Helianthemum canum*  | Hoary Rock-rose |  |  |  | R |
| *Helianthemum nummularium*  | Common Rockrose |  |  | X | R |
| *Tuberaria guttata* |  |  |  |  | R |
| *Colchicum autumnale* | Autumn Crocus |  |  | X | E |
| *Carduus nutans* |  |  |  |  | DD |
| *Hypochoeris glabra* |  |  |  |  | DD |
| *Otanthus maritimus* | Cottonweed |  |  | X | E |
| *Anthemis arvensis* |  |  |  |  | Ex |
| *Serratula tinctoria* |  |  |  |  | Ex |
| *Cirsium helenioides*  |  |  |  |  | R |
| *Logfia minima* | Slender Cudweed |  |  | X | R |
| *Omalotheca sylvatica* | Wood Cudweed |  |  | X | R |
| *Saussurea alpina*  | Alpine Saussurea |  |  |  | R |
| *Taraxacum gotlandicum* |  |  |  |  | R |
| *Erigeron acer* |  |  |  |  | V |
| *Inula salicina* | Irish Fleabane |  |  | X | V |
| *Matthiola sinuata* |  |  |  |  | Ex |
| *Cardamine amara* |  |  |  |  | R |
| *Cardamine impatiens* | Narrow leaved Bitter-Cress |  |  | X | R |
| *Cardaminopsis petraea*  | Northern Rockcress |  |  | X | R |
| *Draba incana* |  |  |  |  | R |
| *Rorippa islandica* | Marsh Yellowcress |  |  |  | R |
| *Teesdalia nudicaulis* |  |  |  |  | R |
| *Carex divisa*  | Divided Sedge |  |  | X | Ex |
| *Centaurea cyanus* |  |  |  |  | Ex |
| *Carex depauperata* | Starved Wood Sedge |  |  | X | R |
| *Carex magellanica* |  |  |  |  | R |
| *Eriophorum gracile* | Slender Cotton Grass |  |  | X | R |
| *Carex pauciflora* |  |  |  |  | V |
| *Centaurium littorale* |  |  |  |  | V |
| *Eleocharis parvula* |  |  |  |  | V |
| *Scirpus triqueter* | Triangular Club Rush |  |  | X | V |
| *Elatine hydropiper* |  |  |  |  | R |
| *Orthilia secunda* |  |  |  |  | E |
| *Erica mackaiana* |  |  |  |  | R |
| *Monotropa hypopitys* |  |  |  |  | R |
| *Pyrola media* |  |  |  |  | R |
| *Pyrola rotundifolia* ssp*. maritima* | Round-leaved Wintergreen |  |  | X | R |
| *Pyrola rotundifolia* ssp *rotundifolia* |  |  |  |  | R |
| *Erica ciliaris* | Dorset Heath |  |  |  | V |
| *Erica vagans* |  |  |  |  | V |
| *Euphorbia peplis* |  |  |  |  | Ex |
| *Centaurium pulchellum* | Lesser Centaury |  |  | X | V |
| *Geranium purpureum* | Little Robin Cranesbill |  |  |  | V |
| *Geranium rotundifolium* |  |  |  |  | V |
| *Geranium sylvaticum* |  |  |  |  | V |
| *Geranium pratense* |  |  |  |  | y |
| *Hypericum canadense* | Canadian St. John's Wort |  |  | X | R |
| *Hypericum hirsutum* | Hairy St. John's Wort |  |  | X | V |
| *Hydrilla verticillata* | Irish Hydrilla |  |  | X | V |
| *Scleranthus annuus* | Annual Knawel |  |  | X |  |
| *Juncus compressus* |  |  |  |  | R |
| *Scheuchzeria palustris* |  |  |  |  | Ex |
| *Ajuga pyramidalis* | Pyramidal Bugle |  |  |  | R |
| *Lamiastrum galeobdolon* ssp. *montanum* |  |  |  |  | R |
| Salvia verbenaca | Wild Clary |  |  |  | R |
| *Acinos arvensis* | Basil Thyme |  |  | X | V |
| *Galeopsis angustifolia* | Red Hemp Nettle |  |  | X | V |
| *Mentha pulegium* | Penny Royal |  |  | X | V |
| *Stachys officinalis* | Betony |  |  | X | V |
| *Lathyrus japonicus* | Sea pea |  |  | X | DD |
| *Astragalus danicus* | Purple Milk Vetch |  |  | X | R |
| *Lotus subbiflorus* | Hairy Birdsfoot Trefoil |  |  | X | R |
| *Ornithopus perpusillus* | Birdsfoot |  |  |  | R |
| *Vicia lathyroides* |  |  |  |  | R |
| *Trifolium glomeratum* | Clustered Clover |  |  | X | V |
| *Trifolium subterraneum* | Subterranean Clover |  |  | X | V |
| *Vicia orobus* | Bitter Vetch |  |  | X | V |
| *Najas flexilis* | Slender Naiad | II | IV | X | R |
| *Epilobium alsinifolium* | Chickweed Willow Herb |  |  | X | R |
| *Hammarbya paludosa* | Bog Orchid |  |  | X | R |
| *Spiranthes romanzoffiana* | Drooping Lady's Tresses |  |  | X | R |
| *Cephalanthera longifolia* | Narrow-leaved Helleborine |  |  | X | V |
| *Epipactis phyllanthes* | Green-flowered Helleborine |  |  |  | V |
| *Orchis morio* | Green-winged orchid |  |  |  | V |
| *Pseudorchis albida* | Small-white Orchid |  |  | X | V |
| *Orobanche rapum-genistae* | Greater Broomrape |  |  |  | R |
| *Papaver hybridum* | Round Prickly-headed Poppy |  |  | X | E |
| *Hordelymus europaeus* |  |  |  |  | DD |
| *Lolium temulentum* |  |  |  |  | Ex |
| *Bromus racemosus* |  |  |  |  | R |
| *Calamagrostis epigejos* | Wood small-reed |  |  | X | R |
| *Deschampsia setacea* | Bog Hair Grass |  |  | X | R |
| *Hierochloe odorata* |  |  |  |  | R |
| *Poa alpina* | Alpine Poa |  |  |  | R |
| *Poa palustris* |  |  |  |  | R |
| *Puccinellia fasciculata* | Tufted Salt-marsh Grass |  |  | X | R |
| *Calamagrostis sticta* |  |  |  |  | V |
| *Hordeum secalinum* | Meadow Barley |  |  | X | V |
| *Alopecurus aequalis* | Orange Foxtail |  |  | X |  |
| *Polygonum viviparum* | Alpine Bistort |  |  | X | DD |
| *Polygonum maritimum* | Sea Knotgrass |  |  |  | R |
| *Rumex maritimus* |  |  |  |  | R |
| *Groenlandia densa* | Opposite-leaved Pondweed |  |  | X | V |
| *Hottonia palustris* | Water violet |  |  |  | R |
| *Ranunculus fluitans* |  |  |  |  | R |
| *Ranunculus tripartitus* | Three-lobed Water Crowfoot |  |  |  | R |
| *Trollius europaeus* | Globe Flower |  |  | X | V |
| *Frangula alnus* |  |  |  |  | R |
| *Alchemilla alpina* |  |  |  |  | R |
| *Filipendula vulgaris* |  |  |  |  | R |
| *Potentilla fruticosa* |  |  |  |  | R |
| *Rubus chamaemorus* |  |  |  |  | V |
| *Sanguisorba officinalis* | Great Burnet |  |  | X | V |
| *Salix phylicifolia* | Tea-leaved Willow |  |  |  | R |
| *Saxifraga granulata* | Meadow Saxifrage |  |  | X | E |
| *Saxifraga hirculus* | Yellow Marsh Saxifrage | II | IV | X | E |
| *Saxifraga aizoides* |  |  |  |  | R |
| *Saxifraga hartii* | Hart's Saxifrage |  |  | X | R |
| *Saxifraga nivalis* | Alpine Saxifrage |  |  | X | R |
| *Saxifraga oppositifolia* |  |  |  |  | R |
| *Limosella aquatica* | Mudwort |  |  | X | R |
| *Sibthorpia europaea* |  |  |  |  | R |
| *Kickxia elatine* | Fluellen |  |  |  | V |
| *Melampyrum sylvaticum* |  |  |  |  | V |
| *Misopates orontium* | Lesser Snapdragon |  |  | X | V |
| *Scrophularia umbrosa* |  |  |  |  | V |
| *Hyoscyamus niger* | Henbane |  |  |  | R |
| *Scandix pecten-veneris* |  |  |  |  | Ex |
| *Ligusticum scoticum* |  |  |  |  | R |
| *Oenanthe pimpinelloides* | Water dropwort |  |  |  | R |
| *Viola persicifolia* |  |  |  |  | R |
| *Viola hirta* | Hairy Violet |  |  | X | V |
| *Viola lactea* | Pale Heath Violet |  |  | X | V |

**Pteridophytes (Ferns & Fern allies)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species** |  | EU HD | **FPO** | **Red Status****(Curtis & McGough, 1988)** |
| Cryptogramma crispa | Parsley Fern |  |  |  | X | R |
| *Asplenium septentrionale* | ForkedSpleenwort |  |  |  | X | R |
| *Asplenium obovatum* subsp*. lanceolatum*  | Lanceolate Spleenwort |  |  |  | X | V |
| Polystichum lonchitis | Holly Fern |  |  |  |  | R |
| *Equisetum pratense* |  |  |  |  |  | R |
| *Equisetum* X *moorei* | Moore's Horsetail |  |  |  | X |  |
| *Trichomanes speciosum* | Killarney Fern | II | IV |  | X | R |
| *Lycopodiella inundata* | Marsh Clubmoss |  |  | V | X | R |
| *Diphasiastrum alpinum* |  |  |  | V |  |  |
| *Huperzia selago* |  |  |  | V |  |  |
| *Lycopodium clavatum* |  |  |  | V |  |  |
| *Pilularia globulifera* | Pillwort |  |  |  | X | R |
| *Gymnocarpium dryopteris* | Oak Fern |  |  |  |  | V |
| Gymnocarpium robertianum  | Limestone Fern |  |  |  | X | V |

**Hornworts & Liverworts**

| **Species** | **EU HD** | **FPO** | **Red Status****(Lockhart *et al*., 2012)** |
| --- | --- | --- | --- |
| *Anthoceros agrestis* |  |  |  | VU |
| *Acrobolbus wilsonii* |  |  |  | VU |
| *Adelanthus lindenbergianus* |  |  |  | VU |
| *Anastrophyllum hellerianum* |  |  |  | RE |
| *Aneura mirabilis* |  |  |  | VU |
| *Anthelia juratzkana* |  |  |  | NT |
| *Barbilophozia atlantica* |  |  |  | EN |
| *Barbilophozia barbata* |  |  |  | CR |
| *Barbilophozia kunzeana* |  |  |  | RE |
| *Bazzania pearsonii* |  |  |  | VU |
| *Calypogeia integristipula* |  |  |  | EN |
| *Calypogeia suecica* |  |  |  | RE |
| *Cephalozia crassifolia* |  |  |  | EN |
| *Cephalozia loitlesbergeri* |  |  |  | VU |
| *Cephalozia macrostachya* var. *spiniflora* |  |  |  | dd |
| *Cephalozia pleniceps* |  |  |  | VU |
| *Cephaloziella elachista* |  |  |  | dd |
| *Cephaloziella integerrima* |  |  |  | VU |
| *Cephaloziella massalongi* |  |  |  | VU |
| *Cephaloziella nicholsonii* |  |  |  | VU |
| *Cephaloziella rubella* |  |  |  | VU |
| *Cephaloziella spinigera* |  |  |  | dd |
| *Cephaloziella stellulifera* |  |  |  | NT |
| *Cephaloziella turneri* |  |  |  | VU |
| *Cladopodiella francisci* |  |  |  | VU |
| *Diplophyllum obtusifolium* |  |  |  | NT |
| *Douinia ovata* |  |  |  | NT |
| *Dumortiera hirsuta* |  |  |  | NT |
| *Eremonotus myriocarpus* |  |  |  | NT |
| *Fossombronia caespitiformis* subsp. *multispira* |  |  |  | dd |
| *Fossombronia fimbriata* |  |  |  | VU |
| *Fossombronia maritima* |  |  |  | NT |
| *Geocalyx graveolens* |  |  |  | EN |
| *Gymnomitrion concinnatum* |  |  |  | EN |
| *Gymnomitrion corallioides* |  |  |  | CR |
| *Gymnomitrion obtusum* |  |  |  | NT |
| *Kurzia sylvatica* |  |  |  | NT |
| *Leiocolea bantriensis* |  |  |  | NT |
| *Leiocolea fitzgeraldiae* |  |  |  | NT |
| *Leiocolea gillmanii* |  |  | X | VU |
| *Leiocolea heterocolpos* |  |  |  | CR |
| *Leiocolea rutheana* var. *rutheana* |  |  | X | EN |
| *Lejeunea eckloniana* |  |  |  | NT |
| *Lejeunea flava* subsp. *moorei* |  |  |  | VU |
| *Lejeunea hibernica* |  |  |  | NT |
| *Lejeunea mandonii* |  |  |  | EN |
| *Lophozia opacifolia* |  |  |  | VU |
| *Lophozia wenzelii* |  |  |  | dd |
| *Marchantia polymorpha* subsp. *montivagans* |  |  |  | EN |
| *Marsupella adusta* |  |  |  | NT |
| *Marsupella funckii* |  |  |  | NT |
| *Marsupella sphacelata* |  |  |  | VU |
| *Marsupella sprucei* |  |  |  | VU |
| *Mastigophora woodsii* |  |  |  | NT |
| *Metzgeria leptoneura* |  |  |  | NT |
| *Metzgeria pubescens* |  |  |  | VU |
| *Moerckia hibernica* |  |  |  | dd |
| *Nardia geoscyphus* |  |  |  | NT |
| *Odontoschisma elongatum* |  |  |  | NT |
| *Pallavicinia lyellii* |  |  |  | EN |
| *Petalophyllum ralfsii* | II |  |  |  |
| *Plagiochila carringtonii* |  |  |  | EN |
| *Plagiochila heterophylla* |  |  | X | EN |
| *Porella cordaeana* |  |  |  | NT |
| *Ptilidium pulcherrimum* |  |  |  | RE |
| *Radula carringtonii* |  |  |  | NT |
| *Radula holtii* |  |  |  | NT |
| *Riccia crozalsii* |  |  |  | EN |
| *Riccia huebeneriana* |  |  |  | dd |
| *Ricciocarpos natans* |  |  |  | NT |
| *Scapania curta* |  |  |  | VU |
| *Scapania cuspiduligera* |  |  |  | VU |
| *Scapania gymnostomophila* |  |  |  | VU |
| *Scapania lingulata* |  |  |  | dd |
| *Scapania nimbosa* |  |  |  | EN |
| *Scapania ornithopodioides* |  |  |  | VU |
| *Scapania subalpina* |  |  |  | dd |
| *Solenostoma paroicum* |  |  |  | NT |
| *Solenostoma sphaerocarpum* |  |  |  | NT |
| *Solenostoma subellipticum* |  |  |  | NT |
| *Southbya tophacea* |  |  |  | CR |
| *Sphenolobopsis pearsonii* |  |  |  | NT |
| *Targionia hypophylla* |  |  |  | RE |
| *Telaranea europaea* |  |  |  | NT |
| *Tritomaria exsecta* |  |  |  | VU |

**Mosses**

| **Species** | **EU HD** | **FPO** | **Red Status****(Lockhart *et al*., 2012)** |
| --- | --- | --- | --- |
| *Abietinella abietina* var. *abietina* |  |  |  | EN |
| *Abietinella abietina* var. *hystricosa* |  |  |  | NT |
| *Acaulon muticum* |  |  |  | RE |
| *Aloina ambigua* |  |  |  | EN |
| *Aloina rigida* |  |  |  | RE |
| *Amblystegium confervoides* |  |  |  | NT |
| *Amphidium lapponicum* |  |  |  | VU |
| *Andreaea megistospora* |  |  |  | VU |
| *Antitrichia curtipendula* |  |  |  | NT |
| *Aongstroemia longipes* |  |  |  | CR |
| *Arctoa fulvella* |  |  |  | VU |
| *Atrichum angustatum* |  |  |  | RE |
| *Atrichum tenellum* |  |  |  | NT |
| *Aulacomnium androgynum* |  |  |  | VU |
| *Bartramia halleriana* |  |  |  | RE |
| *Bartramia ithyphylla* |  |  |  | VU |
| *Brachydontium trichodes* |  |  |  | EN |
| *Brachytheciastrum velutinum* |  |  |  | EN |
| *Bryum bornholmense* |  |  |  | NT |
| *Bryum caespiticium* |  |  |  | VU |
| *Bryum calophyllum* |  |  | X | EN |
| *Bryum creberrimum* |  |  |  | dd |
| *Bryum dyffrynense* |  |  |  | NT |
| *Bryum elegans* |  |  |  | VU |
| *Bryum gemmiparum* |  |  |  | VU |
| *Bryum intermedium* |  |  |  | EN |
| *Bryum knowltonii* |  |  |  | EN |
| *Bryum moravicum* |  |  |  | CR |
| *Bryum riparium* |  |  |  | EN |
| *Bryum salinum* |  |  |  | CR |
| *Bryum tenuisetum* |  |  |  | dd |
| *Bryum torquescens* |  |  |  | VU |
| *Bryum turbinatum* |  |  |  | RE |
| *Bryum uliginosum* |  |  |  | EN |
| *Bryum warneum* |  |  |  | EN |
| *Buxbaumia aphylla* |  |  |  | RE |
| *Campyliadelphus elodes* |  |  |  | NT |
| *Campylopus atrovirens* var. *falcatus* |  |  |  | NT |
| *Campylopus schimperi* |  |  |  | RE |
| *Campylopus shawii* |  |  |  | NT |
| *Campylopus subulatus* |  |  |  | VU |
| *Campylostelium saxicola* |  |  |  | EN |
| *Catoscopium nigritum* |  |  | X | NT |
| *Cinclidium stygium* |  |  |  | VU |
| *Cinclidotus riparius* |  |  |  | dd |
| *Conardia compacta* |  |  |  | RE |
| *Ctenidium molluscum* var. *robustum* |  |  |  | RE |
| *Cyclodictyon laetevirens* |  |  |  | NT |
| *Cynodontium jenneri* |  |  |  | VU |
| *Dicranella cerviculata* |  |  |  | NT |
| *Dicranella crispa* |  |  |  | EN |
| *Dicranella grevilleana* |  |  |  | NT |
| *Dicranodontium asperulum* |  |  |  | VU |
| *Dicranodontium uncinatum* |  |  |  | VU |
| *Dicranum undulatum* |  |  |  | RE |
| *Didymodon acutus* |  |  |  | EN |
| *Didymodon icmadophilus* |  |  |  | RE |
| *Didymodon maximus* |  |  |  | NT |
| *Didymodon tomaculosus* |  |  |  | VU |
| *Didymodon umbrosus* |  |  |  | VU |
| *Discelium nudum* |  |  |  | NT |
| *Ditrichum cornubicum* |  |  |  | CR |
| *Ditrichum flexicaule* |  |  |  | dd |
| *Ditrichum lineare* |  |  |  | CR |
| *Ditrichum plumbicola* |  |  |  | EN |
| *Ditrichum pusillum* |  |  |  | dd |
| *Ditrichum zonatum* |  |  |  | EN |
| *Drepanocladus sendtneri* |  |  |  | NT |
| *Encalypta alpina* |  |  |  | VU |
| *Encalypta ciliata* |  |  |  | CR |
| *Encalypta rhaptocarpa* |  |  |  | CR |
| *Encalypta vulgaris* |  |  |  | NT |
| *Entosthodon fascicularis* |  |  |  | NT |
| *Entosthodon muhlenbergii* |  |  |  | RE |
| *Ephemerum cohaerens* |  |  |  | VU |
| *Ephemerum crassinervium* subsp. *rutheanum* |  |  |  | NT |
| *Ephemerum crassinervium* subsp. *sessile* |  |  |  | NT |
| *Ephemerum recurvifolium* |  |  |  | dd |
| *Ephemerum spinulosum* |  |  |  | EN |
| *Eurhynchiastrum pulchellum* var. *diversifolium* |  |  |  | RE |
| *Fissidens crispus* |  |  |  | dd |
| *Fissidens curvatus* |  |  |  | RE |
| *Fissidens exilis* |  |  |  | VU |
| *Fissidens fontanus* |  |  |  | VU |
| *Fissidens monguillonii* |  |  |  | NT |
| *Fissidens polyphyllus* |  |  |  | VU |
| *Fissidens rivularis* |  |  |  | VU |
| *Fissidens rufulus* |  |  |  | EN |
| *Fissidens serrulatus* |  |  |  | VU |
| *Fontinalis antipyretica* var. *cymbifolia* |  |  |  | dd |
| *Fontinalis antipyretica* var. *gracilis* |  |  |  | NT |
| *Grimmia anomala* |  |  |  | EN |
| *Grimmia atrata* |  |  |  | EN |
| *Grimmia crinita* |  |  |  | RE |
| *Grimmia decipiens* |  |  |  | NT |
| *Grimmia dissimulata* |  |  |  | VU |
| *Grimmia donniana* |  |  |  | NT |
| *Grimmia funalis* |  |  |  | NT |
| *Grimmia laevigata* |  |  |  | RE |
| *Grimmia longirostris* |  |  |  | RE |
| *Grimmia muehlenbeckii* |  |  |  | dd |
| *Grimmia orbicularis* |  |  |  | VU |
| *Grimmia ramondii* |  |  |  | NT |
| *Grimmia torquata* |  |  |  | NT |
| *Hageniella micans* |  |  |  | NT |
| *Hamatocaulis vernicosus* | II |  | X | NT |
| *Hedwigia ciliata* var. *ciliata* |  |  |  | VU |
| *Hedwigia integrifolia* |  |  |  | VU |
| *Heterocladium wulfsbergii* |  |  |  | NT |
| *Hygroamblystegium fluviatile* |  |  |  | NT |
| *Hygroamblystegium humile* |  |  |  | EN |
| *Hygroamblystegium varium* |  |  |  | NT |
| *Hygrohypnum duriusculum* |  |  |  | CR |
| *Hylocomiastrum umbratum* |  |  |  | NT |
| *Hymenostylium recurvirostrum* var. *insigne* |  |  |  | NT |
| *Hypnum callichroum* |  |  |  | NT |
| *Hypnum uncinulatum* |  |  |  | NT |
| *Isopterygiopsis muelleriana* |  |  |  | VU |
| *Kiaeria falcata* |  |  |  | CR |
| *Leptobarbula berica* |  |  | X | VU |
| *Leptodon smithii* |  |  |  | EN |
| *Leptodontium flexifolium* |  |  |  | NT |
| *Leucobryum glaucum* |  | V |  |  |
| *Meesia triquetra* |  |  |  | RE |
| *Meesia uliginosa* |  |  |  | EN |
| *Microbryum curvicollum* |  |  |  | RE |
| *Microbryum starckeanum* |  |  |  | RE |
| *Mnium thomsonii* |  |  |  | NT |
| *Molendoa warburgii* |  |  |  | VU |
| *Myurella julacea* |  |  |  | EN |
| *Myurium hochstetteri* |  |  |  | RE |
| *Oedipodium griffithianum* |  |  |  | CR |
| *Orthodontium gracile* |  |  |  | CR |
| *Orthothecium rufescens* |  |  |  | NT |
| *Orthotrichum pallens* |  |  | X | EN |
| *Orthotrichum rivulare* |  |  |  | NT |
| *Orthotrichum sprucei* |  |  | X | VU |
| *Orthotrichum stramineum* |  |  | X | VU |
| *Oxyrrhynchium schleicheri* |  |  |  | CR |
| *Oxyrrhynchium speciosum* |  |  |  | NT |
| *Paludella squarrosa* |  |  | X | CR |
| *Paraleptodontium recurvifolium* |  |  |  | NT |
| *Phascum cuspidatum* var. *papillosum* |  |  |  | dd |
| *Phascum cuspidatum* var. *piliferum* |  |  |  | dd |
| *Philonotis arnellii* |  |  |  | EN |
| *Philonotis caespitosa* |  |  |  | NT |
| *Philonotis cernua* |  |  |  | CR |
| *Philonotis rigida* |  |  |  | VU |
| *Philonotis tomentella* |  |  |  | VU |
| *Physcomitrium sphaericum* |  |  |  | VU |
| *Plagiobryum zieri* |  |  |  | NT |
| *Plagiomnium cuspidatum* |  |  |  | NT |
| *Plagiopus oederianus* |  |  |  | CR |
| *Plagiothecium cavifolium* |  |  |  | VU |
| *Plagiothecium curvifolium* |  |  |  | VU |
| *Plagiothecium denticulatum* var. *obtusifolium* |  |  |  | NT |
| *Plagiothecium laetum* |  |  |  | VU |
| *Plagiothecium latebricola* |  |  |  | VU |
| *Plagiothecium platyphyllum* |  |  |  | VU |
| *Plasteurhynchium striatulum* |  |  |  | NT |
| *Platydictya jungermannioides* |  |  |  | NT |
| *Platyhypnidium lusitanicum* |  |  |  | NT |
| *Pleurochaete squarrosa* |  |  |  | NT |
| *Pogonatum nanum* |  |  |  | EN |
| *Pohlia andalusica* |  |  |  | EN |
| *Pohlia elongata* var. *elongata* |  |  |  | NT |
| *Pohlia elongata* var. *greenii* |  |  |  | EN |
| *Pohlia filum* |  |  |  | VU |
| *Pohlia lescuriana* |  |  |  | dd |
| *Pohlia proligera* |  |  |  | RE |
| *Pohlia wahlenbergii* var. *calcarea* |  |  |  | dd |
| *Pohlia wahlenbergii* var. *glacialis* |  |  |  | RE |
| *Polytrichum commune* var. *perigoniale* |  |  |  | dd |
| *Pseudocalliergon lycopodioides* |  |  |  | VU |
| *Pseudocalliergon trifarium* |  |  |  | VU |
| *Pterigynandrum filiforme* |  |  |  | RE |
| *Pterygoneurum lamellatum* |  |  |  | RE |
| *Pterygoneurum ovatum* |  |  |  | RE |
| *Ptilium crista-castrensis* |  |  |  | CR |
| *Racomitrium canescens* |  |  |  | VU |
| *Racomitrium elongatum* |  |  |  | VU |
| *Racomitrium macounii* subsp. *alpinum* |  |  |  | VU |
| *Rhabdoweisia crispata* |  |  |  | NT |
| *Rhabdoweisia fugax* |  |  |  | VU |
| *Rhizomnium pseudopunctatum* |  |  |  | NT |
| *Rhodobryum roseum* |  |  |  | NT |
| *Rhynchostegiella curviseta* |  |  |  | RE |
| *Rhynchostegium megapolitanum* |  |  |  | NT |
| *Rhytidiadelphus subpinnatus* |  |  |  | RE |
| *Rhytidium rugosum* |  |  |  | VU |
| *Schistidium agassizii* |  |  |  | VU |
| *Schistidium confertum* |  |  |  | dd |
| *Schistidium elegantulum* subsp. *elegantulum* |  |  |  | dd |
| *Schistidium elegantulum* subsp. *wilsonii* |  |  |  | dd |
| *Schistidium platyphyllum* |  |  |  | VU |
| *Schistidium pruinosum* |  |  |  | dd |
| *Schistidium robustum* |  |  |  | dd |
| *Schistidium strictum* |  |  |  | NT |
| *Schistidium trichodon* |  |  |  | VU |
| *Scleropodium cespitans* |  |  |  | NT |
| *Scleropodium touretii* |  |  |  | EN |
| *Scopelophila cataractae* |  |  |  | VU |
| *Seligeria calcarea* |  |  |  | VU |
| *Seligeria calycina* |  |  |  | RE |
| *Seligeria oelandica* |  |  |  | VU |
| *Seligeria patula* |  |  |  | NT |
| *Sematophyllum demissum* |  |  |  | NT |
| *Sematophyllum substrumulosum* |  |  |  | VU |
| *Sphagnum affine* |  | V |  | VU |
| *Sphagnum capillifolium* subsp. *capillifolium* |  | V |  | dd |
| *Sphagnum flexuosum* |  | V |  | VU |
| *Sphagnum girgensohnii* |  | V |  | NT |
| *Sphagnum platyphyllum* |  | V |  | NT |
| *Sphagnum russowii* |  | V |  | NT |
| *Sphagnum skyense* |  | V |  | dd |
| *Sphagnum strictum* |  | V |  | dd |
| *Sphagnum subsecundum* |  | V |  | NT |
| *Sphagnum teres* |  | V |  | NT |
| *Sphagnum warnstorfii* |  | V |  | VU |
| *Syntrichia princeps* |  |  |  | RE |
| *Syntrichia virescens* |  |  |  | dd |
| *Tayloria tenuis* |  |  |  | RE |
| *Tetraplodon angustatus* |  |  | X | dd |
| *Tetrodontium brownianum* |  |  |  | NT |
| *Thuidium recognitum* |  |  |  | VU |
| *Timmia norvegica* |  |  |  | VU |
| *Tomentypnum nitens* |  |  |  | VU |
| *Tortella densa* |  |  |  | NT |
| *Tortella inclinata* |  |  | X | EN |
| *Tortula atrovirens* |  |  |  | NT |
| *Tortula canescens* |  |  |  | dd |
| *Tortula cuneifolia* |  |  |  | CR |
| *Tortula lanceola* |  |  |  | CR |
| *Tortula marginata* |  |  |  | NT |
| *Tortula modica* |  |  |  | VU |
| *Tortula protobryoides* |  |  |  | RE |
| *Tortula vahliana* |  |  |  | RE |
| *Tortula wilsonii* |  |  | X | RE |
| *Ulota coarctata* |  |  |  | CR |
| *Ulota drummondii* |  |  |  | RE |
| *Weissia brachycarpa* var. *brachycarpa* |  |  |  | dd |
| *Weissia condensa* |  |  |  | dd |
| *Weissia controversa* var. *crispata* |  |  |  | dd |
| *Weissia longifolia* var. *angustifolia* |  |  | X | VU |
| *Weissia rostellata* |  |  | X | NT |
| *Weissia rutilans* |  |  |  | VU |

ALL members of the bryophyte family Sphagnaceae are protected under Annex V of the EU Habitats Directive [92/43/EEC].

## Algae

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species** |  | **EU HD** | **FPO** | **RedStatus****(Stewart & Church, 1992)** |
| Chara muscosa |  |  |  | Ex |
| *Tolypella prolifera* |  |  |  | Ex |
| *Chara connivens* |  |  |  | I |
| *Nitella spanioclema*  |  |  |  | I |
| *Chara baltica* |  |  |  | K |
| *Nitellopsis obtusa* |  |  |  | K |
| *Chara denudata* |  |  |  | R |
| *Chara tomentosa* |  |  |  | R |
| *Nitella mucronata* |  |  |  | R |
| *Chara canescens* |  |  |  | V |
| *Lamprothamnium papulosum* | Foxtail Stonewort |  | X | V |
| *Nitella gracilis* | Slender Stonewort |  | X | V |
| *Nitella tenuissima* |  |  |  | V |
| *Tolypella intricata* |  |  |  | V |
| *Lithothamnion corralloides*  | Maerl | V |  |  |
| *Phymatolithon calcareum* | Maerl | V |  |  |

## Lichens

|  |  |  |
| --- | --- | --- |
| **Species** | EU HD | FPO |
| Fulgensia fulgens |  | X |
| Cladonia arbuscula | V |  |
| Cladonia azorica | V |  |
| Cladonia ciliate | V |  |
| Cladonia portentosa | V |  |
| Cladonia rangiferina | V |  |

**Mammals**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Species |  | **EU HD** | **OSPAR** | **WA** | **Red Status****(Marnell *et al.*, 2010)** |
| Erinaceus europaeus  | Hedgehog |  |  |  |  | X | lc |
| *Sorex minutus* | Pygmy shrew |  |  |  |  | X | lc |
| *Rhinolophus hipposideros* | Lesser Horseshoe | II | IV |  |  | X | lc |
| *Myotis mystacinus* | Whiskered bat |  | IV |  |  | X | lc |
| *Myotis nattereri* | Natterer's bat |  | IV |  |  | X | lc |
| *Myotis daubentoni* | Daubenton's bat |  | IV |  |  | X | lc |
| *Myotus brandtii* | Brandt's bat |  | IV |  |  | X | dd |
| *Nyctalus leisleri* | Leisler's bat |  | IV |  |  | X | NT |
| *Pipistrellus pipistrellus* | Common pipistrelle |  | IV |  |  | X | lc |
| *Pipistrellus pygmaeus* | Soprano pipistrelle |  | IV |  |  | X | lc |
| *Pipistrellus nathusii* | Nathusius' pipistrelle |  | IV |  |  | X | lc |
| *Plecotus auritus* | Brown long-eared bat |  | IV |  |  | X | lc |
| *Lepus timidus*  | Irish hare |  |  | V |  | X | lc |
| *Lepus europaeus* | Brown hare |  |  |  |  | X | na |
| *Rattus rattus* | Ship rat |  |  |  |  |  | VU |
| *Sciurus vulgaris*  | Red squirrel |  |  |  |  | X | NT |
| *Lutra lutra*  | Otter | II | IV |  |  | X | NT |
| *Martes martes*  | Pine marten |  |  | V |  | X | lc |
| *Meles meles*  | Badger |  |  |  |  | X | lc |
| *Mustela erminea*  | Stoat |  |  |  |  | X | lc |
| *Canis lupus* | Grey wolf |  |  |  |  |  | RE |
| *Cervus elaphus* | Red deer |  |  |  |  | X | lc |
| *Cervus nippon* | Sika deer |  |  |  |  | X | na |
| *Dama dama* | Fallow deer |  |  |  |  | X | lc |
| *Halichoerus grypus*  | Grey seal | II |  | V |  | X |  |
| *Phoca vitulina*  | Harbour seal | II |  | V |  | X |  |
| *Tursiops truncatus (tursio)*  | Bottlenose dolphin | II | IV |  |  | X |  |
| *Phocoena phocoena*  | Harbour porpoise | II | IV |  | X | X |  |
| *Balaenoptera musculus*  | Blue whale |  | IV |  | X | X |  |
| *Eubalaena glacialis* | Northern right whale |  | IV |  | X | X |  |

ALL cetaceans are protected under the EC Habitats Directive (Annex IV), the Whale Fisheries Act, 1937 (including an order made in SI 240/1982) and the Wildlife Act, 1976.

## Reptiles

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Species |  | EU HD | **WA** | **OSPAR** | **Red Status****(King *et al.*,2011)** |
| Dermochelys coriacea  | Leatherback turtle |  | IV | X | X | lc |
| *Lepidochelys kempii* | Kemp's Ridley turtle |  | IV | X |  | na |
| *Caretta caretta* | Loggerhead turtle | II | IV | X | X | na |
| *Eretmochelys imbricata* | Hawksbill turtle |  | IV | X |  | na |
| *Lacerta vivipara* | Common lizard |  |  | X |  | lc |

The common lizard was added to the Wildlife Act, 1976 by regulations made in SI 282/1980, and Marine turtles were added by regulations made in SI 112/1990.

## Amphibians

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species |  | **EU HD** | **WA** | **Red Status****(King *et al.*,2011)** |
| Bufo calamita  | Natterjack toad | IV |  | X | EN |
| *Rana temporaria* | Common frog |  | V | X | lc |
| *Triturus vulgaris* | Common newt |  |  | X | lc |

The common frog and common newt were added to the Wildlife Act, 1976 by regulations made in SI 282/1980.

**Fish**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species |  | **EU HD** | **Red Status****(King *et al.*,2011)** | **OSPAR** |
| Acipenser sturio | Sturgeon |  | IV |  | na | X |
| *Alosa alosa*  | Allis Shad | II |  | V | dd | X |
| *Alosa fallax*  | Twaite Shad | II |  | V | VU |  |
| *Alosa fallax killarnensis* | Killarney Shad | II |  | V | VU |  |
| *Osmerus eperlanus* | Smelt |  |  |  | lc |  |
| *Lampetra fluviatilis*  | River Lamprey | II |  | V | lc |  |
| *Lampetra planeri*  | Brook Lamprey | II |  |  | lc |  |
| *Petromyzon marinus*  | Sea Lamprey | II |  |  | NT | X |
| *Coregonus autumnalis* | Pollan |  |  | V | VU |  |
| *Salvelinus alpinus* | Arctic Charr |  |  |  | VU |  |
| *Salmo salar* | Salmon | II*\** |  | V*\** | VU | X |
| *Anguilla anguilla* | European eel |  |  |  | CR | X |
| *Centroscymnus coelolepis* | Portuguese dogfish |  |  |  |  | X |
| *Centrophorus granulosus* | Gulper shark |  |  |  |  | X |
| *Centrophorus squamosus* | Leafscale gulper shark |  |  |  |  | X |
| *Cetorhinus maximus* | Basking shark |  |  |  |  | X |
| *Dipturus batis (Raja batis)* | Common Skate |  |  |  |  | X |
| *Raja montagui (Dipturus montagui)* | Spotted Ray |  |  |  |  | X |
| *Gadus morhua* | Cod |  |  |  |  | X |
| *Hoplostethus atlanticus* | Orange roughy |  |  |  |  | X |
| *Lamna nasus* | Porbeagle |  |  |  |  | X |
| *Rostroraja alba* | White skate |  |  |  |  | X |
| *Squalus acanthias* | [Northeast Atlantic] spurdog |  |  |  |  | X |
| *Squatina squatina* | Angel shark |  |  |  |  | X |
| *Thunnus thynnus* | Bluefin tuna |  |  |  |  | X |

\*This only refers to Salmon in freshwater.

Numerous fish and invertebrates are listed on the Wildlife (Fish and Aquatic Invertebrate Animals) (Exclusion) Regulations, 2001 [SI 372/2001], which excludes them from the provisions of the Wildlife (Amendment) Act, 2000.

## Invertebrates

## Bees

| **Species name** | **Common name** | Red status(Fitzpatrick *et al.*, 2006) |
| --- | --- | --- |
| *Andrena angustior*  |  | VU |
| Andrena apicata  |  | dd |
| *Andrena barbilabris*  |  | NT |
| *Andrena coitana*  |  | VU |
| *Andrena denticulata*  |  | VU |
| *Andrena fucata*  |  | NT |
| *Andrena fulva*  | Tawny mining bee | RE |
| *Andrena fuscipes*  |  | VU |
| *Andrena helvola*  |  | dd |
| *Andrena humilis*  |  | CR |
| *Andrena marginata*  |  | CR |
| *Andrena nigroaenea*  |  | VU |
| *Andrena ovatula*  |  | dd |
| *Andrena pilipes*  |  | dd |
| *Andrena praecox*  |  | VU |
| *Andrena rosae*  |  | RE |
| *Andrena semilaevis*  |  | VU |
| *Andrena stragulata*  |  | dd |
| *Andrena trimmerana*  |  | CR |
| *Andrena wilkella*  |  | dd |
| *Bombus (P.) barbutellus*  |  | EN |
| *Bombus (P.) bohemicus*  |  | NT |
| *Bombus (P.) campestris*  |  | VU |
| *Bombus (P.) rupestris*  |  | EN |
| *Bombus cryptarum*  |  | dd |
| *Bombus distinguendus*  | Great yellow bumblebee | EN |
| *Bombus lapidarius*  | Red-tailed bumblebee | NT |
| *Bombus magnus*  |  | dd |
| *Bombus muscorum*  |  | NT |
| *Bombus ruderarius*  | Red-shanked carder bumblebee | VU |
| *Bombus sylvarum*  | Shrill carder bumblebee | EN |
| *Coelioxys elongata*  |  | EN |
| *Coelioxys inermis*  |  | dd |
| *Colletes daviesanus*  |  | dd |
| *Colletes floralis*  |  | VU |
| *Colletes fodiens*  |  | dd |
| *Colletes similis*  |  | NT |
| *Halictus tumulorum*  |  | NT |
| *Hylaeus brevicornis*  |  | EN |
| *Hylaeus hyalinatus*  |  | VU |
| *Lasioglossum lativentre*  |  | CR |
| *Lasioglossum nitidiusculum*  |  | VU |
| *Lasioglossum rufitarse*  |  | VU |
| *Lasioglossum smeathmanellum*  |  | dd |
| *Megachile centuncularis*  |  | NT |
| *Megachile circumcincta*  |  | dd |
| *Megachile ligniseca*  |  | dd |
| *Megachile maritima*  |  | NT |
| *Megachile willughbiella*  |  | NT |
| *Nomada argentata*  |  | CR |
| *Nomada goodeniana*  |  | EN |
| *Nomada obtusifrons*  |  | EN |
| *Nomada panzeri*  |  | NT |
| *Nomada sheppardana*  |  | RE |
| *Nomada striata*  |  | EN |
| *Osmia aurulenta*  |  | NT |
| *Sphecodes crassus*  |  | dd |
| *Sphecodes ferruginatus*  |  | EN |
| *Sphecodes gibbus*  |  | CR |
| *Sphecodes hyalinatus*  |  | VU |
| *Sphecodes pellucidus*  |  | dd |

## Butterflies

| **Species name** | **Common name** | **Red Status****(Regan *et al.*, 2010)** |
| --- | --- | --- |
| *Erebia epiphron* | Mountain Ringlet  | RE |
| *Boloria euphrosyne*  | Pearl-bordered Fritillary | EN |
| *Cupido minimus*  | Small Blue | EN |
| *Lasiommata megera*  | Wall | EN |
| *Argynnis aglaja*  | Dark Green Fritillary | VU |
| *Coenonympha tullia*  | Large Heath | VU |
| *Euphydryas aurinia*  | Marsh Fritillary | VU |
| *Erynnis tages*  | Dingy Skipper | NT |
| *Pyronia tithonus*  | Gatekeeper | NT |
| *Hipparchia semele* | Grayling | NT |
| *Coenonympha pamphilus* | Small Heath | NT |
| *Leptidea sinapis*  | Wood White | NT |

## Damselflies & Dragonflies (Odonates)

| **Species name** | **Common name** | **Red Status****(Nelson *et al.*, 2011)** |
| --- | --- | --- |
| *Somatochlora arctica*  | Northern Emerald | EN |
| *Cordulia aenea*  | Downy Emerald | EN |
| *Coenagrion lunulatum*  | Crescent Bluet | VU |
| *Ischnura pumilio*  | Small Bluetail | VU |
| *Lestes dryas*  | Robust Spreadwing | NT |

## Mayflies (Ephemeroptera)

|  |  |  |
| --- | --- | --- |
| **Species** | **Common name** | **Red Status****(Kelly-Quinn & Regan, 2012)** |
| *Siphlonurus armatus* | Scarce Summer | CR |
| *Baetis atrebatinus* | Dark Olive | EN |
| *Ephemerella notata* | Yellow Hawk | EN |
| *Rhithrogena germanica* | March Brown | VU |
| *Procloeon bifidum* | Pale Evening Dun | VU |
| *Leptophlebia marginata* | Sepia Dun | VU |
| *Kageronia fuscogrisea* | Brown May Dun | NT |
| *Ameletus inopinatus* | Upland Summer Mayfly | NT |

## Non-Marine Mollusca

| **Species** | **EU HD** | **WA** | **Red Status** **(Byrne *et al.*, 2009)** |
| --- | --- | --- | --- |
| *Acanthinula aculeata* (Müller) |  |  |  |  | NT |
| *Acicula fusca* (Montagu) |  |  |  |  | VU |
| *Anisus spirorbis* (Linnaeus)  |  |  |  |  | dd |
| *Anisus vortex* (Linnaeus) |  |  |  |  | VU |
| *Anodonta anatina* (Linnaeus) |  |  |  |  | VU |
| *Anodonta cygnea* (Linnaeus) |  |  |  |  | VU |
| *Aplexa hypnorum* (Linnaeus) |  |  |  |  | VU |
| *Arianta arbustorum* (Linnaeus) |  |  |  |  | VU |
| *Arion fuscus* (Müller) |  |  |  |  | dd |
| *Arion occultus* Anderson |  |  |  |  | dd |
| *Geomalacus maculosus*  | II | IV |  | X | lc |
| *Ashfordia granulata* (Alder) |  |  |  |  | NT |
| *Balea perversa* (Linnaeus) |  |  |  |  | VU |
| *Candidula gigaxii* (L. Pfeiffer) |  |  |  |  | dd |
| *Cecilioides acicula* (Müller) |  |  |  |  | VU |
| *Cochlodina laminata* (Montagu) |  |  |  |  | VU |
| *Deroceras agreste* (Linnaeus) |  |  |  |  | dd |
| *Gyraulus laevis* (Alder) |  |  |  |  | EN |
| *Helicella itala* (Linnaeus) |  |  |  |  | VU |
| *Helicigona lapicida* (Linnaeus) |  |  |  |  | RE |
| *Hydrobia acuta* (Draparnaud) |  |  |  |  | EN |
| *Leiostyla anglica* (Férussac) |  |  |  |  | VU |
| *Limax cinereoniger* Wolf |  |  |  |  | VU |
| *Margaritifera margaritifera margaritifera* (Linnaeus) | II |  | V | X | CR |
| *Margaritifera margaritifera durrovensis* Phillips | II |  | V | X | CR |
| *Mercuria* cf. *similis* (Draparnaud) |  |  |  |  | EN |
| *Merdigera obscura* (Müller) |  |  |  |  | EN |
| *Musculium lacustre* (Müller) |  |  |  |  | VU |
| *Myosotella denticulata* (Montagu) |  |  |  |  | dd |
| *Myxas glutinosa* (Müller) |  |  |  |  | EN |
| *Omphiscola glabra* (Müller) |  |  |  |  | RE |
| *Oxyloma sarsi* (Esmark) |  |  |  |  | dd |
| *Pisidium conventus* Clessin |  |  |  |  | CR |
| *Pisidium hibernicum* Westerlund |  |  |  |  | NT |
| *Pisidium lilljeborgii* Clessin |  |  |  |  | VU |
| *Pisidium moitessierianum* Paladilhe |  |  |  |  | EN |
| *Pisidium pseudosphaerium* Schlesch |  |  |  |  | EN |
| *Pisidium pulchellum* Jenyns |  |  |  |  | EN |
| *Pomatias elegans* (Müller) |  |  |  |  | CR |
| *Pupilla muscorum* (Linnaeus) |  |  |  |  | EN |
| *Quickella arenaria* (Potiez & Michaud) |  |  |  |  | EN |
| *Radix auricularia* (Linnaeus) |  |  |  |  | VU |
| *Spermodea lamellata* (Jeffreys) |  |  |  |  | EN |
| *Sphaerium nucleus* (Studer) |  |  |  |  | VU |
| *Succinella oblonga* Draparnaud |  |  |  |  | EN |
| *Tandonia rustica* (Millet) |  |  |  |  | VU |
| *Testacella haliotidea* Draparnaud |  |  |  |  | VU |
| *Testacella maugei* Férussac |  |  |  |  | NT |
| *Truncatella subcylindrica* (Linnaeus) |  |  |  |  | CR |
| *Vallonia pulchella* (Müller) |  |  |  |  | VU |
| *Ventrosia ventrosa* (Montagu) |  |  |  |  | VU |
| *Vertigo angustior* Jeffreys | II |  | V | X | VU |
| *Vertigo antivertigo* (Draparnaud) |  |  |  |  | VU |
| *Vertigo geyeri* Lindholm | II |  | V | X | VU |
| *Vertigo lilljeborgi* (Westerlund) |  |  |  |  | VU |
| *Vertigo moulinsiana* (Dupuy) | II |  | V | X | EN |
| *Vertigo pusilla* Müller, 1774 |  |  |  |  | EN |
| *Vertigo pygmaea* (Draparnaud) |  |  |  |  | NT |
| *Vertigo substriata* (Jeffreys) |  |  |  |  | NT |
| *Zenobiella subrufescens* (Miller) |  |  |  |  | VU |
| *Zonitoides excavatus* (Alder) |  |  |  |  | VU |

## Water beetles

| **Species name** | **Red Status****(Foster *et al.*, 2009)** |
| --- | --- |
| *Agabus arcticus* (Paykull) | NT |
| *Agabus congener* (Thunberg) | VU |
| *Agabus conspersus* (Marsham) | EN |
| *Agabus labiatus* (Brahm) | NT |
| *Agabus melanarius* Aubé | dd |
| *Augyles maritimus* (Guérin-Méneville) | dd |
| *Bagous alismatis* (Marsham) | CR |
| *Bagous brevis* Gyllenhal | CR |
| *Bagous collignensis* (Herbst) | dd |
| *Bagous frit* (Herbst) | VU |
| *Bagous glabrirostris* (Herbst) | RE |
| *Bagous limosus* (Gyllenhal) | CR |
| *Bagous lutosus* (Gyllenhal) | dd |
| *Bagous lutulentus* (Gyllenhal) | CR |
| *Berosus luridus* (L.) | CR |
| *Berosus signaticollis* (Charpentier) | EN |
| *Bidessus minutissimus* (Germar) | RE |
| *Chaetarthria seminulum* (Herbst) | dd |
| *Cyphon kongsbergensis* Munster | VU |
| *Cyphon palustris* Thomson | dd |
| *Cyphon punctipennis* Sharp | VU |
| *Donacia aquatica* (L.) | VU |
| *Donacia cinerea* Herbst | VU |
| *Donacia dentata* Hoppe  | dd |
| *Donacia marginata* Hoppe | NT |
| *Donacia semicuprea* Panzer | RE |
| *Donacia sparganii* Ahrens | dd |
| *Dryops similaris* Bollow | NT |
| *Dytiscus circumcinctus* Ahrens | NT |
| *Dytiscus lapponicus* Gyllenhal | NT |
| *Elodes elongata* Tournier | dd |
| *Elodes minuta* (L.) | dd |
| *Elodes pseudominuta* Klausnitzer | dd |
| *Enicocerus exsculptus* (Germar) | EN |
| *Enochrus halophilus* (Bedel) | VU |
| *Enochrus melanocephalus* (Olivier) | NT |
| *Georissus crenulatus* (Rossi) | dd |
| *Graptodytes bilineatus* (Sturm) | NT |
| *Gyrinus distinctus* Aubé  | NT |
| *Gyrinus natator* (L.)  | NT |
| *Gyrinus urinator* Illiger | NT |
| *Haliplus apicalis* Thomson | EN |
| *Haliplus lineolatus* Mannerheim | NT |
| *Haliplus variegatus* Sturm | VU |
| *Helophorus alternans* Gené  | RE |
| *Helophorus arvernicus* Mulsant | EN |
| *Helophorus fulgidicollis* Motschulsky | VU |
| *Helophorus granularis* (L.) | EN |
| *Helophorus nanus* Sturm | VU |
| *Helophorus strigifrons* Thomson | VU |
| *Heterocerus fenestratus* (Thunberg) | dd |
| *Heterocerus flexuosus* Stephens | dd |
| *Heterocerus fossor* Kiesenwetter | dd |
| *Heterocerus marginatus* (Fab.) | dd |
| *Hydraena minutissima* Stephens | CR |
| *Hydraena nigrita* Germar | VU |
| *Hydraena pulchella* Germar | RE |
| *Hydraena pygmaea* Waterhouse | RE |
| *Hydraena rufipes* Curtis | EN |
| *Hydraena testacea* Curtis | VU |
| *Hydrochus angustatus* Germar | RE |
| *Hydrochus brevis* (Herbst) | VU |
| *Hydrochus ignicollis* Motschulsky | NT |
| *Hydrocyphon deflexicollis* (Müller) | EN |
| *Hydroporus glabriusculus* Aubé | EN |
| *Hydroporus longicornis* Sharp | EN |
| *Hydroporus morio* Aubé | VU |
| *Hydroporus neglectus* Schaum | dd |
| *Hydroporus obsoletus* Aubé | NT |
| *Hydroporus scalesianus* Stephens | NT |
| *Hydrovatus clypealis* Sharp | dd |
| *Hygrotus decoratus* (Gyllenhal)  | CR |
| *Hygrotus novemlineatus* (Stephens) | VU |
| *Hygrotus parallellogrammus* (Ahrens) | dd |
| *Hygrotus versicolor* (Schaller) | VU |
| *Ilybius chalconatus* (Panzer) | VU |
| *Ilybius subaeneus* Erichson | VU |
| *Laccobius atratus* (Rottenberg) | NT |
| *Laccophilus hyalinus* (De Geer) | VU |
| *Laccornis oblongus* (Stephens) | NT |
| *Limnebius nitidus* (Marsham) | EN |
| *Macroplea appendiculata* (Panzer) | NT |
| *Nebrioporus depressus elegans* (Panzer) | dd |
| *Ochthebius auriculatus* Rey | NT |
| *Ochthebius bicolon* Germar | VU |
| *Ochthebius marinus* (Paykull) | NT |
| *Ochthebius nilssoni* Hebauer | VU |
| *Ochthebius poweri* Rye | dd |
| *Ochthebius viridis fallaciosus* Ganglbauer | NT |
| *Oreodytes davisii* (Curtis) | NT |
| *Paracymus scutellaris* (Rosenhauer) | NT |
| *Platambus maculatus* (L.) | dd |
| *Plateumaris bracata* (Scopoli) | CR |
| *Plateumaris rustica* (Kunze) | RE |
| *Prionocyphon serricornis* (Müller) | dd |
| *Stictotarsus multilineatus* (Falkenström) | NT |

## Other Invertebrates

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species |  | **EU HD** | **WA** | **OSPAR** |
| Euphydryas aurinia  | Marsh fritillary | II |  |  |  |  |
| *Austropotamobius pallipes*  | White-clawed crayfish | II |  | V | X |  |
| *Nucella lapillus* | Dog whelk |  |  |  |  | X |

The White-clawed crayfish, Kerry slug and Freshwater pearl mussel were added to the Wildlife Act, 1976 by regulations made in SI 112/1990.

**Birds**

| **Species** |  | **EU BD** | **Bird Red** | **Bird Amb.** | **OSPAR** | **AEWA** |
| --- | --- | --- | --- | --- | --- | --- |
| *Accipiter gentilis* | Goshawk |  |  |  |  |  |  |  | X |  |  |
| *Aquila chrysaetos* | Golden Eagle | I |  |  |  |  |  | X |  |  |  |
| *Falco tinnunculus* | Kestrel |  |  |  |  |  |  |  | X |  |  |
| *Circus cyaneus* | Hen Harrier | I |  |  |  |  |  |  | X |  |  |
| *Milvus milvus* | Red Kite |  |  |  |  |  |  |  | X |  |  |
| *Alauda arvensis* | Skylark |  | II(II) |  |  |  |  |  | X |  |  |
| *Alcedo atthis*  | Kingfisher | I |  |  |  |  |  |  | X |  |  |
| *Alca torda* | Razorbill |  |  |  |  |  |  |  | X |  | X |
| *Cepphus grylle* | Black Guillemot |  |  |  |  |  |  |  | X |  | X |
| *Fratercula arctica* | Puffin |  |  |  |  |  |  |  | X |  | X |
| *Uria aalge* | Guillemot |  |  |  |  |  |  |  | X |  | X |
| *Anas acuta* | Pintail |  | II(I) |  |  | III(II) |  | X |  |  | X |
| *Anas clypeata* | Shoveler |  | II(I) |  |  |  | III(III) | X |  |  | X |
| *Anas crecca* | Teal |  | II(I) |  |  | III(II) |  |  | X |  | X |
| *Anas penelope* | Wigeon |  | II(I) |  |  | III(II) |  |  | X |  | X |
| *Anas platyrhynchos* | Mallard |  | II(I) |  | III(I) |  |  |  |  |  | X |
| *Anas querquedula* | Garganey |  | II(I) |  |  |  |  |  | X |  | X |
| *Anas strepera* | Gadwall |  | II(I) |  |  |  |  |  | X |  | X |
| *Anser albifrons flavirostris* | White-fronted Goose | I |  | II(II) |  |  | III(III) |  | X |  | X |
| *Anser anser* | Greylag Goose |  | II(I) |  |  | III(II) |  |  | X |  | X |
| *Anser brachrhynchus* | Pink-footed Goose |  |  | II(II) |  |  |  |  |  |  | X |
| *Aythya ferina* | Pochard |  | II(I) |  |  | III(II) |  |  | X |  | X |
| *Aythya fuligula* | Tufted Duck |  | II(I) |  |  | III(II) |  |  | X |  | X |
| *Aythya marila* | Scaup |  |  | II(II) |  |  | III(III) |  | X |  | X |
| *Branta bernicla* | Brent Goose |  |  |  |  |  |  |  | X |  | X |
| *Branta canadensis* | Canada Goose |  | II(I) |  |  |  |  |  |  |  |  |
| *Branta leucopsis*  | Barnacle Goose |  |  |  |  |  |  |  | X |  | X |
| *Bucephala clangula*  | Goldeneye |  |  | II(II) |  |  |  |  | X |  | X |
| *Clangula hyemalis* | Long-tailed Duck |  |  | II(II) |  |  |  |  |  |  | X |
| *Cygnus columbianus bewickii*  | Bewick's Swan | I |  |  |  |  |  | X |  |  | X |
| *Cygnus cygnus*  | Whooper Swan | I |  |  |  |  |  |  | X |  | X |
| *Cygnus olor* | Mute Swan |  |  |  |  |  |  |  | X |  | X |
| *Melanitta nigra* | Common Scoter |  |  | II(II) |  |  | III(III) | X |  |  | X |
| *Melanitta fusca* | Velvet Scoter |  |  | II(II) |  |  |  |  |  |  | X |
| *Mergellus albelltus* | Smew |  |  |  |  |  |  |  |  |  | X |
| *Mergus merganser* | Goosander |  |  | II(II) |  |  |  |  | X |  | X |
| *Mergus serrator* | Red-breasted Merganser |  |  | II(II) |  |  |  |  |  |  | X |
| *Somateria mollissima* | Eider |  |  | II(II) |  | III(II) |  |  | X |  | X |
| *Tadorna tadorna*  | Shelduck |  |  |  |  |  |  |  | X |  | X |
| *Egretta garzetta*  | Little Egret | I |  |  |  |  |  |  |  |  | X |
| *Ardea cinerea* | Grey Heron |  |  |  |  |  |  |  |  |  | X |
| *Caprimulgus europaeus* | Nightjar | I |  |  |  |  |  | X |  |  |  |
| *Charadrius alexandrinus*  | Kentish Plover | I |  |  |  |  |  |  |  |  | X |
| *Charadrius hiaticula* | Ringed Plover |  |  |  |  |  |  |  | X |  | X |
| *Charadrius dubius* | Littled Ringed Plover |  |  |  |  |  |  |  |  |  | X |
| *Pluvialis apricaria* | Golden Plover | I |  | II(II) |  |  | III(III) | X |  |  | X |
| *Pluvialis squatarola* | Grey Plover |  |  |  |  |  |  |  | X |  | X |
| *Haematopus ostralegus* | Oystercatcher |  |  |  |  |  |  |  | X |  | X |
| *Vanellus vanellus* | Lapwing |  |  | II(II) |  |  |  | X |  |  | X |
| *Streptopelia turtur* | Turtle Dove |  |  |  |  |  |  |  | X |  |  |
| *Columba livia* | Rock Dove |  | II(I) |  |  |  |  |  |  |  |  |
| *Columba oenas* | Stock Dove |  |  |  |  |  |  |  | X |  |  |
| *Columba palumbus* | Woodpigeon |  | II(I) |  | III(I) |  |  |  |  |  |  |
| *Pyrrhocorax pyrrhocorax*  | Chough | I |  |  |  |  |  |  | X |  |  |
| *Sturnus vulgaris* | Starling |  |  |  |  |  |  |  | X |  |  |
| *Emberiza citrinella*  | Yellowhammer |  |  |  |  |  |  | X |  |  |  |
| *Falco columbarius* | Merlin | I |  |  |  |  |  |  | X |  |  |
| *Falco peregrinus* | Peregrine | I |  |  |  |  |  |  |  |  |  |
| *Falco vespertinus* | Red-footed Falcon | I |  |  |  |  |  |  |  |  |  |
| *Carduelis flavirostris*  | Twite |  |  |  |  |  |  | X |  |  |  |
| *Carduelis cannabina* | Linnet |  |  |  |  |  |  |  | X |  |  |
| *Gavia arctica* | Black-throated Diver | I |  |  |  |  |  |  |  |  | X |
| *Gavia immer* | Great Northern Diver | I |  |  |  |  |  |  |  |  | X |
| *Gavia stellata* | Red-throated Diver | I |  |  |  |  |  |  | X |  | X |
| *Apus apus* | Swift |  |  |  |  |  |  |  | X |  |  |
| *Hirundo rustica* | Swallow |  |  |  |  |  |  |  | X |  |  |
| *Riparia riparia* | Sand Martin |  |  |  |  |  |  |  | X |  |  |
| *Delichon urbica* | House Martin |  |  |  |  |  |  |  | X |  |  |
| *Hydrobates pelagicus* | Storm Petrel | I |  |  |  |  |  |  | X |  |  |
| *Oceanodroma leucorhoa* | Leach's Petrel | I |  |  |  |  |  |  | X |  |  |
| *Catharacta skua* | Great Skua |  |  |  |  |  |  |  | X |  | X |
| *Larus canus* | Common Gull |  |  |  |  |  |  |  | X |  | X |
| *Larus melanocephalus*  | Mediterranean Gull | I |  |  |  |  |  |  | X |  | X |
| *Larus minutus*  | Little Gull | I |  |  |  |  |  |  |  |  | X |
| *Larus ridibundus* | Black-headed Gull |  |  |  |  |  |  | X |  |  | X |
| *Larus argentatus* | Herring Gull |  |  |  |  |  |  | X |  |  | X |
| *Larus marinus* | Great black-backed Gull |  |  |  |  |  |  |  | X |  | X |
| *Larus fuscus* | Lesser black-backed Gull |  |  |  |  |  |  |  | X |  | X |
| *Rissa tridactyla* | Kittiwake |  |  |  |  |  |  |  | X | III,V | X |
| *Motacilla flava* | Yellow Wagtail |  |  |  |  |  |  |  | X |  |  |
| *Ficedula hypoleuca* | Pied Flycatcher |  |  |  |  |  |  |  | X |  |  |
| *Muscicapa striata* | Spotted Flycatcher |  |  |  |  |  |  |  | X |  |  |
| *Passer montanus* | Tree Sparrow |  |  |  |  |  |  |  | X |  |  |
| *Passer domesticus* | House Sparrow |  |  |  |  |  |  |  | X |  |  |
| *Phalacrocorax carbo* | Cormorant |  |  |  |  |  |  |  | X |  | X |
| *Phalocrocorax aristotelis* | Shag |  |  |  |  |  |  |  | X |  |  |
| *Phalaropus lobatus* | Red-necked Phalarope | I |  |  |  |  |  | X |  |  | X |
| *Coturnix coturnix* | Quail |  |  |  |  |  |  | X |  |  |  |
| *Perdix perdix* | Grey Partridge |  | II(I) |  | III(I) |  |  | X |  |  |  |
| *Phasianus colchicus* | Pheasant |  | II(I) |  | III(I) |  |  |  |  |  |  |
| *Podiceps auritus* | Slavonian Grebe |  |  |  |  |  |  |  |  |  | X |
| *Podiceps cristatus* | Great-crested Grebe |  |  |  |  |  |  |  | X |  | X |
| *Podiceps nigricollis*  | Black-necked Grebe |  |  |  |  |  |  | X |  |  | X |
| *Tachybaptus ruficollis* | Little Grebe |  |  |  |  |  |  |  | X |  | X |
| *Procellaria diomedea*  | Cory's Shearwater | I |  |  |  |  |  |  | X |  |  |
| *Puffinus griseus* | Sooty Shearwater |  |  |  |  |  |  | X |  |  |  |
| *Puffinus puffinus*  | Manx Shearwater |  |  |  |  |  |  |  | X |  |  |
| *Puffinus mauretanicus*  | Balearic Shearwater |  |  |  |  |  |  | X |  | III,V |  |
| *Puffinus assimilis baroli* | Little Shearwater |  |  |  |  |  |  |  |  | V |  |
| *Crex crex*  | Corncrake | I |  |  |  |  |  | X |  |  | X |
| *Fulica atra* | Coot |  | II(I) |  |  | III(II) |  |  | X |  | X |
| *Porzana porzana*  | Spotted Crake |  |  |  |  |  |  |  | X |  | X |
| *Rallus aquaticus* | Water Rail |  |  |  |  |  |  |  | X |  | X |
| *Gallinula chloropus* | Moorhen |  |  |  |  |  |  |  |  |  | X |
| *Calidris alpina schinzii* | Dunlin | I |  |  |  |  |  |  | X |  |  |
| *Calidris canutus* | Knot |  |  |  |  |  |  | X |  |  | X |
| *Calidris alba* | Sanderling |  |  |  |  |  |  |  |  |  | X |
| *Gallinago gallinago* | Snipe |  | II(I) |  |  |  | III(III) |  | X |  | X |
| *Limosa lapponica* | Bar-tailed Godwit | I |  |  |  |  |  |  | X |  | X |
| *Limosa limosa* | Black-tailed Godwit |  |  |  |  |  |  |  | X |  | X |
| *Lymnocryptes minimus* | Jack-Snipe |  | II(I) |  |  |  | III(III) |  |  |  |  |
| *Numenius arquata* | Curlew |  |  | II(II) |  |  |  | X |  |  | X |
| *Philomachus pugnax* | Ruff | I |  |  |  |  |  |  |  |  | X |
| *Scolopax rusticola* | Woodcock |  | II(I) |  |  |  | III(III) |  | X |  | X |
| *Tringa glareola*  | Wood Sandpiper | I |  |  |  |  |  |  |  |  | X |
| *Tringa hypoleucos*  | Common Sandpiper |  |  |  |  |  |  |  | X |  | X |
| *Tringa nebularia* | Greenshank |  |  |  |  |  |  |  | X |  | X |
| *Tringa totanus* | Redshank |  |  |  |  |  |  | X |  |  | X |
| *Tringa erythropus* | Spotted Redshank |  |  |  |  |  |  |  |  |  | X |
| *Arenaria interpres* | Ruddy Turnstone |  |  |  |  |  |  |  |  |  | X |
| *Chlidonias niger*  | Black Tern | I |  |  |  |  |  |  |  |  | X |
| *Sterna albifrons*  | Little Tern | I |  |  |  |  |  |  | X |  | X |
| *Sterna dougallii*  | Roseate Tern | I |  |  |  |  |  |  | X | III,V | X |
| *Sterna hirundo*  | Common Tern | I |  |  |  |  |  |  | X |  | X |
| *Sterna paradisaea*  | Arctic Tern | I |  |  |  |  |  |  | X |  | X |
| *Sterna sandvicensis*  | Sandwich Tern | I |  |  |  |  |  |  | X |  | X |
| *Asio flammeus* | Short-eared Owl | I |  |  |  |  |  |  | X |  |  |
| *Nyctea scandiaca* | Snowy Owl | I |  |  |  |  |  |  | X |  |  |
| *Morus bassanus* | Gannet |  |  |  |  |  |  |  | X |  | X |
| *Acrocephalus scirpaceus* | Reed Warbler |  |  |  |  |  |  |  | X |  |  |
| *Locustella naevia* | Grasshopper Warbler |  |  |  |  |  |  |  | X |  |  |
| *Phylloscopus sibilatrix* | Wood Warbler |  |  |  |  |  |  |  | X |  |  |
| *Sylvia curruca* | Lesser Whitethroat |  |  |  |  |  |  |  | X |  |  |
| *Lagopus lagopus* | Red Grouse |  | II(I) |  | III(I) |  |  | X |  |  |  |
| *Tetrao urogallus cantabricus* | Capercaillie |  |  |  |  | III(II) |  |  |  |  |  |
| *Oenanthe pleschanka*  | Pied Wheatear | I |  |  |  |  |  |  |  |  |  |
| *Oenanthe oenanthe* | Wheatear |  |  |  |  |  |  |  | X |  |  |
| *Phoenicurus phoenicurus*  | Redstart |  |  |  |  |  |  |  | X |  |  |
| *Saxicola rubetra*  | Whinchat |  |  |  |  |  |  |  | X |  |  |
| *Turdus torquatus*  | Ring Ouzel |  |  |  |  |  |  | X |  |  |  |
| *Tyto alba* | Barn Owl |  |  |  |  |  |  | X |  |  |  |

ALL of the birds listed on the Official Irish List (see [http://www.irbc.ie/topbar/IrishList/IRBC\_IrishList(31122010).pdf)](http://www.irbc.ie/topbar/IrishList/IRBC_IrishList%2831122010%29.pdf%29) are are protected under both the EU Birds Directive [2009/147/EC] and the Wildlife Act, 1976 (including amendments made in SI 283/1980 and SI 397/1985). If a bird that is not on the list turns up in the wild in Ireland then it is also afforded protection under the same national and european legislation.