

Report on

**Pezizales (Eumycota, Ascomycotina) of the portion of the
Columbia River Basin in the United States**

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December 14, 1994

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LITERATURE REVIEW AND GENERAL DISCUSSION

1.0. INTRODUCTION. The first new species in the Pezizales described from the Columbia River Basin appears to be *Peziza vulcanalis* Peck, (Peck, 1873) from material collected in eastern Idaho in 1872 on a U.S. Geological Survey Expedition (Hayden, 1873). Coulter (1873, p. 753), the expedition botanist, presented some observations on the challenges and rewards of studying the fungi of the region that are pertinent today:

Fungi occurred in considerable abundance, but as no conveniences for preserving them were provided, but a small collection could be made. They were sent to Charles H. Peck, Albany, New York, who has done more than could be expected with the very indifferent material sent to him. The fleshy fungi are hard subjects to deal with in the field, and several expedients were resorted to for preserving them....The list of fungi therefore is rather small, although containing two new species. This is a group that has never been thoroughly examined in the West, and I have no doubt that a close scientific investigation would disclose hundreds of species new to science. A wide and interesting field is here laid open to the mycologist.

The Pezizales in their broadest interpretation (Trappe, 1979) are a group of fungi of diverse appearance, nutritional strategies, and habitats that have caught the interest of many workers over the years but remain poorly documented in much of North America including the Columbia River Basin. The Pezizales and Helotiales are the largest orders of the Class Discomycetes (Korf, 1973). They are separated primarily on the way the spore-producing cell or ascus opens to release the mature ascospores. The Helotiales (inoperculate discomycetes) are not covered in this report. The Pezizales (operculate discomycetes and truffles) are also known as the morels, and allied cup-fungi (Pezizales ss. stricto), and the truffles (formerly the Tuberales).

Several of the points panel members were asked to consider can not be addressed in meaningful manner in relation to the Pezizales given the available data. Most specimens were collected as part of taxonomic studies where the emphasis was on fruiting body morphology, not as part of detailed ecological studies. Most specimens in this data set were collected prior to major changes in the forests of the Columbia River Basin (Fig. 1), and were collected in Idaho (Fig. 2). Any analysis of vegetation types (broadly speaking) and associated fungi would have to be done by someone with access to stand descriptions for the relevant areas at the time the collections were made. Comments are thus restricted to those that I hope will be helpful and instructive.

Other members of this panel have placed greater emphasis on the true (ascomycete) truffles than I have. However, what data I encountered is included. The truffles are in general rated "medium" in terms of priority for monitoring with the expectation that other panelists with greater knowledge will have more to say on the subject. (See species of *Balsamia*, *Barssia*, *Chromyces*, *Elaphomyces*, *Genabea*, *Genea*, *Hydnotrya*, *Tuber*, and *Geopora cooperi*).

1.1. TAXONOMICALLY-ORIENTED LITERATURE. Some information has been published on the Pezizales ss. Trappe (1979) since Coulter's report, but the body of published data remains small. The most recent publication on the Pezizales (excluding the Tuberales) for North America is that of Seaver (1928, 1942). States that are part of Columbia River Basin are mentioned in the ranges Seaver gives for various species but specimens are seldom directly cited and localities are generally limited to a range of states; ecological data is also scanty. Pfister (1982) prepared a nomenclatural revision of Seaver's work. Gilkey (1954b) provides the most recent treatment of the Tuberales. Since these works appeared, the circumscription of families and genera has changed greatly and studies on ultrastructure and molecular systematics are providing new insights. Furthermore, the number of known species in western North America has increased. Significant changes in the International Code of Botanical Nomenclature (Greuter et al., 1988) have resulted in nomenclatural changes as yet largely unincorporated into the literature on these fungi. For example, the name *Lasiobolus equinus* (O.F. Müll.) P. Karst. was in use (Bezerra & Kimbrough, 1967), but now must be replaced by *L. papillatus* (Pers.: Fr.) Sacc. because the former name was not recognized in the *Systema Mycologicum* (Fries, 1821-1832) and the latter one was (Cannon et al., 1985). The nomenclature of this group provides many challenges and potential pit-falls as well as opportunities for honest differences in interpretations. The nomenclature used here is subject to change as problems are resolved.

The only recent treatment of the Pezizales of the Columbia River Basin (or any comparable region of North America) is that of Tylutki (1979). In it, 104 species of operculate discomycetes are keyed; descriptions and illustrations are limited to those taxa with ascocarps (fruiting bodies) at least 1 cm in length or width. Although the emphasis is on Idaho, this work is useful throughout the Columbia River Basin and in adjacent areas. Tylutki drew on his own research and on the work of his student, John W. Paden (Paden, 1967). For the western side of the Columbia River Basin in Washington, the studies by L.C. Snyder (1936, 1938) are useful.

A number of taxa in the Pezizales have been described from the Columbia River Basin (Table 9). Of these species, *Sarcosoma latahensis*, and *Plectania milleri* are still recognized and appear to be endemic to the Pacific Northwest; the name *Morchella crassistipa* seems not to have been used in recent years. *Neourne 7a nordmanensis* [now *N. pouchetti* (Berthet & Riousset) Paden] is relatively abundant in the Pacific Northwest based on

my studies in the Coast Range, the Olympic Peninsula and northern Idaho; *Urnula pouchetii* was described from Morocco (Berthet & Riousset, 1965). *Helvella maculata* is widely distributed in the mesic Douglas-fir forests of western North America. *Cau l ocarpa montana* [here considered a synonym of *Sarcoscypha coronaria* (Jacq.) J. Schröt.] is widespread in western North America, scarce in eastern North America; it was described from Europe. The genus *Geopyxis* in North America is in need of revision, the fate of Peck's taxon is not clear at present although Rifai (1968) has suggested it might be a synonym of *G. carbonaria* (Alb. & Schwein.) Sacc. *Tricharina praecox* var. *intermedia* Yang, Egger, and Korf in Yang and Korf (1985) was described from British Columbia; the sole collection cited from the Untied States (Paden 270) was collected in Latah Co., Idaho.

Larsen and Denison (1978) prepared a checklist of the Pezizales (excluding the bulk of the true truffles) for North America west of the Great Plains. They drew on material at BPI, CUP, OSC, SFSU, UBC, WTU, and WSP (abbreviations according to Holmgren et al., 1990) and the private herbaria of R.M. Danielson and that of Virginia Wells and Phyllis Kempton. They listed 231 species with 8 more of uncertain position. However, their data is by state only so except for Idaho, one can not ascertain whether the citation of a Columbia River Basin state in their list indicates presence of the taxon in the Columbia River Basin.

In the 1960s and 1970s, a number of important papers were published in which the authors synthesized data on the Pezizales, refining concepts of families, genera, and species, e.g., Rifai (1968), Eckblad (1968), Korf (1972a & b, 1973a), and Trappe (1979). All are useful references for students of the Pezizales of the Columbia River Basin. Four sets of keys are especially useful in identifying Pezizales to genus: Korf (1972a, 1973a) for the traditional Pezizales and Castellano et al., (1989) and Trappe & Castellano (1992) for the traditional Tuberales.

For information on many Columbia River Basin Pezizales, the only published accounts are in the technical mycological literature not only from North America but also from many other parts of the world. Examples of survey papers that include Pezizales from the Columbia River Basin, generally in lists with little or no supplementary data, include Cummins (1930), Hawker (1968), Kauffman (1925); McKnight (1982); Miller (1965) and Wehmeyer (1947). The works of Brummelen, Cain, Denison, Dissing, Dissing and Nannfeldt, Egger, Gilkey, Harmaja, Kanouse, Kanouse and Smith, Kimbrough, Korf, McKnight, Miller, Paden, Pfister, Schumacher, Seaver, Trappe, Wang, Weber, and Yang and Korf, listed in the Literature Cited are examples of publications that one may need to refer to in the course of studies on this group as it occurs in the Columbia River Basin.

1.2. ECOLOGICALLY-ORIENTED LITERATURE. The Pezizales include saprophytic, parasitic, and ectomycorrhizal taxa. Of the 231 taxa listed by Larsen and Denison (1978) roughly 1% are known to be parasitic, 6% are bryicolous, 10% occur in burned areas or on heated substrates (phoenicoid, Carpenter and Trappe, 1985), 22% are coprophilous, while the remainder are likely either

saprophytic or mycorrhizal (and generally untested). Most, if not all, truffles and many epigeous Pezizales form mycorrhizae with vascular plants (Danielson, 1982, 1984b; Miller, 1982; Trappe, 1971a; Yang and Korf, 1985), and are important in promoting establishment of certain vascular plants (Hunt & Trappe, 1987; Trappe, 1962, 1971a; Trappe & Fogel, 1977). Perhaps as many as 50% the morels and allied cup-fungi characteristically appear in "temporary environments" (Schumacher, 1993a) such as dung, burned areas, river and stream banks, dunes, and other disturbed areas; they are among the first macrofungi to appear after disturbance and persist, based on production of ascocarps, only a few months to no more than about 2-3 years after disturbance has occurred. Their role in recovery is poorly known. Pezizales characteristic of fire sites have intrigued a number of workers (Petersen, 1970a & b; Egger, 1984, 1986; Egger & Paden, 1986a & b; Warcup, 1990). There is also a large body of literature concerning coprophilous Pezizales (e.g., Aas, 1977; Brummelen, 1966, 1967, 1976, 1981, 1984a, 1984b, 1986; Cain & Kimbrough, 1966, 1969, 1970; Dissing, 1989; Jain & Cain, 1973; Kimbrough, 1969; Kimbrough et al., 1969, 1972; Larsen, K., 1970, 1971; Prokhorov, 1990a, 1990b, 1991; Wicklow & Angel, 1983). The coprophilous taxa follow their hosts primarily in their distribution and are instrumental in recycling nutrients; most are presumed to be saprobic and may occur on dung of multiple hosts, others appear to be quite restricted in their substrates. Among the parasitic taxa, *Rhizina undulata* may attack and weaken or kill seedlings or young conifers (e.g., Weir, 1915; Ginns, 1974) while the anamorph of *Caloscypha fulgens*, *Geniculodendron pyriforme*, may parasitize seeds of several economically important conifers (Harvey, 1980; Paden et al., 1978; Sullivan et al. 1984; Sutherland 1979, 1981; Sutherland et al., 1981; Wicklow-Howard & Skujins, 1980). A white variant of this normally bright orange fungus has been reported from northern Idaho (Rogers & Bonman, 1978). For the majority of Pezizales no studies have been undertaken that firmly establish their mode of nutrition.

The most extensive, but still quite limited data, attempting to correlate fruiting patterns of forest-dwelling Pezizales with factors such as vascular plant communities, precipitation, temperature, and other environmental factors is contained in the work of W.B. Cooke (1955). He provided extensive tables listing, among other things, the macrofungi found in various habitats in what are probably the most extensive data on fungal community structure for any region in the Columbia River Basin. His observations are worth studying by anyone interested in the ecology of the fungi from eastern Washington and adjacent Idaho.

Some Pezizales serve as important food resources for animals from nematodes and microarthropods to mammals. The importance of truffles in the diet of several mammals has been well documented (Maser et al., 1978; Fogel & Trappe, 1978; Trappe & Maser, 1977); some are harvested for human consumption (Evans & Evans, 1987). Some epigeous Pezizales are popular esculents, although a few false morels contain carcinogens and other human toxins (Weber, 1988). The nutrient-rich hymenium of many taxa,

especially those with small ascocarps that fruit in very damp areas, typically harbor numerous nematodes and microarthropods that can strip a specimen of its hymenium in a few hours.

2.0. METHODS

2.1. SCOPE AND SOURCE OF DATA. Label data on Pezizales of western North America is being gathered as part of a NSF-supported study (DEB 9007186, DEB 94500545) on the "Epigaeous and hypogeous Pezizales of Western North America." For the report on Pezizales of the Columbia River Basin (Columbia River Basin), the subset of label data clearly or likely to pertain to collections from the Columbia River Basin was assembled and analyzed. The initial list included about 3,000 entries. Considerable time was spent searching maps and gazetteers in order determine, if possible, the county of origin for each collection and thus refine the data set. Once this was done and incomplete identifications estimated about 2600 entries remained. All collections included in this survey are or will be part of the accessioned material at one or more of the following Herbaria (some collections have been split and sent out on exchange): BPI, MICH, OSC, WTU, WSP, ID, ELRG, RMS, NY. Some data sets are incomplete as yet (allowing for miss-filed and undetermined specimens): WTU perhaps 75% complete, WSP about 95-98% complete, BPI incomplete (just as I was completing the analysis I found that several coprophilous genera were missing from the data set and efforts to date to obtain the missing data have been unsuccessful). Additional material may be expected in the herbaria at VPI, SFSU, BSU, and Albertson's College of Idaho, and in the personal herbaria of Catherine Scates-Barnhart and Kent H. McKnight; material from Whitworth College is being transferred to WTU. In addition to these herbarium records, some papers were examined for material from the Columbia River Basin.

2.2. ACCURACY OF IDENTIFICATIONS. The accuracy for identifications rests on the determiners who submitted material for accessioning into the various herbaria. In many herbaria, specimens are filed under the first name applied to them at the time of accessioning, and not re-filed in light of later annotations. Without a knowledge of the synonymy and likely misidentifications for taxa under consideration, it is often difficult to locate pertinent material. This challenge is one of the reasons why emphasis was placed on synonymy and concordances of names in this report. Further adjustments will be needed as material is examined and additional references consulted.

Several genera and some clusters of species are poorly resolved: no modern treatment of the genus *Peziza* in North America is available and thus most identifications not confirmed by D.H. Pfister or R.P. Korf are suspect; in most herbaria visited to date the number of unidentified collections in this genus out numbers identified ones. Species of *Helvella* similar in gross morphology to *H. macropus* and *H. compressa* are being analyzed but without studying existing specimens, it is pointless to guess to which segregate taxon each collection belongs. A

similar situation occurs with *Gyromitra gigas* (including *G. montana*, *G. korfii*, and *G. fastigiata* ss. McKnight and material misidentified as *G. caroliniana*) as well as species of *Morchella* 7 a. The genus *Otidia* is another that needs revising, and the list could go on.

2.3. CHOICE OF NAMES TO USE IN THE REPORT. Since all analysis will be tied to names of taxa, the first order of work was to develop a list of names of taxa to consider for this report. This proved to be an interesting challenge. From the initial list of names applied to collections filed as Pezizales in one of the above herbaria, names normally applied to non-pezizalean fungi were excluded and transcription and orthographic errors (when detected) were adjusted to the most likely name. Names in current use for the older names but not applied to specimens were added to yield the list presented in Table 1. Table 1A includes a list of problem names. A number of names have not been used in recent years, and trying to find the appropriate current nomenclatorial home for them continues to be a challenge; some identifications involved names unlikely to represent correct identifications and were not considered further. For the remaining names, an effort was made to connect each of them with a name in current use, with more success in some cases than in others. Table 2 lists the names used in this report and name(s) under which specimens of that taxon are likely to be filed. Except for nomenclatural synonyms, synonymy and placement are a matter of judgement; published synonymies were used in most cases. Table 3 presents a concordance between names found on specimens and the current name in use.

2.4. RANKING OF TAXA. At a meeting in Corvallis, Oregon, in July 1994, a definition of rare as applied to fungi was formulated. According to it, any taxon known from 10 or fewer collections from a region was defined as rare. As a first screen in evaluating the rarity of pezizalean taxa, the approximate number of collections per name in use was determined (Tables 4A, 4B.). When almost 2/3 of the putative taxa fit this definition other factors were employed to judge suitability for further survey and monitoring activities. Viewed from the perspective of possible rarity within a state, on average, all taxa fit the definition of rare for each state (Figs. 2, 3, 4). Many of the "rare" taxa are either phoenicoid or coprophilous and thus are characteristic of "temporary environments" (Schumacher, 1993a). Most phoenicoid fungi are widely distributed in the world and relatively common if the right substrate or habitat is studied, however, in this list they appear to be "rare" by the Corvallis definition and as a group are very poorly represented. Some phoenicoid taxa appear to be truly rare but the available data is useless in judging relative abundance of these taxa in the Columbia River Basin. The situation for coprophilous taxa is similar, with "cow" dung out-numbering all other kinds and thus possibly implying that cows are the most abundant mammal in the Columbia River Basin. The list (Tables 4A, 4B) of categories to describe frequency was modified in light of the situation with

the coprophilous and phoenicoid taxa to include a category for fungi represented by few reports but very likely wide spread in distribution and likely to be common if sought in the appropriate manner. In contrast, "Infrequently reported" taxa are ones that are apparently characteristic of apparently relatively stable environments and for which the low number of collections in many cases reflects lower relative abundance--except for poorly resolved species groups. Many of the taxa in the "Infrequently reported" group are ones that might be targeted for monitoring and special attention. Relatively few taxa are not only rare in the Columbia River Basin but also are either endemic to the Pacific Northwest and/or Rocky Mountains or are rare on a world basis. These fungi receive the designation of High priority for monitoring (Tables 5A, 5B).

3.0. SPECIES AND THEIR RATINGS

3.1. PRIORITY FOR CONSIDERATION AS SPECIES OF SPECIAL CONCERN. Proposed rankings for special consideration are presented in Tables 5A (alphabetical by taxon) and 5B (by rank then alphabetical by taxon). 3.2. Criteria used for proposing species for ranking of "High" or "Medium." The following criteria were used in ranking the species.

1. "Truffles" are generally ranked "Medium" so that they would be easily noticed when the Team integrates the data from other reports. The hypogeous fungi, at least of Idaho and western Wyoming, have been studied intensely thus when this data is combined with that of other panel members, the relative frequency of reports is likely to provide a reasonable estimate of real frequency.

2. Certain species apparently endemic to western North America and seldom reported were ranked as High if they occur in habitats that are relatively infrequent in the landscape, e.g., *Byssonectria cartilaginea*.

3. Species described from the region and apparently limited to the Pacific Northwest and northern Rocky Mountains (*Sarcosoma latahensis*, *Plectania milleri*) are ones that should be studied further before either including them or excluding them from the list of species of special concern. However, taxa described from the Columbia River Basin and relatively widely distributed and relatively common in the Pacific Northwest were ranked medium or low depending on the number of known specimens, especially if they seem to flourish in mesic second-growth coniferous forests.

4. Coprophilous and phoenicoid taxa, with a few exceptions, were rated as low priority for listing, but it would be interesting to survey for these fungi and see if any correlations to type/intensity/original stand or age of burn can be made.

5. Species characteristic of "temporary habitats" are not rated highly because the taxa in them are likely to be widely distributed on a continental, if not world, basis, even if rarely collected.

3.2. HABITAT ASSOCIATIONS, PROCESSES, AND REQUIREMENTS. The label data is too scanty to provide significant information on habitats other than general forest type and sometimes substrate. Attempts at specifying substrates for the taxa are presented in Table 6, while estimated tolerance of disturbance (however defined) is presented in Table 7. Table 8A and 8B present habitat information arranged by priority groups (8A) and by habitat type (8B). The information in Tables 6-8 should be regarded as sweeping generalizations.

3.3. POPULATION TRENDS. The serious comment here is that no major study of the Columbia River Basin Pezizales has been undertaken in the last nearly 2.5 decades (Fig. 1). Of the major collectors (Fig. 5) several are dead, some retired, and others are working in other areas. We can more accurately graph the population trends of mycologists than of the fungi. On the lighter side, the populations of phoenicoid fungi appear to be headed for a boon in the next few years as the history of fire suppression yields to controlled and uncontrolled burns. Thus the populations of taxa characteristic of stable habitats can be expected to decline and the populations of coprophilous taxa may drop after a massive loss of habitat for herbivores and other "substrate producers" then boom as browse becomes abundant and animal populations rise. Those taxa found relatively few times and then in the damp old-growth forests of the Idaho panhandle may already have been extirpated. On a visit to northern Idaho several years ago, I visited the area where I think the *Sowerbyella* and the *Aleuria rhenana* collections were made, only to find a clear-cut. Whether areas similar to that one as it was in the 1960s still exist in the Columbia River Basin, I do not know. Taxa characteristic of riparian areas will only flourish as long as disturbance and siltation do not reach such proportions that the fungi can not flourish. Just how to predict how much is too much remains a mystery.

3.4. SENSITIVITY TO DISTURBANCE. As can be seen from Table 7, some taxa fruit only or primarily in disturbed areas, especially areas disturbed by fire while others seems to be restricted to habitats that are quite stable. Most of the forest-dwelling species appear to flourish in forests containing a mix of tree species and age classes with a good accumulation of fine and coarse litter and woody debris. Even-aged monocultures seem to be poor in diversity of epigaeous Pezizales. There are few, if any, discernable trends between composition of forest and species, more between moisture variations. At one end of the spectrum of forest types, an upland, dry lodgepole pine forest may be nearly or entirely lacking in epigaeous Pezizales while a mixed conifer and hardwood riparian forest encompasses great

diversity.

4.0. BIOGEOGRAPHY OF THE PEZIZALES

Figure 2. shows the approximate break down of the state of origin for the collections analyzed for this study while Fig. 3 presents number of taxa reported per state. One could interpret this information in a variety of ways, the obvious one being members of the Pezizales are particularly abundant in Idaho. However, when combined with Fig. 1 showing the number of collections per decade, and Fig. 3 showing the number of collections by the major collectors a slightly different picture emerges. A . H . Smith (AHS) spent several seasons collecting in Idaho and introduced several other students of the fleshy fungi to the region as well as met several local collectors [e.g., Ellen Trueblood (ET), Catherine Scates-Barnhart (KS) and P. Miller]. Smith collected material later studied by B.B. Kanouse and by me (NSW). E.E. Tylutki (EET) at the University of Idaho and his student John Paden (JWP) both had strong interests in the Pezizales. All of these collectors were active in Idaho as were several more during the decade of the 1960s. However, these workers seldom strayed far from Idaho and adjacent northeastern Washington, while the mycologists at the University of Washington seldom crossed the mountains to the east in search of Pezizales. If data from O.K. Miller becomes available, then more recent collections will be added to other decades, but the Idaho totals will continue to grow. Two other students of the Pezizales of the Columbia River Basin, J.M. Trappe (JMT) and W.C. Denison (WCD) worked more on the "westside" than the "eastside." The collections by D. Hosford in central Washington are part of a teaching collection and not meant to document diversity in that area. As a consequence, comments on the biogeography are quite general and perhaps reflect the distribution of the mycologists more than the distribution of the fungi. Fogel and Pacioni (1989) presented data on distribution of some taxa primarily of areas adjacent to the Columbia River Basin. My research and cooperation with other mycologists and botanists in the region since coming to Oregon are the basis for the following observations.

1. The Pezizales of the apparently arid portions of the Columbia River Basin are undoubtedly more diverse than records indicate. S.A. Rehner as part of his Master's research at the University of Washington found a number of interesting taxa in the Potholes region of Central Washington. Specimens collected by John Wheeler, a graduate student in Botany and Plant Pathology at Oregon State University, reinforce this conclusion as do personal observations of Nicoline Gray of Whitworth College.

2. Based on a trip by Weber, Trappe, H. Dissing, T. O'Dell and others as well as reports from J . F . Ammirati, the Okanagan highlands appear to be a center of undocumented diversity for the Pezizales. Most of the specimens collected in a short visit there remain to be studied but appear to include some new records for North America and a

possible new species.

3. The old-growth *Thuja plicata* Donn forests of northern Idaho were the source of the only collection of *Sowerbyella* (near *S. imperialis*) and *Aleuria rhennana* from the Columbia River Basin. Both taxa rare throughout the world and in the case of the *Sowerbyella* known from fewer than a half dozen collections in western North America. Their fruiting bodies are brightly colored and relatively large (> 1 cm) so are likely to be kept when found by mycologists. This region is one deserving of further study.

4. The portions of Columbia River Basin where *Betula papyrifera* Marsh occurs are likely to harbor several cup-fungi not found elsewhere in the West, e.g., the real *Helvella macropus* and possibly *Pseudorhizina sphaerospora* (rare in North America and reported from only a few collections in Montana in western North America).

5. Alpine and subalpine areas within the Columbia River Basin are likely to host species known from the North American Arctic and northern and montane Europe, but they have not been explored in detail. At least one taxon apparently endemic to this region, *Byssonectria cartilaginea*, is likely to fruit in alpine and subalpine meadows about the time the snow is melting.

6. Montane forests where the snows persist into the summer months support a uniquely North American set of taxa that fruit around and near the edges of melting snowbanks.

Because so much of the habitat data predates the boom in logging and the recent fires, it is not practical to pinpoint actual locations as most of them have most likely changed greatly since the specimens were gathered.

5.0. RECOMMENDATIONS

1. By ensuring that a balance is developed and maintained among different types of macro- and micro-habitats, including regular cycles of different types of disturbance, the diversity of Pezizales in the Columbia River Basin is likely to be maintained. Various types of forest, especially those with a mix of woody species of different ages are needed together with the litter and debris layer to provide habitats for the forest dependent species. Plantations and monocultures seem to be inhospitable to most Pezizales.

2. Surveys targeted at species characteristic of forested areas and reported only a few times from the Columbia River Basin might provide at least some of the data needed to match current vegetation patterns with their associated fungi and help determine which taxa are still extant in the region.

3. Because certain species, especially the species of *Morchella*, are of importance to recreational and commercial mushroom hunters, some effort to elucidate the ecological tolerances of the members of this genus might be useful.

Furthermore, studies on the taxonomy of *Morchella* leading to working out the taxonomy of the group will be needed if the ecological data is to be associated with named taxa.

4. Arrangements should be made to obtain data on relevant Pezizales from herbaria not included in this study but likely to have significant holdings of Pezizales from this region. The resulting additions to the database may alter some of the conclusions presented here.

5. The question of whether the phoenicoid fungi of forests are the same and follow the same succession as the phoenicoid fungi of grasslands and shrub lands is open to investigation. The diversity of vegetation types in this region makes it an ideal one in which to pursue answers to such questions and to explore the relationship between the mix of phoenicoid fungi and the type (intensity) of fires.

6. While some taxa seem to fruit in general on "disturbed areas" there is reason to question if disturbed areas within forests produce a different set of fruiting taxa than disturbed areas perhaps in clear cuts or non-forested areas. In other words, is a forest legacy necessary for the survival of these taxa? This is another area for potential research that could produce useful information.

ACKNOWLEDGEMENTS

Laura Wilson managed the Literature Cited and was instrumental in locating pertinent literature as well and checking locality data and filling in missing information. Her efforts have contributed greatly to the referential integrity of the database. Curators and staff and several herbaria smoothed the way for data acquisition, especially Joseph Ammirati (WTU), Jack Rogers (WTU), Barbara Thiers (NY), David Hosford (ELRG), Robert and Michael Fogel (MICH), William Denison, Aaron Liston, and Sherri Pittam at OSC, and the staff at ID, and Steve Miller (RMS). David Farr (BPI) was especially helpful in the realm of electronic data transfer. Nicoline Gray of Whitworth College shared her insights on the Pezizales of the Spokane region as did Catherine Scates-Barnhart of Post Falls, ID. Without funding from the National Science Foundation for the larger study, this project would have been much less complete. The use of facilities at the FS PNWRS is gratefully acknowledged.

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Figure 1. Number of collections of Pezizales in the Columbia River Basin per decade.

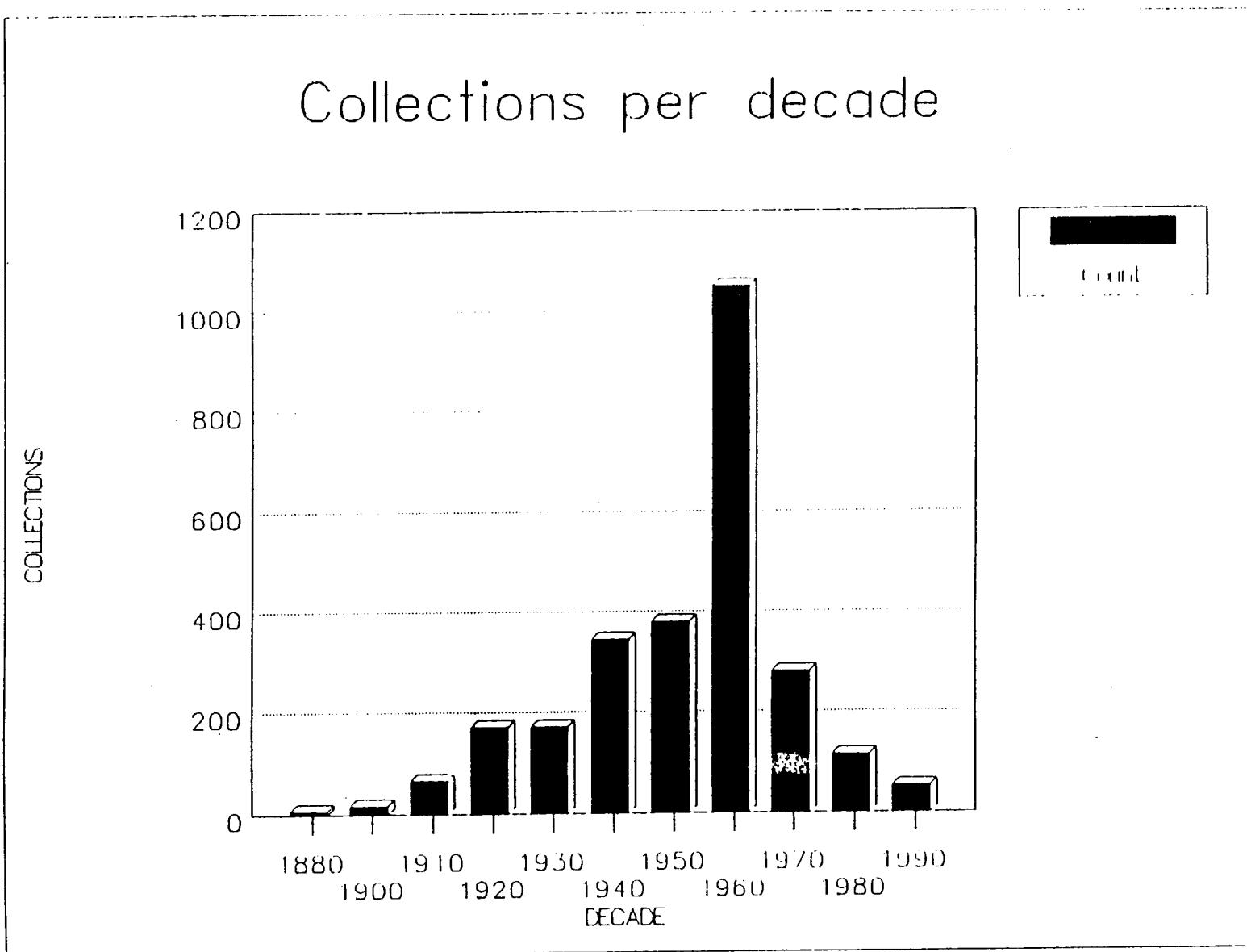


Figure 2. Number of collections of Pezi zales in the Columbia River Basin per state.

Collections per state

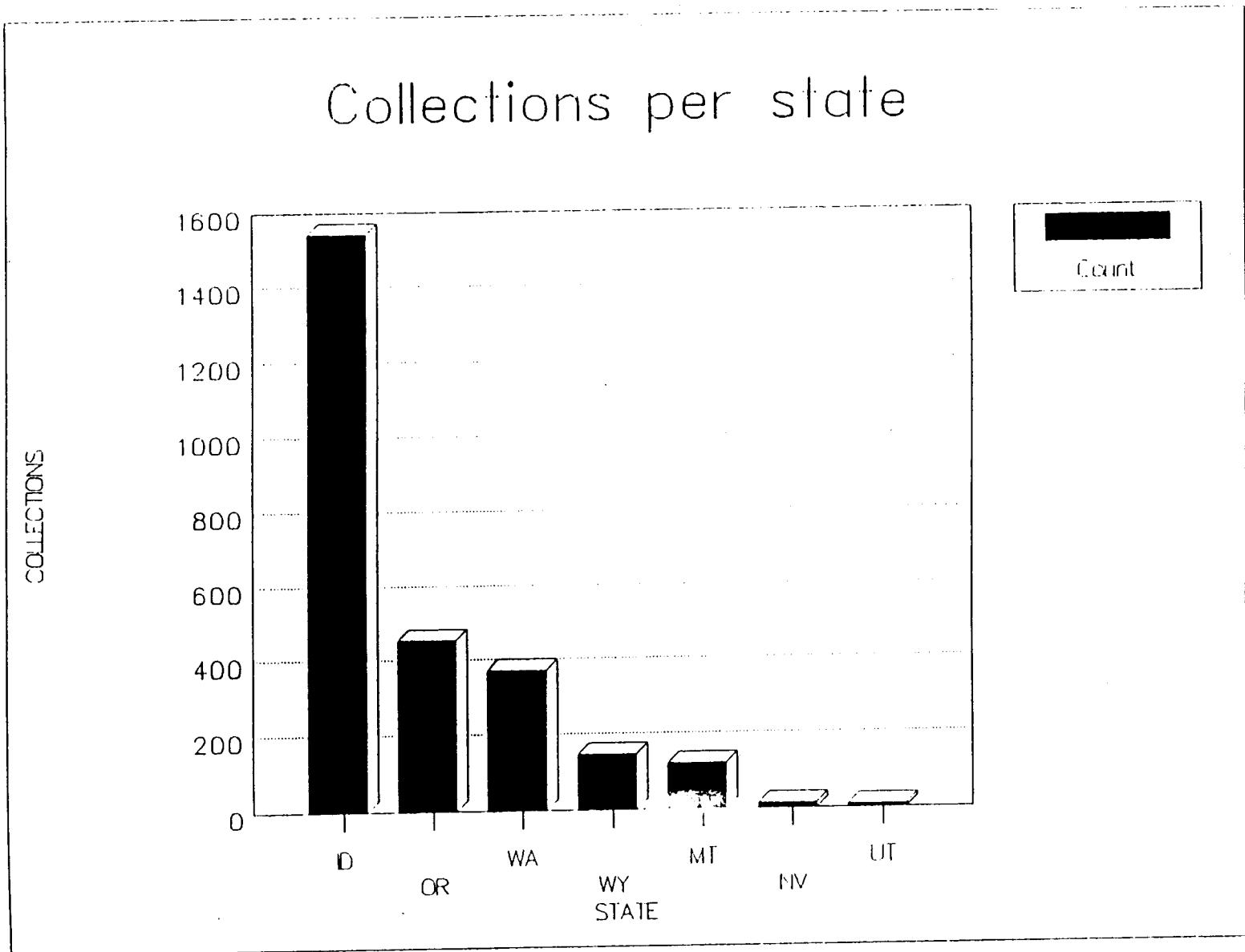


Figure 3. Number of taxa per state.

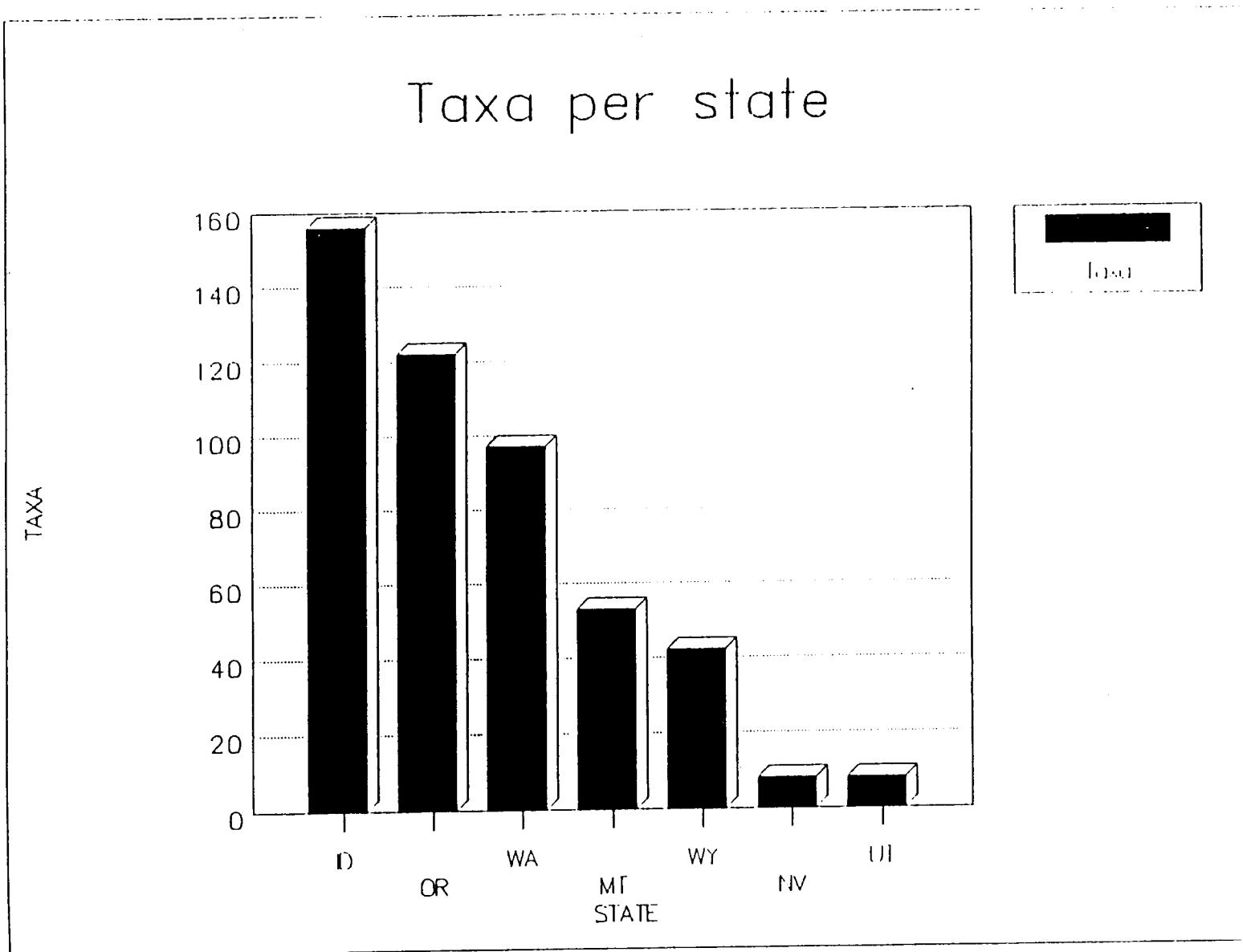


Figure 4. Average-number of collections per taxon per state.

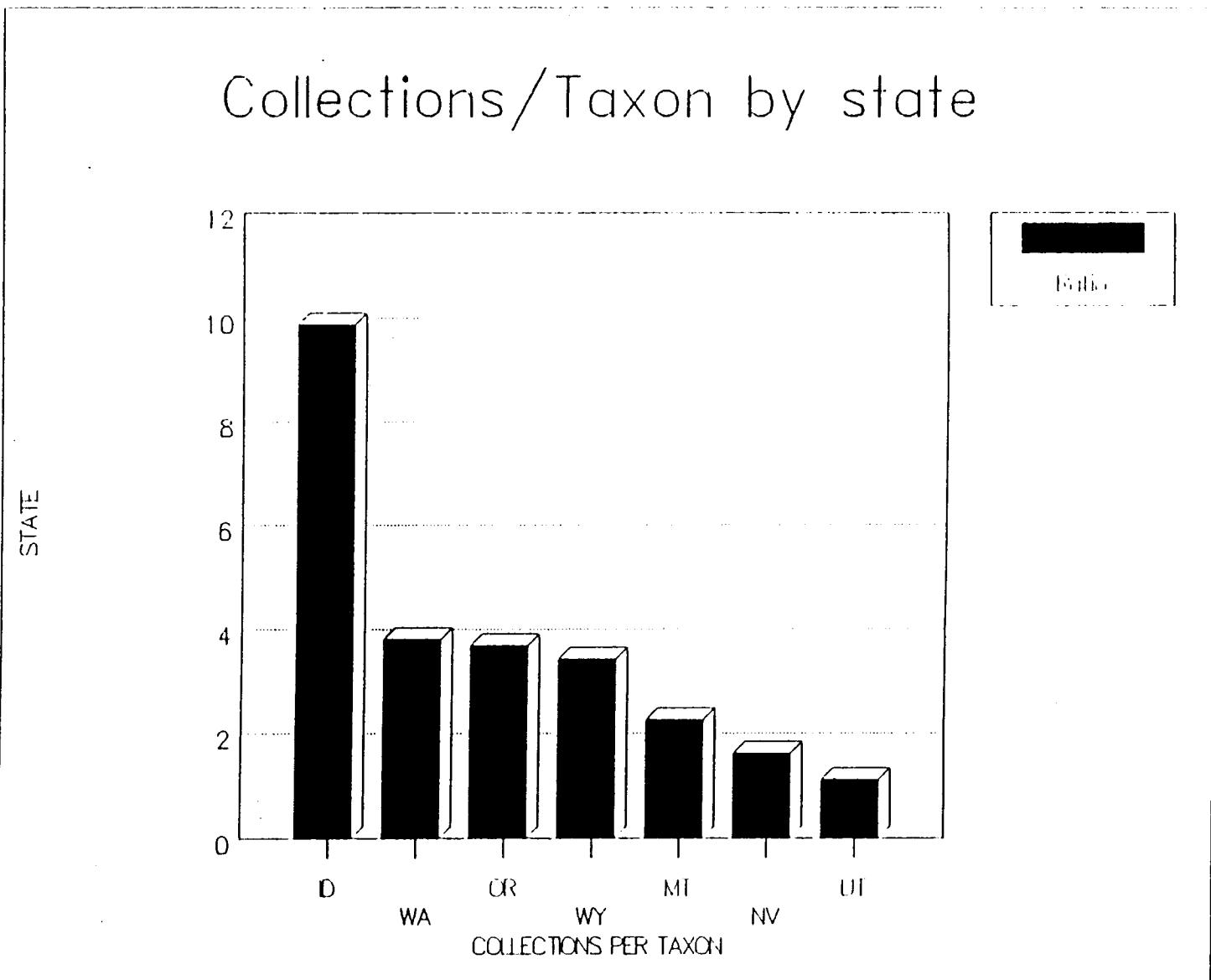


Figure 5. Number of collections per collector for collectors of 50 or more collections. AHS: Alexander H. Smith*: JWP: John W. Paden*; WBC: Wm. Bridge Cooke*; JRK: J. R. Keinholz*; EET: Edmund E. Tylutki+, NJS: Nancy J. Smith (Weber), JRW: John R. Wier*, WCD: William C. Denison+; ET: Ellen Trueblood*; WGS: Wilhelm G. Solheim*; GBC: George B. Cummins+; JMT: James M. Trappet; PMi: Paul Miller.

* deceased, + retired.

Number of collections per collector

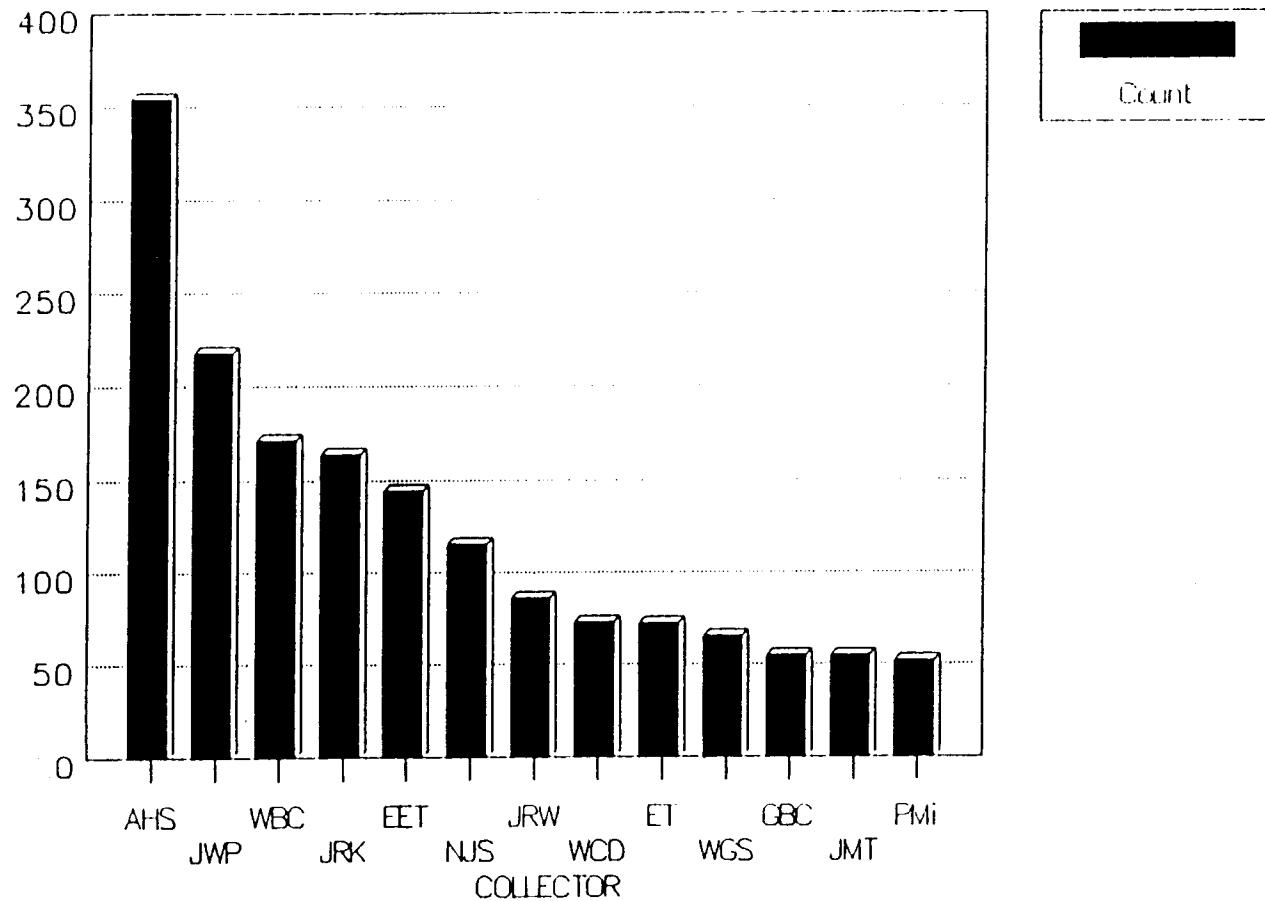


Table 1. All names treated in this report except for special problems

#	Name	#	Name
1.	<i>Acetabula leucomelas</i>	48.	<i>Discina perlata</i>
2.	<i>Acetabula sulcata</i>	49.	<i>Disciotis venosa</i>
3.	<i>Aleuria aurantia</i>	50.	<i>Elaphomyces granulatus</i>
4.	<i>Aleuria rhenana</i>	51.	<i>Elaphomyces granulatus</i> var. <i>asperulus</i>
5.	<i>Aleuria atroviridis</i>	52.	<i>Elaphomyces muriacatus</i>
6.	<i>Anthracobia macrocystis</i>	53.	<i>Elaphomyces subviscidus</i>
7.	<i>Anthracobia melaloma</i>	54.	<i>Elvelia californica</i>
8.	<i>Ascobolus carbonarius</i>	55.	<i>Elvelia crispa</i>
9.	<i>Ascobolus crenulatus</i>	56.	<i>Elvelia elastica</i>
10.	<i>Ascobolus furfuraceus</i>	57.	<i>Elvelia inflata</i>
11.	<i>Ascobolus geophilus</i>	58.	<i>Elvelia lacunosa</i>
12.	<i>Ascobolus immersus</i>	59.	<i>Elvelia mitra</i>
13.	<i>Ascobolus stercorarius</i>	60.	<i>Fimaria hepatica</i>
14.	<i>Ascobolus viridulus</i>	61.	<i>Genabea cerebiformis</i>
15.	<i>Ascophanus argenteus</i>	62.	<i>Genea cerebiformis</i>
16.	<i>Ascophanus carneus</i>	63.	<i>Genea intermediata</i>
17.	<i>Ascophanus granulatus</i>	64.	<i>Geopora arenicola</i>
18.	<i>Ascophanus granuliformis</i>	65.	<i>Geopora arenosa</i>
19.	<i>Ascophanus ochraceus</i>	66.	<i>Geopora cooperi</i>
20.	<i>Balsamia platyspora</i>	67.	<i>Geopora cooperi</i> f. <i>cooperi</i>
21.	<i>Balsamia vulgaris</i>	68.	<i>Geopora cooperi</i> f. <i>gilkeyae</i>
22.	<i>Barssia oregonensis</i>	69.	<i>Geopora cooperi</i> var. <i>cooperi</i>
23.	<i>Bulgaria globosa</i>	70.	<i>Geopora sepulta</i>
24.	<i>Bulgaria melastoma</i>	71.	<i>Geopyxis carbonaria</i>
25.	<i>Bulgaria mexicana</i>	72.	<i>Geopyxis cupularis</i>
26.	<i>Byssonectria cartilaginea</i>	73.	<i>Geopyxis vulcanalis</i>
27.	<i>Caloscypha fulgens</i>	74.	<i>Gyromitra ambigua</i>
28.	<i>Caulocarpa montana</i>	75.	<i>Gyromitra apicalatula</i>
29.	<i>Cheilymenia coprinaria</i>	76.	<i>Gyromitra californica</i>
30.	<i>Cheilymenia crucipila</i>	77.	<i>Gyromitra curtipes</i>
31.	<i>Cheilymenia fimicida</i>	78.	<i>Gyromitra esculenta</i>
32.	<i>Cheilymenia pulcherima, a compl ex</i>	79.	<i>Gyromitra fluctuans</i>
33.	<i>Cheilymenia stercorea</i>	80.	<i>Gyromitra gigas</i>
34.	<i>Cheilymenia thelloboloides</i>	81.	<i>Gyromitra inflata</i>
35.	<i>Chloromyces alveolatus</i>	82.	<i>Gyromitra korfii</i>
36.	<i>Coprobella granulata</i>	83.	<i>Gyromitra melaleuca</i>
37.	<i>Coprotus granuliformis</i>	84.	<i>Gyromitra montana</i>
38.	<i>Coprotus granuliformis</i>	85.	<i>Gyromitra perlata</i>
39.	<i>Coprotus ochraceus</i>	86.	<i>Helvelia acetabulum</i>
40.	<i>Daleomyces phillipsii</i>	87.	<i>Helvelia adhaerens</i>
41.	<i>Discina ancilis</i>	88.	<i>Helvelia albellula</i>
42.	<i>Discina apicalata</i>	89.	<i>Helvelia albibipes</i>
43.	<i>Discina apicalatula</i>	90.	<i>Helvelia atra</i>
44.	<i>Discina leucoxantha</i>	91.	<i>Helvelia brevissima</i>
45.	<i>Discina olumpiana</i>	92.	<i>Helvelia californica</i>
46.	<i>Discina olumpiana</i> var. <i>diluta</i>	93.	<i>Helvelia caroliniana</i>
47.	<i>Discina olumpiana</i> var. <i>olumpiana</i>	94.	<i>Helvelia chinensis</i>
		95.	<i>Helvelia compressa</i>

96. ***Helvel*** *a corium*
 97. ***Helvel*** *costifera*
 98. ***Helvel*** *crassitunicata*
 99. ***Helvel*** ***crispa***
 100. ***Helvel*** *cupuliformis*
 101. ***Helvel*** ***elastica***
 102. ***Helvel*** *esculenta*
 103. ***Helvel*** ***gigas***
 104. ***Helvel*** *griseoalba*
 105. ***Helvel*** *infula*
 106. ***Helvel*** *infula* var. ***typica***
 107. ***Helvel*** *klotzschiana*
 108. ***Helvel*** *lacunosa*
 109. ***Helvel*** *latispore*
 110. ***Helvel*** *leucomelaena*
 111. ***Helvel*** *leucomelas*
 112. ***Helvel*** *leucopus*
 113. ***Helvel*** ***macropus***
 114. ***Helvel*** *macropus* var. ***macropus***
 115. ***Helvel*** *maculata*
 116. ***Helvel*** *melandeucoides*
 117. ***Helvel*** *mitra*
 118. ***Helvel*** *nigrella*
 119. ***Helvel*** *pezioides*
 120. ***Helvel*** *platypodia*
 121. ***Helvel*** *queli*
 122. ***Helvel*** *recurvum*
 123. ***Helvel*** *silvicola*
 124. ***Helvel*** *soltaria*
 125. ***Helvel*** *sphaerospora*
 126. ***Helvel*** *stevensi*
 127. ***Helvel*** *sulcata*
 128. ***Helvel*** *umbraculiformis*
 129. ***Helvel*** *villosa*
 130. ***Humaria*** *abundans*
 131. ***Humaria*** *al bospadi cea*
 132. ***Humaria*** *coccinea*
 133. ***Humaria*** *erinnaceus*
 134. ***Humaria*** *gerardi*
 135. ***Humaria*** *granulosa*
 136. ***Humaria*** ***gregaria***
 137. ***Humaria*** *hemi spherica*
 138. ***Humaria*** *leucomoma*
 139. ***Humaria*** *melandoma*
 140. ***Humaria*** ***rubens***
 141. ***Humaria*** *scutellata*
 142. ***Humaria*** *semiimmersa*
 143. ***Humaria*** *stercorea*
 144. ***Humaria*** *testacea*
 145. ***Humaria*** *theloboiodes*
 146. ***Humaria*** *umbrorum*
 147. ***Humaria*** *hepatica*
 148. ***Humaria*** ***rubens***
 149. ***Humaria*** *semiimmersa*
 150. ***Hydnotrya*** *cerebri formis*
 151. ***Hydnotrya*** *michaelis*
 152. ***Hydnotrya*** *variiformis*
 153. ***Iodophanus*** *carneus*
 154. ***Iodophanus*** *testaceus*
 155. ***Lachnea*** *abundans*
 156. ***Lachnea*** *al bospadi cea*
 157. ***Lachnea*** *erinnaceus*
 158. ***Lachnea*** *flavo-brunnea*
 159. ***Lachnea*** *hemi spherica*
 160. ***Lachnea*** *melandoma*
 161. ***Lachnea*** ***scutellata***
 162. ***Lachnea*** *setosa*
 163. ***Lachnea*** *stercorea*
 164. ***Lamprospora*** *carbonaria*
 165. ***Lamprospora*** ***constellatio***
 166. ***Lamprospora*** *crec'hqueraultii*
 167. ***Lamprospora*** ***fulgens***
 168. ***Lamprospora*** *haemastigma*
 169. ***Lamprospora*** *leiocarpa*
 170. ***Lamprospora*** *planchonii*
 171. ***Lamprospora*** *pyrophila*
 172. ***Lamprospora*** *spinulosa*
 173. ***Lamprospora*** *tuberculatella*
 174. ***Lamprospora*** *wisconsinensis*
 175. ***Lasiobolus*** ***ciliatus***
 176. ***Lasiobolus*** *cuniculi*
 177. ***Lasiobolus*** *equinus*
 178. ***Lasiobolus*** *intermedius*
 179. ***Lasiobolus*** *lasioboloides*
 180. ***Lasiobolus*** *longisetosus*
 181. ***Lasiobolus*** *macrotrichus*
 182. ***Lasiobolus*** *papillatus*
 183. ***Lasiobolus*** *pilosus*
 184. ***Lasiobolus*** *pulcherimus*
 185. ***Lasiobolus*** ***ruber***
 186. ***Leucoscypha*** *ovilla*
 187. ***Leucoscypha*** *rutilans*
 188. ***Macropodia*** *corium*
 189. ***Macropodia*** ***macropus***
 190. ***Maublanomyces*** ***gigas***
 191. ***Melastiza*** *chateri*
 192. ***Mitrophora*** *semi libera*
 193. ***Morchella*** *angusticeps*
 194. ***Morchella*** *bispora*
 195. ***Morchella*** ***conica***
 196. ***Morchella*** *costata*
 197. ***Morchella*** *crassipes*
 198. ***Morchella*** *crassistipa*
 199. ***Morchella*** *deliciosa*
 200. ***Morchella*** *elata*
 201. ***Morchella*** *elata* var.

<i>purpurascens</i>	254. <i>Paxina acetabulum</i>
202. <i>Morchella esculenta</i>	255. <i>Paxina compressa</i>
203. <i>Morchella hotsonii</i>	256. <i>Paxina corium</i>
204. <i>Morchella hybrida</i>	257. <i>Paxina hispida</i>
205. <i>Morchella rielana</i>	258. <i>Paxina leucomelas</i>
206. <i>Morchella semilibera</i>	259. <i>Paxina nigrella</i>
207. <i>Morchella spongiosa</i>	260. <i>Paxina platypodia</i>
208. <i>Nannfeldtella aggregata</i>	261. <i>Paxina semitosta</i>
209. <i>Neogyromitra gigas</i>	262. <i>Paxina subcalvipes</i>
210. <i>Neottiella aphanodictyon</i>	263. <i>Paxina sulcata</i>
211. <i>Neottiella rutilans</i>	264. <i>Peziza abietina</i>
212. <i>Neournula nordmanensis</i>	265. <i>Peziza adae</i>
213. <i>Neournula pouchetti</i>	266. <i>Peziza ammophila</i>
214. <i>Octospora coccinea</i>	267. <i>Peziza ampliata</i>
215. <i>Octospora leucoloma</i>	268. <i>Peziza apicalata</i>
216. <i>Octospora rubens</i>	269. <i>Peziza arvernensis</i>
217. <i>Octospora semiimmersa</i>	270. <i>Peziza atroviridis</i>
218. <i>Otidea abietina</i>	271. <i>Peziza aurantiaca</i>
219. <i>Otidea alutacea</i>	272. <i>Peziza badiabilis</i>
220. <i>Otidea alutacea</i> var. <i>alutacea</i>	273. <i>Peziza badioculifera</i>
221. <i>Otidea alutacea</i> var. <i>microspora</i>	274. <i>Peziza brunneonatra</i>
222. <i>Otidea alutacea</i> var. <i>typica</i>	275. <i>Peziza carbonaria</i>
223. <i>Otidea auricula</i>	276. <i>Peziza cerea</i>
224. <i>Otidea cantharellula</i>	277. <i>Peziza clypeata</i>
225. <i>Otidea cantharellula</i> var. <i>minor</i>	278. <i>Peziza cupularis</i>
226. <i>Otidea concinna</i>	279. <i>Peziza domicaliana</i>
227. <i>Otidea grandis</i>	280. <i>Peziza echinospora</i>
228. <i>Otidea leporina</i>	281. <i>Peziza emilei</i>
229. <i>Otidea leporina</i> var. <i>leporina</i>	282. <i>Peziza fimetaria</i>
230. <i>Otidea leporina</i> var. <i>minor</i>	283. <i>Peziza gerardii</i>
231. <i>Otidea leporina</i> var. <i>typica</i>	284. <i>Peziza leiocarpa</i>
232. <i>Otidea microscopica</i>	285. <i>Peziza limosa</i>
233. <i>Otidea microspora</i>	286. <i>Peziza melaleuca</i>
234. <i>Otidea onotica</i>	287. <i>Peziza petersii</i>
235. <i>Otidea ptopiniquata</i>	288. <i>Peziza phaeotheca</i>
236. <i>Otidea raineriensis</i>	289. <i>Peziza praetervisa</i>
237. <i>Otidea smithii</i>	290. <i>Peziza proteana</i> var. <i>sparassoides</i>
238. <i>Otidella fulgens</i>	291. <i>Peziza pustulata</i>
239. <i>Pachyella babingtonii</i>	292. <i>Peziza repanda</i>
240. <i>Pachyella clypeata</i>	293. <i>Peziza scutellata</i>
241. <i>Patella albidula</i>	294. <i>Peziza spissa</i>
242. <i>Patella albospatulata</i>	295. <i>Peziza sterigmatizans</i>
243. <i>Patella coprinaria</i>	296. <i>Peziza succosa</i>
244. <i>Patella erinaceus</i>	297. <i>Peziza sylvestris</i>
245. <i>Patella gregaria</i>	298. <i>Peziza trachycarpa</i>
246. <i>Patella hemisphaerica</i>	299. <i>Peziza varia</i>
247. <i>Patella melaloma</i>	300. <i>Peziza venosa</i>
248. <i>Patella nigrella</i>	301. <i>Peziza vesiculosa</i> var. <i>cerealis</i>
249. <i>Patella pulcherrima</i>	302. <i>Peziza vesiculosa</i>
250. <i>Patella scutellata</i>	303. <i>Peziza violacea</i>
251. <i>Patella setosa</i>	304. <i>Piccia carthusiana</i>
252. <i>Patella stercorea</i>	305. <i>Piersonia alveolata</i>
253. <i>Patella theleboloides</i>	

Pezizales, Table 1

306. *Pithya cupressina*
 307. *Pi thya pithya*
 308. **Pithya vulgaris**
 309. *Plectania atahensis*
 310. *Plectania melastoma*
 311. *Plectania milleri*
 312. *Plectania nannfeldtii*
 313. *Plicaria badia*
 314. *Plicaria brunneoatra*
 315. *Plicaria endocarpoides*
 316. *Plicaria leiocarpa*
 317. *Plicaria repanda*
 318. *Plicaria trachycarpa*
 319. *Pseudocollema cartilaginum*
 320. *Pseudoplectania fulgens*
 321. *Pseudoplectania melaina*
 322. *Pseudoplectania nigrella*
 323. *Pseudoplectania vogesiaca*
 324. *Pseudorhizina californica*
 325. *Pseudorhizina sphaerospora*
 326. *Psi llopezia babingtoniae*
 327. *Psi llopezia nummularia*
 328. *Psi llopezia orbicularis*
 329. *Ptychoverpa bohemica*
 330. *Pulvinula archeri*
 331. *Pulvinula carbonaria*
 332. *Pulvinula convexella*
 333. *Pulvinula laeterubra*
 334. *Pulvinula pyrophila*
 335. *Pustularia coronaria*
 336. *Pustularia cupularis*
 337. *Pyronema omphalodes*
 338. *Ramsbottomia asperior*
 339. *Ramsbottomia crec'hqueraultii*
 340. *Rhizina inflata*
341. *Rhizina undulata*
 342. *Rhodoscypha ovilla*
 343. *Saccobolus depauperatus*
 344. *Saccobolus glaber*
 345. *Saccobolus neglectus*
 346. *Saccobolus versicolor*
 347. *Saccobolus violascens*
 348. *Sarcosoma globosum*
 349. *Sarcosoma latihense*
 350. *Sarcosoma mexicanum*
 351. *Sarcosphaera amplissima*
 352. *Sarcosphaera coronaria*
 353. **Sarcosphaera crassa**
 354. *Sarcosphaera eximia*
 355. *Sarcosphaera macrocalyx*
 356. *Scodellina alutacea*
 357. *Scodellina grandis*
 358. *Scodellina leporina*
 359. *Scodellina macrospora*
 360. *Scutellinia abundans*
 361. *Scutellinia coprinaria*
 362. *Scutellinia crinita*
 363. *Scutellinia erinaceus*
364. *Scutellinia scutellata*
 365. **Scutellinia setosa**
 366. *Scutellinia umbrorum*
 367. *Sepultaria arenicola*
 368. *Sepultaria arenosa*
 369. *Smardaea planchoniana*
 370. *Sowerbyella imperialis*
 371. *Sphaerospora hinulea*
372. *Sphaerosporella hinuleae*
 373. *Tarzetta bronca*
 374. *Tarzetta catinus*
375. *Tarzetta cupularis*
 376. *Thecotheus apicalatus*
 377. *Thecotheus cinereus*
 378. *Thecctheus holmskjoldii*
379. *Thecotheus pelletieri*
 380. *Thecorheus setisperma*
 381. *Thelobolus obscurus*
 382. *Thelobolus zukalii*
 383. *Tricharia gilva*
 384. *Tricharia sp. 1*
 385. *Tricharia gilva*
 386. *Tricharia praecox* var.
 intermediā
 387. *Trichobolus zukalii*
 388. *Trichophaea abundans*
 389. *Trichophaea albospatulata*
 390. *Trichophaea boudieri*
 391. *Trichophaea gregaria*
 392. *Trichophaea hybrida*
 393. *Trichophaea pseudogregaria*
 394. *Trichophaea sp.*
 395. *Tuber irritans*
 396. *Tuber rufum*
 397. *Tuber rufum* var. *nitidum*
 398. *Urnula nordmanensis*
 399. *Verpa bohemica*
 400. *Verpa conica*
 401. *Wynnea silvatica*

Table 1A. Special problems--Untraced names and ones likely misspelled

#	Name	Comments
1.	<i>Elvelia mitra</i>	see <i>Helvelia mitra</i> .
2.	<i>Gyromitra caroliniana</i>	The true <i>Gyromitra caroliniana</i> not seen from western North America, name probably mistakenly applied to a taxon in the <i>G. gigas</i> group.
3.	<i>Gyromitra fastigiata</i>	Western specimens with this name in the <i>Gyromitra gigas</i> complex, the type concept is of a different fungus.
4.	<i>Gyromitra gigantea</i>	Not traced as yet. Could it be a mistake for <i>G. gigas</i> ?
5.	<i>Helvelia caroliniana</i>	See <i>Gyromitra caroliniana</i> .
6.	<i>Helvelia mitra</i>	Collections catalogued under this name include <i>H. crispa</i> , <i>H. maculata</i> , <i>H. lacunosa</i> .
7.	<i>Helvelia monachella</i>	More than one taxon bears this name, specimens must be examined.
8.	<i>Helvelia nigrella</i>	Not traced to a name published before the collections identified.
9.	<i>Humaria purpurea</i>	Pfister (1982a) suggests this is a species of <i>Peziza</i> , no other data found.
10.	<i>Mitrophora elata</i>	Not traced as yet.
11.	<i>Morchella costata</i>	Not traced as yet.
12.	<i>Morchella exima</i>	Not traced as yet.
13.	<i>Morchella spongiosa</i>	Not traced as yet.
14.	<i>Neogyromitra caroliniana</i>	See <i>Gyromitra caroliniana</i> .
15.	<i>Neottiella maculosa</i>	Combination unpublished in Paden's thesis, further searches needed.
16.	<i>Pachyella latahensis</i>	Combination unpublished in Paden's thesis, further searches needed.

#	Name	Comments
17.	Patella fimentaria	Not traced as yet.
18.	Patella leucomelas	Not traced as yet.
19.	Patella nigrella	Not traced as yet.
20.	Faxina semitosta	Now Jafnea semitosta; use for CRB material likely a misidentification.
21.	Fezia coccinea	Name published by multiple authors, study of specimens required to figure out which one involved.
22.	Pezia pustulata	Name published by multiple authors, study of specimens required to figure out which one involved.
23.	Fezia umbriana	Multiple synonyms, study of specimens might help.
24.	Psilopezia aquatica	Probably Miladina lechithina, check specimens.
25.	Fustularia coronaria	Not traced as yet, possibly Sarcosphaera coronaria?
26.	Sarcosoma carolinianum	Now synonymized with Wolfina aurantiopsis; use for CRB material likely a misidentification
27.	Scodellina minor	Not traced as yet

Table 2. Names used in report and names found on collections of Columbia River Basin Pezizales

#	Name in report	Name(s) applied to collections
1.	<i>AlEURIA aurantia</i> (Pers. : Fr.) Fuckel	
	AlEURIA aurantia	
	Pezia aurantia	
3.	<i>AlEURIA rhenana</i> Fuckel	
	AlEURIA rhenana	
4.	<i>Anthracobia macrocystis</i> (Cooke) Boud.	
	Anthracobia macrocystis	
5.	<i>Anthracobia melaloma</i> (Alb. & Schwein. : Fr.) Arnould	
	Anthracobia melaloma	
	<i>Humaria melaloma</i>	
	<i>Lachnea melaloma</i>	
	<i>Patella melaloma</i>	
9.	<i>Ascobolus carbonarius</i> P. Karst.	
	Ascobolus carbonarius	
10.	<i>Ascobolus crenulatus</i> P. Karst.	
	Ascobolus viridulus	
11.	<i>Ascobolus furfuraceus</i> Pers. : Fr.	
	Ascobolus furfuraceus	
	Ascobolus stercorarius	
13.	<i>Ascobolus geophilus</i> Seaver	
	Ascobolus geophilus	
14.	<i>Ascobolus immersus</i> Fers. : Fr.	
	Ascobolus immersus	
15.	<i>Balsamia platyspora</i> Berk.	
	Balsamia platyspora	
16.	<i>Balsamia vulgaris</i> Vittad.	
	Balsamia vulgaris	
17.	<i>Barssia oregonensis</i> Gilkey	
	Barssia oregonensis	
18.	<i>Byssonectria cartilaginea</i> (Kanouse & A.H. Sm.) D. Ffister	
	<i>Pseudocollema cartilagineum</i>	
19.	<i>Caloscypha fulgens</i> (Pers. : Fr.) Boud.	
	Caloscypha fulgens	

- Lamprospora fulgens*
Otidea onotica
Otidella fulgens
Pseudoplectania fulgens
24. *Cheilymenia coprinaria* (Cooke) Boud.
Cheilymenia coprinaria
Patella coprinaria
Scutellinia coprinaria
27. *Cheilymenia crucipila* (Cooke & W. Phillips in Cooke) Le Gal
Cheilymenia crucipila
28. *Cheilymenia fimicola* (De Not. & Bagl.) Dennis
Cheilymenia fimicola
29. *Cheilymenia pulcherima* (H. Crouan & P. Crouan) Boud.
Lasiobolus pulcherimus
Patella pulcherima
31. *Cheilymenia stercorea* (Fers. : Fr.) Boud.
Cheilymenia stercorea
Humaria stercorea
Lachnea stercorea
Patella stercorea
35. *Cheilymenia theleboloides* (Alb. & Schwei n. : Fr.) Boud.
Cheilymenia theleboloides
Humaria thelebo loides
Patella theleboloides
38. *Chloromyces alveolatus* (Harkn.) Trappe
Piersonia alveolata
Piersonia alveolata
40. *Coprobia granulata* Boud.
Ascophanus granulatus
Coprobia granulata
42. *Coprotus granuliformis* (H. Crouan & P. Crouan) Kimbr.
Ascophanus argenteus
Ascophanus granuliformis
44. *Coprotus ochraceus* (H. Crouan & P. Crouan) Kar. Larsen
Ascophanus ochraceus
45. *Discina apicalata* McKnight
Discina apicalata
Gyromitra apicalata
47. *Discina leucoxantha* Bres.
Discina leucoxantha

48. *Di sci na ol ympi ana* Kanouse
Di sci na olympi ana
49. *Di sci na olympi ana var. diluta McKnight*
Di sci na olympi ana var. diluta
50. *Di sci na olympi ana var. olympi ana* Kanouse
Di sci na olympi ana var. olympi ana
51. *Di sci na perlata* (Fr. : Fr.) Fr.
Di sci na ancilis
Di sci na perlata
Gyromitra f 1 uctuans
Gyromitra tra perlata
55. *Di sci otis venosa* (Pers. : Ft.) Arnauld
Di sci oti s venosa
Pezi za venosa
57. *El aphomyces granulatus* Fr.
El aphomyces granulatus
58. *El aphomyces granulatus var. asperulus* Fr.
El aphomyces granulatus var. asperulus
59. *El aphomyces muri catus* Fr. : Fr.
El aphomyces muri catus
60. *El aphomyces subviscidus* (Zeller) Trappe 8 Guzman
El aphomyces subviscidus
61. *Fi maria hepatica* (Batsch) Brumm.
Humaria hepatica
62. *Genabea cerebri formis* (Harkn.) Trappe
Genabea cerebri formis
Genea cerebri formis
64. *Genea intermedi a* Gi 1 key
Genea intermedi a
65. *Geopora arenosa* (Fuckel) Ahmad
Sepul tari a arenosa
66. *Geopora cooperi* Harkn.
Geopora cooperi
67. *Geopora cooperi f. cooperi* Harkn.
Geopora cooperi f. cooperi
Geopora cooperi var. cooperi
69. *Geopora cooperi f. gilkeyae* Burds.
Geopora cooperi f. gi lkeyae

70. *Geopora sepulta* (Fr.) Korf 8 Burds. in Burds.
Sepultaria arenicola
Sepultaria arenicola
72. *Geopyxis carbonaria* (Alb. & Schwein. : Fr.) Sacc.
Geopyxis carbonaria
Pezia carbonaria
74. *Geopyxis vulcanalis* (Peck) Sacc.
Geopyxis vulcanalis
75. *Gyromitra ambigua* (P. Karst.) Harmaja
Gyromitra ambi gua
76. *Gyromitra esculenta* (Pers. : Fr.) Fr.
Gyromitra esculenta
Helvella esculenta
Helvella infula
79. *Gyromitra gigas* (Krombholz) Quél.
Gyromitra curtipes
Gyromitra gigas
Gyromitra korfii
Helvella carolini ana
Helvella gigas
Helvella infula
Maubl ancomyces gigas
Neogyromitra gigas
87. *Gyromitra infula* (Schaeff. : Fr.) Quél.
Elvelia infula
Gyromitra infula
Helvella infula
Helvella infula var. typica
91. *Gyromitra melaleuca* (Seaver) Ffister
Disciotis venosa
Gyromitra melaleuca
Helvella californica
Helvella melaleuca
Helvella recurvum
Pezia melaleuca
97. *Gyromitra montana* Harmaja
Gyromitra gigas
Gyromitra montana
Helvella carolini ana
Helvella gigas
101. *Helvella acetabulum* (L. : Fr.) Quél.
Acetabula sulcata
Helvella acetabulum
Paxina acetabulum

104. *Helvelia albellula* Quél.
 Helvelia albellula
 Helvelia elastica
106. *Helvelia albibipes* Fuckel
 Helvelia albibipes
107. *Helvelia atra* Holmskj. : Fr.
 Helvelia atra
108. *Helvelia chilensis* (Velen.) Nanni. & L. Holm
 Helvelia villosa
 Macropodia macropus
 Paxina hispida
111. *Helvelia compressa* (Snyder) N. S. Weber
 Helvelia elastica
 Helvelia klotzschiana
 Paxina compressa
114. *Helvelia corium* (O. Weberb.) Massee
 Helvelia corium
 Macropodia corium
 Paxina corium
117. *Helvelia costifera* Nanni.
 Helvelia costifera
118. *Helvelia crassitunicata* N. S. Weber
 Helvelia crassitunicata
 Paxina sulcata
120. *Helvelia crispa* Scop. : Fr. .
 Elvelia crispa
 Elvelia mitra
 Helvelia crispa
123. *Helvelia cupuliformis* Diss. & Nannf.
 Helvelia cupuliformis
124. *Helvelia elastica* Bull. : Fr.
 Elvelia elastica
 Helvelia adhaerens
 Helvelia elastica
 Helvelia klotzschiana
 Helvelia pezizoides
129. *Helvelia griseoalba* N. S. Weber
 Helvelia griseoalba
130. *Helvelia lacunosa* Afzel. : Fr.
 Elvelia lacunosa
 Helvelia lacunosa

- Helvella mitra*
Helvella sulcata
134. *Helvella latispora* Boud.
Helvella stevensii
135. *Helvella leucomelaena* (Pers.) Nannf. in S. Lundell 8 Nannf.
Acetabula leucomelas
Helvella leucomelaena
Helvella leucomelas
Paxina acetabulum
Paxina leucomelas
140. *Helvella leucopus* Pers.
Helvelia leucopus
141. *Helvella macropus* (Pers. : Fr.) P. Karst..
Helvella macropus
Macropodia macropus
Paxina hispida
Paxina subclavipes
145. *Helvella macropus* var. *macropus* (Pers. : Fr.) P. Karst..
Helvella macropus var. *macropus*
Macropodia macropus
147. *Helvella maculata* N. S. Weber
Helvelia criolla
Helvella maculata
149. *Helvella solitaria* (P. Karst.) P. Karst.
Helvella mitra
Helvella platypodiata
Helvella queletii
Helvella solitaria
Paxina platypodiata
Paxina sulcata
155. *Helvella stevensii* Peck
Helvella stevensii
156. *Helvella sulcata* Afzel. : Fr.
Helvella sulcata
157. *Humaria hemispherica* (Wigg. : Fr.) Fuckel
Humaria hemispherica
Lachnea hemispherica
Patella hemispherica
160. *Humaria hemispherica?* (Wigg. : Fr.) Fuckel
Patella albidula
161. *Hydnomyces cerebriformis* Harkn.

Hydnotrya cerebri formis

162. Hydnotrya michaelis (E. Fisch.) Trappe
Hydnotrya michaelis
163. Hydnotrya variiformis Gilkey
Hydnotrya variiformis
164. Iodophanus carneus (Pers. : Fr.) Korf
Ascophanus carneus
Iodophanus carneus
166. Iodophanus testaceus (Moug. in Fr.) Korf in Kimbr. 8 Korf
Humaria testacea
167. Lamprospora spinulosa Seaver
Lamprospora spinulosa
168. Lamprospora tuberculatella Seaver
Lamprospora tuberculatella
169. Lasiobolus cuniculi Velen.
Lasiobolus cuniculi
170. Lasiobolus intermedius Bezerra & Kimbr.
Lasiobolus intermedius
171. Lasiobolus lasioboloides March.
Lasiobolus lasioboloides
172. Lasiobolus macrotrichus Rea
Lasiobolus longisetosus
Lasiobolus macrotrichus
174. Lasiobolus papillatus (Pers. : Fr.) Sacc.
Lasiobolus ciliatus
Lasiobolus equinus
Lasiobolus pilosus
177. Lasiobolus ruber' (Qué1.) Sacc.
Lasiobolus ruber
178. Melastiza chateri (W. G. Sm.) Boud.
Melastiza chateri
179. Morchella angusticeps Peck
Morchella angusticeps
180. Morchella conica Fers.
Morchella conica
Morchella costata
182. Morchella crassipes (Vent. : Fr.) Pets.

Morchella crassipes

183. *Morchella crassistipa* Snyder
Morchella crassistipa
184. *Morchella deliciosa* Fr. : Fr.
Morchella deliciosa
185. *Morchella elata* Fr. : Fr.
Morchella elata
186. *Morchella elata* var. *purpurascens* Krombh.
Morchella elata var. *purpurascens*
187. *Morchella esculenta* (L. : Fr.) Pers.
Morchella esculenta
188. *Morchella hotsonii* Snyder
Morchella hotsonii
189. *Morchella rielana* Boud.
Morchella rielana
190. *Morchella semilibera* DC : Fr.
Mi trophora semi libera
Morchella hybrida
Morchella semi libera
193. *Morchella spongiosa* Boud.
Morchella spongiosa
194. *Nannfeldtia el. la aggregata* Eckblad
Nannfeldtia el. la aggregata
195. *Neottiella aphanodictyon* (Kobayasi) Dissing, Korf & Silvertsen
Neottiella aphanodictyon
196. *Neottiella rutilans* (Fr. : Fr.) Dennis
Leucoscypha rutilans
197. *Neournula pouchetii* (Berthet & Riousset) Paden
Neournula nordmanensis
Neournula pouchetii
Urnula nordmanensis
200. *Octospora coccinea* (H. Crouan & P. Crouan) Brumm.
Humaria coccinea
201. *Octospora leucoleoma* Hedw. : Fr.
Humaria granulosa
Humaria leucoleoma
Octospora leucoleoma

204. *Octospora rubens* (Boud.) Moser in Gams
 Humari a ***rubens***
 Humari na ***rubens***
 Octospora rubens
207. *Octospora semiimmersa* (P. Karst.) Khare & Twari
 Humari a semi i mmersa
 Humarina semiimmersa
209. *Otidea alutacea* (Pers. : Fr.) Massee
 Oti dea al utacea
 Scodel lina al utacea
211. *Otidea alutacea* var. ***alutacea*** (Pers. : Fr.) Massee
 Oti dea alutacea var. alutacea
 Oti dea alutacea var. ***typica***
 Dtidea mi crospora
214. *Otidea alutacea* var. ***microspora*** Kanouse
 Oti dea alutacea var. microspora
215. *Otidea cantharella* (Ft. : Fr.) **Sacc.**
 Otidea cantharella
216. *Otidea cantharella* var. ***minor*** Baud.
 Oti dea cantharell a var. minor
217. *Otidea concinna* (Pers. : Fr.) **Sacc.**
 Oti dea concinna
218. *Otidea grandis* (Pers.) Arnauld
 Oti dea ***grandis***
 Scodel lina ***grandis***
220. *Otidea leporina* (Batsch : Fr.) **Fuckel**
 Oti dea leporina
 Scodel lina leporina
222. *Otidea leporina* var. *leporina* (Batsch : Fr.) Fuckel
 Oti dea leporina var. ***typica***
223. *Otidea leporina* var. ***minor*** (Rehm) **Sacc.**
 Oti dea leporina var. minor
 Otidea leporina var. minor
225. *Otidea microspora* (Kanouse) Harmaja
 Scodel lina microspora
226. *Otidea onotica* (Pers. : Fr.) Fuckel
 Oti dea onotica
227. *Otidea propinquata* (P. Karst.) Harmaja
 Oti dea abi etina

- Peziza abietina
229. *Otidea rainierensis* Kanouse
Otidea rainierensis
230. *Otidea smithii* Kanouse
Otidea smithii
231. *Pachyella babingtonii* (Berk. & Broome) Boud.
Pachyella babingtonii
Psilopezia babingtonii
233. *Pachyella clypeata* (Schwein. : Fr.) Le Gal
Peziza clypeata
Psilopezia orbicularis
235. *Peziza ammophila* Durieu & Mont.
Peziza ammophila
236. *Peziza ampliata* Pers. : Fr.
Peziza ampliata
237. *Peziza apiculata* Cooke
Discina apiculata
238. *Peziza arvernensis* Boud.
Peziza sylvestris
239. *Peziza atrovinosa* Cooke
Aleurina atrovinosa
240. *Peziza badia* Pers. : Fr.
Peziza badia
Plicaria badia
242. *Peziza badioconfusa* Korf
Peziza badioconfusa
243. *Peziza brunneoatra* Desm.
Peziza brunneoatra
Plicaria brunneoatra
245. *Peziza cerea* Bull. : Fr.
Peziza cerea
Peziza vesciculosa var. *cerea*
247. *Peziza domiciliana* Cooke
Peziza adae
Peziza domiciliana
249. *Peziza echinospora* P. Karst.
Peziza echinospora

250. Pezia emileia Cooke
 Pezia emileia
251. Pezia fimetii (Fuckel) Seaver
 Pezia fimetii
252. Pezia gerardii Cooke and W. R. Gerard
Humaria gerardi
253. Pezia limosa (Grélet) Nannf. in S. Lundell 8 Nannf.
 Pezia limosa
254. Pezia petersii Berk. 8 M.A. Curtis in Berk.
 Pez **za** petersii
255. Pezia phaeotheca McKnight & Dublin
 Pez za phaeotheca
256. Pezia praetervisa Bres.
 Pezia praetervisa
 Pezia violacea
258. Pezia **proteana** var. sparassoides (Boud.) E. J. Durand
 Dal eomyces philippii
259. Pezia repanda Pers. : Fr.
 Pezia repanda
 Placaria repanda
- 261.** Pezia spissa Berk.
 Pezia spissa
262. Pezia sterigmatizans W. Phillips in Cooke
 Pezia sterigmatizans
263. Pezia succosa Berk.
 Pezia succosa
264. Pezia **varia** (Hedw.) Fr.
 Pezia varia
265. Pezia vesiculosa Bull. : Fr.
 Pezia vesiculosa
266. Pezia violacea Pers. : Fr.
 Pezia violacea
 Pezia violacea
268. Picoa carthusiana Tul. & C. Tul.
 Picoa carthusiana
269. **Pithya** cupressina (Fr.) Fuckel
Pithya cupressina

270. *Pithya vulgaris* Fuckel
Pithya pithya
Pithya vulgaris
272. *Plectania melastoma* (Sowerby : Fr.) Fuckel
Bulgaria melastoma
Plectania melastoma
274. *Plectania milleri* Paden & Tyutki
Paxina semitosta
Plectania milleri
276. *Plectania nannfeldtii* Korf
Helvelia nigrella
Patella nigrella
Paxina nigrella
Plectania nannfeldtii
280. *Plicaria endocarpoi des* (Berk.) Rifai
Lamprospora leiocarpa
Peziza leiocarpa
Plicaria leiocarpa
283. *Plicaria trachycarpoides* (Carr.) Boud.
Peziza trachycarpa
284. *Pseudoplectania melaena* (Pers. : Fr.) Sacc.
Pseudoplectania melaena
Pseudoplectania vogesiaca
286. *Pseudoplectania nigrella* (Pers. : Fr.) Fuckel
Pseudoplectania nigrella
287. *Pseudorhizina californica* (W. Phillips) Harmaja
Elvella californica
Gyromitra californica
Helvelia brevissima
Helvelia californica
Helvelia umbraculiformis
292. *Pseudorhizina sphaerospora* (Peck) Pouzar
Helvelia sphaerospora
293. *Psi l opezia nummularia* Berk.
Psi l opezia nummularia
294. *Pulvinula archeri* (Berk. in Hooker) Rifai
Lamprospora pyrophila
Pulvinula pyrophila
296. *Pulvinula carbonaria* (Fuckel) Boud.
Lamprospora carbonaria
Pulvinula carbonaria

298. *Pulvinula convexella* (P. Karst.) Pfister
Lamprospora constellatio
Lamprospora haemastigma
Pustularia coronaria
301. *Pulvinula aeterubra* (Rehm) Pfister
Lamprospora wisconsinensis
302. *Pyronema omphalodes* (Bull. : Fr.) Fuckel
Pyronema omphalodes
303. *Ramsbottomia asperior* (Nyl.) Benkert & T. Schumach.
Ramsbottomia asperior
304. *Ramsbottomia crec'hqueraultii* (Cr.) Benkert & T. Schumach.
Lamprospora crec'hqueraultii
305. *Rhizina undulata* Fr. : Fr.
Disca perlata
Rhizina inflata
Rhizina undulata
308. *Rhodoscypha ovilla* (Peck) Dissing & Sivertsen
Leucoscypha ovilla
309. *Saccobolus depauperatus* (Berk. & Broome) E. C. Hansen
Saccobolus depauperatus
Saccobolus neglectus
311. *Saccobolus glaber* Pers. : Fr.
Saccobolus glaber
312. *Saccobolus versicolor* (P. Karst.) P. Karst.
Saccobolus versicolor
Saccobolus versicolor
314. *Saccobolus violascens* Boud.
Saccobolus violascens
315. *Sarcosoma globosum* (Fr.) Casp. in Rehm
Bulgaria globosa
Sarcosoma globosa
317. *Sarcosoma latahense* Paden & Tyutki
Bulgaria globosa
Plectania latahensis
Sarcosoma latahensis
320. *Sarcosoma mexicanum* (Ellis & Holway in Holway) Paden & Tyutki
Bulgaria globosa
Bulgaria mexicana
Sarcosoma mexicana

323. *Sarcosphaera coronaria* (Jacq.) J. Schröt.
Caulocarpa montana
Pustularia coronaria
Sarcosphaera amplissima
Sarcosphaera coronaria
Sarcosphaera crassa
Sarcosphaera eximia
Sarcosphaera macrocalyx
330. *Scutellinia crinita* (Bull. : Fr.) Lambotte
Scutellinia crinita
331. *Scutellinia erinaceus* (Schwein. : Fr.) Kuntze
Humaria erinaceus
Lachnea erinaceus
Patella erinaceus
334. *Scutellinia scutellata* (L. : Fr.) Lambotte
Humaria scutellata
Lachnea scutellata
Patella scutellata
Peziza scutellata
Scutellinia scutellata
339. *Scutellinia setosa* (Nees : Fr.) O. Kuntze
Lachnea setosa
Patella setosa
341. *Scutellinia umbrorum* (Fr.) Lambotte
Humaria umbrorum
342. *Smardaea planchonis* (Dunal ex Eoud.) R. P. Korf 8 W.-y. Zhuang
Lamprospora planchonis
343. *Sowerbyella imperialis?* Peck
Sowerbyella imperialis
344. *Sphaerospora hinnulea* (Berk. & Broome) Rifai
Sphaerospora hinnulea
345. *Tarzetta bronca* (Peck) Korf & Rogers
Tarzetta bronca
346. *Tarzetta catinus* (Holmsk. : Fr.) Korf & J. K. Rogers
Peziza pustulata
347. *Tarzetta cupularis* (L. : Fr.) Lambotte
Geopyxis cupularis
Peziza cupularis
Pustularia cupularis
350. *Thecotheus apicalatus* Kimbr.
Thecotheus apicalatus

351. *Thecotheus cinereus* (H. Crouan & P. Crouan) Chenant.
Thecotheus holmskjoldii
Thecotheus setisperma
353. *Thecotheus pelletieri* (H. Crouan & P. Crouan) Boud.
Thecotheus pelletieri
354. *Thelobolus obscurus* (Seaver) Eckblad
Thelobolus obscurus
355. *Tricharina gilva* (Boud. in Cooke) Eckblad
Tricharina gilva
356. *Tricharina praecox* var. *intermedia* Egger, Chin S. Yang, & Korf
Tricharina sp. 1
357. *Trichobolus zukalii* (Heimerl) Kimbr.
Thelobolus zukalii
358. *Trichophaea abundans* (P. Karst.) Boud.
Humaria abundans
Lachnea abundans
Scutellinia abundans
361. *Trichophaea albospadicea* (Grev.) Boud.
Humaria *albospadicea*
Lachnea albospadicea
Pateilia albospadicea
364. *Trichophaea boudieri* Grélet
Trichophaea boudieri
365. *Trichophaea hybrida* (Sowerby) T. Schumach.
Humaria gregaria
Pateilia gregaria
Trichophaea gregaria
368. *Trichophaea pseudogregaria* (Ricker) Boud.
Trichophaea pseudogregaria
369. *Trichophaea sp.*
Lachnea flavo-brunnea
370. *Tuber irritans* Gilkey
Tuber irritans
371. *Tuber rufum* Pico : Fr.
Tuber rufum
372. *Tuber rufum* var. *nitidum* (Vittad.) Fischer
Tuber rufum var. *nitidum*
373. *Verpa bohemica* (Krombh.) Schrot.

Morchella bispora
Ptychoverpa bohemica
. Verpa bohemica

376. *Verpa conica* (Müll. : Fr.) Swartz
Verpa conica

377. *Wynneella silvicola* (Beck in Sacc.) Nannf.
Helvelia silvicola
Otidia auricula
Wynneella silvicola

Table 3. Concordance of names applied to collections and corresponding name used in report

#	Name on collection(s)	Name used in report
1.	<i>Aleuria aurantia</i>	<i>Aleuria aurantia</i>
2.	<i>Peziza aurantia</i>	<i>Aleuria aurantia</i>
3.	<i>Aleuria rhenana</i>	<i>Aleuria rhenana</i>
4.	<i>Anthracobia macrocystis</i>	<i>Anthracobia macrocystis</i>
5.	<i>Anthracobia melaloma</i>	<i>Anthracobia melaloma</i>
6.	<i>Humaria melaloma</i>	<i>Anthracobia melaloma</i>
7.	<i>Lachnea melaloma</i>	<i>Anthracobia melaloma</i>
8.	<i>Patella melaloma</i>	<i>Anthracobia melaloma</i>
9.	<i>Ascobolus carbonarius</i>	<i>Ascobolus carbonarius</i>
10.	<i>Ascobolus viridulus</i>	<i>Ascobolus crenulatus</i>
11.	<i>Ascobolus furfuraceus</i>	<i>Ascobolus furfuraceus</i>
12.	<i>Ascobolus stercorarius</i>	<i>Ascobolus furfuraceus</i>
13.	<i>Ascobolus geophilus</i>	<i>Ascobolus geophilus</i>
14.	<i>Ascobolus immersus</i>	<i>Ascobolus immersus</i>
15.	<i>Balsamia platyspora</i>	<i>Balsamia platyspora</i>
16.	<i>Balsamia vulgaris</i>	<i>Balsamia vulgaris</i>
17.	<i>Barssia oregonensis</i>	<i>Barssia oregonensis</i>
18.	<i>Pseudocollema cartilagineum</i>	<i>Byssonectria cartilaginea</i>
19.	<i>Caloscypha fulgens</i>	<i>Caloscypha fulgens</i>
20.	<i>Lamprospora fulgens</i>	<i>Caloscypha fulgens</i>
21.	<i>Otidea onotica</i>	<i>Caloscypha fulgens</i>
22.	<i>Otidella fulgens</i>	<i>Caloscypha fulgens</i>
23.	<i>Pseudoplectania fulgens</i>	<i>Caloscypha fulgens</i>
24.	<i>Cheilymenia coprinaria</i>	<i>Cheilymenia coprinaria</i>
25.	<i>Patella coprinaria</i>	<i>Cheilymenia coprinaria</i>
26.	<i>Scutellinia coprinaria</i>	<i>Cheilymenia coprinaria</i>
27.	<i>Cheilymenia crucipila</i>	<i>Cheilymenia crucipila</i>
28.	<i>Cheilymenia fimicola</i>	<i>Cheilymenia fimicola</i>
29.	<i>Lasiobolus pulcherrimus</i>	<i>Cheilymenia pulcherrima, a complex</i>
30.	<i>Patella pulcherrima</i>	<i>Cheilymenia pulcherrima, a complex</i>
31.	<i>Cheilymenia stercorea</i>	<i>Cheilymenia stercorea</i>
32.	<i>Humaria stercorea</i>	<i>Cheilymenia stercorea</i>
33.	<i>Lachnea stercorea</i>	<i>Cheilymenia stercorea</i>
34.	<i>Patella stercorea</i>	<i>Cheilymenia stercorea</i>
35.	<i>Cheilymenia theleboloides</i>	<i>Cheilymenia theleboloides</i>
36.	<i>Humaria theleboloides</i>	<i>Cheilymenia theleboloides</i>
37.	<i>Patella theleboloides</i>	<i>Cheilymenia theleboloides</i>
38.	<i>Piersonia alveolata</i>	<i>Choiromyces alveolatus</i>
39.	<i>Piersonia alveolata</i>	<i>Choiromyces alveolatus</i>
40.	<i>Ascophanus granulatus</i>	<i>Coprobia granulata</i>
41.	<i>Coprobia granulata</i>	<i>Coprobia granulata</i>
42.	<i>Ascophanus argenteus</i>	<i>Coprotus granuliformis</i>
43.	<i>Ascophanus granuliformis</i>	<i>Coprotus granuliformis</i>
44.	<i>Ascophanus ochraceus</i>	<i>Coprotus ochraceus</i>
45.	<i>Discina apiculatula</i>	<i>Discina apiculatula</i>
46.	<i>Gyromitra apiculatula</i>	<i>Discina apiculatula</i>
47.	<i>Discina leucoxantha</i>	<i>Discina leucoxantha</i>
48.	<i>Discina olympiana</i>	<i>Discina olympiana</i>

#	Name on collection(s)	Name used in report
49.	<i>Discina olympiana</i> var. <i>diluta</i>	<i>Discina olympiana</i> var. <i>diluta</i>
50.	<i>Discina olympiana</i> var. <i>olympiana</i>	<i>Discina olympiana</i> var. <i>olympiana</i>
51.	<i>Discina ancil</i>	<i>Discina perlata</i>
52.	<i>Discina perla</i>	<i>Discina perlata</i>
53.	<i>Gyromitra flucans</i>	<i>Discina perlata</i>
54.	<i>Gyromitra perlata</i>	<i>Discina perlata</i>
55.	<i>Disciotis venosa</i>	<i>Disciotis venosa</i>
56.	<i>Peziza venosa</i>	<i>Disciotis venosa</i>
57.	<i>Elaphomyces granulatus</i>	<i>Elaphomyces granulatus</i>
58.	<i>Elaphomyces granulatus</i> var. <i>asperulus</i>	<i>Elaphomyces granulatus</i> var. <i>asperulus</i>
59.	<i>Elaphomyces muricatus</i>	<i>Elaphomyces muricatus</i>
60.	<i>Elaphomyces subviscidus</i>	<i>Elaphomyces subviscidus</i>
61.	<i>Humaria hepatica</i>	<i>Fimaria hepatica</i>
62.	<i>Genabea cerebriformis</i>	<i>Genabea cerebriformis</i>
63.	<i>Genea cerebriformis</i>	<i>Genabea cerebriformis</i>
64.	<i>Genea intermedia</i>	<i>Genea intermedia</i>
65.	<i>Sepultaria arenosa</i>	<i>Geopora arenosa</i>
66.	<i>Geopora cooperi</i>	<i>Geopora cooperi</i>
67.	<i>Geopora cooperi</i> f. <i>cooperi</i>	<i>Geopora cooperi</i> f. <i>cooperi</i>
68.	<i>Geopora cooperi</i> var. <i>cooperi</i>	<i>Geopora cooperi</i> f. <i>cooperi</i>
69.	<i>Geopora cooperi</i> f. <i>gilkeyae</i>	<i>Geopora cooperi</i> f. <i>gilkeyae</i>
70.	<i>Sepultaria arenicola</i>	<i>Geopora sepulta</i>
71.	<i>Sepultaria arenicola</i>	<i>Geopora sepulta</i>
72.	<i>Geopyxis carbonaria</i>	<i>Geopyxis carbonaria</i>
73.	<i>Peziza carbonaria</i>	<i>Geopyxis carbonaria</i>
74.	<i>Geopyxis vulcanalis</i>	<i>Geopyxis vulcanalis</i>
75.	<i>Gyromitra ambigua</i>	<i>Gyromitra ambigua</i>
76.	<i>Gyromitra esculenta</i>	<i>Gyromitra esculenta</i>
77.	<i>Helvella esculenta</i>	<i>Gyromitra esculenta</i>
78.	<i>Helvella infula</i>	<i>Gyromitra esculenta</i>
79.	<i>Gyromitra curtipes</i>	<i>Gyromitra gigas</i>
80.	<i>Gyromitra gigas</i>	<i>Gyromitra gigas</i>
81.	<i>Gyromitra korfii</i>	<i>Gyromitra gigas</i>
82.	<i>Helvella caroliniana</i>	<i>Gyromitra gigas</i>
83.	<i>Helvella gigas</i>	<i>Gyromitra gigas</i>
84.	<i>Helvella infula</i>	<i>Gyromitra gigas</i>
85.	<i>Maublancomyces gigas</i>	<i>Gyromitra gigas</i>
86.	<i>Neogymnmitra gigas</i>	<i>Gyromitra gigas</i>
87.	<i>Elvelia infula</i>	<i>Gyromitra infula</i>
88.	<i>Gyromitra infula</i>	<i>Gyromitra infula</i>
89.	<i>Helvella infula</i>	<i>Gyromitra infula</i>
90.	<i>Helvella infula</i> var. <i>typica</i>	<i>Gyromitra infula</i>
91.	<i>Disciotis venosa</i>	<i>Gyromitra melaleuroides</i>
92.	<i>Gyromitra melaleuroides</i>	<i>Gyromitra melaleuroides</i>
93.	<i>Helvella californica</i>	<i>Gyromitra melaleuroides</i>
94.	<i>Helvella melaleuroides</i>	<i>Gyromitra melaleuroides</i>
95.	<i>Helvella recurvum</i>	<i>Gyromitra melaleuroides</i>
96.	<i>Peziza melaleuroides</i>	<i>Gyromitra melaleuroides</i>
97.	<i>Gyromitra gigas</i>	<i>Gyromitra montana</i>

#	Name on collection(s)	Name used in report
98.	<i>Gyromitra montana</i>	<i>Gyromitra montana</i>
99.	<i>Helvella caroliniana</i>	<i>Gyromitra montana</i>
100.	<i>Helvella gigas</i>	<i>Gyromitra montana</i>
101.	<i>Acetabula sulcata</i>	<i>Helvella acetabulum</i>
102.	<i>Helvella acetabulum</i>	<i>Helvella acetabulum</i>
103.	<i>Paxina acetabulum</i>	<i>Helvella acetabulum</i>
104.	<i>Helvella albella</i>	<i>Helvella albella</i>
105.	<i>Helvella elastica</i>	<i>Helvella albella</i>
106.	<i>Helvella albipes</i>	<i>Helvella albipes</i>
107.	<i>Helvella atra</i>	<i>Helvella atra</i>
108.	<i>Helvella villosa</i>	<i>Helvella chinensis</i>
109.	<i>Macropodia macropus</i>	<i>Helvella chinensis</i>
110.	<i>Paxina hispida</i>	<i>Helvella chinensis</i>
111.	<i>Helvella elastica</i>	<i>Helvella compressa</i>
112.	<i>Helvella klotzschiana</i>	<i>Helvella compressa</i>
113.	<i>Paxina compressa</i>	<i>Helvella compressa</i>
114.	<i>Helvella corium</i>	<i>Helvella corium</i>
115.	<i>Macropodia corium</i>	<i>Helvella corium</i>
116.	<i>Paxina corium</i>	<i>Helvella corium</i>
117.	<i>Helvella costifera</i>	<i>Helvella costifera</i>
118.	<i>Helvella crassitunicata</i>	<i>Helvella crassitunicata</i>
119.	<i>Paxina sulcata</i>	<i>Helvella crassitunicata</i>
120.	<i>Elvela crispa</i>	<i>Helvella crispa</i>
121.	<i>Elvela mitra</i>	<i>Helvella crispa</i>
122.	<i>Helvella crispa</i>	<i>Helvella crispa</i>
123.	<i>Helvella cupuliformis</i>	<i>Helvella cupuliformis</i>
124.	<i>Elvela elastica</i>	<i>Helvella elastica</i>
125.	<i>Helvella adhaerens</i>	<i>Helvella elastica</i>
126.	<i>Helvella elastica</i>	<i>Helvella elastica</i>
127.	<i>Helvella klotzschiana</i>	<i>Helvella elastica</i>
128.	<i>Helvella pezizoides</i>	<i>Helvella elastica</i>
129.	<i>Helvella griseoalba</i>	<i>Helvella griseoalba</i>
130.	<i>Elvela lacunosa</i>	<i>Helvella lacunosa</i>
131.	<i>Helvella lacunosa</i>	<i>Helvella lacunosa</i>
132.	<i>Helvella mitra</i>	<i>Helvella lacunosa</i>
133.	<i>Helvella sulcata</i>	<i>Helvella lacunosa</i>
134.	<i>Helvella stevensii</i>	<i>Helvella latispora</i>
135.	<i>Acetabula leucomelas</i>	<i>Helvella leucomelaena</i>
136.	<i>Helvella leucomelaena</i>	<i>Helvella leucomelaena</i>
137.	<i>Helvella leucomelas</i>	<i>Helvella leucomelaena</i>
138.	<i>Paxina acetabulum</i>	<i>Helvella leucomelaena</i>
139.	<i>Paxina leucomelas</i>	<i>Helvella leucomelaena</i>
140.	<i>Helvella leucopus</i>	<i>Helvella leucomelaena</i>
141.	<i>Helvella macropus</i>	<i>Helvella leucomelaena</i>
142.	<i>Macropodia macropus</i>	<i>Helvella macropus</i>
143.	<i>Paxina hispida</i>	<i>Helvella macropus</i>
144.	<i>Paxina subclavipes</i>	<i>Helvella macropus</i>
145.	<i>Helvella macropus</i> var. <i>macropus</i>	<i>Helvella macropus</i> var. <i>macropus</i>
146.	<i>Macropodia macropus</i>	<i>Helvella macropus</i> var. <i>macropus</i>
147.	<i>Helvella crispa</i>	<i>Helvella maculata</i>

#	Name on collection(s)	Name used in report
148.	<i>Helvella maculata</i>	<i>Helvella maculata</i>
149.	<i>Helvella mitra</i>	<i>Helvella solitaria</i>
150.	<i>Helvella platypodia</i>	<i>Helvella solitaria</i>
151.	<i>Helvella queletii</i>	<i>Helvella solitaria</i>
152.	<i>Helvella solitaria</i>	<i>Helvella solitaria</i>
153.	<i>Paxina platypodia</i>	<i>Helvella solitaria</i>
154.	<i>Paxina sulcata</i>	<i>Helvella solitaria</i>
155.	<i>Helvella stevensii</i>	<i>Helvella stevensii</i>
156.	<i>Helvella sulcata</i>	<i>Helvella sulcata</i>
157.	<i>Humaria hemispherica</i>	<i>Humaria hemispherica</i>
158.	<i>Lachnea hemispherica</i>	<i>Humaria hemispherica</i>
159.	<i>Patella hemispherica</i>	<i>Humaria hemispherica</i>
160.	<i>Patella albida</i>	<i>Humaria hemispherica</i>
161.	<i>Hydnnotrya cerebriformis</i>	<i>Hydnnotrya cerebriformis</i>
162.	<i>Hydnnotrya michaelis</i>	<i>Hydnnotrya michaelis</i>
163.	<i>Hydnnotrya variiformis</i>	<i>Hydnnotrya variiformis</i>
164.	<i>Ascophanus carneus</i>	<i>Iodophanus carneus</i>
165.	<i>Iodophanus carneus</i>	<i>Iodophanus carneus</i>
166.	<i>Humaria testacea</i>	<i>Iodophanus testaceus</i>
167.	<i>Lamprospora spinulosa</i>	<i>Lamprospora spinulosa</i>
168.	<i>Lamprospora tuberculatella</i>	<i>Lamprospora tuberculatella</i>
169.	<i>Lasiobolus cuniculi</i>	<i>Lasiobolus cuniculi</i>
170.	<i>Lasiobolus intermedius</i>	<i>Lasiobolus intermedius</i>
171.	<i>Lasiobolus lasioboloides</i>	<i>Lasiobolus lasioboloides</i>
172.	<i>Lasiobolus longisetosus</i>	<i>Lasiobolus macrotrichus</i>
173.	<i>Lasiobolus macrotrichus</i>	<i>Lasiobolus macrotrichus</i>
174.	<i>Lasiobolus ciliatus</i>	<i>Lasiobolus papillatus</i>
175.	<i>Lasiobolus equinus</i>	<i>Lasiobolus papillatus</i>
176.	<i>Lasiobolus pilosus</i>	<i>Lasiobolus papillatus</i>
177.	<i>Lasiobolus ruber</i>	<i>Lasiobolus ruber</i>
178.	<i>Melastiza chateri</i>	<i>Melastiza chateri</i>
179.	<i>Morchella angusticeps</i>	<i>Morchella angusticeps</i>
180.	<i>Morchella conica</i>	<i>Morchella conica</i>
181.	<i>Morchella costata</i>	AA-U
182.	<i>Morchella crassipes</i>	<i>Morchella crassipes</i>
183.	<i>Morchella crassistipa</i>	<i>Morchella crassistipa</i>
184.	<i>Morchella deliciosa</i>	<i>Morchella deliciosa</i>
185.	<i>Morchella elata</i>	<i>Morchella elata</i>
186.	<i>Morchella elata</i> var. <i>purpurascens</i>	<i>Morchella elata</i> var. <i>purpurascens</i>
187.	<i>Morchella esculenta</i>	<i>Morchella esculenta</i>
188.	<i>Morchella hotsonii</i>	<i>Morchella hotsonii</i>
189.	<i>Morchella rielana</i>	<i>Morchella rielana</i>
190.	<i>Mitrophora semilibera</i>	<i>Morchella semilibera</i>
191.	<i>Morchella hybrida</i>	<i>Morchella semilibera</i>
192.	<i>Morchella semilibera</i>	<i>Morchella semilibera</i>
193.	<i>Morchella spongiola</i>	<i>Morchella spongiola</i>
194.	<i>Nannfeldtiella aggregata</i>	<i>Nannfeldtiella aggregata</i>
195.	<i>Neottiella aphanodictyon</i>	<i>Neottiella aphanodictyon</i>
196.	<i>Leucoscypha rutilans</i>	<i>Neottiella rutilans</i>
197.	<i>Neournula nordmanensis</i>	<i>Neournula pouchetii</i>

#	Name on collection(s)	Name used in report
198.	<i>Neournula pouchetii</i>	<i>Neournula pouchetii</i>
199.	<i>Urnula nordmanensis</i>	<i>Neournula pouchetii</i>
200.	<i>Humaria coccinea</i>	<i>Octospora coccinea</i>
201.	<i>Humaria granulosa</i>	<i>Octospora leucoloma</i>
202.	<i>Humaria leucoloma</i>	<i>Octospora leucoloma</i>
203.	<i>Octospora leucoloma</i>	<i>Octospora leucoloma</i>
204.	<i>Humaria rubens</i>	<i>Octospora rubens</i>
205.	<i>Humaria rubens</i>	<i>Octospora rubens</i>
206.	<i>Octospora rubens</i>	<i>Octospora rubens</i>
207.	<i>Humaria semiimmersa</i>	<i>Octospora semiimmersa</i>
208.	<i>Humaria semiimmersa</i>	<i>Octospora semiimmersa</i>
209.	<i>Otidea alutacea</i>	<i>Otidea alutacea</i>
210.	<i>Scodellina alutacea</i>	<i>Otidea alutacea</i>
211.	<i>Otidea alutacea</i> var. <i>alutacea</i>	<i>Otidea alutacea</i> var. <i>alutacea</i>
212.	<i>Otidea alutacea</i> var. <i>typica</i>	<i>Otidea alutacea</i> var. <i>alutacea</i>
213.	<i>Otidea microspora</i>	<i>Otidea alutacea</i>
214.	<i>Otidea alutacea</i> var. <i>microspora</i>	<i>Otidea alutacea</i> var. <i>microspora</i>
215.	<i>Otidea cantharella</i>	<i>Otidea cantharella</i>
216.	<i>Otidea cantharella</i> var. <i>minor</i>	<i>Otidea cantharella</i> var. <i>minor</i>
217.	<i>Otidea concinna</i>	<i>Otidea concinna</i>
218.	<i>Otidea grandis</i>	<i>Otidea grandis</i>
219.	<i>Scodellina grandis</i>	<i>Otidea grandis</i>
220.	<i>Otidea leporina</i>	<i>Otidea leporina</i>
221.	<i>Scodellina leporina</i>	<i>Otidea leporina</i>
222.	<i>Otidea leporina</i> var. <i>typica</i>	<i>Otidea leporina</i> var. <i>leporina</i>
223.	<i>Otidea leporina</i> var. <i>minor</i>	<i>Otidea leporina</i> var. <i>minor</i>
224.	<i>Otidea leporina</i> var. <i>minor</i>	<i>Otidea leporina</i> var. <i>minor</i>
225.	<i>Scodellina microspora</i>	<i>Otidea microscopica</i>
226.	<i>Otidea onotica</i>	<i>Otidea onotica</i>
227.	<i>Otidea abietina</i>	<i>Otidea propinquata</i>
228.	<i>Peziza abietina</i>	<i>Otidea propinquata</i>
229.	<i>Otidea rainierensis</i>	<i>Otidea rainierensis</i>
230.	<i>Otidea smithii</i>	<i>Otidea smithii</i>
231.	<i>Pachyella babingtonii</i>	<i>Pachyella babingtonii</i>
232.	<i>Psilopezia babingtonii</i>	<i>Pachyella babingtonii</i>
233.	<i>Peziza clypeata</i>	<i>Pachyella clypeata</i>
234.	<i>Psilopezia orbicularis</i>	<i>Pachyella clypeata</i>
235.	<i>Peziza ammophila</i>	<i>Peziza ammophila</i>
236.	<i>Peziza ampliata</i>	<i>Peziza ampliata</i>
237.	<i>Discina apiculata</i>	<i>Peziza apiculata</i>
238.	<i>Peziza sylvestris</i>	<i>Peziza arvernensis</i>
239.	<i>Aleurina atrovinosa</i>	<i>Peziza atrovinosa</i>
240.	<i>Peziza badia</i>	<i>Peziza badia</i>
241.	<i>Plicaria badia</i>	<i>Peziza badia</i>
242.	<i>Peziza badioconfusa</i>	<i>Peziza badioconfusa</i>
243.	<i>Peziza brunneoatra</i>	<i>Peziza brunneoatra</i>
244.	<i>Plicaria brunneoatra</i>	<i>Peziza brunneoatra</i>
245.	<i>Peziza cerea</i>	<i>Peziza cerea</i>
246.	<i>Peziza vesciculosa</i> var. <i>cerea</i>	<i>Peziza cerea</i>
247.	<i>Peziza adae</i>	<i>Peziza domiciliana</i>

#	Name on collection(s)	Name used in report
248.	<i>Peziza domiciliana</i>	<i>Peziza domiciliana</i>
249.	<i>Peziza echinospora</i>	<i>Peziza echinospora</i>
250.	<i>Peziza emileia</i>	<i>Peziza emileia</i>
251.	<i>Peziza fimeti</i>	<i>Peziza fimeti</i>
252.	<i>Humaria gerardi</i>	<i>Peziza gerardi</i>
253.	<i>Peziza limosa</i>	<i>Peziza limosa</i>
254.	<i>Peziza petersii</i>	<i>Peziza petersii</i>
255.	<i>Peziza phaeotheca</i>	<i>Peziza phaeotheca</i>
256.	<i>Peziza praetervisa</i>	<i>Peziza praetervisa</i>
257.	<i>Peziza violacea</i>	<i>Peziza praetervisa</i>
258.	<i>Daleomyces phillipsii</i>	<i>Peziza proteana</i> var. <i>sparassoides</i>
259.	<i>Peziza repanda</i>	<i>Peziza repanda</i>
260.	<i>Plicaria repanda</i>	<i>Peziza repanda</i>
261.	<i>Peziza spissa</i>	<i>Peziza spissa</i>
262.	<i>Peziza sterigmatizans</i>	<i>Peziza sterigmatizans</i>
263.	<i>Peziza succosa</i>	<i>Peziza succosa</i>
264.	<i>Peziza varia</i>	<i>Peziza varia</i>
265.	<i>Peziza vesiculos</i> a	<i>Peziza vesiculos</i> a
266.	<i>Peziza violacea</i>	<i>Peziza violacea</i>
267.	<i>Peziza violacea</i>	<i>Peziza violacea</i>
268.	<i>Picoa carthusiana</i>	<i>Picoa carthusiana</i>
269.	<i>Pithya cupressina</i>	<i>Pithya cupressina</i>
270.	<i>Pithya pithya</i>	<i>Pithya vulgaris</i>
271.	<i>Pithya vulgaris</i>	<i>Pithya vulgaris</i>
272.	<i>Bulgaria melastoma</i>	<i>Plectania melastoma</i>
273.	<i>Plectania melastoma</i>	<i>Plectania melastoma</i>
274.	<i>Paxina semitosta</i>	<i>Plectania milleri</i>
275.	<i>Plectania milleri</i>	<i>Plectania milleri</i>
276.	<i>Helvella nigrella</i>	<i>Plectania nannfeldtii</i>
277.	<i>Patella nigrella</i>	<i>Plectania nannfeldtii</i>
278.	<i>Paxina nigrella</i>	<i>Plectania nannfeldtii</i>
279.	<i>Plectania nannfeldtii</i>	<i>Plectania nannfeldtii</i>
280.	<i>Lamprospora leiocarpa</i>	<i>Plicaria endocarpoides</i>
281.	<i>Peziza leiocarpa</i>	<i>Plicaria endocarpoides</i>
282.	<i>Plicaria leiocarpa</i>	<i>Plicaria endocarpoides</i>
283.	<i>Peziza trachycarpa</i>	<i>Plicaria trachycarpa</i>
284.	<i>Pseudoplectania melaena</i>	<i>Pseudoplectania melaena</i>
285.	<i>Pseudoplectania vogesiaca</i>	<i>Pseudoplectania melaena</i>
286.	<i>Pseudoplectania nigrella</i>	<i>Pseudoplectania nigrella</i>
287.	<i>Elvela californica</i>	<i>Pseudorhizina californica</i>
288.	<i>Gyromitra californica</i>	<i>Pseudorhizina californica</i>
289.	<i>Helvella brevissima</i>	<i>Pseudorhizina californica</i>
290.	<i>Helvella californica</i>	<i>Pseudorhizina californica</i>
291.	<i>Helvella umbraculiformis</i>	<i>Pseudorhizina californica</i>
292.	<i>Helvella sphaerospora</i>	<i>Pseudorhizina sphaerospora</i>
293.	<i>Psilopezia nummularia</i>	<i>Psilopezia nummularia</i>
294.	<i>Lamprospora pyrophila</i>	<i>Pulvinula archeri</i>
295.	<i>Pulvinula pyrophila</i>	<i>Pulvinula archeri</i>
296.	<i>Lamprospora carbonaria</i>	<i>Pulvinula carbonaria</i>
297.	<i>Pulvinula carbonaria</i>	<i>Pulvinula carbonaria</i>
298.	<i>Lamprospora constellatio</i>	<i>Pulvinula convexella</i>

#	Name on collection(s)	Name used in report
299.	<i>Lamprospora haemastigma</i>	<i>Pulvinula convexella</i>
300.	<i>Pustularia coronaria</i>	<i>Pulvinula convexella</i>
301.	<i>Lamprospora wisconsinensis</i>	<i>Pulvinula laeterubra</i>
302.	<i>Pyronema omphalodes</i>	<i>Pyronema omphalodes</i>
303.	<i>Ramsbottomia asperior</i>	<i>Ramsbottomia asperior</i>
304.	<i>Lamprospora crec'hqueraultii</i>	<i>Ramsbottomia crec'hqueraultii</i>
305.	<i>Discina perlata</i>	<i>Rhizina undulata</i>
306.	<i>Rhizina inflata</i>	<i>Rhizina undulata</i>
307.	<i>Rhizina undulata</i>	<i>Rhizina undulata</i>
308.	<i>Leucoscypha ovilla</i>	<i>Rhodoscypha ovilla</i>
309.	<i>Saccobolus depauperatus</i>	<i>Saccobolus depauperatus</i>
310.	<i>Saccobolus neglectus</i>	<i>Saccobolus depauperatus</i>
311.	<i>Saccobolus glaber</i>	<i>Saccobolus glaber</i>
312.	<i>Saccobolus versicolor</i>	<i>Saccobolus versicolor</i>
313.	<i>Saccobolus versicolor</i>	<i>Saccobolus versicolor</i>
314.	<i>Saccobolus violascens</i>	<i>Saccobolus violascens</i>
315.	<i>Bulgaria globosa</i>	<i>Sarcosoma globosum</i>
316.	<i>Sarcosoma globosa</i>	<i>Sarcosoma globosum</i>
317.	<i>Bulgaria globosa</i>	<i>Sarcosoma latahense</i>
318.	<i>Plectania latahensis</i>	<i>Sarcosoma latahense</i>
319.	<i>Sarcosoma latahensis</i>	<i>Sarcosoma latahense</i>
320.	<i>Bulgaria globosa</i>	<i>Sarcosoma mexicanum</i>
321.	<i>Bulgaria mexicana</i>	<i>Sarcosoma mexicanum</i>
322.	<i>Sarcosoma mexicana</i>	<i>Sarcosoma mexicanum</i>
323.	<i>Caulocarpa montana</i>	<i>Sarcosphaera coronaria</i>
324.	<i>Pustularia coronaria</i>	<i>Sarcosphaera coronaria</i>
325.	<i>Sarcosphaera amplissima</i>	<i>Sarcosphaera coronaria</i>
326.	<i>Sarcosphaera coronaria</i>	<i>Sarcosphaera coronaria</i>
327.	<i>Sarcosphaera crassa</i>	<i>Sarcosphaera coronaria</i>
328.	<i>Sarcosphaera eximia</i>	<i>Sarcosphaera coronaria</i>
329.	<i>Sarcosphaera macrocalyx</i>	<i>Sarcosphaera coronaria</i>
330.	<i>Scutellinia crinita</i>	<i>Scutellinia crinita</i>
331.	<i>Humaria erinaceus</i>	<i>Scutellinia erinaceus</i>
332.	<i>Lachnea erinaceus</i>	<i>Scutellinia erinaceus</i>
333.	<i>Patella erinaceus</i>	<i>Scutellinia erinaceus</i>
334.	<i>Humaria scutellata</i>	<i>Scutellinia scutellata</i>
335.	<i>Lachnea scutellata</i>	<i>Scutellinia scutellata</i>
336.	<i>Patella scutellata</i>	<i>Scutellinia scutellata</i>
337.	<i>Peziza scutellata</i>	<i>Scutellinia scutellata</i>
338.	<i>Scutellinia scutellata</i>	<i>Scutellinia scutellata</i>
339.	<i>Lachnea setosa</i>	<i>Scutellinia setosa</i>
340.	<i>Patella setosa</i>	<i>Scutellinia setosa</i>
341.	<i>Humaria umbrorum</i>	<i>Scutellinia umbrorum</i>
342.	<i>Lamprospora planchonis</i>	<i>Smardaea planchonis</i>
343.	<i>Sowerbyella imperialis</i>	<i>Sowerbyella imperialis</i>
344.	<i>Sphaerospora hinnulea</i>	<i>Sphaerospora hinnulea</i>
345.	<i>Tarzetta bronca</i>	<i>Tarzetta bronca</i>
346.	<i>Peziza pustulata</i>	<i>Tarzetta catinus</i>
347.	<i>Geopyxis cupularis</i>	<i>Tarzetta cupularis</i>
348.	<i>Peziza cupularis</i>	<i>Tarzetta cupularis</i>
349.	<i>Pustularia cupularis</i>	<i>Tarzetta cupularis</i>

#	Name on collection(s)	Name used in report
350.	<i>Thecotheus apiculatus</i>	<i>Thecotheus apiculatus</i>
351.	<i>Thecotheus holmskjoldii</i>	<i>Thecotheus cinereus</i>
352.	<i>Thecotheus setisperma</i>	<i>Thecotheus cinereus</i>
353.	<i>Thecotheus pelletieri</i>	<i>Thecotheus pelletieri</i>
354.	<i>Thelebolus obscurus</i>	<i>Thelebolus obscurus</i>
355.	<i>Tricharia gilva</i>	<i>Tricharina gilva</i>
356.	<i>Tricharia</i> sp. 1	<i>Tricharina praecox</i> var. <i>intermedia</i>
357.	<i>Thelebolus zukalii</i>	<i>Trichobolus zukalii</i>
358.	<i>Humaria abundans</i>	<i>Trichophaea abundans</i>
359.	<i>Lachnea abundans</i>	<i>Trichophaea abundans</i>
360.	<i>Scutellinia abundans</i>	<i>Trichophaea abundans</i>
361.	<i>Humaria albospadicea</i>	<i>Trichophaea albospadicea</i>
362.	<i>Lachnea albospadicea</i>	<i>Trichophaea albospadicea</i>
363.	<i>Patella albospadicea</i>	<i>Trichophaea albospadicea</i>
364.	<i>Trichophaea boudieri</i>	<i>Trichophaea boudieri</i>
365.	<i>Humaria gregaria</i>	<i>Trichophaea hybrida</i>
366.	<i>Patella gregaria</i>	<i>Trichophaea hybrida</i>
367.	<i>Trichophaea gregaria</i>	<i>Trichophaea hybrida</i>
368.	<i>Trichophaea pseudogregaria</i>	<i>Trichophaea pseudogregaria</i>
369.	<i>Lachnea flavo-brunnea</i>	<i>Trichophaea</i> sp.
370.	<i>Tuber irradians</i>	<i>Tuber irradians</i>
371.	<i>Tuber rufum</i>	<i>Tuber rufum</i>
372.	<i>Tuber rufum</i> var. <i>nitidum</i>	<i>Tuber rufum</i> var. <i>nitidum</i>
373.	<i>Morchella bispora</i>	<i>Verpa bohemica</i>
374.	<i>Ptychoverpa bohemica</i>	<i>Verpa bohemica</i>
375.	<i>Verpa bohemica</i>	<i>Verpa bohemica</i>
376.	<i>Verpa conica</i>	<i>Verpa conica</i>
377.	<i>Helvella silvicola</i>	<i>Wynnella silvicola</i>
378.	<i>Otidea auricula</i>	<i>Wynnella silvicola</i>
379.	<i>Wynnella silvicola</i>	<i>Wynnella silvicola</i>

Table 4A. Alphabetical listing of names with number of collections per name and estimated "real" frequency

#	Name used in Report	Count	Estimated "real" frequency
1.	<i>Aleuria aurantia</i>	49	abundant
2.	<i>Aleuria rhenana</i>	1	rare
3.	<i>Anthracobia macrocystis</i>	2	few reports/widespread?
4.	<i>Anthracobia melaloma</i>	10	occasional
5.	<i>Ascobolus carbonarius</i>	3	infrequently reported
6.	<i>Ascobolus crenulatus</i>	3	infrequently reported
7.	<i>Ascobolus furfuraceus</i>	13	few reports/widespread?
8.	<i>Ascobolus geophilus</i>	1	infrequently reported
9.	<i>Ascobolus immersus</i>	1	few reports/widespread?
10.	<i>Balsamia platyspora</i>	4	occasional
11.	<i>Balsamia vulgaris</i>	2	occasional
12.	<i>Barssia oregonensis</i>	8	infrequently reported
13.	<i>Byssonectria cartilaginea</i>	4	infrequently reported
14.	<i>Caloscypha fulgens</i>	72	abundant
15.	<i>Cheilymenia coprinaria</i>	13	few reports/widespread?
16.	<i>Cheilymenia crucipila</i>	2	few reports/widespread?
17.	<i>Cheilymenia fimicola</i>	3	few reports/widespread?
18.	<i>Cheilymenia pulcherrima, a complex</i>	3	few reports/widespread?
19.	<i>Cheilymenia stercorea</i>	21	common
20.	<i>Cheilymenia theleboloides</i>	5	few reports/widespread?
21.	<i>Choiromyces alveolatus</i>	2	rare
22.	<i>Coprobria granulata</i>	3	few reports/widespread?
23.	<i>Coprotus granuliformis</i>	5	few reports/widespread?
24.	<i>Coprotus ochraceus</i>	2	few reports/widespread?
25.	<i>Discina apiculatula</i>	8	infrequently reported
26.	<i>Discina leucoxantha</i>	2	infrequently reported
27.	<i>Discina olympiana</i>	7	infrequently reported
28.	<i>Discina olympiana var. diluta</i>	2	infrequently reported
29.	<i>Discina olympiana var. olympiana</i>	1	infrequently reported
30.	<i>Discina perlata</i>	111	abundant
31.	<i>Disciotis venosa</i>	19	occasional
32.	<i>Elaphomyces granulatus</i>	39	abundant
33.	<i>Elaphomyces granulatus var. asperulus</i>	1	infrequently reported
34.	<i>Elaphomyces muricatus</i>	5	infrequently reported
35.	<i>Elaphomyces subviscidus</i>	1	rare
36.	<i>Fimaria hepatica</i>	2	infrequently reported
37.	<i>Genabea cerebriformis</i>	5	infrequently reported
38.	<i>Genea intermedia</i>	1	rare
39.	<i>Geopora arenosa</i>	5	occasional
40.	<i>Geopora cooperi</i>	4	common
41.	<i>Geopora cooperi f. cooperi</i>	60	abundant

#	Name used in Report	Count	Estimated "real" frequency
42.	<i>Geopora cooperi</i> f. <i>gilkeyae</i>	28	abundant
43.	<i>Geopora sepulta</i>	4	infrequently reported
44.	<i>Geopyxis carbonaria</i>	26	common
45.	<i>Geopyxis vulcanalis</i>	22	common
46.	<i>Gyromitra ambigua</i>	1	infrequently reported
47.	<i>Gyromitra esculenta</i>	83	abundant
48.	<i>Gyromitra gigas</i> , complex	73	abundant
49.	<i>Gyromitra infula</i>	179	abundant
50.	<i>Gyromitra melaleuroides</i>	43	abundant
51.	<i>Gyromitra montana</i>	17	undetermined
52.	<i>Helvella acetabulum</i>	11	infrequently reported
53.	<i>Helvella albella</i>	4	infrequently reported
54.	<i>Helvella albipes</i>	4	infrequently reported
55.	<i>Helvella atra</i>	2	infrequently reported
56.	<i>Helvella chinensis</i>	12	occasional
57.	<i>Helvella compressa</i>	4	infrequently reported
58.	<i>Helvella corium</i>	9	infrequently reported
59.	<i>Helvella costifera</i>	7	infrequently reported
60.	<i>Helvella crassitunicata</i>	3	infrequently reported
61.	<i>Helvella crispa</i>	23	common
62.	<i>Helvella cupuliformis</i>	2	infrequently reported
63.	<i>Helvella elastica</i>	51	abundant
64.	<i>Helvella griseoalba</i>	6	infrequently reported
65.	<i>Helvella lacunosa</i>	139	abundant
66.	<i>Helvella latispora</i>	1	infrequently reported
67.	<i>Helvella leucomelaena</i>	59	abundant
68.	<i>Helvella leucopus</i>	2	infrequently reported
69.	<i>Helvella macropus</i>	13	infrequently reported
70.	<i>Helvella macropus</i> var. <i>macropus</i>	2	infrequently reported
71.	<i>Helvella maculata</i>	5	infrequently reported
72.	<i>Helvella solitaria</i>	30	abundant
73.	<i>Helvella stevensii</i>	6	infrequently reported
74.	<i>Helvella sulcata</i>	5	infrequently reported
75.	<i>Humaria hemispherica</i>	11	infrequently reported
76.	<i>Hydnotrya cerebriformis</i>	48	abundant
77.	<i>Hydnotrya michaelis</i>	7	infrequently reported
78.	<i>Hydnotrya variiformis</i>	36	abundant
79.	<i>Iodophanus carneus</i>	3	few reports/widespread?
80.	<i>Iodophanus testaceus</i>	1	few reports/widespread?
81.	<i>Lamprospora spinulosa</i>	2	infrequently reported
82.	<i>Lamprospora tuberculatella</i>	2	infrequently reported
83.	<i>Lasiobolus cuniculi</i>	3	few reports/widespread?
84.	<i>Lasiobolus intermedius</i>	1	infrequently reported
85.	<i>Lasiobolus lasioboloides</i>	1	infrequently reported
86.	<i>Lasiobolus macrotrichus</i>	5	few reports/widespread?
87.	<i>Lasiobolus papillatus</i>	21	common

Pezizales, Table 4A

#	Name used in Report	Count	Estimated "real" frequency
88.	<i>Lasiobolus ruber</i>	2	few reports/widespread?
89.	<i>Melastiza chateri</i>	4	infrequently reported
90.	<i>Morchella angusticeps</i>	27	common
91.	<i>Morchella conica</i>	29	common
92.	<i>Morchella crassipes</i>	2	few reports/widespread?
93.	<i>Morchella crassistipa</i>	1	infrequently reported
94.	<i>Morchella deliciosa</i>	2	infrequently reported
95.	<i>Morchella elata</i>	32	abundant
96.	<i>Morchella elata</i> var. <i>purpurascens</i>	4	infrequently reported
97.	<i>Morchella esculenta</i>	37	abundant
98.	<i>Morchella hotsonii</i>	3	infrequently reported
99.	<i>Morchella rielana</i>	2	infrequently reported
100.	<i>Morchella semilibera</i>	10	infrequently reported
101.	<i>Morchella spongiola</i>	3	See notes
102.	<i>Nannfeldtiella aggregata</i>	4	rare
103.	<i>Neottiella aphanodictyon</i>	4	infrequently reported
104.	<i>Neottiella rutilans</i>	1	infrequently reported
105.	<i>Neournula pouchetii</i>	7	infrequently reported
106.	<i>Octospora coccinea</i>	2	infrequently reported
107.	<i>Octospora leucoloma</i>	6	few reports/widespread?
108.	<i>Octospora rubens</i>	5	few reports/widespread?
109.	<i>Octospora semiimmersa</i>	6	infrequently reported
110.	<i>Otidea alutacea</i>	11	common
111.	<i>Otidea alutacea</i> var. <i>alutacea</i>	7	infrequently reported
112.	<i>Otidea alutacea</i> var. <i>microspora</i>	11	infrequently reported
113.	<i>Otidea cantharella</i>	1	infrequently reported
114.	<i>Otidea cantharella</i> var. <i>minor</i>	4	infrequently reported
115.	<i>Otidea concinna</i>	8	infrequently reported
116.	<i>Otidea grandis</i>	4	infrequently reported
117.	<i>Otidea leporina</i>	42	abundant
118.	<i>Otidea leporina</i> var. <i>leporina</i>	6	infrequently reported
119.	<i>Otidea leporina</i> var. <i>minor</i>	10	infrequently reported
120.	<i>Otidea microscopica</i>	6	infrequently reported
121.	<i>Otidea onotica</i>	18	occasional
122.	<i>Otidea propinquata</i>	5	infrequently reported
123.	<i>Otidea rainierensis</i>	1	infrequently reported
124.	<i>Otidea smithii</i>	14	occasional
125.	<i>Pachyella babingtonii</i>	4	few reports/widespread?
126.	<i>Pachyella clypeata</i>	6	few reports/widespread?
127.	<i>Peziza ammophila</i>	1	rare
128.	<i>Peziza ampliata</i>	1	infrequently reported
129.	<i>Peziza apiculata</i>	5	infrequently reported
130.	<i>Peziza arvernensis</i>	18	common

Pezizales, Table 4A

#	Name used in Report	Count	Estimated "real" frequency
131.	<i>Peziza atrovinosa</i>	1	infrequently reported
132.	<i>Peziza badia</i>	13	few reports/widespread?
133.	<i>Peziza badioconfusa</i>	1	few reports/widespread?
134.	<i>Peziza brunneoatra</i>	15	common
135.	<i>Peziza cerea</i>	2	infrequently reported
136.	<i>Peziza domiciliana</i>	3	few reports/widespread?
137.	<i>Peziza echinospora</i>	4	infrequently reported
138.	<i>Peziza emileia</i>	1	infrequently reported
139.	<i>Peziza fimeti</i>	3	few reports/widespread?
140.	<i>Peziza gerardi</i>	1	no data
141.	<i>Peziza limosa</i>	1	infrequently reported
142.	<i>Peziza petersii</i>	1	few reports/widespread?
143.	<i>Peziza phaeotheca</i>	4	infrequently reported
144.	<i>Peziza praetervisa</i>	16	few reports/widespread?
145.	<i>Peziza proteana</i> var. <i>sparassoides</i>	1	few reports/widespread?
146.	<i>Peziza repanda</i>	28	common
147.	<i>Peziza spissa</i>	1	infrequently reported
148.	<i>Peziza sterigmatizans</i>	1	infrequently reported
149.	<i>Peziza succosa</i>	3	infrequently reported
150.	<i>Peziza varia</i>	2	few reports/widespread?
151.	<i>Peziza vesiculosa</i>	20	occasional
152.	<i>Peziza violacea</i>	13	infrequently reported
153.	<i>Picoa carthusiana</i>	3	infrequently reported
154.	<i>Pithya cupressina</i>	12	occasional
155.	<i>Pithya vulgaris</i>	11	few reports/widespread?
156.	<i>Plectania melastoma</i>	13	few reports/widespread?
157.	<i>Plectania milleri</i>	6	infrequently reported
158.	<i>Plectania nannfeldtii</i>	44	abundant
159.	<i>Plicaria endocarpoides</i>	16	common
160.	<i>Plicaria trachycarpa</i>	1	few reports/widespread?
161.	<i>Pseudoplectania melaena</i>	30	common
162.	<i>Pseudoplectania nigrella</i>	44	abundant
163.	<i>Pseudorhizina californica</i>	68	abundant
164.	<i>Pseudorhizina sphaerospora</i>	2	rare
165.	<i>Psilopezia nummularia</i>	1	infrequently reported
166.	<i>Pulvinula archeri</i>	16	common
167.	<i>Pulvinula carbonaria</i>	3	few reports/widespread?
168.	<i>Pulvinula convexella</i>	13	infrequently reported
169.	<i>Pulvinula laeterubra</i>	1	infrequently reported
170.	<i>Pyronema omphalodes</i>	5	infrequently reported
171.	<i>Ramsbottomia asperior</i>	2	few reports/widespread?
172.	<i>Ramsbottomia</i> <i>crec'hqueraultii</i>	8	infrequently reported
173.	<i>Rhizina undulata</i>	24	common
174.	<i>Rhodoscypha ovilla</i>	1	rare
175.	<i>Saccobolus depauperatus</i>	6	infrequently reported
176.	<i>Saccobolus glaber</i>	1	few reports/widespread?

Pezizales, Table 4A

#	Name used in Report	Count	Estimated "real" frequency
177.	<i>Saccobolus versicolor</i>	4	few reports/widespread?
178.	<i>Saccobolus violascens</i>	1	few reports/widespread?
179.	<i>Sarcosoma latahense</i>	11	common
180.	<i>Sarcosoma mexicanum,</i> complex	37	common
181.	<i>Sarcosphaera coronaria</i>	61	abundant
182.	<i>Scutellinia crinita</i>	1	few reports/widespread?
183.	<i>Scutellinia erinaceus</i>	3	few reports/widespread?
184.	<i>Scutellinia scutellata</i>	46	abundant
185.	<i>Scutellinia setosa</i>	2	few reports/widespread?
186.	<i>Scutellinia umbrorum</i>	2	few reports/widespread?
187.	<i>Smardaea planchonis</i>	1	infrequently reported
188.	<i>Sowerbyella imperialis?</i>	1	rare
189.	<i>Sphaerospora hinnulea</i>	1	infrequently reported
190.	<i>Tarzetta bronca</i>	1	infrequently reported
191.	<i>Tarzetta catinus</i>	6	infrequently reported
192.	<i>Tarzetta cupularis</i>	25	common
193.	<i>Thecotheus apiculatus</i>	1	few reports/widespread?
194.	<i>Thecotheus cinereus</i>	2	few reports/widespread?
195.	<i>Thecotheus pelletieri</i>	2	few reports/widespread?
196.	<i>Thelebolus obscurus</i>	1	few reports/widespread?
197.	<i>Tricharina gilva</i>	2	few reports/widespread?
198.	<i>Tricharina praecox</i> var. <i>intermedia</i>	1	infrequently reported
199.	<i>Trichobolus zukalii</i>	1	few reports/widespread?
200.	<i>Trichophaea abundans</i>	4	few reports/widespread?
201.	<i>Trichophaea albospadicea</i>	7	few reports/widespread?
202.	<i>Trichophaea boudieri</i>	1	infrequently reported
203.	<i>Trichophaea hybrida</i>	7	few reports/widespread?
204.	<i>Trichophaea pseudogregaria</i>	1	few reports/widespread?
205.	<i>Trichophaea</i> sp.	1	infrequently reported
206.	<i>Tuber irradians</i>	1	rare
207.	<i>Tuber rufum</i>	1	infrequently reported
208.	<i>Tuber rufum</i> var. <i>nitidum</i>	1	rare
209.	<i>Verpa bohemica</i>	17	common
210.	<i>Verpa conica</i>	17	common
211.	<i>Wynnella silvicola</i>	9	infrequently reported
	Total	2644	

Table 4B. Names used and estimated "real" frequency ordered by number of collections per name

#	Name used in Report	Count	Estimated "real" frequency
1.	<i>Aleuria rhenana</i>	1	rare
2.	<i>Ascobolus geophilus</i>	1	infrequently reported
3.	<i>Ascobolus immersus</i>	1	few reports/widespread?
4.	<i>Discina olympiana</i> var. <i>olympiana</i>	1	infrequently reported
5.	<i>Elaphomyces granulatus</i> var. <i>asperulus</i>	1	infrequently reported
6.	<i>Elaphomyces subviscidus</i>	1	rare
7.	<i>Genea intermedia</i>	1	rare
8.	<i>Gyromitra ambigua</i>	1	infrequently reported
9.	<i>Helvella latispora</i>	1	infrequently reported
10.	<i>Iodophanus testaceus</i>	1	few reports/widespread?
11.	<i>Lasiobolus intermedius</i>	1	infrequently reported
12.	<i>Lasiobolus lasioboloides</i>	1	infrequently reported
13.	<i>Morchella crassistipa</i>	1	infrequently reported
14.	<i>Neottiella rutilans</i>	1	infrequently reported
15.	<i>Otidea cantharella</i>	1	infrequently reported
16.	<i>Otidea rainierensis</i>	1	infrequently reported
17.	<i>Peziza ammophila</i>	1	rare
18.	<i>Peziza ampliata</i>	1	infrequently reported
19.	<i>Peziza atrovinosa</i>	1	infrequently reported
20.	<i>Peziza badioconfusa</i>	1	few reports/widespread?
21.	<i>Peziza emileia</i>	1	infrequently reported
22.	<i>Peziza gerardi</i>	1	no data
23.	<i>Peziza limosa</i>	1	infrequently reported
24.	<i>Peziza petersii</i>	1	few reports/widespread?
25.	<i>Peziza proteana</i> var. <i>sparassoides</i>	1	few reports/widespread?
26.	<i>Peziza spissa</i>	1	infrequently reported
27.	<i>Peziza sterigmatizans</i>	1	infrequently reported
28.	<i>Plicaria trachycarpa</i>	1	few reports/widespread?
29.	<i>Psilopezia nummularia</i>	1	infrequently reported
30.	<i>Pulvinula laeterubra</i>	1	infrequently reported
31.	<i>Rhodoscypha ovilla</i>	1	rare
32.	<i>Saccobolus glaber</i>	1	few reports/widespread?
33.	<i>Saccobolus violascens</i>	1	few reports/widespread?
34.	<i>Scutellinia crinita</i>	1	few reports/widespread?
35.	<i>Smardaea planchonis</i>	1	infrequently reported
36.	<i>Sowerbyella imperialis?</i>	1	rare
37.	<i>Sphaerosporella innulea</i>	1	infrequently reported
38.	<i>Tarzetta bronca</i>	1	infrequently reported
39.	<i>Thecotheus apicatus</i>	1	few reports/widespread?
40.	<i>Thelebolus obscurus</i>	1	few reports/widespread?
41.	<i>Tricharina praecox</i> var. <i>intermedia</i>	1	infrequently reported
42.	<i>Trichobolus zukalii</i>	1	few reports/widespread?

#	Name used in Report	Count	Estimated "real" frequency
43.	<i>Trichophaea boudieri</i>	1	infrequently reported
44.	<i>Trichophaea pseudogregaria</i>	1	few reports/widespread?
45.	<i>Trichophaea</i> sp.	1	infrequently reported
46.	<i>Tuber irradians</i>	1	rare
47.	<i>Tuber rufum</i>	1	infrequently reported
48.	<i>Tuber rufum</i> var. <i>nitidum</i>	1	rare
49.	<i>Anthracobia macrocystis</i>	2	few reports/widespread?
50.	<i>Balsamia vulgaris</i>	2	occasional
51.	<i>Cheilymenia crucipila</i>	2	few reports/widespread?
52.	<i>Choiromyces alveolatus</i>	2	rare
53.	<i>Coprotus ochraceus</i>	2	few reports/widespread?
54.	<i>Discina leucoxantha</i>	2	infrequently reported
55.	<i>Discina olympiana</i> var. <i>diluta</i>	2	infrequently reported
56.	<i>Fimaria hepatica</i>	2	infrequently reported
57.	<i>Helvella atra</i>	2	infrequently reported
58.	<i>Helvella cupuliformis</i>	2	infrequently reported
59.	<i>Helvella leucopus</i>	2	infrequently reported
60.	<i>Helvella macropus</i> var. <i>macropus</i>	2	infrequently reported
61.	<i>Lamprospora spinulosa</i>	2	infrequently reported
62.	<i>Lamprospora tuberculatella</i>	2	infrequently reported
63.	<i>Lasiobolus ruber</i>	2	few reports/widespread?
64.	<i>Morchella crassipes</i>	2	few reports/widespread?
65.	<i>Morchella deliciosa</i>	2	infrequently reported
66.	<i>Morchella rielana</i>	2	infrequently reported
67.	<i>Octospora coccinea</i>	2	infrequently reported
68.	<i>Peziza cerea</i>	2	infrequently reported
69.	<i>Peziza varia</i>	2	few reports/widespread?
70.	<i>Pseudorhizina sphaerospora</i>	2	rare
71.	<i>Ramsbottomia asperior</i>	2	few reports/widespread?
72.	<i>Scutellinia setosa</i>	2	few reports/widespread?
73.	<i>Scutellinia umbrorum</i>	2	few reports/widespread?
74.	<i>Thecotheus cinereus</i>	2	few reports/widespread?
75.	<i>Thecotheus pelletieri</i>	2	few reports/widespread?
76.	<i>Tricharina gilva</i>	2	few reports/widespread?
77.	<i>Ascobolus carbonarius</i>	3	infrequently reported
78.	<i>Ascobolus crenulatus</i>	3	infrequently reported
79.	<i>Cheilymenia fimicola</i>	3	few reports/widespread?
80.	<i>Cheilymenia pulcherrima</i> , a complex	3	few reports/widespread?
81.	<i>Coprobria granulata</i>	3	few reports/widespread?
82.	<i>Helvella crassitunicata</i>	3	infrequently reported
83.	<i>Iodophanus carneus</i>	3	few reports/widespread?
84.	<i>Lasiobolus cuniculi</i>	3	few reports/widespread?
85.	<i>Morchella hotsonii</i>	3	infrequently reported
86.	<i>Morchella spongiola</i>	3	See notes
87.	<i>Peziza domiciliana</i>	3	few reports/widespread?
88.	<i>Peziza fimetii</i>	3	few reports/widespread?

Pezizales, Table 4B

#	Name used in Report	Count	Estimated "real" frequency
89.	<i>Peziza succosa</i>	3	infrequently reported
90.	<i>Picoa carthusiana</i>	3	infrequently reported
91.	<i>Pulvinula carbonaria</i>	3	few reports/widespread?
92.	<i>Scutellinia erinaceus</i>	3	few reports/widespread?
93.	<i>Balsamia platyspora</i>	4	occasional
94.	<i>Byssonectria cartilaginea</i>	4	infrequently reported
95.	<i>Geopora cooperi</i>	4	common
96.	<i>Geopora sepulta</i>	4	infrequently reported
97.	<i>Helvella albella</i>	4	infrequently reported
98.	<i>Helvella albipes</i>	4	infrequently reported
99.	<i>Helvella compressa</i>	4	infrequently reported
100.	<i>Melastiza chateri</i>	4	infrequently reported
101.	<i>Morchella elata</i> var. <i>purpurascens</i>	4	infrequently reported
102.	<i>Nannfeldtiella aggregata</i>	4	rare
103.	<i>Neottiella aphanodictyon</i>	4	infrequently reported
104.	<i>Otidea cantharella</i> var. <i>minor</i>	4	infrequently reported
105.	<i>Otidea grandis</i>	4	infrequently reported
106.	<i>Pachyella babingtonii</i>	4	few reports/widespread?
107.	<i>Peziza echinospora</i>	4	infrequently reported
108.	<i>Peziza phaeotheca</i>	4	infrequently reported
109.	<i>Saccobolus versicolor</i>	4	few reports/widespread?
110.	<i>Trichophaea abundans</i>	4	few reports/widespread?
111.	<i>Cheilymenia theleboloides</i>	5	few reports/widespread?
112.	<i>Coprotus granuliformis</i>	5	few reports/widespread?
113.	<i>Elaphomyces muricatus</i>	5	infrequently reported
114.	<i>Genabea cerebriformis</i>	5	infrequently reported
115.	<i>Geopora arenosa</i>	5	occasional
116.	<i>Helvella maculata</i>	5	infrequently reported
117.	<i>Helvella sulcata</i>	5	infrequently reported
118.	<i>Lasiobolus macrotrichus</i>	5	few reports/widespread?
119.	<i>Octospora rubens</i>	5	few reports/widespread?
120.	<i>Otidea propinquata</i>	5	infrequently reported
121.	<i>Peziza apiculata</i>	5	infrequently reported
122.	<i>Pyronema omphalodes</i>	5	infrequently reported
123.	<i>Helvella griseoalba</i>	6	infrequently reported
124.	<i>Helvella stevensii</i>	6	infrequently reported
125.	<i>Octospora leucoloma</i>	6	few reports/widespread?
126.	<i>Octospora semiimmersa</i>	6	infrequently reported
127.	<i>Otidea leporina</i> var. <i>leporina</i>	6	infrequently reported
128.	<i>Otidea microscopica</i>	6	infrequently reported
129.	<i>Pachyella clypeata</i>	6	few reports/widespread?
130.	<i>Plectania milleri</i>	6	infrequently reported
131.	<i>Saccobolus depauperatus</i>	6	infrequently reported
132.	<i>Tarzetta catinus</i>	6	infrequently reported
133.	<i>Discina olympiana</i>	7	infrequently reported
134.	<i>Helvella costifera</i>	7	infrequently reported

#	Name used in Report	Count	Estimated "real" frequency
135.	<i>Hydnotrya michaelis</i>	7	infrequently reported
136.	<i>Neournula pouchetii</i>	7	infrequently reported
137.	<i>Otidea alutacea</i> var. <i>alutacea</i>	7	infrequently reported
138.	<i>Trichophaea albospadicea</i>	7	few reports/widespread?
139.	<i>Trichophaea hybrida</i>	7	few reports/widespread?
140.	<i>Barssia oregonensis</i>	8	infrequently reported
141.	<i>Discina apiculatula</i>	8	infrequently reported
142.	<i>Otidea concinna</i>	8	infrequently reported
143.	<i>Ramsbottomia</i> crec'hqueraultii	8	infrequently reported
144.	<i>Helvella corium</i>	9	infrequently reported
145.	<i>Wynnella silvicola</i>	9	infrequently reported
146.	<i>Anthracobia melaloma</i>	10	occasional
147.	<i>Morchella semilibera</i>	10	infrequently reported
148.	<i>Otidea leporina</i> var. <i>minor</i>	10	infrequently reported
149.	<i>Helvella acetabulum</i>	11	infrequently reported
150.	<i>Humaria hemispherica</i>	11	infrequently reported
151.	<i>Otidea alutacea</i>	11	common
152.	<i>Otidea alutacea</i> var. <i>microspora</i>	11	infrequently reported
153.	<i>Pithya vulgaris</i>	11	few reports/widespread?
154.	<i>Sarcosoma latahense</i>	11	common
155.	<i>Helvella chinensis</i>	12	occasional
156.	<i>Pithya cupressina</i>	12	occasional
157.	<i>Ascobolus furfuraceus</i>	13	few reports/widespread?
158.	<i>Cheilymenia coprinaria</i>	13	few reports/widespread?
159.	<i>Helvella macropus</i>	13	infrequently reported
160.	<i>Peziza badia</i>	13	few reports/widespread?
161.	<i>Peziza violacea</i>	13	infrequently reported
162.	<i>Plectania melastoma</i>	13	few reports/widespread?
163.	<i>Pulvinula convexella</i>	13	infrequently reported
164.	<i>Otidea smithii</i>	14	occasional
165.	<i>Peziza brunneoatra</i>	15	common
166.	<i>Peziza praetervisa</i>	16	few reports/widespread?
167.	<i>Plicaria endocarpoides</i>	16	common
168.	<i>Pulvinula archeri</i>	16	common
169.	<i>Gyromitra montana</i>	17	undetermined
170.	<i>Verpa bohemica</i>	17	common
171.	<i>Verpa conica</i>	17	common
172.	<i>Otidea onotica</i>	18	occasional
173.	<i>Peziza arvernensis</i>	18	common
174.	<i>Disciotis venosa</i>	19	occasional
175.	<i>Peziza vesiculosus</i>	20	occasional
176.	<i>Cheilymenia stercorea</i>	21	common
177.	<i>Lasiobolus papillatus</i>	21	common
178.	<i>Geopyxis vulcanalis</i>	22	common
179.	<i>Helvella crispa</i>	23	common
180.	<i>Rhizina undulata</i>	24	common

Pezizales, Table 4B

#	Name used in Report	Count	Estimated "real" frequency
181.	<i>Tarzetta cupularis</i>	25	common
182.	<i>Geopyxis carbonaria</i>	26	common
183.	<i>Morchella angusticeps</i>	27	common
184.	<i>Geopora cooperi</i> <i>gilkeyae</i>	28	abundant
185.	<i>Peziza repanda</i>	28	common
186.	<i>Morchella conica</i>	29	common
187.	<i>Helvella solitaria</i>	30	abundant
188.	<i>Pseudoplectania melaena</i>	30	common
189.	<i>Morchella elata</i>	32	abundant
190.	<i>Hydnotrya variiformis</i>	36	abundant
191.	<i>Morchella esculenta</i>	37	abundant
192.	<i>Sarcosoma mexicanum</i> , complex	37	common
193.	<i>Elaphomyces granulatus</i>	39	abundant
194.	<i>Otidea leporina</i>	42	abundant
195.	<i>Gyromitra melaleuroides</i>	43	abundant
196.	<i>Plectania nannfeldtii</i>	44	abundant
197.	<i>Pseudoplectania nigrella</i>	44	abundant
198.	<i>Scutellinia scutellata</i>	46	abundant
199.	<i>Hydnotrya cerebriformis</i>	48	abundant
200.	<i>Aleuria aurantia</i>	49	abundant
201.	<i>Helvella elastică</i>	51	abundant
202.	<i>Helvella leucomelaena</i>	59	abundant
203.	<i>Geopora cooperi</i> f. <i>cooperi</i>	60	abundant
204.	<i>Sarcosphaera coronaria</i>	61	abundant
205.	<i>Pseudorhizina californica</i>	68	abundant
206.	<i>Caloscypha fulgens</i>	72	abundant
207.	<i>Gyromitra gigas</i> , complex	73	abundant
208.	<i>Gyromitra esculenta</i>	83	abundant
209.	<i>Discina perlata</i>		abundant
210.	<i>Helvella lacunosa</i>		abundant
211.	<i>Gyromitra infula</i>	179	abundant
	Total	2644	

Table 5A. Alphabetical listing of names with priority for consideration as "species of special concern"

#	Name of Taxon	Priority for monitoring	Postulated functional group
1.	<i>Aleuria rhenana</i>	HIGH	mycorrhizal?
2.	<i>Byssonectria cartilaginea</i>	HIGH	saprobic?
3.	<i>Geopora arenosa</i>	HIGH	mycorrhizal?
4.	<i>Geopora sepulta</i>	HIGH	mycorrhizal?
5.	<i>Helvella corium</i>	HIGH	mycorrhizal?
6.	<i>Helvella crassitunicata</i>	HIGH	mycorrhizal?
7.	<i>Morchella semilibera</i>	HIGH	saprobic?
8.	<i>Nannfeldtiella aggregata</i>	HIGH	undetermined
9.	<i>Peziza ammophila</i>	HIGH	mycorrhizal?
10.	<i>Plectania milleri</i>	HIGH	saprobic?
11.	<i>Pseudorhizina sphaerospora</i>	HIGH	saprobic?
12.	<i>Rhodoscypha ovilla</i>	HIGH	undetermined
13.	<i>Sowerbyella imperialis?</i>	HIGH	mycorrhizal?
14.	<i>Wynnella silvicola</i>	HIGH	mycorrhizal?
15.	<i>Ascobolus geophilus</i>	Medium	saprobic?
16.	<i>Balsamia platyspora</i>	Medium	mycorrhizal?
17.	<i>Balsamia vulgaris</i>	Medium	mycorrhizal?
18.	<i>Barssia oregonensis</i>	Medium	mycorrhizal?
19.	<i>Choiromyces alveolatus</i>	Medium	mycorrhizal?
20.	<i>Discina leucoxantha</i>	Medium	mycorrhizal?
21.	<i>Discina olympiana</i>	Medium	undetermined
22.	<i>Discina olympiana</i> var. <i>diluta</i>	Medium	undetermined
23.	<i>Discina olympiana</i> var. <i>olympiana</i>	Medium	undetermined
24.	<i>Elaphomyces muricatus</i>	Medium	mycorrhizal?
25.	<i>Elaphomyces subviscidus</i>	Medium	mycorrhizal?
26.	<i>Fimaria hepatica</i>	Medium	undetermined
27.	<i>Genabea cerebriformis</i>	Medium	mycorrhizal?
28.	<i>Genea intermedia</i>	Medium	mycorrhizal?
29.	<i>Gyromitra ambigua</i>	Medium	saprobic?
30.	<i>Helvella acetabulum</i>	Medium	mycorrhizal?
31.	<i>Helvella albella</i>	Medium	mycorrhizal?
32.	<i>Helvella albipes</i>	Medium	mycorrhizal?
33.	<i>Helvella atra</i>	Medium	mycorrhizal?
34.	<i>Helvella chinensis</i>	Medium	undetermined
35.	<i>Helvella compressa</i>	Medium	mycorrhizal?
36.	<i>Helvella costifera</i>	Medium	mycorrhizal?
37.	<i>Helvella cupuliformis</i>	Medium	undetermined
38.	<i>Helvella griseoalba</i>	Medium	'mycorrhizal?
39.	<i>Helvella macropus</i>	Medium	saprobic?
40.	<i>Helvella macropus</i> var. <i>macropus</i>	Medium	saprobic?
41.	<i>Helvella maculata</i>	Medium	mycorrhizal?

Pezizales, Table 5A

#	Name of Taxon	Priority for monitoring	Postulated functional group
42.	<i>Helvella stevensii</i>	Medium	mycorrhizal?
43.	<i>Helvella sulcata</i>	Medium	mycorrhizal?
44.	<i>Humaria hemispherica</i>	Medium	mycorrhizal?
45.	<i>Hydnotrya michaelis</i>	Medium	mycorrhizal?
46.	<i>Lasiobolus macrotrichus</i>	Low	saprobic?
47.	<i>Melastiza chateri</i>	Medium	undetermined
48.	<i>Morchella crassistipa</i>	Medium	saprobic?
49.	<i>Neottiella aphanodictyon</i>	Medium	undetermined
50.	<i>Neottiella rutilans</i>	Medium	undetermined
51.	<i>Neournula pouchetii</i>	Medium	mycorrhizal?
52.	<i>Octospora leucoloma</i>	Medium	undetermined
53.	<i>Octospora rubens</i>	Medium	undetermined
54.	<i>Otidea alutacea</i> var. <i>microspora</i>	Medium	mycorrhizal?
55.	<i>Otidea cantharella</i>	Medium	mycorrhizal?
56.	<i>Otidea cantharella</i> var. <i>minor</i>	Medium	mycorrhizal?
57.	<i>Otidea concinna</i>	Medium	mycorrhizal?
58.	<i>Otidea grandis</i>	Medium	mycorrhizal?
59.	<i>Otidea microscopica</i>	Medium	mycorrhizal?
60.	<i>Otidea propinquata</i>	Medium	undetermined
61.	<i>Otidea rainierensis</i>	Medium	mycorrhizal?
62.	<i>Otidea smithii</i>	Medium	mycorrhizal?
63.	<i>Pachyella babingtonii</i>	Medium	saprobic?
64.	<i>Pachyella clypeata</i>	Medium	saprobic?
65.	<i>Peziza apiculata</i>	Medium	undetermined
66.	<i>Peziza phaeotheca</i>	Medium	undetermined
67.	<i>Picoa carthusiana</i>	Medium	mycorrhizal?
68.	<i>Psilopezia nummularia</i>	Medium	saprobic?
69.	<i>Pulvinula laeterubra</i>	Medium	undetermined
70.	<i>Ramsbottomia asperior</i>	Medium	undetermined
71.	<i>Ramsbottomia</i> <i>crec'hqueraultii</i>	Medium	saprobic?
72.	<i>Sarcosoma latahense</i>	Medium	saprobic?
73.	<i>Smardaea planchonis</i>	Medium	undetermined
74.	<i>Sphaerosporella hinnulea</i>	Medium	mycorrhizal?
75.	<i>Tarzetta bronca</i>	Medium	undetermined
76.	<i>Tarzetta catinus</i>	Medium	mycorrhizal?
77.	<i>Trichophaea boudieri</i>	Medium	undetermined
78.	<i>Tuber rufum</i>	Medium	mycorrhizal?
79.	<i>Tuber rufum</i> var. <i>nitidum</i>	Medium	mycorrhizal?
80.	<i>Aleuria aurantia</i>	Low	saprobic?
81.	<i>Anthracobia macrocystis</i>	Low	saprobic?
82.	<i>Anthracobia melaloma</i>	Low	saprobic?
83.	<i>Ascobolus carbonarius</i>	Low	saprobic?
84.	<i>Ascobolus crenulatus</i>	Low	saprobic?
85.	<i>Ascobolus furfuraceus</i>	Low	saprobic?

Pezizales, Table 5A

#	Name of Taxon	Priority for monitoring	Postulated functional group
86.	<i>Ascobolus immersus</i>	Low	saprobic?
87.	<i>Caloscypha fulgens</i>	Low	saprobic?/parasitic
88.	<i>Cheilymenia coprinaria</i>	Low	saprobic?
89.	<i>Cheilymenia crucipila</i>	Low	saprobic?
90.	<i>Cheilymenia fimicola</i>	Low	saprobic?
91.	<i>Cheilymenia pulcherrima</i> , a complex	Low	saprobic?
92.	<i>Cheilymenia stercorea</i>	Low	saprobic?
93.	<i>Cheilymenia theleboloides</i>	Low	saprobic?
94.	<i>Coprobria granulata</i>	Low	saprobic?
95.	<i>Coprotus granuliformis</i>	Low	saprobic?
96.	<i>Coprotus ochraceus</i>	Low	saprobic?
97.	<i>Discina apiculatula</i>	Low	undetermined
98.	<i>Discina perlata</i>	Low	undetermined
99.	<i>Disciotis venosa</i>	Low	saprobic?
100.	<i>Elaphomyces granulatus</i>	Low	mycorrhizal?
101.	<i>Elaphomyces granulatus</i> var. <i>asperulus</i>	Low	mycorrhizal?
102.	<i>Geopora cooperi</i>	Low	mycorrhizal?
103.	<i>Geopora cooperi</i> f. <i>cooperi</i>	Low	mycorrhizal?
104.	<i>Geopora cooperi</i> f. <i>gilkeyae</i>	Low	mycorrhizal?
105.	<i>Geopyxis carbonaria</i>	Low	saprobic?
106.	<i>Geopyxis vulcanalis</i>	Low	saprobic?
107.	<i>Gyromitra esculenta</i>	Low	saprobic?
108.	<i>Gyromitra gigas</i> , complex	Low	undetermine
109.	<i>Gyromitra infula</i>	Low	saprobic?
110.	<i>Gyromitra melaleuroides</i>	Low	saprobic?
111.	<i>Gyromitra montana</i>	Low	mycorrhizal?
112.	<i>Helvella crispa</i>	Low	mycorrhizal?
113.	<i>Helvella elastica</i>	Low	mycorrhizal?
114.	<i>Helvella lacunosa</i>	Low	mycorrhizal?
115.	<i>Helvella latispora</i>	Low	mycorrhizal?
116.	<i>Helvella leucomelaena</i>	Low	mycorrhizal?
117.	<i>Helvella leucopus</i>	Low	mycorrhizal?
118.	<i>Helvella solitaria</i>	Low	saprobic?
119.	<i>Hydnotrya cerebriformis</i>	Low	mycorrhizal?
120.	<i>Hydnotrya variiformis</i>	Low	mycorrhizal?
121.	<i>Iodophanus carneus</i>	Low	saprobic?
122.	<i>Iodophanus testaceus</i>	Low	saprobic?
123.	<i>Lamprospora spinulosa</i>	Low	undetermined
124.	<i>Lamprospora tuberculatella</i>	Low	undetermined
125.	<i>Lasiobolus cuniculi</i>	Low	saprobic?
126.	<i>Lasiobolus intermedius</i>	Low	saprobic
127.	<i>Lasiobolus lasioboloides</i>	Low	saprobic
128.	<i>Lasiobolus papillatus</i>	Low	saprobic?
129.	<i>Lasiobolus ruber</i>	Low	saprobic?
130.	<i>Morchella angusticeps</i>	Low	saprobic?

Pezizales, Table 5A

#	Name of Taxon	Priority for monitoring	Postulated functional group
131.	<i>Morchella conica</i>	Low	saprobic?
132.	<i>Morchella crassipes</i>	Low	undetermined
133.	<i>Morchella deliciosa</i>	Low	saprobic?
134.	<i>Morchella elata</i>	Low	saprobic?
135.	<i>Morchella elata</i> var. <i>purpurascens</i>	Low	saprobic?
136.	<i>Morchella esculenta</i>	Low	undetermined
137.	<i>Morchella hotzonii</i>	Low	saprobic?
138.	<i>Morchella rielana</i>	Low	saprobic?
139.	<i>Morchella spongiola</i>	Low	saprobic?
140.	<i>Octospora coccinea</i>	Low	undetermined
141.	<i>Octospora semimmersa</i>	Low	undetermined
142.	<i>Otidea alutacea</i>	Low	mycorrhizal?
143.	<i>Otidea alutacea</i> var. <i>alutacea</i>	Low	mycorrhizal?
144.	<i>Otidea leporina</i>	Low	mycorrhizal?
145.	<i>Otidea leporina</i> var. <i>leporina</i>	Low	mycorrhizal?
146.	<i>Otidea leporina</i> var. <i>minor</i>	Low	mycorrhizal?
147.	<i>Otidea onotica</i>	Low	mycorrhizal?
148.	<i>Peziza ampliata</i>	Low	undetermined
149.	<i>Peziza arvernensis</i>	Low	saprobic?
150.	<i>Peziza atrovinosa</i>	Low	undetermined
151.	<i>Peziza badia</i>	Low	undetermined
152.	<i>Peziza badioconfusa</i>	Low	undetermined
153.	<i>Peziza brunneoatra</i>	Low	undetermined
154.	<i>Peziza cerea</i>	Low	undetermined
155.	<i>Peziza domiciliana</i>	Low	saprobic?
156.	<i>Peziza echinospora</i>	Low	saprobic?
157.	<i>Peziza emileia</i>	Low	undetermined
158.	<i>Peziza fimeti</i>	Low	saprobic?
159.	<i>Peziza gerardi</i>	Low	undetermined
160.	<i>Peziza limosa</i>	Low	undetermined
161.	<i>Peziza petersii</i>	Low	saprobic?
162.	<i>Peziza praetervisa</i>	Low	saprobic?
163.	<i>Peziza proteana</i> var. <i>sparassooides</i>	Low	saprobic?
164.	<i>Peziza repanda</i>	Low	saprobic?
165.	<i>Peziza spissa</i>	Low	undetermined
166.	<i>Peziza sterigmatizans</i>	Low	saprobic?
167.	<i>Peziza succosa</i>	Low	undetermined
168.	<i>Peziza varia</i>	Low	saprobic?
169.	<i>Peziza vesiculosus</i>	Low	saprobic
170.	<i>Peziza violacea</i>	Low	saprobic?
171.	<i>Pithya cupressina</i>	Low	saprobic?/parasitic?
172.	<i>Pithya vulgaris</i>	Low	saprobic?/parasitic?
173.	<i>Plectania melastoma</i>	Low	saprobic?
174.	<i>Plectania nannfeldtii</i>	Low	saprobic?

Pezizales, Table 5A

#	Name of Taxon	Priority for monitoring	Postulated functional group
175.	<i>Plicaria endocarpoides</i>	Low	saprobic?
176.	<i>Plicaria trachycarpa</i>	Low	saprobic?
177.	<i>Pseudoplectania melaena</i>	Low	saprobic?
178.	<i>Pseudoplectania nigrella</i>	Low	saprobic?
179.	<i>Pseudorhizina californica</i>	Low	undetermined
180.	<i>Pulvinula archeri</i>	Low	saprobic?
181.	<i>Pulvinula carbonaria</i>	Low	saprobic?
182.	<i>Pulvinula convexella</i>	Low	saprobic?
183.	<i>Pyronema omphalodes</i>	Low	saprobic?
184.	<i>Rhizina undulata</i>	Low	Saprobic/parasitic
185.	<i>Saccobolus depauperatus</i>	Low	saprobic?
186.	<i>Saccobolus glaber</i>	Low	saprobic?
187.	<i>Saccobolus versicolor</i>	Low	saprobic?
188.	<i>Saccobolus violascens</i>	Low	saprobic?
189.	<i>Sarcosoma mexicanum, complex</i>	Low	saprobic?
190.	<i>Sarcosphaera coronaria</i>	Low	undetermined
191.	<i>Scutellinia crinita</i>	Low	saprobic?
192.	<i>Scutellinia erinaceus</i>	Low	saprobic?
193.	<i>Scutellinia scutellata</i>	Low	saprobic?
194.	<i>Scutellinia setosa</i>	Low	saprobic?
195.	<i>Scutellinia umbrorum</i>	Low	undetermined
196.	<i>Tarzetta cupularis</i>	Low	saprobic?
197.	<i>Thecotheus apiculatus</i>	Low	saprobic?
198.	<i>Thecotheus cinereus</i>	Low	saprobic?
199.	<i>Thecotheus pelletieri</i>	Low	saprobic?
200.	<i>Thelebolus obscurus</i>	Low	saprobic?
201.	<i>Tricharina gilva</i>	Low	saprobic?
202.	<i>Tricharina praecox</i> var. <i>intermedia</i>	Low	saprobic?
203.	<i>Trichobolus zukalii</i>	Low	saprobic?
204.	<i>Trichophaea abundans</i>	Low	undetermined
205.	<i>Trichophaea albospadicea</i>	Low	undetermined
206.	<i>Trichophaea hybrida</i>	Low	undetermined
207.	<i>Trichophaea pseudogregaria</i>	Low	undetermined
208.	<i>Trichophaea</i> sp.	Low	undetermined
209.	<i>Tuber irrasians</i>	Low	mycorrhizal?
210.	<i>Verpa bohemica</i>	Low	saprobic?
211.	<i>Verpa conica</i>	Low	saprobic?

Table 5B. Names arranged by priority for consideration as
"species of special concern"

#	Name of Taxon	Priority for monitoring	Postulated functional group
1.	<i>Aleuria rhenana</i>	HIGH	mycorrhizal?
2.	<i>Byssonectria cartilaginea</i>	HIGH	saprobic?
3.	<i>Geopora arenosa</i>	HIGH	mycorrhizal?
4.	<i>Geopora sepulta</i>	HIGH	mycorrhizal?
5.	<i>Helvella corium</i>	HIGH	mycorrhizal?
6.	<i>Helvella crassitunicata</i>	HIGH	mycorrhizal?
7.	<i>Morchella semilibera</i>	HIGH	saprobic?
8.	<i>Nannfeldtiella aggregata</i>	HIGH	undetermined
9.	<i>Peziza ammophila</i>	HIGH	mycorrhizal?
10.	<i>Plectania milleri</i>	HIGH	saprobic?
11.	<i>Pseudorhizina sphaerospora</i>	HIGH	saprobic?
12.	<i>Rhodoscypha ovilla</i>	HIGH	undetermined
13.	<i>Sowerbyella imperialis?</i>	HIGH	mycorrhizal?
14.	<i>Wynnella silvicola</i>	HIGH	mycorrhizal?
15.	<i>Ascobolus geophilus</i>	Medium	saprobic?
16.	<i>Balsamia platyspora</i>	Medium	mycorrhizal?
17.	<i>Balsamia vulgaris</i>	Medium	mycorrhizal?
18.	<i>Barssia oreogrenensis</i>	Medium	mycorrhizal?
19.	<i>Choiromyces solatus</i>	Medium	mycorrhizal?
20.	<i>Discina leucoxantha</i>	Medium	mycorrhizal?
21.	<i>Discina olympiana</i>	Medium	undetermined
22.	<i>Discina olympiana</i> var. <i>diluta</i>	Medium	undetermined
23.	<i>Discina olympiana</i> var. <i>olympiana</i>	Medium	undetermined
24.	<i>Elaphomyces muricatus</i>	Medium	mycorrhizal?
25.	<i>Elaphomyces subviscidus</i>	Medium	mycorrhizal?
26.	<i>Fimaria hepatica</i>	Medium	undetermined
27.	<i>Genabea cerebriformis</i>	Medium	mycorrhizal?
28.	<i>Genea intermedia</i>	Medium	mycorrhizal?
29.	<i>Gyromitra ambigua</i>	Medium	saprobic?
30.	<i>Helvella acetabulum</i>	Medium	mycorrhizal?
31.	<i>Helvella albella</i>	Medium	mycorrhizal?
32.	<i>Helvella albipes</i>	Medium	mycorrhizal?
33.	<i>Helvella atra</i>	Medium	mycorrhizal?
34.	<i>Helvella chinensis</i>	Medium	undetermined
35.	<i>Helvella compressa</i>	Medium	mycorrhizal?
36.	<i>Helvella costifera</i>	Medium	mycorrhizal?
37.	<i>Helvella cupuliformis</i>	Medium	undetermined
38.	<i>Helvella griseoalba</i>	Medium	mycorrhizal?
39.	<i>Helvella macropus</i>	Medium	saprobic?
40.	<i>Helvella macropus</i> var. <i>macropus</i>	Medium	saprobic?
41.	<i>Helvella maculata</i>	Medium	mycorrhizal?

#	Name of Taxon	Priority for monitoring	Postulated functional group
42.	<i>Helvella stevensii</i>	Medium	mycorrhizal?
43.	<i>Helvella sulcata</i>	Medium	mycorrhizal?
44.	<i>Humaria hemispherica</i>	Medium	mycorrhizal?
45.	<i>Hydnotrya michaelis</i>	Medium	mycorrhizal?
46.	<i>Lasiobolus macrotrichus</i>	Low	saprobic?
47.	<i>Melastiza chateri</i>	Medium	undetermined
48.	<i>Morchella crassistipa</i>	Medium	saprobic?
49.	<i>Neottiella aphanodictyon</i>	Medium	undetermined
50.	<i>Neottiella rutilans</i>	Medium	undetermined
51.	<i>Neournula pouchetii</i>	Medium	mycorrhizal?
52.	<i>Octospora leucoloma</i>	Medium	undetermined
53.	<i>Octospora rubens</i>	Medium	undetermined
54.	<i>Otidea alutacea</i> var. <i>microspora</i>	Medium	mycorrhizal?
55.	<i>Otidea cantharella</i>	Medium	mycorrhizal?
56.	<i>Otidea cantharella</i> var. <i>minor</i>	Medium	mycorrhizal?
57.	<i>Otidea concinna</i>	Medium	mycorrhizal?
58.	<i>Otidea grandis</i>	Medium	mycorrhizal?
59.	<i>Otidea microscopica</i>	Medium	mycorrhizal?
60.	<i>Otidea propinquata</i>	Medium	undetermined
61.	<i>Otidea rainieriensis</i>	Medium	mycorrhizal?
62.	<i>Otidea smithii</i>	Medium	mycorrhizal?
63.	<i>Pachyella babingtonii</i>	Medium	saprobic?
64.	<i>Pachyella clypeata</i>	Medium	saprobic?
65.	<i>Peziza apiculata</i>	Medium	undetermined
66.	<i>Peziza phaeotheca</i>	Medium	undetermined
67.	<i>Picoa carthusiana</i>	Medium	mycorrhizal?
68.	<i>Psilopezia nummularia</i>	Medium	saprobic?
69.	<i>Pulvinula laeterubra</i>	Medium	undetermined
70.	<i>Ramsbottomia asperior</i>	Medium	undetermined
71.	<i>Ramsbottomia</i> <i>crec'hqueraultii</i>	Medium	saprobic?
72.	<i>Sarcosoma latahense</i>	Medium	saprobic?
73.	<i>Smardaea planchonis</i>	Medium	undetermined
74.	<i>Sphaerosporella hinnulea</i>	Medium	mycorrhizal?
75.	<i>Tarzetta bronca</i>	Medium	undetermined
76.	<i>Tarzetta catinus</i>	Medium	mycorrhizal?
77.	<i>Trichophaea boudieri</i>	Medium	undetermined
78.	<i>Tuber rufum</i>	Medium	mycorrhizal?
79.	<i>Tuber rufum</i> var. <i>nitidum</i>	Medium	mycorrhizal?
80.	<i>Aleuria aurantia</i>	Low	saprobic?
81.	<i>Anthracobia macrocystis</i>	Low	saprobic?
82.	<i>Anthracobia melaloma</i>	Low	saprobic?
83.	<i>Ascobolus carbonarius</i>	Low	saprobic?
84.	<i>Ascobolus crenulatus</i>	Low	saprobic?
85.	<i>Ascobolus furfuraceus</i>	Low	saprobic?

Pezizales, Table 5B

#	Name of Taxon	Priority for monitoring	Postulated functional group
86.	<i>Ascobolus immersus</i>	Low	saprobic?
87.	<i>Caloscypha fulgens</i>	Low	saprobic?/parasitic
88.	<i>Cheilymenia coprinaria</i>	Low	saprobic?
89.	<i>Cheilymenia crucigera</i>	Low	saprobic?
90.	<i>Cheilymenia fimicula</i>	Low	saprobic?
91.	<i>Cheilymenia pulcherrima</i> , a complex	Low	saprobic?
92.	<i>Cheilymenia stercorea</i>	Low	saprobic?
93.	<i>Cheilymenia theleboloides</i>	Low	saprobic?
94.	<i>Coprobria granulata</i>	Low	saprobic?
95.	<i>Coprotus granuliformis</i>	Low	saprobic?
96.	<i>Coprotus ochraceus</i>	Low	saprobic?
97.	<i>Discina apiculatula</i>	Low	undetermined
98.	<i>Discina perlata</i>	Low	undetermined
99.	<i>Disciotis venosa</i>	Low	saprobic?
100.	<i>Elaphomyces granulatus</i>	Low	mycorrhizal?
101.	<i>Elaphomyces granulatus</i> var. <i>asperulus</i>	Low	mycorrhizal?
102.	<i>Geopora cooperi</i>	Low	mycorrhizal?
103.	<i>Geopora cooperi</i> f. <i>cooperi</i>	Low	mycorrhizal?
104.	<i>Geopora cooperi</i> f. <i>gilkeyae</i>	Low	mycorrhizal?
105.	<i>Geopyxis carbonaria</i>	Low	saprobic?
106.	<i>Geopyxis vulcanalis</i>	Low	saprobic?
107.	<i>Gyromitra esculenta</i>	Low	saprobic?
108.	<i>Gyromitra gigas</i> , complex	Low	undetermined
109.	<i>Gyromitra infula</i>	Low	saprobic?
110.	<i>Gyromitra melaleuroides</i>	Low	saprobic?
111.	<i>Gyromitra montana</i>	Low	mycorrhizal?
112.	<i>Helvella crispa</i>	Low	mycorrhizal?
113.	<i>Helvella elastica</i>	Low	mycorrhizal?
114.	<i>Helvella lacunosa</i>	Low	mycorrhizal?
115.	<i>Helvella latispora</i>	Low	mycorrhizal?
116.	<i>Helvella leucomelaena</i>	Low	mycorrhizal?
117.	<i>Helvella leucopus</i>	Low	mycorrhizal?
118.	<i>Helvella solitaria</i>	Low	saprobic?
119.	<i>Hydnotrya cerebriformis</i>	Low	mycorrhizal?
120.	<i>Hydnotrya variiformis</i>	Low	mycorrhizal?
121.	<i>Iodophanus carneus</i>	Low	saprobic?
122.	<i>Iodophanus testaceus</i>	Low	saprobic?
123.	<i>Lamprospora spinulosa</i>	Low	undetermined
124.	<i>Lamprospora tuberculatella</i>	Low	undetermined
125.	<i>Lasiobolus cuniculi</i>	Low	saprobic?
126.	<i>Lasiobolus intermedius</i>	Low	saprobic
127.	<i>Lasiobolus lasioboloides</i>	Low	saprobic
128.	<i>Lasiobolus papillatus</i>	Low	saprobic?
129.	<i>Lasiobolus ruber</i>	Low	saprobic?
130.	<i>Morchella angusticeps</i>	Low	saprobic?

#	Name of Taxon	Priority for monitoring	Postulated functional group
131.	<i>Morchella conica</i>	Low	saprobic?
132.	<i>Morchella crassipes</i>	Low	undetermined
133.	<i>Morchella deliciosa</i>	Low	saprobic?
134.	<i>Morchella elata</i>	Low	saprobic?
135.	<i>Morchella elata</i> var. <i>purpurascens</i>	Low	saprobic?
136.	<i>Morchella esculenta</i>	Low	undetermined
137.	<i>Morchella hotsonii</i>	Low	saprobic?
138.	<i>Morchella rielana</i>	Low	saprobic?
139.	<i>Morchella spongiola</i>	Low	saprobic?
140.	<i>Octospora coccinea</i>	Low	undetermined
141.	<i>Octospora semiimmersa</i>	Low	undetermined
142.	<i>Otidea alutacea</i>	Low	mycorrhizal?
143.	<i>Otidea alutacea</i> var. <i>alutacea</i>	Low	mycorrhizal?
144.	<i>Otidea leporina</i>	Low	mycorrhizal?
145.	<i>Otidea leporina</i> var. <i>leporina</i>	Low	mycorrhizal?
146.	<i>Otidea leporina</i> var. <i>minor</i>	Low	mycorrhizal?
147.	<i>Otidea onotica</i>	Low	mycorrhizal?
148.	<i>Peziza ampliata</i>	Low	undetermined
149.	<i>Peziza arvernensis</i>	Low	saprobic?
150.	<i>Peziza atrovinosa</i>	Low	undetermined
151.	<i>Peziza badia</i>	Low	undetermined
152.	<i>Peziza badioconfusa</i>	Low	undetermined
153.	<i>Peziza brunneoatra</i>	Low	undetermined
154.	<i>Peziza cerea</i>	Low	undetermined
155.	<i>Peziza domiciliana</i>	Low	saprobic?
156.	<i>Peziza echinospora</i>	Low	saprobic?
157.	<i>Peziza emileia</i>	Low	undetermined
158.	<i>Peziza fimeti</i>	Low	saprobic?
159.	<i>Peziza gerardi</i>	Low	undetermined
160.	<i>Peziza limosa</i>	Low	undetermined
161.	<i>Peziza petersii</i>	Low	saprobic?
162.	<i>Peziza praetervisa</i>	Low	saprobic?
163.	<i>Peziza proteana</i> var. <i>sparassoides</i>	Low	saprobic?
164.	<i>Peziza repanda</i>	Low	saprobic?
165.	<i>Peziza spissa</i>	Low	undetermined
166.	<i>Peziza sterigmatizans</i>	Low	saprobic?
167.	<i>Peziza succosa</i>	Low	undetermined
168.	<i>Peziza varia</i>	Low	saprobic?
169.	<i>Peziza vesiculosa</i>	Low	saprobic
170.	<i>Peziza violacea</i>	Low	saprobic?
171.	<i>Pithya cupressina</i>	Low	saprobic?/parasitic?
172.	<i>Pithya vulgaris</i>	Low	saprobic?/parasitic?
173.	<i>Plectania melastoma</i>	Low	saprobic?
174.	<i>Plectania nannfeldtii</i>	Low	saprobic?

#	Name of Taxon	Priority for monitoring	Postulated functional group
175.	<i>Plicaria endocarpoides</i>	Low	saprobic?
176.	<i>Plicaria trachycarpa</i>	Low	saprobic?
177.	<i>Pseudoplectania melaena</i>	Low	saprobic?
178.	<i>Pseudoplectania nigrella</i>	Low	saprobic?
179.	<i>Pseudorhizina californica</i>	Low	undetermined
180.	<i>Pulvinula archeri</i>	Low	saprobic?
181.	<i>Pulvinula carbonaria</i>	Low	saprobic?
182.	<i>Pulvinula convexella</i>	Low	saprobic?
183.	<i>Pyronema omphalodes</i>	Low	saprobic?
184.	<i>Rhizina undulata</i>	Low	saprobic/parasitic
185.	<i>Saccobolus depauperatus</i>	Low	saprobic?
186.	<i>Saccobolus glaber</i>	Low	saprobic?
187.	<i>Saccobolus versicolor</i>	Low	saprobic?
188.	<i>Saccobolus violascens</i>	Low	saprobic?
189.	<i>Sarcosoma mexicanum,</i> complex	Low	saprobic?
190.	<i>Sarcosphaera coronaria</i>	Low	undetermined
191.	<i>Scutellinia crinita</i>	Low	saprobic?
192.	<i>Scutellinia erinaceus</i>	Low	saprobic?
193.	<i>Scutellinia scutellata</i>	Low	saprobic?
194.	<i>Scutellinia setosa</i>	Low	saprobic?
195.	<i>Scutellinia umbrorum</i>	Low	undetermined
196.	<i>Tarzetta cupularis</i>	Low	saprobic?
197.	<i>Thecotheus apiculatus</i>	Low	saprobic?
198.	<i>Thecotheus cinereus</i>	Low	saprobic?
199.	<i>Thecotheus pelletieri</i>	Low	saprobic?
200.	<i>Thelebolus obscurus</i>	Low	saprobic?
201.	<i>Tricharina gilva</i>	Low	saprobic?
202.	<i>Tricharina praecox</i> var. <i>intermedia</i>	Low	saprobic?
203.	<i>Trichobolus zukalii</i>	Low	saprobic?
204.	<i>Trichophaea abundans</i>	Low	undetermined
205.	<i>Trichophaea albospadicea</i>	Low	undetermined
206.	<i>Trichophaea hybrida</i>	Low	undetermined
207.	<i>Trichophaea pseudogregaria</i>	Low	undetermined
208.	<i>Trichophaea</i> sp.	Low	undetermined
209.	<i>Tuber irrasdians</i>	Low	mycorrhizal?
210.	<i>Verpa bohemica</i>	Low	saprobic?
211.	<i>Verpa conica</i>	Low	saprobic?

Table 6. Substrate data for Pezizales arranged by priority groups for consideration as species of special concern

#	Name in use	Substrate
Priority: HIGH		
1.	<i>Aleuria rhenana</i>	soil
2.	<i>Byssonectria cartilaginea</i>	dung, typically herbivore
3.	<i>Geopora arenosa</i>	soil
4.	<i>Geopora sepulta</i>	soil
5.	<i>Helvella corium</i>	soil
6.	<i>Helvella crassitunicata</i>	soil
7.	<i>Morchella semilibera</i>	soil
8.	<i>Nannfeldtiella aggregata</i>	soil
9.	<i>Peziza ammophila</i>	soil (seemingly pure sand)
10.	<i>Plectania milleri</i>	soil, conifer litter
11.	<i>Pseudorhizina sphaerospora</i>	wood/woody debris, conifer/hardwood
12.	<i>Rhodoscypha ovilla</i>	soil
13.	<i>Sowerbyella imperialis?</i>	soil
14.	<i>Wynnella silvicola</i>	soil
Priority: Medium		
15.	<i>Ascobolus geophilus</i>	damp soil, wood
16.	<i>Balsamia platyspora</i>	soil
17.	<i>Balsamia vulgaris</i>	soil
18.	<i>Barssia oregonensis</i>	soil
19.	<i>Choiromyces alveolatus</i>	soil
20.	<i>Discina leucoxantha</i>	soil
21.	<i>Discina olympiana</i>	soil
22.	<i>Discina olympiana</i> var. <i>diluta</i>	soil
23.	<i>Discina olympiana</i> var. <i>olympiana</i>	no data
24.	<i>Elaphomyces muricatus</i>	soil
25.	<i>Elaphomyces subviscidus</i>	soil
26.	<i>Fimaria hepatica</i>	no data
27.	<i>Genabea cerebriformis</i>	soil
28.	<i>Genea intermedia</i>	soil
29.	<i>Gyromitra ambigua</i>	slight?
30.	<i>Helvella acetabulum</i>	soil
31.	<i>Helvella albella</i>	soil
32.	<i>Helvella albipes</i>	soil
33.	<i>Helvella atra</i>	soil
34.	<i>Helvella chinensis</i>	soil
35.	<i>Helvella compressa</i>	soil
36.	<i>Helvella costifera</i>	soil
37.	<i>Helvella cupuliformis</i>	soil
38.	<i>Helvella griseoalba</i>	soil

39. <i>Helvella macropus</i>	soil, wood or woody debris
40. <i>Helvella macropus</i> var. <i>macropus</i>	soil, wood or woody debris
41. <i>Helvella maculata</i>	soil
42. <i>Helvella stevensii</i>	soil
43. <i>Helvella sulcata</i>	soil
44. <i>Humaria hemispherica</i>	soil
45. <i>Hydnomyces michaelis</i>	soil
46. <i>Lasiobolus macrotrichus</i>	dung, typically herbivore
47. <i>Melastiza chateri</i>	soil
48. <i>Morchella crassistipa</i>	soil
49. <i>Neottiella aphanodictyon</i>	bryophytes (esp. <i>Polytrichum</i>)
50. <i>Neottiella rutilans</i>	bryophytes (esp. <i>Polytrichum</i>)
51. <i>Neournula pouchetii</i>	soil
52. <i>Octospora leucoloma</i>	bryophytes
53. <i>Octospora rubens</i>	bryophytes
54. <i>Otidea alutacea</i> var. <i>microspora</i>	soil
55. <i>Otidea cantharella</i>	soil
56. <i>Otidea cantharella</i> var. <i>minor</i>	soil
57. <i>Otidea concinna</i>	soil
58. <i>Otidea grandis</i>	soil
59. <i>Otidea microscopica</i>	soil
60. <i>Otidea propinquata</i>	unknown
61. <i>Otidea rainierensis</i>	soil
62. <i>Otidea smithii</i>	soil
63. <i>Pachyella babingtonii</i>	wood/woody debris, hardwood?
64. <i>Pachyella clypeata</i>	wood/woody debris, hardwood?
65. <i>Peziza apiculata</i>	no data
66. <i>Peziza phaeotheca</i>	soil
67. <i>Picoa carthusiana</i>	soil
68. <i>Psilopezia nummularia</i>	wood/woody debris, hardwood
69. <i>Pulvinula laeterubra</i>	bryophytes?
70. <i>Ramsbottomia asperior</i>	soil
71. <i>Ramsbottomia crec'hqueraultii</i>	soil
72. <i>Sarcosoma latahense</i>	conifer litter
73. <i>Smardaea planchonis</i>	soil
74. <i>Sphaerosporella hinnulea</i>	soil
75. <i>Tarzetta bronca</i>	soil
76. <i>Tarzetta catinus</i>	soil
77. <i>Trichophaea boudieri</i>	soil?
78. <i>Tuber rufum</i>	soil
79. <i>Tuber rufum</i> var. <i>nitidum</i>	soil?

Priority: Low

80. <i>Aleuria aurantia</i>	soil
81. <i>Anthracobia macrocystis</i>	burned/heated soil/organic matter
82. <i>Anthracobia melaloma</i>	burned/heated soil/organic matter
83. <i>Ascobolus carbonarius</i>	burned/heated soil/organic matter
84. <i>Ascobolus crenulatus</i>	dung, typically herbivore
85. <i>Ascobolus furfuraceus</i>	dung, typically herbivore

86. <i>Ascobolus immersus</i>	dung, typically herbivore
87. <i>Caloscypha fulgens</i>	soil
88. <i>Cheilymenia coprinaria</i>	dung, typically herbivore
89. <i>Cheilymenia crucipila</i>	dung, typically herbivore
90. <i>Cheilymenia fimicola</i>	dung, typically herbivore
91. <i>Cheilymenia pulcherrima</i> , a complex	dung, typically herbivore
92. <i>Cheilymenia stercorea</i>	dung, typically herbivore
93. <i>Cheilymenia theleboloides</i>	dung, typically herbivore
94. <i>Coprobria granulata</i>	dung, typically herbivore
95. <i>Coprotus granuliformis</i>	dung, typically herbivore
96. <i>Coprotus ochraceus</i>	dung, typically herbivore
97. <i>Discina apiculatula</i>	soil
98. <i>Discina perlata</i>	soil
99. <i>Disciotis venosa</i>	soil
100. <i>Elaphomyces granulatus</i>	soil
101. <i>Elaphomyces granulatus</i> var. <i>asperulus</i>	soil
102. <i>Geopora cooperi</i>	soil
103. <i>Geopora cooperi</i> f. <i>cooperi</i>	soil
104. <i>Geopora cooperi</i> f. <i>gilkeyae</i>	soil
105. <i>Geopyxis carbonaria</i>	burned/heated soil/organic matter
106. <i>Geopyxis vulcanalis</i>	burned/heated soil/organic matter
107. <i>Gyromitra esculenta</i>	soil
108. <i>Gyromitra gigas</i> , complex	soil
109. <i>Gyromitra infula</i>	soil/wood or woody debris
110. <i>Gyromitra melaleuroides</i>	wood/woody debris, conifer
111. <i>Gyromitra montana</i>	soil
112. <i>Helvella crispa</i>	soil
113. <i>Helvella elastica</i>	soil
114. <i>Helvella lacunosa</i>	soil
115. <i>Helvella latispora</i>	soil
116. <i>Helvella leucomelaena</i>	soil
117. <i>Helvella leucopus</i>	soil
118. <i>Helvella solitaria</i>	soil
119. <i>Hydnotrya cerebriformis</i>	soil
120. <i>Hydnotrya variiformis</i>	soil
121. <i>Iodophanus carneus</i>	dung, typically herbivore
122. <i>Iodophanus testaceus</i>	dung, typically herbivore
123. <i>Lamprospora spinulosa</i>	soil
124. <i>Lamprospora tuberculatella</i>	soil?
125. <i>Lasiobolus cuniculi</i>	dung, typically herbivore
126. <i>Lasiobolus intermedius</i>	dung, typically herbivore
127. <i>Lasiobolus lasioboloides</i>	dung, typically herbivore
128. <i>Lasiobolus papillatus</i>	dung, typically herbivore
129. <i>Lasiobolus ruber</i>	dung, typically herbivore
130. <i>Morchella angusticeps</i>	soil
131. <i>Morchella conica</i>	soil
132. <i>Morchella crassipes</i>	soil
133. <i>Morchella deliciosa</i>	soil
134. <i>Morchella elata</i>	soil
135. <i>Morchella elata</i> var. <i>purpurascens</i>	soil

136. <i>Morchella esculenta</i>	soil
137. <i>Morchella hotsonii</i>	soil
138. <i>Morchella rielana</i>	soil
139. <i>Morchella spongiola</i>	soil
140. <i>Octospora coccinea</i>	soil
141. <i>Octospora semiimmersa</i>	unknown
142. <i>Otidea alutacea</i>	soil
143. <i>Otidea alutacea</i> var. <i>alutacea</i>	soil
144. <i>Otidea leporina</i>	soil
145. <i>Otidea leporina</i> var. <i>leporina</i>	soil
146. <i>Otidea leporina</i> var. <i>minor</i>	soil
147. <i>Otidea onotica</i>	soil
148. <i>Peziza ampliata</i>	soil
149. <i>Peziza arvernensis</i>	wood/woody debris, hardwood
150. <i>Peziza atrovinosa</i>	no data
151. <i>Peziza badia</i>	soil
152. <i>Peziza badioconfusa</i>	soil
153. <i>Peziza brunneoatra</i>	soil
154. <i>Peziza cerea</i>	soil
155. <i>Peziza domiciliana</i>	no data
156. <i>Peziza echinospora</i>	burned/heated soil/organic matter
157. <i>Peziza emileia</i>	no data
158. <i>Peziza fimeti</i>	dung, typically herbivore
159. <i>Peziza gerardi</i>	no data
160. <i>Peziza limosa</i>	no data
161. <i>Peziza petersii</i>	burned/heated soil/organic matter
162. <i>Peziza praetervisa</i>	burned/heated soil/organic
163. <i>Peziza proteana</i> var. <i>sparassoides</i>	burned/heated soil/organic matter
164. <i>Peziza repanda</i>	wood/woody debris, hardwood
165. <i>Peziza spissa</i>	soil
166. <i>Peziza sterigmatizans</i>	burned/heated soil/organic matter
167. <i>Peziza succosa</i>	soil
168. <i>Peziza varia</i>	plaster, building debris
169. <i>Peziza vesiculosa</i>	non-woody plant material
170. <i>Peziza violacea</i>	burned/heated soil/organic matter
171. <i>Pithya cupressina</i>	recently dead twigs/needles of conifers
172. <i>Pithya vulgaris</i>	recently dead twigs/needles of conifers
173. <i>Plectania melastoma</i>	soil, conifer litter
174. <i>Plectania nannfeldtii</i>	conifer litter
175. <i>Plicaria endocarpoides</i>	burned/heated soil/organic matter
176. <i>Plicaria trachycarpa</i>	burned/heated soil/organic matter
177. <i>Pseudoplectania melaena</i>	conifer litter
178. <i>Pseudoplectania nigrella</i>	soil, conifer litter
179. <i>Pseudorhizina californica</i>	soil

180. <i>Pulvinula archeri</i>	burned/heated soil/organic matter
181. <i>Pulvinula carbonaria</i>	burned/heated soil/organic matter
182. <i>Pulvinula convexella</i>	burned/heated soil/organic matter
183. <i>Pyronema omphalodes</i>	burned/heated soil/organic matter
184. <i>Rhizina undulata</i>	burned/heated soil/organic matter
185. <i>Saccobolus depauperatus</i>	dung, typically herbivore
186. <i>Saccobolus glaber</i>	dung, typically herbivore
187. <i>Saccobolus versicolor</i>	dung, typically herbivore
188. <i>Saccobolus violascens</i>	dung, typically herbivore
189. <i>Sarcosoma mexicanum</i> , complex	conifer litter
190. <i>Sarcosphaera coronaria</i>	soil
191. <i>Scutellinia crinita</i>	dung, typically herbivore
192. <i>Scutellinia erinaceus</i>	wood/woody debris, hardwood/conifer
193. <i>Scutellinia scutellata</i>	wood/woody debris, hardwood/conifer
194. <i>Scutellinia setosa</i>	wood/woody debris, hardwood soil
195. <i>Scutellinia umbrorum</i>	burned/heated soil/organic matter
196. <i>Tarzetta cupularis</i>	dung, typically herbivore
197. <i>Thecotheus apiculatus</i>	dung, typically herbivore
198. <i>Thecotheus cinereus</i>	dung, typically herbivore
199. <i>Thecotheus pelletieri</i>	dung, typically herbivore
200. <i>Thelebolus obscurus</i>	dung, typically herbivore
201. <i>Tricharina gilva</i>	burned/heated soil/organic matter
202. <i>Tricharina praecox</i> var. <i>intermedia</i>	burned/heated soil/organic matter
203. <i>Trichobolus zukalii</i>	dung, typically herbivore
204. <i>Trichophaea abundans</i>	soil
205. <i>Trichophaea albospadicea</i>	soil
206. <i>Trichophaea hybrida</i>	soil
207. <i>Trichophaea pseudogregaria</i>	soil
208. <i>Trichophaea</i> sp.	no data
209. <i>Tuber iradians</i>	soil?
210. <i>Verpa bohemica</i>	soil
211. <i>Verpa conica</i>	soil

Table 7. Estimated tolerance of disturbance of Pezizales arranged by priority groups for consideration as "species of special concern"

#	Name in use	Tolerance of Disturbance
Priority: HIGH		
1.	<i>Aleuria rhenana</i>	low
2.	<i>Byssonectria cartilaginea</i>	that of the "producers" of substrate
3.	<i>Geopora arenosa</i>	unable to rate
4.	<i>Geopora sepulta</i>	unable to rate
5.	<i>Helvella corium</i>	slight
6.	<i>Helvella crassitunicata</i>	slight
7.	<i>Morchella semilibera</i>	slight/moderate
8.	<i>Nannfeldtiella aggregata</i>	unable to rate
9.	<i>Peziza ammophila</i>	slight
10.	<i>Plectania milleri</i>	slight
11.	<i>Pseudorhizina sphaerospora</i>	low?
12.	<i>Rhodoscypha ovilla</i>	slight
13.	<i>Sowerbyella imperialis?</i>	low
14.	<i>Wynnella silvicola</i>	slight?
Priority: Medium		
15.	<i>Ascobolus geophilus</i>	moderate?
16.	<i>Balsamia platyspora</i>	unable to rate
17.	<i>Balsamia vulgaris</i>	unable to rate
18.	<i>Barssia oregonensis</i>	unable to rate
19.	<i>Choiromyces alveolatus</i>	unable to rate
20.	<i>Discina leucoxantha</i>	slight
21.	<i>Discina olympiana</i>	unable to rate
22.	<i>Discina olympiana</i> var. <i>diluta</i>	unable to rate
23.	<i>Discina olympiana</i> var. <i>olympiana</i>	unable to rate
24.	<i>Elaphomyces muricatus</i>	low
25.	<i>Elaphomyces subviscidus</i>	low
26.	<i>Fimaria hepatica</i>	unable to rate
27.	<i>Genabea cerebriformis</i>	low
28.	<i>Genea intermedia</i>	low
29.	<i>Gyromitra ambigua</i>	moderate?
30.	<i>Helvella acetabulum</i>	slight
31.	<i>Helvella albella</i>	slight
32.	<i>Helvella albipes</i>	slight
33.	<i>Helvella atra</i>	slight
34.	<i>Helvella chinensis</i>	moderate
35.	<i>Helvella compressa</i>	slight
36.	<i>Helvella costifera</i>	slight
37.	<i>Helvella cupuliformis</i>	slight
38.	<i>Helvella griseoalba</i>	slight
39.	<i>Helvella macropus</i>	slight

40.	<i>Helvella macropus</i> var. <i>macropus</i>	slight
41.	<i>Helvella maculata</i>	low
42.	<i>Helvella stevensii</i>	slight
43.	<i>Helvella sulcata</i>	slight
44.	<i>Humaria hemispherica</i>	low
45.	<i>Hydnotrya michaelis</i>	low
46.	<i>Lasiobolus macrotrichus</i>	that of the "producers" of substrate
47.	<i>Melastiza chateri</i>	requires disturbance
48.	<i>Morchella crassistipa</i>	unable to determine
49.	<i>Neottiella aphanodictyon</i>	low
50.	<i>Neottiella rutilans</i>	low
51.	<i>Neournula pouchetii</i>	low
52.	<i>Octospora leucoloma</i>	unable to rate
53.	<i>Octospora rubens</i>	unable to rate
54.	<i>Otidea alutacea</i> var. <i>microspora</i>	slight
55.	<i>Otidea cantharella</i>	low
56.	<i>Otidea cantharella</i> var. <i>minor</i>	low
57.	<i>Otidea concinna</i>	low
58.	<i>Otidea grandis</i>	low
59.	<i>Otidea microscopica</i>	low
60.	<i>Otidea propinquata</i>	unable to rate
61.	<i>Otidea rainierensis</i>	low
62.	<i>Otidea smithii</i>	low
63.	<i>Pachyella babingtonii</i>	moderate
64.	<i>Pachyella clypeata</i>	moderate
65.	<i>Peziza apiculata</i>	unable to rate
66.	<i>Peziza phaeotheca</i>	moderate
67.	<i>Picoa carthusiana</i>	
68.	<i>Psilopezia nummularia</i>	moderate
69.	<i>Pulvinula laeterubra</i>	unable to rate
70.	<i>Ramsbottomia asperior</i>	high
71.	<i>Ramsbottomia crec'hqueraultii</i>	high
72.	<i>Sarcosoma latahense</i>	slight
73.	<i>Smardaea planchonis</i>	unable to determine
74.	<i>Sphaerosporella hinnulea</i>	unable to determine
75.	<i>Tarzetta bronca</i>	slight?
76.	<i>Tarzetta catinus</i>	slight
77.	<i>Trichophaea boudieri</i>	unable to rate
78.	<i>Tuber rufum</i>	unable to rate
79.	<i>Tuber rufum</i> var. <i>nitidum</i>	low?

Priority: Low

80.	<i>Aleuria aurantia</i>	dependent on non-fire disturbance
81.	<i>Anthracobia macrocystis</i>	dependent on fire
82.	<i>Anthracobia melaloma</i>	dependent on fire
83.	<i>Ascobolus carbonarius</i>	dependent on fire
84.	<i>Ascobolus crenulatus</i>	that of the "producers" of substrate
85.	<i>Ascobolus furfuraceus</i>	that of the "producers" of

86. <i>Ascobolus immersus</i>	substrate that of the "producers" of substrate
87. <i>Caloscypha fulgens</i>	slight
88. <i>Cheilymenia coprinaria</i>	that of the "producers" of substrate
89. <i>Cheilymenia crucipila</i>	that of the "producers" of substrate
90. <i>Cheilymenia fimicola</i>	that of the "producers" of substrate
91. <i>Cheilymenia pulcherrima</i> , a complex	that of the "producers" of substrate
92. <i>Cheilymenia stercorea</i>	that of the "producers" of substrate
93. <i>Cheilymenia theleboloides</i>	that of the "producers" of substrate
94. <i>Coprobria granulata</i>	that of the "producers" of substrate
95. <i>Coprotus granuliformis</i>	that of the "producers" of substrate
96. <i>Coprotus ochraceus</i>	that of the "producers" of substrate
97. <i>Discina apiculatula</i>	moderate
98. <i>Discina perlata</i>	mycorrhizal?
99. <i>Sciotis venosa</i>	slight
100. <i>Elaphomycetes granulatus</i>	low
101. <i>Elaphomycetes granulatus</i> var. <i>asperulus</i>	low
102. <i>Geopora cooperi</i>	low
103. <i>Geopora cooperi</i> f. <i>cooperi</i>	low
104. <i>Geopora cooperi</i> f. <i>gilkeyae</i>	low
105. <i>Geopyxis carbonaria</i>	dependent on fire
106. <i>Geopyxis vulcanalis</i>	dependent on fire
107. <i>Gyromitra esculenta</i>	moderate
108. <i>Gyromitra gigas</i> , complex	moderate
109. <i>Gyromitra infula</i>	high
110. <i>Gyromitra melaleuroides</i>	moderate
111. <i>Gyromitra montana</i>	moderate
112. <i>Helvella crispa</i>	slight
113. <i>Helvella elastica</i>	slight
114. <i>Helvella lacunosa</i>	slight
115. <i>Helvella latispora</i>	slight
116. <i>Helvella leucomelaena</i>	moderate
117. <i>Helvella leucopus</i>	slight
118. <i>Helvella solitaria</i>	moderate?
119. <i>Hydnotrya cerebriformis</i>	low
120. <i>Hydnotrya variiformis</i>	low
121. <i>Iodophanus carneus</i>	that of the "producers" of substrate
122. <i>Iodophanus testaceus</i>	that of the "producers" of substrate
123. <i>Lamprospora spinulosa</i>	not able to rate
124. <i>Lamprospora tuberculatella</i>	unable to rate
125. <i>Lasiobolus cuniculi</i>	that of the "producers" of

126.	<i>Lasiobolus intermedius</i>	substrate that of the "producers" of substrate
127.	<i>Lasiobolus lasioboloides</i>	that of the "producers" of substrate
128.	<i>Lasiobolus papillatus</i>	that of the "producers" of substrate
129.	<i>Lasiobolus ruber</i>	that of the "producers" of substrate
130.	<i>Morchella angusticeps</i>	moderate
131.	<i>Morchella conica</i>	moderate
132.	<i>Morchella crassipes</i>	slight
133.	<i>Morchella deliciosa</i>	slight
134.	<i>Morchella elata</i>	moderate/high
135.	<i>Morchella elata</i> var. <i>purpurascens</i>	moderate?
136.	<i>Morchella esculenta</i>	
137.	<i>Morchella hotsonii</i>	unable to rate
138.	<i>Morchella rielana</i>	unable to rate
139.	<i>Morchella spongiola</i>	unable to rate
140.	<i>Octospora coccinea</i>	unable to rate
141.	<i>Octospora semiimmersa</i>	unable to rate
142.	<i>Otidea alutacea</i>	low
143.	<i>Otidea alutacea</i> var. <i>alutacea</i>	low
144.	<i>Otidea leporina</i>	low
145.	<i>Otidea leporina</i> var. <i>leporina</i>	low
146.	<i>Otidea leporina</i> var. <i>minor</i>	low
147.	<i>Otidea onotica</i>	low
148.	<i>Peziza ampliata</i>	unable to rate
149.	<i>Peziza arvernensis</i>	moderate/high
150.	<i>Peziza atrovinosa</i>	unable to rate
151.	<i>Peziza badia</i>	unable to rate
152.	<i>Peziza badioconfusa</i>	unable to rate
153.	<i>Peziza brunneoatra</i>	moderate
154.	<i>Peziza cerea</i>	unable to rate
155.	<i>Peziza domiciliana</i>	
156.	<i>Peziza echinospora</i>	dependent on fire
157.	<i>Peziza emileia</i>	unable to rate
158.	<i>Peziza fimeti</i>	that of the "producers" of substrate
159.	<i>Peziza gerardi</i>	unable to rate
160.	<i>Peziza limosa</i>	unable to rate
161.	<i>Peziza petersii</i>	dependent on fire
162.	<i>Peziza praetervisa</i>	dependent on fire
163.	<i>Peziza proteana</i> var. <i>sparassoides</i>	dependent on fire
164.	<i>Peziza repanda</i>	moderate
165.	<i>Peziza spissa</i>	unable to rate
166.	<i>Peziza sterigmatizans</i>	dependent on fire
167.	<i>Peziza succosa</i>	unable to rate
168.	<i>Peziza varia</i>	high
169.	<i>Peziza vesiculosa</i>	moderate
170.	<i>Peziza violacea</i>	dependent on fire
171.	<i>Pithya cupressina</i>	moderate

172.	<i>Pithya vulgaris</i>	moderate
173.	<i>Plectania melastoma</i>	slight
174.	<i>Plectania nannfeldtii</i>	slight
175.	<i>Plicaria endocarpoides</i>	dependent on fire
176.	<i>Plicaria trachycarpa</i>	dependent on fire
177.	<i>Pseudoplectania melaena</i>	slight
178.	<i>Pseudoplectania nigrella</i>	moderate
179.	<i>Pseudorhizina californica</i>	moderate
180.	<i>Pulvinula archeri</i>	dependent on fire
181.	<i>Pulvinula carbonaria</i>	moderate
182.	<i>Pulvinula convexella</i>	dependent on fire
183.	<i>Pyronema omphalodes</i>	dependent on fire
184.	<i>Rhizina undulata</i>	dependent on fire
185.	<i>Saccobolus depauperatus</i>	that of the "producers" of substrate
186.	<i>Saccobolus glaber</i>	that of the "producers" of substrate
187.	<i>Saccobolus versicolor</i>	that of the "producers" of substrate
188.	<i>Saccobolus violascens</i>	that of the "producers" of substrate
189.	<i>Sarcosoma mexicanum</i> , complex	slight
190.	<i>Sarcosphaera coronaria</i>	moderate
191.	<i>Scutellinia crinita</i>	that of the "producers" of substrate
192.	<i>Scutellinia erinaceus</i>	moderate
193.	<i>Scutellinia scutellata</i>	moderate
194.	<i>Scutellinia setosa</i>	moderate
195.	<i>Scutellinia umbrorum</i>	moderate
196.	<i>Tarzetta cupularis</i>	dependent on fire
197.	<i>Thecotheus apiculatus</i>	that of the "producers" of substrate
198.	<i>Thecotheus cinereus</i>	that of the "producers" of substrate
199.	<i>Thecotheus pelletieri</i>	that of the "producers" of substrate
200.	<i>Thelebolus obscurus</i>	that of the "producers" of substrate
201.	<i>Tricharina gilva</i>	dependent on fire
202.	<i>Tricharina praecox</i> var. <i>intermedia</i>	dependent on fire
203.	<i>Trichobolus zukalii</i>	that of the "producers" of substrate
204.	<i>Trichophaea abundans</i>	slight?
205.	<i>Trichophaea albospadicea</i>	slight?
206.	<i>Trichophaea hybrida</i>	unable to rate
207.	<i>Trichophaea pseudogregaria</i>	unable to rate
208.	<i>Trichophaea</i> sp.	unable to rate
209.	<i>Tuber irrasdians</i>	low?
210.	<i>Verpa bohemica</i>	slight
211.	<i>Verpa conica</i>	slight

Table 8A. Habitat types for Pezizales arranged by priority groups

#	Name in use	Habitat type
Priority: HIGH		
1.	<i>Aleuria rhenana</i>	Forests: conifer (old growth)
2.	<i>Byssonectria cartilaginea</i>	Coprophilous
3.	<i>Geopora arenosa</i>	Soil: damp +/- algae
4.	<i>Geopora sepulta</i>	Soil: damp +/- algae
5.	<i>Helvella corium</i>	Forests: conifer/hardwood
6.	<i>Helvella crassitunicata</i>	Forests: conifer
7.	<i>Morchella semilibera</i>	Forests: hardwood (often riparian)
8.	<i>Nannfeldtiella aggregata</i>	Forests: conifer/alpine meadows
9.	<i>Peziza ammophila</i>	Sand dunes
10.	<i>Plectania milleri</i>	Forests: conifer
11.	<i>Pseudorhizina sphaerospora</i>	Forests: conifer/hardwood
12.	<i>Rhodoscypha ovilla</i>	Forests: conifer/hardwood
13.	<i>Sowerbyella imperialis?</i>	Forests: conifer (old growth)
14.	<i>Wynnella silvicola</i>	Forests: conifer/hardwood
Priority: Medium		
15.	<i>Ascobolus geophilus</i>	Soil: damp +/- algae
16.	<i>Balsamia platyspora</i>	Forests: conifer
17.	<i>Balsamia vulgaris</i>	Forests: conifer
18.	<i>Barssia oregonensis</i>	Forests: conifer
19.	<i>Choiromyces alveolatus</i>	Forests: conifer
20.	<i>Discina leucoxantha</i>	Forests: conifer/hardwood
21.	<i>Discina olympiana</i>	No data with specimens
22.	<i>Discina olympiana</i> var. <i>diluta</i>	No data with specimens
23.	<i>Discina olympiana</i> var. <i>olympiana</i>	No data with specimens
24.	<i>Elaphomyces muricatus</i>	Forests: conifer
25.	<i>Elaphomyces subviscidus</i>	Forests: conifer
26.	<i>Fimaria hepatica</i>	No data with specimens
27.	<i>Genabea cerebriformis</i>	Forests: conifer/hardwood
28.	<i>Genea intermedia</i>	Forests: conifer
29.	<i>Gyromitra ambigua</i>	No data with specimens
30.	<i>Helvella acetabulum</i>	Forests: hardwood/conifer (not riparian?)
31.	<i>Helvella albella</i>	Forests: hardwood/conifer (not riparian?)
32.	<i>Helvella albipes</i>	No data with specimens
33.	<i>Helvella atra</i>	Forests: hardwood (often riparian)
34.	<i>Helvella chinensis</i>	Forests: hardwood (often riparian)
35.	<i>Helvella compressa</i>	Forests: conifer/hardwood
36.	<i>Helvella costifera</i>	Forests: conifer/hardwood
37.	<i>Helvella cupuliformis</i>	Forests: hardwood/conifer (not riparian?)
38.	<i>Helvella griseoalba</i>	Forests: conifer/hardwood
39.	<i>Helvella macropus</i>	Forests: hardwood (often riparian)

40. <i>Helvella macropus</i> var. <i>macropus</i>	Forests: hardwood (often riparian)
41. <i>Helvella maculata</i>	Forests: conifer/hardwood
42. <i>Helvella stevensii</i>	Forests: hardwood/conifer (not riparian?)
43. <i>Helvella sulcata</i>	Forests: conifer/hardwood
44. <i>Humaria hemispherica</i>	Forests: conifer
45. <i>Hydnotrya michaelis</i>	Forests: conifer
46. <i>Lasiobolus macrotrichus</i>	Coprophilous
47. <i>Melastiza chateri</i>	Disturbed areas (not burned)
48. <i>Marchella crassistipa</i>	Forests: hardwood/conifer (not riparian?)
49. <i>Neottiella aphanodictyon</i>	Bryophyte associate
50. <i>Neottiella rutilans</i>	Bryophyte associate
51. <i>Neournula pouchetii</i>	Forests: conifer/hardwood
52. <i>Octospora leucoloma</i>	Bryophyte associate
53. <i>Octospora rubens</i>	Bryophyte associate
54. <i>Otidea alutacea</i> var. <i>microspora</i>	Forests: hardwood/conifer (not riparian?)
55. <i>Otidea cantharella</i>	Forests: conifer
56. <i>Otidea cantharella</i> var. <i>minor</i>	Forests: conifer
57. <i>Otidea concinna</i>	Forests: conifer
58. <i>Otidea grandis</i>	Forests: conifer
59. <i>Otidea microscopica</i>	Forests: conifer
60. <i>Otidea propinquata</i>	No data with specimens
61. <i>Otidea rainierensis</i>	Forests: conifer/hardwood
62. <i>Otidea smithii</i>	Forests: conifer
63. <i>Pachyella babingtonii</i>	Forests: woody debris in streams
64. <i>Pachyella clypeata</i>	Forests: woody debris in streams
65. <i>Peziza apiculata</i>	No data with specimens
66. <i>Peziza phaeothecata</i>	Forests: conifer
67. <i>Picoa carthusiana</i>	Forests: conifer
68. <i>Psilopezia nummularia</i>	Forests: woody debris in streams
69. <i>Pulvinula laeterubra</i>	Bryophyte associate
70. <i>Ramsbottomia asperior</i>	Soil: damp +/- algae
71. <i>Ramsbottomia crec'hqueraultii</i>	Soil: damp +/- algae
72. <i>Sarcosoma latahense</i>	Forests: conifer
73. <i>Smardaea planchonis</i>	Soil: damp +/- algae
74. <i>Sphaerosporella hinnulea</i>	Soil: damp +/- algae
75. <i>Tarzetta bronca</i>	Forests: conifer/hardwood
76. <i>Tarzetta catinus</i>	Forests: conifer
77. <i>Trichophaea boudieri</i>	No data with specimens
78. <i>Tuber rufum</i>	Forests: conifer
79. <i>Tuber rufum</i> var. <i>nitidum</i>	No data with specimens

Priority: Low

80. <i>Aleuria aurantia</i>	Disturbed areas (not burned)
81. <i>Anthracobia macrocystis</i>	Burned areas within ca. 24 months
82. <i>Anthracobia melaloma</i>	Burned areas within ca. 24 months
83. <i>Ascobolus carbonarius</i>	Burned areas within ca. 24 months
84. <i>Ascobolus crenulatus</i>	Coprophilous
85. <i>Ascobolus furfuraceus</i>	Coprophilous
86. <i>Ascobolus immersus</i>	Coprophilous

87. <i>Caloscypha fulgens</i>	Forests: conifer
88. <i>Cheilymenia coprinaria</i>	Coprophilous
89. <i>Cheilymenia crucipila</i>	Coprophilous
90. <i>Cheilymenia fimicola</i>	Coprophilous
91. <i>Cheilymenia pulcherrima</i> , a complex	Coprophilous
92. <i>Cheilymenia stercorea</i>	Coprophilous
93. <i>Cheilymenia theleboloides</i>	Coprophilous
94. <i>Coprobia granulata</i>	Coprophilous
95. <i>Coprotus granuliformis</i>	Coprophilous
96. <i>Coprotus ochraceus</i>	Coprophilous
97. <i>Discina apiculatula</i>	Forests: conifer/hardwood
98. <i>Discina perlata</i>	Forests: conifer/hardwood
99. <i>Disciotis venosa</i>	Forests: conifer/hardwood
100. <i>Elaphomyces granulatus</i>	Forests: conifer/hardwood
101. <i>Elaphomyces granulatus</i> var. <i>asperulus</i>	Forests: conifer
102. <i>Geopora cooperi</i>	Forests: conifer/hardwood
103. <i>Geopora cooperi</i> f. <i>cooperi</i>	Forests: conifer/hardwood
104. <i>Geopora cooperi</i> f. <i>gilkeyae</i>	Forests: conifer/hardwood
105. <i>Geopyxis carbonaria</i>	Burned areas within ca. 24 months
106. <i>Geopyxis vulcanalis</i>	Burned areas within ca. 24 months
107. <i>Gyromitra esculenta</i>	Disturbed areas and forests
108. <i>Gyromitra gigas</i> , complex	Forests: hardwood/conifer (not riparian?)
109. <i>Gyromitra infula</i>	Forests: conifer/hardwood
110. <i>Gyromitra melaleuroides</i>	Forests: conifer/hardwood
111. <i>Gyromitra montana</i>	Forests: conifer/hardwood
112. <i>Helvella crispa</i>	Forests: conifer
113. <i>Helvella elastica</i>	Forests: conifer
114. <i>Helvella lacunosa</i>	Forests: conifer/hardwood
115. <i>Helvella latispora</i>	Forests: conifer/hardwood
116. <i>Helvella leucomelaena</i>	Forests: conifer
117. <i>Helvella leucopus</i>	Forests: conifer/hardwood
118. <i>Helvella solitaria</i>	Forests: hardwood/conifer (not riparian?)
119. <i>Hydnomyces cerebriformis</i>	Forests: conifer
120. <i>Hydnomyces variiformis</i>	Forests: conifer
121. <i>Iodophanus carneus</i>	Coprophilous
122. <i>Iodophanus testaceus</i>	Coprophilous
123. <i>Lamprospora spinulosa</i>	Soil: damp +/- algae
124. <i>Lamprospora tuberculatella</i>	No data with specimens
125. <i>Lasiobolus cuniculi</i>	Coprophilous
126. <i>Lasiobolus intermedius</i>	Coprophilous
127. <i>Lasiobolus lasioboloides</i>	Coprophilous
128. <i>Lasiobolus papillatus</i>	Coprophilous
129. <i>Lasiobolus ruber</i>	Coprophilous
130. <i>Morchella angusticeps</i>	Forests: conifer/hardwood
131. <i>Morchella conica</i>	Forests: conifer/hardwood
132. <i>Morchella crassipes</i>	Forests: hardwood (often riparian)
133. <i>Morchella deliciosa</i>	Forests: non-specific
134. <i>Morchella elata</i>	Forests: conifer
135. <i>Morchella elata</i> var.	Forests: conifer/hardwood

	<i>purpurascens</i>	
136.	<i>Morchella esculenta</i>	Forests: hardwood (often riparian)
137.	<i>Morchella hotsonii</i>	Forests: conifer/hardwood
138.	<i>Morchella rielana</i>	Forests: non-specific
139.	<i>Morchella spongiola</i>	Forests: non-specific
140.	<i>Octospora coccinea</i>	Soil: damp +/- algae
141.	<i>Octospora semiimmersa</i>	No data with specimens
142.	<i>Otidea alutacea</i>	Soil: conifer
143.	<i>Otidea alutacea</i> var. <i>alutacea</i>	Forests: conifer
144.	<i>Otidea leporina</i>	Forests: conifer
145.	<i>Otidea leporina</i> var. <i>leporina</i>	Forests: conifer/hardwood
146.	<i>Otidea leporina</i> var. <i>minor</i>	Forests: hardwood/conifer (not riparian?)
147.	<i>Otidea onotica</i>	Forests: conifer
148.	<i>Peziza ampliata</i>	Soil: damp +/- algae
149.	<i>Peziza arvernensis</i>	Disturbed areas and forests
150.	<i>Peziza atrovinosa</i>	No data with specimens
151.	<i>Peziza badia</i>	Disturbed areas (not burned)
152.	<i>Peziza badioconfusa</i>	Forests: hardwood (often riparian)
153.	<i>Peziza brunneoatra</i>	Soil: damp +/- algae
154.	<i>Peziza cerea</i>	No data with specimens
155.	<i>Peziza domiciliana</i>	Plaster, building debris
156.	<i>Peziza echinospora</i>	Burned areas within ca. 24 months
157.	<i>Peziza emileia</i>	No data with specimens
158.	<i>Peziza fimetaria</i>	Coprophilous
159.	<i>Peziza gerardi</i>	No data with specimens
160.	<i>Peziza limosa</i>	No data with specimens
161.	<i>Peziza petersii</i>	Burned areas within ca. 24 months
162.	<i>Peziza praetervisa</i>	Burned areas within ca. 24 months
163.	<i>Peziza proteana</i> var. <i>sparassoides</i>	Burned areas within ca. 24 months
164.	<i>Peziza repanda</i>	Forests: hardwood/conifer (not riparian?)
165.	<i>Peziza spissa</i>	Soil: damp +/- algae
166.	<i>Peziza sterigmatizans</i>	Burned areas within ca. 24 months
167.	<i>Peziza succosa</i>	Soil: damp +/- algae
168.	<i>Peziza varia</i>	Varied
169.	<i>Peziza vesiculosa</i>	Varied
170.	<i>Peziza violacea</i>	Burned areas within ca. 24 months
171.	<i>Pithya cupressina</i>	Forests: conifer
172.	<i>Pithya vulgaris</i>	Forests: conifer
173.	<i>Plectania melastoma</i>	Forests: conifer
174.	<i>Plectania nannfeldtii</i>	Forests: conifer
175.	<i>Plicaria endocarpoides</i>	Burned areas within ca. 24 months
176.	<i>Plicaria trachycarpa</i>	Burned areas within ca. 24 months
177.	<i>Pseudoplectania melaena</i>	Forests: conifer
178.	<i>Pseudoplectania nigrella</i>	Forests: conifer
179.	<i>Pseudorhizina californica</i>	Forests: conifer/hardwood
180.	<i>Pulvinula archeri</i>	Burned areas within ca. 24 months
181.	<i>Pulvinula carbonaria</i>	Burned areas within ca. 24 months
182.	<i>Pulvinula convexella</i>	Burned areas within ca. 24 months
183.	<i>Pyronema omphalodes</i>	Burned areas within ca. 24 months
184.	<i>Rhizina undulata</i>	Burned areas within ca. 24 months

Pezizales, Table 8A

185. <i>Saccobolus depauperatus</i>	Coprophilous
186. <i>Saccobolus glaber</i>	Coprophilous
187. <i>Saccobolus versicolor</i>	Coprophilous
188. <i>Saccobolus violascens</i>	Coprophilous
189. <i>Sarcosoma mexicanum</i> , complex	Forests: conifer
190. <i>Sarcosphaera coronaria</i>	Forests: conifer/hardwood
191. <i>Scutellinia crinita</i>	Coprophilous
192. <i>Scutellinia erinaceus</i>	Forests: non-specific
193. <i>Scutellinia scutellata</i>	Forests: non-specific
194. <i>Scutellinia setosa</i>	Forests: non-specific
195. <i>Scutellinia umbrorum</i>	Soil: damp +/- algae
196. <i>Tarzetta cupularis</i>	Burned areas within ca. 24 months
197. <i>Thecotheus apiculatus</i>	Coprophilous
198. <i>Thecotheus cinereus</i>	Coprophilous
199. <i>Thecotheus pelletieri</i>	Coprophilous
200. <i>Thelebolus obscurus</i>	Coprophilous
201. <i>Tricharina gilva</i>	Burned areas within ca. 24 months
202. <i>Tricharina praecox</i> var. <i>intermedia</i>	Burned areas within ca. 24 months
203. <i>Trichobolus zukalii</i>	Coprophilous
204. <i>Trichophaea abundans</i>	Soil: damp +/- algae
205. <i>Trichophaea albospadicea</i>	Soil: damp +/- algae
206. <i>Trichophaea hybrida</i>	Soil: damp +/- algae
207. <i>Trichophaea pseudogregaria</i>	Soil: damp +/- algae
208. <i>Trichophaea</i> sp.	No data with specimens
209. <i>Tuber irregulare</i>	No data with specimens
210. <i>Verpa bohemica</i>	Forests: hardwood (often riparian)
211. <i>Verpa conica</i>	Forests: hardwood (often riparian)

Table 8B. Pezizales arranged by habitat types then by priority groups

#	Name in use	Priority ranking
Macrohabitat: Bryophyte associate		
1.	<i>Neottiella aphanodictyon</i>	Medium
2.	<i>Neottiella rutilans</i>	Medium
3.	<i>Octospora leucoloma</i>	Medium
4.	<i>Octospora rubens</i>	Medium
5.	<i>Pulvinula laeterubra</i>	Medium
Macrohabitat: Burned areas (within ca. 24 months)		
6.	<i>Anthracobia macrocystis</i>	Low
7.	<i>Anthracobia melaloma</i>	Low
8.	<i>Ascobolus carbonarius</i>	Low
9.	<i>Geopyxis carbonaria</i>	Low
10.	<i>Geopyxis vulcanalis</i>	Low
11.	<i>Peziza echinospora</i>	Low
12.	<i>Peziza petersii</i>	Low
13.	<i>Peziza praetervisa</i>	Low
14.	<i>Peziza proteana</i> var. <i>sparassoides</i>	Low
15.	<i>Peziza sterigmatizans</i>	Low
16.	<i>Peziza violacea</i>	Low
17.	<i>Plicaria endocarpoides</i>	Low
18.	<i>Plicaria trachycarpa</i>	Low
19.	<i>Pulvinula archeri</i>	Low
20.	<i>Pulvinula carbonaria</i>	Low
21.	<i>Pulvinula convexella</i>	Low
22.	<i>Pyronema omphalodes</i>	Low
23.	<i>Rhizina undulata</i>	Low
24.	<i>Tarzetta cupularis</i>	Low
25.	<i>Tricharina gilva</i>	Low
26.	<i>Tricharina praecox</i> var. <i>intermedia</i>	Low
Macrohabitat: Coprophilous		
27.	<i>Ascobolus crenulatus</i>	Low
28.	<i>Ascobolus furfuraceus</i>	Low
29.	<i>Ascobolus immersus</i>	Low
30.	<i>Byssonectria cartilaginea</i>	HIGH
31.	<i>Cheilymenia coprinaria</i>	Low
32.	<i>Cheilymenia crucipila</i>	Low
33.	<i>Cheilymenia fimicola</i>	Low
34.	<i>Cheilymenia pulcherrima</i> , a complex	Low
35.	<i>Cheilymenia stercorea</i>	Low
36.	<i>Cheilymenia theleboloides</i>	Low
37.	<i>Coprobria granulata</i>	Low
38.	<i>Coprotus granuliformis</i>	Low
39.	<i>Coprotus ochraceus</i>	Low

40. <i>Iodophanus carneus</i>	Low
41. <i>Iodophanus testaceus</i>	Low
42. <i>Lasiobolus cuniculi</i>	Low
43. <i>Lasiobolus intermedius</i>	Low
44. <i>Lasiobolus lasioboloides</i>	Low
45. <i>Lasiobolus macrotrichus</i>	Low
46. <i>Lasiobolus papillatus</i>	Low
47. <i>Lasiobolus ruber</i>	Low
48. <i>Peziza fimeti</i>	Low
49. <i>Saccobolus depauperatus</i>	Low
50. <i>Saccobolus glaber</i>	Low
51. <i>Saccobolus versicolor</i>	Low
52. <i>Saccobolus violascens</i>	Low
53. <i>Scutellinia crinita</i>	Low
54. <i>Thecotheus apiculatus</i>	Low
55. <i>Thecotheus cinereus</i>	Low
56. <i>Thecotheus pelletieri</i>	Low
57. <i>Thelebolus obscurus</i>	Low
58. <i>Trichobolus zukalii</i>	Low

Macrohabitat: Disturbed areas (not burned)

59. <i>Aleuria aurantia</i>	Low
60. <i>Melastiza chateri</i>	Medium
61. <i>Peziza badia</i>	Low

Macrohabitat: Disturbed areas and forests

62. <i>Gyromitra esculenta</i>	Low
63. <i>Peziza arvernensis</i>	Low

Macrohabitat: Forests: conifer

64. <i>Balsamia platyspora</i>	Medium
65. <i>Balsamia vulgaris</i>	Medium
66. <i>Barssia oregonensis</i>	Medium
67. <i>Caloscypha fulgens</i>	Low
68. <i>Choiromyces alveolatus</i>	Medium
69. <i>Elaphomyces granulatus</i> var. <i>asperulus</i>	Low
70. <i>Elaphomyces muricatus</i>	Medium
71. <i>Elaphomyces subviscidus</i>	Medium
72. <i>Genea intermedia</i>	Medium
73. <i>Helvella crassitunicata</i>	HIGH
74. <i>Helvella crispa</i>	Low
75. <i>Helvella elastica</i>	Low
76. <i>Helvella leucomelaena</i>	Low
77. <i>Humaria hemispherica</i>	Medium
78. <i>Hydnotrya cerebriformis</i>	Low
79. <i>Hydnotrya michaelis</i>	Medium
80. <i>Hydnotrya variiformis</i>	Low
81. <i>Morchella elata</i>	Low
82. <i>Otidea alutacea</i>	Low
83. <i>Otidea alutacea</i> var. <i>alutacea</i>	Low

84. <i>Otidea cantharella</i>	Medium
85. <i>Otidea cantharella</i> var. <i>minor</i>	Medium
86. <i>Otidea concinna</i>	Medium
87. <i>Otidea grandis</i>	Medium
88. <i>Otidea leporina</i>	Low
89. <i>Otidea microscopica</i>	Medium
90. <i>Otidea orctica</i>	Low
91. <i>Otidea smithii</i>	Medium
92. <i>Peziza phaeotheca</i>	Medium
93. <i>Picoa carthusiana</i>	Medium
94. <i>Pithya cupressina</i>	Low
95. <i>Pithya vulgaris</i>	Low
96. <i>Plectania melastoma</i>	Low
97. <i>Plectania milleri</i>	HIGH
98. <i>Plectania nannfeldtii</i>	Low
99. <i>Pseudoplectania melaena</i>	Low
100. <i>Pseudoplectania nigrella</i>	Low
101. <i>Sarcosoma latahense</i>	Medium
102. <i>Sarcosoma mexicanum</i> , complex	Low
103. <i>Tarzetta catinus</i>	Medium
104. <i>Tuber rufum</i>	Medium

Macrohabitat: Forests: conifer (old growth)

105. <i>Aleuria rhenana</i>	HIGH
106. <i>Sowerbyella imperialis?</i>	HIGH

Macrohabitat: Forests: conifer/alpine meadows

107. <i>Nannfeldtiella aggregata</i>	HIGH
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Macrohabitat: Forests: conifer/hardwood

108. <i>Discina apiculatula</i>	Low
109. <i>Discina leucoxantha</i>	Medium
110. <i>Discina perlata</i>	Low
111. <i>Disciotis venosa</i>	Low
112. <i>Elaphomyces granulatus</i>	Low
113. <i>Genabea cerebriformis</i>	Medium
114. <i>Geopora cooperi</i>	Low
115. <i>Geopora cooperi</i> f. <i>cooperi</i>	Low
116. <i>Geopora cooperi</i> f. <i>gilkeyae</i>	Low
117. <i>Gyromitra infula</i>	Low
118. <i>Gyromitra melaleuroides</i>	Low
119. <i>Gyromitra montana</i>	Low
120. <i>Helvella compressa</i>	Medium
121. <i>Helvella corium</i>	HIGH
122. <i>Helvella costifera</i>	Medium
123. <i>Helvella griseoalba</i>	Medium
124. <i>Helvella lacunosa</i>	Low
125. <i>Helvella latispora</i>	Low
126. <i>Helvella leucopus</i>	Low
127. <i>Helvella maculata</i>	Medium

128. <i>Helvella sulcata</i>	Medium
129. <i>Morchella angusticeps</i>	Low
130. <i>Morchella conica</i>	Low
131. <i>Morchella elata</i> var. <i>purpurascens</i>	Low
132. <i>Morchella hotsonii</i>	Low
133. <i>Neournula pouchetii</i>	Medium
134. <i>Otidea leporina</i> var. <i>leporina</i>	Low
135. <i>Otidea rainierensis</i>	Medium
136. <i>Pseudorhizina californica</i>	Low
137. <i>Pseudorhizina sphaerospora</i>	HIGH
138. <i>Rhodoscypha ovilla</i>	HIGH
139. <i>Sarcosphaera coronaria</i>	Low
140. <i>Tarzetta bronca</i>	Medium
141. <i>Wynnella silvicola</i>	HIGH

Macrohabitat: Forests: hardwood (often riparian)

142. <i>Helvella atra</i>	Medium
143. <i>Helvella chinensis</i>	Medium
144. <i>Helvella macropus</i>	Medium
145. <i>Helvella macropus</i> var. <i>macropus</i>	Medium
146. <i>Morchella crassipes</i>	Low
147. <i>Morchella esculenta</i>	Low
148. <i>Morchella semilibera</i>	HIGH
149. <i>Peziza badioconfusa</i>	Low
150. <i>Verpa bohemica</i>	Low
151. <i>Verpa conica</i>	Low

Macrohabitat: Forests: hardwood/conifer (not riparian?)

152. <i>Gyromitra gigas</i> , complex	Low
153. <i>Helvella acetabulum</i>	Medium
154. <i>Helvella albella</i>	Medium
155. <i>Helvella cupuliformis</i>	Medium
156. <i>Helvella solitaria</i>	Low
157. <i>Helvella stevensii</i>	Medium
158. <i>Morchella crassistipa</i>	Medium
159. <i>Otidea alutacea</i> var. <i>microspora</i>	Medium
160. <i>Otidea leporina</i> var. <i>minor</i>	Low
161. <i>Peziza repanda</i>	Low

Macrohabitat: Forests: non-specific

162. <i>Morchella deliciosa</i>	Low
163. <i>Morchella rielana</i>	Low
164. <i>Morchella spongiola</i>	Low
165. <i>Scutellinia erinaceus</i>	Low
166. <i>Scutellinia scutellata</i>	Low
167. <i>Scutellinia setosa</i>	Low

Macrohabitat: Forests: woody debris in streams

168. <i>Pachyella babingtonii</i>	Medium
169. <i>Pachyella clypeata</i>	Medium
170. <i>Psilopezia nummularia</i>	Medium

Macrohabitat: No data with specimens

171. <i>Discina olympiana</i>	Medium
172. <i>Discina olympiana</i> var. <i>diluta</i>	Medium
173. <i>Discina olympiana</i> var. <i>olympiana</i>	Medium
174. <i>Fimaria hepatica</i>	Medium
175. <i>Gyromitra ambigua</i>	Medium
176. <i>Helvella albipes</i>	Medium
177. <i>Lamprospora tuberculatella</i>	Low
178. <i>Octospora semiimmersa</i>	Low
179. <i>Otidea propinquata</i>	Medium
180. <i>Peziza apiculata</i>	Medium
181. <i>Peziza atrovinosa</i>	Low
182. <i>Peziza cerea</i>	Low
183. <i>Peziza emileia</i>	Low
184. <i>Peziza gerardi</i>	Low
185. <i>Peziza limosa</i>	Low
186. <i>Trichophaea boudieri</i>	Medium
187. <i>Trichophaea</i> sp.	Low
188. <i>Tuber irradians</i>	Low
189. <i>Tuber rufum</i> var. <i>nitidum</i>	Medium

Macrohabitat: Plaster, building debris

190. <i>Peziza domiciliana</i>	Low
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Macrohabitat: Sand dunes

191. <i>Peziza ammophila</i>	HIGH
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Macrohabitat: Soil: damp +/- algae

192. <i>Ascobolus geophilus</i>	Medium
193. <i>Geopora arenosa</i>	HIGH
194. <i>Geopora sepulta</i>	HIGH
195. <i>Lamprospora spinulosa</i>	Low
196. <i>Octospora coccinea</i>	Low
197. <i>Peziza ampliata</i>	Low
198. <i>Peziza brunneoatra</i>	Low
199. <i>Peziza spissa</i>	Low
200. <i>Peziza succosa</i>	Low
201. <i>Ramsbottomia asperior</i>	Medium
202. <i>Ramsbottomia crec'hqueraultii</i>	Medium
203. <i>Scutellinia umbrorum</i>	Low
204. <i>Smaragda planchonis</i>	Medium
205. <i>Sphaerosporella hinnulea</i>	Medium

206. <i>Trichophaea abundans</i>	Low
207. <i>Trichophaea albospadicea</i>	Low
208. <i>Trichophaea hybrida</i>	Low
209. <i>Trichophaea pseudogregaria</i>	Low

Macrohabitat: Varied

210. <i>Peziza varia</i>	Low
211. <i>Peziza vesiculosa</i>	Low

Table 9. Data on types of names' of Pezizales described from the Columbia River basin

Caulocarpa montana Gilkey, Mycologia 39: 442. 1947.

Kind of Type: HOLOTYPE Herbarium: OSC Accession No.: 29675
 Submitter: Gilkey, Helen No.: HMG 284
 Collector: Rogers Date: 26 Jul 1939
 Beneath duff of coniferous grove
 Trappe (1979) used name *Sarcosphaera crassa*, here considered a synonym of
S. coronaria; detailed locality and ecology from Gilkey, 1947, not on label

Discina olumpiana var. *diluta* McKnight, Mycologia 61: 625-626. 1969.

Kind of Type: HOLOTYPE Herbarium: BPI Accession No: 567101
 Submitter: McKnight, Kent H. No.: KHM 10340
 Collector: McKnight L.B. Date: 24 Jun 1967
 On soil in subalpine conifer forest
 BPI gives "substrate undetermined," omitted variety

Gyromitra montana Harmaja, Karstenia p. 56. 1973.

Kind of Type: Isotype Herbarium: BPI Accession No: 566707
 Submitter: McKnight, Kent H. No.: KHM 103351[?]
 Collector: McKnight K.B., McKnight J.B. Date: 24 Jun 1967
 On soil around and under snowbanks/ conifer forest
 ecological data from Harmaja (1973), BPI says "substrate undetermined,"
 Harmaja (1973) gives coll. number as 10351, holotype H, isotypes K, BPI,
 Harmaja gives date as VI-VII

Helvella maculata N.S. Weber, Beih. Nova Hedwigia 51: 27. 1975.

Kind of Type: HOLOTYPE Herbarium: MICH
 Submitter: Smith, Nancy Jane No.: NJS 2124
 Collector: H.V. & N.J. Smith Date: 05 Oct 1968
 Scattered to gregarious under mixed pine, fir[,] and larch
 ecology from Weber, 1975

Morchella crassistipa Snyder, Univ. Wash. Publ. Biol. 8: 52. 1938.

Kind of Type: missing? Herbarium: WTU
 Submitter: L.C. Snyder No.: none
 Collector: L.C. Snyder Date: 05 May 1934
 In open woods of *Pinus ponderosa*
 J.F. Ammirati (pers. comm.) says HOLOTYPE missing, believed destroyed

Neournula nordmanensis Paden 8 Tylutki, Mycologia 60: 1161. 1968[69].

Kind of Type: HOLOTYPE Herbarium: WSP Accession No: 56281
 Submitter: Paden, John Wilburn No.: JWP 172
 Collector: E.E. Tylutki Date: 02 Jul 1964
 In litter of *T[huj]a plicata*
 ISOTYPE: MICH

Pezi za vul canal is Peck, Rep. (Annual) U.S. Geol. Surv. Terr. 6: 792. 1873.

Kind of Type: missing?? Herbarium: ???

Submitter: Peck, Charles H. No.:

Collector: Hayden Expedition Date: 16 Jul 1972

Ground

Original description gives locality as "Extinct volcano, Snake River, July 16; Twin Buttes." All of the Snake River drainage appears to be included in the CRB, but the only "Twin Buttes" in-the-Yellowstone area appears to be on the other side of the Continental Divide near the Lower Geyser Basin, most likely from near Rexburg, Idaho; John Haines (NYS) reports no TYPE there

Plectania milleri Paden & Tylutki, Mycologia 61: 683. 1969.

Kind of Type: HOLOTYPE Herbarium: WSP Accession No: 100028

Submitter: No.: JWP 110

Collector: O.K. Miller, Jr. Date: 14 Jun 1964

Saprophytic in plant debris

WSP 56273, data from publication

Paxina recurvum Snyder, Mycologia 28: 487. 1936.

Kind of Type: Mixed/syn Herbarium: NY

Submitter: Snyder, L.C. No.:

Collector: L.C. Snyder Date: 15 Apr/5 May 1934

On soil in deep woods

data from Harmaja, 1, 979, p. 48, compare with NY data, Harmaja states it is a mixture of the paratype and another collection, transcribed as "mixed type"

Paxina recurvum Snyder, Mycologia 28: 467. 1936.

Kind of Type: Syntype Herbarium: WTU

Submitter: Snyder, Leon C. No.:

Collector: L.C. Snyder Date: 15 Apr 1934

On ground in dense woods

type not seen

Sarcosoma latahensis Paden & Tylutki, Mycologia 61: 686. 1969.

Kind of Type: HDLOTYPE Herbarium: WSP Accession No: 56301

Submitter: Paden, John Wilburn No.: JWP 346

Collector: E.E. Tylutki Date: 02 Jun 1965

Saprophytic on decaying wood, litter, and soil

Data from Paden & Tylutki, 1969b; collection filed as *Plectania* but is type of *Sarcosoma latahensis*, IOF [3(20): 564, 1970] corrects epithet to "latahense"

Table 10. Unique localities for Pezizales with a "HIGH" rating and probable CRB Map Units

<i>Aleutia rhenana</i>
Locality: ID: Bonner Co., Upper Priest River Probable Map Unit: M333A Alternate guess:
<i>Byssonectria cartilaginea</i>
Locality: WA: Chelan Co., Lyman Lake, Elevation: 5600 ft. Probable Map Unit: M242C Alternate guess:
Locality: WA: Okanogan Co., Freezout Trail, Elevation: 6800 ft. Probable Map Unit: M242C Alternate guess:
Locality: WY: Teton Co., Coal Creek Probable Map Unit: M331D Alternate guess:
<i>Geopora arenosa</i>
Locality: OR: Hood River Co., Experimental Station Hood River Probable Map Unit: M242C Alternate guess:
Locality: OR: Hood River Co., Hood River. Probable Map Unit: M242C Alternate guess:
Locality: WA: Grant Co., Frenchman Springs 2nd pond, 8.1 km S of George Sect/Twp/Rng: S 28, T, 18, R23, Elevation: 366 Probable Map Unit: 3421 Alternate guess:
<i>Geopora sepulta</i>
Locality: MT: Missoula Co., 5 mi S Missoula, Elevation: 3210 <i>M332E 11332D</i>
Locality: NV: Elko/Eureka Co., Carlin <i>342E</i>
Locality: WA: Grant Co., Frenchman Springs Probable Map Unit: 3421 Alternate guess:
<i>Helvella corium</i>
Locality: ID: Kootenai Co., Coeur d'Alene Probable Map Unit: M333A Alternate guess: M333D
Locality: ID: Valley Co., Payette Lakes Probable Map Unit: M332A Alternate guess:
Locality: WA: Grant Co., Frenchman Springs 2nd pond, 8.1 km S of George Sect/Twp/Rng: S 28, T, 18, R23, Elevation: 366 m Probable Map Unit: 3421 Alternate guess:

Helvelia crassitunicata

Locality: OR: Deschutes Co., Deschutes National Forest, SE corner of Three Creek Lake, **Sect/Twp/Rng:** Sect. 14, **T16S, R9E**
Elevation: 6500 ft.
Probable Map Unit: **M242C** Alternate guess:

Locality: WA: Okanogan Co., Okanogan National Forest
Slate Peak - Hart's Pass Area along N. Rattlesnake Creek, FS 5400
Sect/Twp/Rng: Sect. 2, **T37N, R18E**
Probable Map Unit: **M242C** Alternate guess:

Morchella semilibera

Locality: ID: Canyon Co., Boise River near Star Bridge
Probable Map Unit: **M332a** Alternate guess:
M342C

Locality: ID: Latah Co., **Palouse** River near Potlach
Probable Map Unit: 331A Alternate guess: **M333D**

Locality: OR: Hood River Co., Ode11
Probable Map Unit: **M242C** Alternate guess:

Locality: WA: Klickitat Co. ! **Bingen**
Probable Map Unit: **M242C** Alternate guess:

Locality: WA: Whitman Co., Maple Street, Pullman
Probable Map Unit: 331A Alternate guess:

Locality: WA: Whitman Co., Union Flats Creek
Probable Map Unit: 331A Alternate guess:

Nannfeldtiella aggregata

Locality: WA: Chelan Co., head of Bear Creek, below Emerald Peak
Elevation: 7000 ft.
Probable Map Unit: **M242C** Alternate guess:

Locality: WY: Sublette Co.,
Probable Map Unit: **M331D** Alternate guess:

Locality: WY: Sublette Co., Teton National Forest
Probable Map Unit: **M331D** Alternate guess:

Locality: WY: Sublette Co., Teton National Forest
Rim Summit Ridge Boundary Teton **Nat1.** For.
Probable Map Unit: **M331D** Alternate guess:

Peziza ammophila

Locality: WA: Kittitas Co., Vantage
Probable Map Unit: 3421 Alternate guess:

Plectania milleri

Locality: ID: Bonner Co., Granite Creek
Probable Map Unit: M333A Alternate guess:

Locality: ID: Clearwater Co., Top of Diamond Match grade 6.7 miles E. of Elk River
Probable Map Unit: M333D Alternate guess:

Locality: ID: Valley Co., Payette Lakes
Probable Map Unit: M332A Alternate guess:

Locality: OR: Grant Co., Ochoco National Forest?, Strawberry Lake
Probable Map Unit: M332G Alternate guess:

Locality: OR: Wasco Co., Mt. Hood National Forest, trail to Little Boulder Lake
Probable Map Unit: M242C Alternate guess:

Locality: WA: Ferry Co., Sherman Pass Recreation Area: Hwy 20
Probable Map Unit: M333A Alternate guess:

Pseudorhizina sphaerospora

Locality: MT: Flathead Co., Flathead National Forest, Echo Lake
Elevation: 3500 ft
Probable Map Unit: M333B Alternate guess: M333C

Rhodoscypha ovilla

Locality: ID: Bonner Co., Upper Priest River
Probable Map Unit: M333A Alternate guess:

Sowerbyella imperialis?

Locality: ID: Bonner/Boundary Co., Upper Priest River
Probable Map Unit: M333A Alternate guess:

Wynnella silvicola

Locality: ID: Custer Co., Squib Creek
Probable Map Unit: M332F Alternate guess: ??

Locality: ID: Idaho Co., Shingle Creek, Seven Devil's Mountain
Probable Map Unit: M332G Alternate guess:

Locality: ID: Kootenai Co., Farragut State Park, along shoulder of road
Probable Map Unit: M333A Alternate guess:

Locality: MT: Flathead Co., Flathead National Forest, Echo Lake
Probable Map Unit: M333B Alternate guess: M333C

Locality: WA: Whatcom Co., Mt. Baker-Snoqualmie National Forest
Slate Creek, Slate Peak road, along FS 700
Sect/Twp/Rng: Sect. 1, T37N, R17E
Probable Map Unit: M242C Alternate guess:
