

Red Data List of Threatened British Fungi

S. Evans, A. Henrici, B. Ing (2006)

Introduction by Shelley Evans

The Red List for Threatened British Fungi is prepared by the British Mycological Society (BMS), working with the Joint Nature Conservation Committee. Although work is required before it becomes an official Red Data List (RDL), this preliminary assessment with explanatory notes is now available and replaces Ing's 1992 provisional RDL.

Over 800 taxa have been evaluated as part of the assessment, using the 1992 provisional RDL as a baseline but also including a wide range of additional rarely recorded species. The new RDL for Fungi includes nearly 400 species in threat categories, is arranged alphabetically within fungus groups and includes a note of former listing in the 1992 provisional RDL.

Methodology Summary:

This list assesses:

- Species recorded in Great Britain, ie England, Scotland, Wales, and the Isle of Man.
- All groups of fungi including microfungi, such as plant pathogens.
- Fungi associated with native, naturalised or commonly cultivated plants.

This list excludes:

- Species recorded in Northern Ireland, the Republic of Ireland and the Channel Islands.
- Lichenised fungi and *Myxomycetes*, as these are covered by separate lists.
- Species which are taxonomically dubious or for which distribution data are considered too poor, eg hypogeous fungi (truffles and truffle-like species) and many microfungi (hyphomycetes, coelomycetes) as well as the *Chytridiomycota*, *Glomeromycota* and *Zygomycota*.
- Species recorded for the first time in Britain in the last 10 years.
- Fungi associated exclusively with non-native trees (such as larch and spruce), hothouse litter, woodchip mulch, or pathogens restricted to

garden ornamentals or greenhouse plants, unless these are extremely threatened in their natural range.

Species names:

Species names for *Basidiomycota* follow those used in the Kew 'Checklist of the British and Irish Basidiomycota' including the latest online updates www.BasidioChecklist.info. Ascomycetes follow the GBCHKLST maintained by FRDBI Database Manager (Dr Paul Kirk) with additional advice from Dr Brian Spooner at RBG, Kew.

Categories:

These follow current IUCN guidelines (2001) as closely as possible but with adaptations to take into account the fungal lifestyle and associated practicalities of fungal recording.

CATEGORY	Category/Criteria	Hectads (10km×10km) since 1960	Criteria required By IUCN
EXTINCT	Extinct	None	Date of last record
CRITICALLY ENDANGERED	Critically Endangered / B	1	Decline
ENDANGERED	Endangered / B	2 – 5	Decline
VULNERABLE	Vulnerable / B	6 – 10	Decline
	Vulnerable / D2	1 – 5	No decline
NEAR THREATENED	Near Threatened	6 – 10	No decline
		11 – 20	Host or habitat threatened

Assessment for the majority of species has been based on quantitative data held in the Fungal Records Database of Britain and Ireland (FRDBI) managed by the British Mycological Society, from herbaria and individuals. This quantitative assessment is based on the number of hectads (10km×10km) at which a species has been recorded before and after 1960 (see table above).

Extinct This category is defined as species for which no reliable record has been made since 1960. Species formerly listed as Extinct are only removed from this category where material has been deposited at a recognised national herbarium eg RBG Kew or Edinburgh.

Evidence of decline

Quantitative: For a species recorded in n hectads since 1960 there is considered to be evidence of decline if it was recorded in at least $2n+1$ hectads prior to 1960. Qualitative: For a species associated with a habitat or host whose quality is observed, inferred or projected to decline.

Direct evidence for decline in recorded hectads is not demonstrable for most species because of the large increase in recording which has taken place in recent decades, especially since the advent of the network of recording groups in the UK. To take this skew factor into account when assigning categories of threat more emphasis has been placed on the qualitative approach using inferred and projected decline. Some species are known to depend for survival on hosts or habitats already recognised as under threat either directly or through inappropriate management for fungi eg damage or removal of trees or host organism upon which they are reliant. Such species, including many ectomycorrhizal and parasitic fungi, have sometimes been assigned to a higher category of threat than could be justified from the number of hectads alone.

Near Threatened

A species which does not qualify for the highest categories of threat, Critically Endangered, Endangered or Vulnerable but remains close to qualifying or is likely to qualify in the near future based on quantitative data, expert opinion or inference about habitat quality.

Additional Species of Conservation Concern - Annex

An annex will list BAP or Schedule 8 species which no longer meet the new Red List criteria, together with some other species of conservation concern in Europe for which Britain is a stronghold with international responsibility, and whose conservation importance nevertheless needs highlighting.

To aid understanding and future reviews:

A list is being maintained of all the taxa which have been evaluated and excluded. These include: data deficient taxa for which more information will be needed before an assessment of risk can be made; species of least concern which have been evaluated but assessed as too abundant; aliens – species no longer considered British or restricted to the Channel Islands. This list will appear in the final official published RDL.

Notes are being maintained as background information for the assessment to chart the category assignment for all the species assessed, so that the process is as consistent as possible and to assist future review groups. These notes will

not be published as part of the final list although they are available to the RDL working group as well as to JNCC and future reviews.

Acknowledgements:

The RDL of Threatened British Fungi is compiled by Shelley Evans, Alick Henrici and Bruce Ing on behalf of the British Mycological Society with major contributions from Martyn Ainsworth, Paul Kirk, Peter Roberts, Brian Spooner and Malcolm Storey.

A wide range of individuals provided advice on species in their various interest groups and areas including: Ted Blackwell, Bert Brand, Paul Cannon, Ern Emmett, David Hawksworth, Alan Hills, Carol Hobart, Liz Holden, Geoffrey Kibby, Nick Legon, Patrick Leonard, Dave Minter, Adrian Newton, Alan Outen, Derek Schafer, Nigel Stringer and Roy Watling.

Fundamental thanks are however owed to all those who record fungi, especially those whose records have been contributed to the FRDBI. In particular, the entire network of independent fungal recording groups in Britain whose contributions to our knowledge about fungal distribution are so vital. The following groups have also been consulted: the Association of British Fungus Groups, BMS Council, Fungus Conservation Forum and Plantlife Link. Thanks for advice on Red List compilation go to Chris Cheffings and Nick Hodgetts.

Though in large part this RDL is the product of voluntary effort from a wide range of individuals, support from the BMS and Natural England (formerly English Nature) has been crucial. Particular thanks go to Jill Sutcliffe.

RDL of Threatened British Fungi (Version 1.0)

Current Name	New RDL assessment	92 RDL Listing
Agarics and Boleti		
<i>Amanita friabilis</i>	Endangered / B	Endangered
<i>Amanita lividopallescentis</i>	Near Threatened	Vulnerable
<i>Amanita nivalis</i>	Vulnerable / B	Vulnerable
<i>Amanita ovoidea</i>	Vulnerable / D2	Rare
<i>Amanita vittadinii</i>	Critically Endangered / B	Rare
<i>Armillaria ectypa</i>	Endangered / B	Vulnerable
<i>Arrhenia chlorocyanea</i>	Vulnerable / D2	Rare
<i>Boletus fechtneri</i>	Near Threatened	
<i>Boletus fragrans</i>	Near Threatened	
<i>Boletus immutatus</i>	Vulnerable / D2	
<i>Boletus luridiformis</i> var. <i>discolor</i>	Near Threatened	Vulnerable
<i>Boletus pseudoregius</i>	Near Threatened	
<i>Boletus pseudosulphureus</i>	Near Threatened	
<i>Boletus regius</i>	Critically Endangered / B	Endangered
<i>Boletus rhodopurpureus</i>	Endangered / B	Vulnerable
<i>Boletus satanas</i>	Annex	Rare
<i>Boletus torosus</i>	Vulnerable / D2	
<i>Buchwaldoboletus sphaerocephalus</i>	Vulnerable / D2	Endangered
<i>Calocybe chrysenteron</i>	Vulnerable / D2	Rare
<i>Calocybe onychina</i>	Critically Endangered / B	Vulnerable
<i>Camarophylloopsis hymenoccephala</i>	EN / B	Rare
<i>Camarophylloopsis micacea</i>	Vulnerable / B	Rare
<i>Campanella caesia</i>	Near Threatened	Rare
<i>Chrysomphalina chrysophylla</i>	Vulnerable / B	Vulnerable
<i>Clitocybe alexandri</i>	Critically Endangered / B	Endangered
<i>Collybia putilla</i>	Vulnerable / D2	Vulnerable
<i>Collybia racemosa</i>	Near Threatened	Rare
<i>Coprinopsis ammophilae</i>	Vulnerable / B	Rare
<i>Coprinopsis episcopalis</i>	Vulnerable / D2	Rare
<i>Coprinopsis scobicola</i>	Vulnerable / D2	
<i>Coprinopsis stangliana</i>	Vulnerable / D2	
<i>Coprinus alopecius</i>	Vulnerable / D2	
<i>Coprinus sterquilinus</i>	Vulnerable / B	
<i>Cortinarius aleuriosmus</i>	Endangered / B	Vulnerable
<i>Cortinarius camphoratus</i>	Near Threatened	Vulnerable
<i>Cortinarius cumatilis</i>	Extinct 1868	Vulnerable
<i>Cortinarius cyanites</i>	Vulnerable / B	Vulnerable
<i>Cortinarius humicola</i>	EN / B	
<i>Cortinarius laniger</i>	Vulnerable / D2	Vulnerable
<i>Cortinarius limonius</i>	Near Threatened	Vulnerable
<i>Cortinarius olearioides</i>	Vulnerable / B	Vulnerable
<i>Cortinarius orellanus</i>	Vulnerable / B	Vulnerable
<i>Cortinarius osmophorus</i>	Vulnerable / B	Vulnerable
<i>Cortinarius porphyropus</i>	Near Threatened	Vulnerable
<i>Cortinarius praestans</i>	Endangered / B	Vulnerable

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<i>Cortinarius rubicundulus</i>	Vulnerable / B	Vulnerable
<i>Cortinarius saginus</i>	Endangered / B	Vulnerable
<i>Cortinarius splendens</i>	Near Threatened	Vulnerable
<i>Cortinarius violaceus</i>	Near Threatened	Endangered
<i>Cortinarius vulpinus</i>	Vulnerable / D2	Vulnerable
<i>Cystoderma cinnabarinum</i>	Near Threatened	Rare
<i>Entoloma aethiops</i>	Vulnerable / D2	
<i>Entoloma bloxamii</i>	Annex	Endangered
<i>Entoloma catalaunicum</i>	Near Threatened	
<i>Entoloma dichroum</i>	Vulnerable / D2	Vulnerable
<i>Entoloma excentricum</i>	Vulnerable / D2	
<i>Entoloma indutoides</i>	Near Threatened	
<i>Entoloma tjallingiorum</i>	Vulnerable / D2	
<i>Flammulaster limulatus s.l.</i>	Near Threatened	Vulnerable
<i>Flammulaster muricatus</i>	Vulnerable / B	
<i>Gyrodon lividus</i>	Near Threatened	Vulnerable
<i>Haasiella venustissima</i>	Vulnerable / D2	
<i>Hohenbuehelia culmicola</i>	Vulnerable / B	Rare
<i>Hohenbuehelia mastrucata</i>	Endangered / B	Rare
<i>Hygrocybe calciphila</i>	Near Threatened	
<i>Hygrocybe calyptriformis</i>	Annex	Vulnerable
<i>Hygrocybe lilacina</i>	Near Threatened	
<i>Hygrocybe spadicea</i>	Near Threatened	Vulnerable
<i>Hygrocybe viola</i>	Vulnerable / D2	
<i>Hygrocybe xanthochroa</i>	Near Threatened	
<i>Hygrophorus arbustivus</i>	Near Threatened	Vulnerable
<i>Hygrophorus camarophyllus</i>	Vulnerable / D2	Vulnerable
<i>Hygrophorus erubescens</i>	Extinct 1877	Vulnerable
<i>Hygrophorus nemoreus</i>	Near Threatened	Vulnerable
<i>Hygrophorus penarius</i>	Vulnerable / D2	Vulnerable
<i>Hygrophorus pudorinus</i>	Endangered / B	Vulnerable
<i>Hygrophorus russula</i>	Extinct 1903	Vulnerable
<i>Inocybe arenicola</i>	Vulnerable / D2	Vulnerable
<i>Inocybe vulpinella</i>	Vulnerable / D2	Vulnerable
<i>Laccaria maritima</i>	Critically Endangered / B	
<i>Lactarius mairei</i>	Near Threatened	Vulnerable
<i>Lactarius musteus</i>	Near Threatened	Endangered
<i>Lactarius repraesentaneus</i>	Near Threatened	
<i>Lactarius resimus</i>	Vulnerable / D2	
<i>Lactarius salicis-reticulatae</i>	Vulnerable / D2	
<i>Lactarius scoticus</i>	Vulnerable / D2	Extinct
<i>Leucoagaricus barssii</i>	Near Threatened	
<i>Leucoagaricus sublittoralis</i>	Near Threatened	Rare
<i>Leucocortinarius bulbiger</i>	Near Threatened	Endangered
<i>Leucopaxillus gentianeus</i>	Vulnerable / D2	Endangered
<i>Limacella illinita</i>	Vulnerable / D2	Vulnerable
<i>Limacella ochraceolutea</i>	Vulnerable / D2	

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<i>Lyophyllum favrei</i>	Critically Endangered / B	Endangered
<i>Marasmius buxi</i>	Vulnerable / D2	Rare
<i>Marasmius scorodonius</i>	Near Threatened	Rare
<i>Melanoleuca schumacheri</i>	Near Threatened	Vulnerable
<i>Mycena latifolia</i>	Near Threatened	
<i>Mycena picta</i>	Vulnerable / D2	Extinct
<i>Mycena renati</i>	Vulnerable / D2	Rare
<i>Mycena septentrionalis</i>	Near Threatened	
<i>Mycena urania</i>	Endangered / B	Endangered
<i>Mycenella salicina</i>	Near Threatened	
<i>Omphalina galericolor</i>	Vulnerable / D2	
<i>Omphalotus illudens</i>	Near Threatened	Vulnerable
<i>Panellus ringens</i>	Extinct 1887	
<i>Pholiota astragalina</i>	Critically Endangered / B	Rare
<i>Pholiota subochracea</i>	Vulnerable / D2	Vulnerable
<i>Phylloporus pelletieri</i>	Annex	
<i>Porpoloma spinulosum</i>	Vulnerable / D2	Rare
<i>Psathyrella caput-medusae</i>	Vulnerable / D2	Rare
<i>Psathyrella maculata</i>	Vulnerable / D2	
<i>Rimbachia arachnoidea</i>	Near Threatened	
<i>Rimbachia bryophila</i>	Near Threatened	Vulnerable
<i>Russula aurantiaca</i>	Vulnerable / D2	Vulnerable
<i>Russula aurea</i>	Near Threatened	Vulnerable
<i>Russula badia</i>	Near Threatened	Vulnerable
<i>Russula intermedia</i>	Near Threatened	Vulnerable
<i>Russula lilacea</i>	Near Threatened	Vulnerable
<i>Russula melzeri</i>	Near Threatened	Rare
<i>Russula rutila</i>	Near Threatened	Vulnerable
<i>Russula vinosa</i>	Near Threatened	Vulnerable
<i>Russula viscida</i>	Near Threatened	Rare
<i>Squamanita contortipes</i>	Extinct 1957	Vulnerable
<i>Squamanita paradoxa</i>	Near Threatened	Vulnerable
<i>Squamanita pearsonii</i>	Vulnerable / D2	Vulnerable
<i>Stagnicola perplexa</i>	Vulnerable / D2	Vulnerable
<i>Stropharia halophila</i>	Vulnerable / D2	
<i>Stropharia hornemannii</i>	Critically Endangered / B	Rare
<i>Tephroclybe osmophora</i>	Critically Endangered / B	Endangered
<i>Tricholoma aestuans</i>	Vulnerable / D2	
<i>Tricholoma apium</i>	Endangered / B	Vulnerable
<i>Tricholoma aurantium</i>	Extinct 1957	Vulnerable
<i>Tricholoma colossus</i>	Endangered / B	Endangered
<i>Tricholoma focale</i>	Near Threatened	Endangered
<i>Tricholoma inamoenum</i>	Extinct 1878	Vulnerable
<i>Tricholoma nauseosum</i>	Critically Endangered / B	
<i>Tricholoma pessundatum</i>	Near Threatened	Vulnerable
<i>Tricholoma populinum</i>	Vulnerable / B	Vulnerable
<i>Tricholoma robustum</i>	Critically Endangered / B	Vulnerable
<i>Tricholoma stans</i>	Vulnerable / D2	Vulnerable

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<i>Tricholoma sulphurescens</i>	Vulnerable / D2	Vulnerable
<i>Volvariella reidii</i>	Vulnerable / D2	
<i>Xerula caussei</i>	Vulnerable / D2	Rare
Ascomycota (mainly cup fungi)		
<i>Cainiella johansonii</i>	Vulnerable / D2	
<i>Caloscypha fulgens</i>	Vulnerable / D2	Endangered
<i>Camarops polysperma</i>	Near Threatened	
<i>Chlorenchocelia versiformis</i>	Endangered / B	Rare
<i>Cordyceps clavulata</i>	Vulnerable / D2	
<i>Cordyceps sphecocephala</i>	Vulnerable / D2	
<i>Cordyceps tuberculata</i>	Vulnerable / D2	
<i>Cryptomyces maximus</i>	Vulnerable / D2	Vulnerable
<i>Cryptovalsa suaedicola</i>	Vulnerable / D2	
<i>Cudonia circinans</i>	Near Threatened	Rare
<i>Cudonia confusa</i>	Near Threatened	Rare
<i>Dencoeliopsis johnstonii</i>	Vulnerable / D2	
<i>Encoelia fimbriata</i>	Vulnerable / D2	Endangered
<i>Encoelia glauca</i>	Vulnerable / D2	Vulnerable
<i>Geoglossum atropurpureum</i>	Annex	Rare
<i>Geoglossum elongatum</i>	Endangered / B	Endangered
<i>Geoglossum peckianum</i>	Extinct 1910	Extinct
<i>Geoglossum starbaeckii</i>	Near Threatened	Vulnerable
<i>Gyromitra ambigua</i>	Extinct 1907	
<i>Gyromitra gigas</i>	Extinct 1916	Endangered
<i>Gyromitra leucoxantha</i>	Critically Endangered / B	
<i>Helvella leucopus</i>	Vulnerable / B	
<i>Hypocreopsis lichenoides</i>	Critically Endangered / B	Endangered
<i>Hypocreopsis rhododendri</i>	Near Threatened	Rare
<i>Jafneadelphus amethystinus</i>	Vulnerable / D2	Vulnerable
<i>Lachnum callimorphum</i>	Vulnerable / D2	
<i>Laetinaevia luzulae</i>	Extinct 1956	
<i>Lasiobotrys loniceriae</i>	Vulnerable / D2	
<i>Lophodermium hedericola</i>	Vulnerable / D2	
<i>Lophodermium neesii</i>	Vulnerable / D2	
<i>Microglossum olivaceum</i>	Annex	Vulnerable
<i>Microstoma protracta</i>	Extinct 1910	Extinct
<i>Mitrula sclerotipus</i>	Vulnerable / D2	Rare
<i>Onygena equina</i>	Near Threatened	
<i>Otidea apophysata</i>	Near Threatened	Rare
<i>Otidea cantharella</i>	Vulnerable / D2	Rare
<i>Otidea phlebophora</i>	Vulnerable / D2	Rare
<i>Pachyella violaceonigra</i>	Near Threatened	Rare
<i>Peziza gerardii</i>	Vulnerable / D2	
<i>Peziza vacini</i>	Vulnerable / D2	
<i>Pithya cupressina</i>	Vulnerable / D2	Vulnerable
<i>Pithya vulgaris</i>	Extinct 1888	
<i>Plicariella radula</i>	Extinct 1853	

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<i>Polystigma fulvum</i>	Extinct 1893	
<i>Polystigma rubrum</i>	Vulnerable / D2	
<i>Poronia erici</i>	Extinct 1933	
<i>Poronia punctata</i>	Near Threatened	Endangered
<i>Pseudoplectania nigrella</i>	Near Threatened	Rare
<i>Sarcosphaera coronaria</i>	Near Threatened	Vulnerable
<i>Spathularia flavida</i>	Near Threatened	Vulnerable
<i>Sphaerotheca volkartii</i>	Vulnerable / D2	Rare
<i>Stigmatula astragali</i>	Extinct	
<i>Tatraea dumbirensis</i>	Vulnerable / D2	
<i>Trichoglossum rasum</i>	Vulnerable / B	
<i>Trichoglossum tetrasporum</i>	Extinct 19 th century	
<i>Trichoglossum walteri</i>	Near Threatened	
<i>Xenotypa aterrima</i>	Vulnerable / D2	
<i>Xylaria bulbosa</i>	Extinct 1911	
<i>Xylaria digitata</i>	Extinct 1924	
<i>Xylaria guepinii</i>	Extinct 1875	
<i>Xylaria hippotrichoides</i>	Extinct 1875	
<i>Xylaria oxyacanthae</i>	Vulnerable / D2	
Non Agaricoid Hymenomycetes		
(incl. brackets, chanterelles & stipitates)		
<i>Aurantiporus alborubescens</i>	Vulnerable / B	Rare
<i>Bankera fuligineoalba</i>	Annex	Endangered
<i>Boletopsis leucomelaena</i>	Vulnerable / D2	Vulnerable
<i>Cantharellus ferruginascens</i>	Near Threatened	Vulnerable
<i>Cantharellus friesii</i>	Vulnerable / B	Vulnerable
<i>Cantharellus melanoxeros</i>	Vulnerable / D2	
<i>Clavaria greletii</i>	Endangered / B	Endangered
<i>Clavaria incarnata</i>	Near Threatened	
<i>Clavaria purpurea</i>	Endangered / B	Endangered
<i>Clavaria straminea</i>	Near Threatened	Vulnerable
<i>Clavariadelphus ligula</i>	Extinct 1953	
<i>Clavariadelphus truncatus</i>	Extinct 1924	Endangered
<i>Clavicornia pyxidata</i>	Extinct 1920	Rare
<i>Clavicornia taxophila</i>	Near Threatened	Vulnerable
<i>Clavulinopsis luteonana</i>	Vulnerable / D2	
<i>Cotylidia pannosa</i>	Endangered / B	Vulnerable
<i>Cotylidia undulata</i>	Vulnerable / D2	Vulnerable
<i>Cytidia salicina</i>	Endangered / B	
<i>Dacrymyces ovisporus</i>	Vulnerable / D2	
<i>Dacryobolus sudans</i>	Endangered / B	
<i>Dicellomyces scirpi</i>	Vulnerable / D2	
<i>Eocronartium muscicola</i>	Vulnerable / D2	Rare
<i>Erastia salmonicolor</i>	Endangered / B	Rare
<i>Flaviporus brownei</i>	Vulnerable / D2	
<i>Gloeohypochnicium analogum</i>	Vulnerable / D2	

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<i>Gloeophyllum odoratum</i>	Vulnerable / D2	Endangered
<i>Gloeophyllum trabeum</i>	Endangered / B	Rare
<i>Gloeoporus dichrous</i>	Near Threatened	
<i>Gomphus clavatus</i>	Extinct 1927	Endangered
<i>Hericium coralloides</i>	Near Threatened	Vulnerable
<i>Hericium erinaceus</i>	Annex	Vulnerable
<i>Hydnellum aurantiacum</i>	Vulnerable / B	Endangered
<i>Hydnellum caeruleum</i>	Near Threatened	Vulnerable
<i>Hydnellum conrescens</i>	Annex	Vulnerable
<i>Hydnellum ferrugineum</i>	Near Threatened	Endangered
<i>Hydnellum peckii</i>	Annex	Endangered
<i>Hydnellum scrobiculatum</i>	Annex	Endangered
<i>Hydnellum spongiosipes</i>	Annex	Rare
<i>Inonotus nodulosus</i>	Near Threatened	
<i>Irpicodon pendulus</i>	Extinct 1831	
<i>Lentinellus ursinus</i>	Near Threatened	Endangered
<i>Lentinellus vulpinus</i>	Near Threatened	
<i>Leptoporus mollis</i>	Extinct 1957	
<i>Multiclavula vernalis</i>	Endangered / B	Vulnerable
<i>Mycoacia nothofagi</i>	Near Threatened	
<i>Perenniporia medulla-panis</i>	Extinct 1854	
<i>Phellinus cavicola</i>	Endangered / B	
<i>Phellinus robustus</i>	Vulnerable / B	Rare
<i>Phellinus torulosus</i>	Near Threatened	Rare
<i>Phellodon confluens</i>	Annex	Endangered
<i>Phellodon melaleucus</i>	Annex	Vulnerable
<i>Phellodon niger</i>	Annex	Rare
<i>Phellodon tomentosus</i>	Annex	Endangered
<i>Phyllotopsis nidulans</i>	Near Threatened	
<i>Piptoporus quercinus</i>	Annex	Endangered
<i>Podoscypha multizonata</i>	Annex	
<i>Polyporus umbellatus</i>	Near Threatened	Rare
<i>Pterula caricis-pendulae</i>	Near Threatened	Rare
<i>Pterula debilis</i>	Extinct 1946	Rare
<i>Pycnoporus cinnabarinus</i>	Extinct 1913	Endangered
<i>Ramaria aurea</i>	Near Threatened	
<i>Ramaria botrytis s.l.</i>	Near Threatened	Vulnerable
<i>Ramaria broomei</i>	Endangered / B	Vulnerable
<i>Ramaria formosa</i>	Vulnerable / B	
<i>Ramariopsis crocea</i>	Vulnerable / B	Vulnerable
<i>Ramariopsis pulchella</i>	Near Threatened	Vulnerable
<i>Sarcodon glaucopus</i>	Vulnerable / B	
<i>Sarcodon regalis</i>	Extinct 1969	Extinct
<i>Sarcodon scabrosus</i>	Near Threatened	Endangered
<i>Sarcodon squamosus</i>	Annex	Vulnerable
<i>Sarcodontia crocea</i>	Vulnerable / B	
<i>Schizophyllum amplum</i>	Near Threatened	
<i>Spongipellis pachyodon</i>	Near Threatened	Rare

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<i>Stereopsis vitellina</i>	Vulnerable / D2	Endangered
<i>Trametes suaveolens</i>	Vulnerable / B	
<i>Tremella moriformis</i>	Endangered / B	
<i>Tremella steidleri</i>	Near Threatened	Rare
<i>Tremellodendropsis tuberosa</i>	Vulnerable / D2	
Gasteroid fungi		
<i>Battarrea phalloides</i>	Near Threatened	Endangered
<i>Bovista limosa</i>	Near Threatened	Vulnerable
<i>Bovista paludosa</i>	Endangered / B	Extinct
<i>Bovistella radicata</i>	Extinct 1952	Extinct
<i>Cyathus stercoreus</i>	Near Threatened	Vulnerable
<i>Geastrum berkeleyi</i>	Endangered / B	Extinct
<i>Geastrum campestre</i>	Endangered / B	Extinct
<i>Geastrum corollinum</i>	Endangered / B	Vulnerable
<i>Geastrum elegans</i>	Endangered / B	Vulnerable
<i>Geastrum lageniforme</i>	Near Threatened	Extinct
<i>Geastrum minimum</i>	Vulnerable / D2	Vulnerable
<i>Geastrum quadrifidum</i>	Near Threatened	Vulnerable
<i>Lycoperdon caudatum</i>	Vulnerable / D2	Endangered
<i>Lycoperdon decipiens</i>	Extinct 1923	Vulnerable
<i>Lycoperdon ericaeum</i>	Extinct 1883	Extinct
<i>Mycocalia duriaeana</i>	Extinct 1953	Extinct
<i>Mycocalia sphagnetii</i>	Vulnerable / D2	Vulnerable
<i>Myriostoma coliforme</i>	Critically Endangered / B	Extinct
<i>Tulostoma melanocyclum</i>	Endangered / B	Rare
<i>Tulostoma niveum</i>	Vulnerable / D2	Vulnerable
Urediniomycetes (rusts)		
<i>Bauhinus marginalis</i>	Extinct 1921	
<i>Bauhinus pustulatus</i>	Extinct 1924	
<i>Chrysomyxa empetri</i>	Near Threatened	Rare
<i>Chrysomyxa pirolata</i>	Endangered / B	Rare
<i>Haradaea duriaeana</i>	Extinct 1902	
<i>Hyalopsora adianti-capilli-veneris</i>	Vulnerable / D2	Vulnerable
<i>Hyalopsora aspidiotus</i>	Extinct 1845	Rare
<i>Melampsora vernalis</i>	Extinct 1925	Rare
<i>Milesina carpatorum</i>	Vulnerable / D2	Rare
<i>Milesina vogesiaca</i>	Vulnerable / D2	Rare
<i>Nyssopsora echinata</i>	Endangered / B	Rare
<i>Phragmidium acuminatum</i>	Extinct 1879	Rare
<i>Puccinia albulensis</i>	Extinct 1935	Rare
<i>Puccinia asparagi</i>	Extinct 1936	Rare
<i>Puccinia bulbocastani</i>	Extinct 1936	Vulnerable
<i>Puccinia cicutae</i>	Extinct 1956	Rare
<i>Puccinia cladii</i>	Extinct 1958	Rare
<i>Puccinia clintonii</i>	Critically Endangered / B	Rare
<i>Puccinia eriophori</i>	Vulnerable / B	Rare
<i>Puccinia eutremae</i>	Extinct 1957	Rare
<i>Puccinia hydrocotyles</i>	Critically Endangered / B	Rare
<i>Puccinia libanotidis</i>	Extinct 1946	Vulnerable

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<i>Puccinia longissima</i>	Extinct 1953	Rare
<i>Puccinia mariana</i>	Vulnerable / D2	
<i>Puccinia microsora</i>	Extinct 1959	Rare
<i>Puccinia molinae</i>	Vulnerable / B	Rare
<i>Puccinia nemoralis</i>	Vulnerable / D2	Vulnerable
<i>Puccinia oxyriae</i>	Extinct 1941	Rare
<i>Puccinia physospermi</i>	Critically Endangered / B	Vulnerable
<i>Puccinia polemonii</i>	Extinct 1958	Vulnerable
<i>Puccinia pratensis</i>	Extinct 1959	Rare
<i>Puccinia ribis</i>	Extinct 1947	Rare
<i>Puccinia rugulosa</i>	Vulnerable / D2	Vulnerable
<i>Puccinia scirpi</i>	Critically Endangered / B	Vulnerable
<i>Puccinia scorzonerae</i>	Critically Endangered / B	
<i>Puccinia septentrionalis</i>	Vulnerable / D2	
<i>Puccinia thesii</i>	Endangered / B	Vulnerable
<i>Puccinia thymi</i>	Vulnerable / D2	Rare
<i>Pucciniastrum goodyerae</i>	Vulnerable / D2	Rare
<i>Triphragmium filipendulae</i>	Vulnerable / D2	Rare
<i>Uredinopsis filicina</i>	Extinct 1936	Rare
<i>Uredo oncidii</i>	Extinct 1932	
<i>Uromyces colchici</i>	Extinct 18xx	
<i>Uromyces gageae</i>	Vulnerable / D2	Rare
<i>Uromyces gentianae</i>	Critically Endangered / B	Rare
<i>Uromyces scutellatus</i>	Vulnerable / D2	Rare
<i>Uromyces tuberculatus</i>	Extinct 1944	Rare
Ustilaginomycetes (mainly smuts)		
<i>Anthracoidea capillaris</i>	Extinct 1844	
<i>Doassansia limosellae</i>	Extinct 1929	
<i>Entyloma chrysosplenii</i>	Vulnerable / D2	Rare
<i>Entyloma eryngii</i>	Endangered / B	Rare
<i>Entyloma henningsianum</i>	Extinct 1907	Rare
<i>Entyloma ossifragi</i>	Extinct 1954	Rare
<i>Exobasidium expansum</i>	Vulnerable / D2	
<i>Exobasidium sydowianum</i>	Vulnerable / D2	Rare
<i>Jamesdicksonia irregularis</i>	Extinct 1959	
<i>Melanotaenium cingens</i>	Extinct 1931	Extinct
<i>Melanotaenium endogenum</i>	Vulnerable / D2	Rare
<i>Schizonella cocconii</i>	Extinct 1951	
<i>Schizonella melanogramma</i>	Extinct 1951	
<i>Tilletia anthoxanthi</i>	Extinct 1921	
<i>Tilletia caries</i>	Endangered / B	Endangered
<i>Tracya hydrocharidis</i>	Critically Endangered / B	
<i>Urocystis alopecuri</i>	Extinct 1946	
<i>Urocystis avenae-elatioris</i>	Extinct 1944	
<i>Urocystis colchici</i>	Critically Endangered / B	
<i>Urocystis floccosa</i>	Extinct 1957	
<i>Urocystis poae</i>	Extinct 1933	

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<i>Urocystis primulicola</i>	Extinct 1904	
<i>Urocystis trientalis</i>	Vulnerable / D2	Rare
<i>Ustanciosporium gigantosporum</i>	Extinct 1865	
<i>Ustanciosporium majus</i>	Extinct 1939	
<i>Ustilago corcontica</i>	Extinct 1944	
<i>Ustilago echinata</i>	Vulnerable / D2	
<i>Ustilago hordei</i>	Vulnerable / B	
<i>Ustilago marina</i>	Extinct 1885	Extinct
<i>Ustilago ornithogali</i>	Vulnerable / D2	Rare