

MUSHROOMS OF GRAND TETON NATIONAL PARK

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Objectives

The primary overall objective of inventorying the macrofungi growing in and around Grand Teton and Yellowstone National Parks was partially achieved with the published checklist (McKnight 1982) and additions from the 1982 Research Center Annual Report (McKnight, Harper, & McKnight 1984). The intensive collecting of the 1982 fruiting season including a 12-week phenological study at 11 selected sites left many species unidentified and numerous others observed but not collected, or with inadequately annotated collections made. Litter and soil moisture data for the 11 study stands are also given in the 1982 annual report cited above, as well as data on 15 overstory and understory vegetation and soil parameters. Field studies in the Parks during the summer of 1983 concentrated on (1) identification of chlorophyllous and vascular plants at the 11 sites selected for concentrated study in 1982; (2) quantitative estimates of chlorophyllous plant cover and height; (3) estimates of site quality; (4) collections of composite soil samples; and (5) additional records of macrofungi for the Parks with supporting data in the form of photographs, drawings, and annotations.

Methods

Data on soils and chlorophyllous plants were collected during a period of peak flowering for many vascular plant species from 27 June through 8 July, 1983. Species lists were compiled by searching the areas of a site that were frequented most during the collection of the macrofungi. Occurrence of a single individual of a plant species was sufficient to merit inclusion of the species in the species list for the site. The species lists for the eleven sites are summarized in Table 1. These species presence lists provide a rough estimate of chlorophyllous plant composition and diversity at each site and are valuable in this study because the macrofungal composition and diversity estimates with which they will be related are limited to presence and phenology.

Quantitative estimates of chlorophyllous plant cover, height, and diversity were obtained at each site by tabulating the height and percent cover of each species in 10 1 m² quadrats. Understory cover of litter, rock, bare soil, and total living plant material was also estimated. These data are being entered into computer files for analysis along with the data on macrofungi.

At each of 10 sampling points used for the quantitative plant cover data, the distance to the nearest tree and its diameter, and the distance to the nearest tree seedling and its height were recorded in each of four quadrants. These data will yield estimates of density and basal area per hectare and the percentage contribution of each species to the total wood production at each site. Other trees subjectively chosen as ones dominating the site were measured for height and cored to determine age. These trees will be used in calculating estimates of site quality.

At each of the above mentioned sampling points, a composite soil sample was taken consisting of the top 2 dm. of litter and soil. Soil pH was estimated using a colorimetric field technique. Soil depth was measured with a penetrometer. Soil temperature at 4 dm. was also measured. The soil samples will be analyzed for routine physical parameters (CEC, pH, texture, %OM), amounts of common plant nutrients (N, P, K, S, Ca, Mg, Na), and minerals (Cu, Mn, Zn, Mo).

Results

The inventory of chlorophyllous plants showed 333 species in the 11 study sites as shown in Table 1. These records and the collection data for the fungi collected during the 1983 field season have been entered in computer files for further study. The quantitative estimates of chlorophyllous plant cover will make it possible to classify the study sites according to the system of Steele, et al (1983).

Weather, in late spring and again in late summer, highly favorable for mushroom fruiting, contributed significantly to the success of the season's collecting with regards both to quantity and quality of fungi. Fungus studies concentrated on species of the Section Telamonia of Cortinarius. From collections this season and from herbarium study of previous collections, 59 species of fungi were recorded which were not reported on the checklist (McKnight, 1982) or on previous annual reports. Voucher specimens, identified by the collection numbers given in Table 2 are deposited at the herbarium of the National Fungus Collections (BPD). This makes a total of 595 species (and varieties) of macrofungi known to occur in the area encompassing the two great National Parks including 4 species reported from the Parks by Solheim (1970) not found by us.

One hundred collections of duplicate specimens have been deposited in the herbarium (YELLO) at Mammoth. The remainder are at the National Fungus Collections (BPD).

Table 1. Chlorophyllous plants at eleven study sites in Grand Teton and Yellowstone National Parks and environs.

STUDY SITES:										
Cattle Bridge	=1	Petrified Tree	=5	Snake River	=9					
Nez Perce	=2	Pilgrim Creek	=6	Turpin Meadow	=10					
Northeast Entrance	=3	Reid Mountain	=7	West Side Teton Pass	=11					
Pacific Creek	=4	Signal Mountain	=8							
SITE PRESENCE										
	1	2	3	4	5	6	7	8	9	10 11
TREES										
<i>Abies lasiocarpa</i> (Hook.) Nutt.	X		X X			X X X				X X
<i>Picea engelmannii</i> Parry ex Engelm.	X		X X			X				X X
<i>glauca</i> (Moench) Voss			X		X		X			
<i>pungens</i> Engelm.									X X	
<i>Pinus albicaulis</i> Engelm.			X							
<i>contorta</i> Dougl.	X X	X X	X X	X X	X X	X X	X X	X X	X X	X X
<i>flexilis</i> James							X			
<i>Populus angustifolia</i> James	X			X					X	
<i>tremuloides</i> Michx.				X		X X				X
<i>trichocarpa</i> Torr. & Gray	X			X						
<i>Pseudotsuga menziesii</i> (Mirb.) Franco.	X		X		X X			X		X X
SHRUBS										
<i>Acer glabrum</i> Torr.										X
<i>Alnus incana</i> (L.) Moench.	X		X X X						X	
<i>Amelanchier alnifolia</i> Nutt.	X			X X X	X X		X X			
<i>Arctostaphylos uva-ursi</i> (L.) Spreng.	X X X								X	
<i>Artemisia dracuncululus</i> L.									X	
<i>tridentata</i> Nutt.					X				X	
<i>Berberis repens</i> Lindl.	X X X X					X		X X X X		
<i>Betula glandulosa</i> Michx.										X
<i>Ceanothus velutinus</i> Dougl.		X								
<i>Chimaphila umbellata</i> (L.) Barton			X					X		X X
<i>Cornus stolonifera</i> Michx.	X			X						
<i>Elaeagnus commutata</i> Bernh.									X	
<i>Juniperus communis</i> L.	X X X					X				X
<i>Lonicera involucrata</i> (Rich.) Banks	X		X		X X				X X	
<i>utahensis</i> S. Wats.			X X X X	X X	X X	X X			X X	X
<i>Paxistima myrsinites</i> (Pursh) Raf.						X				X
<i>Potentilla fruticosa</i> L.									X X	
<i>Pyrola asarifolia</i> Michx.				X						
<i>secunda</i> L.				X		X				X X
<i>Ribes lacustre</i> (Pers.) Poir.			X X						X X X	
<i>montigenum</i> McClatchie					X					X
<i>viscosissimum</i> Pursh						X			X X	
<i>Rosa acicularis</i> Lindl.			X		X					
<i>woodsii</i> Lindl.	X					X X		X X		

	1	2	3	4	5	6	7	8	9	10	11
<i>Rubus idaeus</i> L.					X						
<i>Salix bebbiana</i> Sarg.					X						
<i>exigua</i> Nutt.	X										
<i>geyeriana</i> Anderss.	X			X							
<i>scouleriana</i> Barratt ex Hook.				X					X		
<i>wolfii</i> Bebb				X						X	
sp.			X								X
<i>Sambucus racemosa</i> L.			X		X						X
<i>Shepherdia canadensis</i> (L.) Nutt.	X	X	X	X		X	X	X	X	X	X
<i>Sorbus scopulina</i> Greene						X					X
<i>Spiraea betulifolia</i> Pall.			X		X	X		X			X
<i>Symphoricarpos oreophilus</i> Gray.			X	X	X	X					
<i>Vaccinium globulare</i> Rydb.			X								X
<i>membranaceum</i> Dougl.						X					
<i>myrtilus</i> L.					X						
<i>scoparium</i> Leib.			X					X			
FORBS											
<i>Achillea millefolium</i> L.	X	X	X	X	X		X	X	X	X	
<i>Aconitum columbianum</i> Nutt.				X			X			X	X
<i>Actaea rubra</i> (Ait.) Willd.			X	X	X	X				X	
<i>Agoseris aurantiaca</i> (Hook.) Greene.									X	X	
<i>glauca</i> (Pursh) Raf.	X	X	X	X	X				X		
<i>Allium brevistylum</i> S. Wats.			X	X	X				X	X	
<i>geyeri</i> S. Wats.	X										
<i>schoenoprasum</i> L.	X								X		
<i>Androsace filiformis</i> Retz.	X			X	X	X			X		
<i>septentrionalis</i> L.											X
<i>Anemone multifida</i> Poir.			X						X		
<i>Angelica arguta</i> Nutt. ex Torr. & Gray				X	X		X				X
<i>pinnata</i> Wats.										X	
<i>Antennaria microphylla</i> Rydb.	X	X	X	X	X				X		
<i>racemosa</i> Hook.		X						X	X	X	X
<i>umbrinella</i> Rydb.		X		X				X			
<i>Aquilegia caerulea</i> James							X			X	X
<i>flavescens</i> Wats.			X								
<i>Arabis divaricarpa</i> Nels.		X									
<i>drummondii</i> Gray			X		X						
<i>glabra</i> (L.) Bernh.	X			X					X		
<i>holboellii</i> Hornem.	X	X							X		
<i>Arenaria congesta</i> Nutt. ex Torr. & Gray									X		
<i>lateriflora</i> L.				X							X
<i>obtusiloba</i> (Rydb.) Fern.		X									
<i>Arnica cordifolia</i> Hook.		X	X	X	X	X		X		X	X
<i>mollis</i> Hook.	X		X								
<i>Aster chilensis</i> (Lindl.) Cronq.	X								X		
<i>conspicuus</i> Lindl.	X			X	X					X	
<i>engelmannii</i> (D. C. Eat.) Gray				X			X				
sp.	X	X	X	X	X	X	X	X	X	X	X
sp #2					X						X

	1	2	3	4	5	6	7	8	9	10	11
<i>Astragalus agrestis</i> Dougl. & Hook.	X			X					X		
<i>alpinus</i> L.	X						X		X	X	
<i>miser</i> Dougl.			X	X	X	X	X		X		
<i>purshii</i> Dougl. ex G. Don									X		
<i>Balsamorhiza sagittata</i> (Pursh) Nutt.						X					
<i>Calypso bulbosa</i> (L.) Oakes			X	X						X	X
<i>Campanula rotundifolia</i> L.		X						X			
<i>Cardamine breweri</i> S. Wats.					X						
<i>Castilleja cusickii</i> Greenm.		X									
<i>miniata</i> Dougl.							X			X	
<i>rhexifolia</i> Rydb.	X			X							
sp.			X								
<i>Catabrosa aquatica</i> (L.) Beauv.				X							
<i>Cerastium apetalum</i> Dum.				X							
<i>arvense</i> L.	X	X			X						
sp.							X				
<i>Chenopodium fremontii</i> S. Wats.					X						
<i>rubrum</i> L.					X						
sp.				X							
<i>Cirsium arvense</i> (L.) Scop.									X		
<i>scariosum</i> Nutt.			X		X				X	X	
sp.										X	
<i>Claytonia lanceolata</i> Pursh.		X		X			X				X
<i>Clematis occidentalis</i> (Hornem.) DC.				X	X	X		X			
<i>Collinsia parviflora</i> Dougl.	X	X		X				X			X
<i>Collomia linearis</i> Nutt.	X	X		X					X		
Composite sp.						X					
<i>Conyza canadensis</i> (L.) Cronq.	X										
<i>Corallorhiza maculata</i> Raf.								X			
<i>trifida</i> Chat.					X				X		
<i>wisteriana</i> Conrad		X						X			
<i>Crataegus douglasii</i> Lindl.						X					
<i>Crepis modocensis</i> Greene									X		
sp.		X									
<i>Cryptantha affinis</i> (Gray) Greene				X							
<i>Delphinium nuttallianum</i> Pritz. ex Walp.	X	X		X	X				X		
<i>occidentale</i> S. Wats.					X		X				
<i>Descurainia richardsonii</i> (Sweet) Schulz					X						
<i>Dicentra uniflora</i> Kell.							X				
<i>Disporum trachycarpum</i> (S. Wats.) Benth. & Hook.				X	X	X				X	
<i>Dodecatheon pulchellum</i> (Raf.) Merrill		X					X			X	
<i>Draba aurea</i> Vahl.			X				X		X		X
<i>Epilobium alpinum</i> L.										X	
<i>angustifolium</i> L.	X		X	X	X		X	X		X	X
<i>minutum</i> Lindl.							X				X
<i>paniculatum</i> Nutt.	X			X	X	X					
<i>watsonii</i> Barbey				X							
sp. (perennial)									X		
<i>Erigeron compositus</i> Pursh		X									
<i>ochroleucus</i> Nutt.				X							

	1	2	3	4	5	6	7	8	9	10	11
<i>Erigeron speciosus</i> (Lindl.) DC. sp.				X			X				
<i>Eriogonum heracleoides</i> Nutt.	X	X	X	X		X					
<i>Eriophyllum lanatum</i> (Pursh) Forbes	X	X			X						
<i>Erysimum asperum</i> (Nutt.) DC. <i>cheiranthoides</i> L.									X		
<i>Floerkea proserpinacoides</i> Willd.				X			X				
<i>Fragaria vesca</i> L. <i>virginiana</i> Duchn.	X	X	X	X		X	X	X	X	X	X
<i>Frasera speciosa</i> Dougl. ex Hook.			X				X			X	
<i>Galium bifolium</i> S. Wats. <i>boreale</i> L. <i>triflorum</i> Michx.				X			X				
<i>Geranium richardsonii</i> Fisch. & Trautv. <i>viscosissimum</i> Fisch. & May	X				X						
<i>Geum macrophyllum</i> Willd. <i>triflorum</i> Pursh					X				X	X	X
<i>Gilia aggregata</i> (Pursh) Spreng.									X		
<i>Glycyrrhiza lepidota</i> (Nutt.) Pursh									X		X
<i>Gnaphalium microcephalum</i> Nutt.						X					
<i>Goodyera oblongifolia</i> Raf.											X
<i>Habenaria dilatata</i> (Pursh) Hook. <i>hyperborea</i> (L.) R. Br. <i>unalascensis</i> (Spreng.) S. Wats. sp.					X				X		X
<i>Hackelia floribunda</i> (Lehm.) L. M. Johnst. <i>micrantha</i> (Eastw.) J. L. Gentry				X	X		X				
<i>Hedysarum boreale</i> Nutt. sp.					X						
<i>Helianthella quinquenervis</i> (Hook.) Gray				X			X				
<i>Heracleum lanatum</i> Michx.	X		X		X		X				X
<i>Hieracium</i> sp.		X		X		X		X			X
<i>Hippuris vulgaris</i> L.									X		
<i>Hydrophyllum capitatum</i> Dougl.				X			X				X
<i>Lactuca pulchella</i> (Pursh) DC.							X				
<i>Lappula redowskii</i> (Hornem.) Greene									X		
<i>Linanthus harkenssii</i> (Curran) Greene	X			X			X		X		
<i>Linnaea borealis</i> L.		X	X		X					X	
<i>Listera</i> sp.				X						X	X
<i>Lithophragma bulbifera</i> Rydb. <i>parviflora</i> (Hook.) Nutt.		X			X		X				
<i>Lomatium ambiguum</i> Nutt.) Coult. & Rose <i>dissectum</i> (Nutt.) Mathias & Const.		X		X					X		
<i>Lupinus argenteus</i> Pursh. <i>lepidus</i> Dougl. ex Lindl.		X	X	X	X	X	X	X	X	X	
<i>Luzula parviflora</i> (Ehrh.) Desv.		X			X						
<i>Medicago lupulina</i> L.	X		X						X		
<i>Mentha arvensis</i> L.									X		
<i>Mertensia ciliata</i> (James) G. Don. <i>oblongifolia</i> (Nutt.) G. Don.				X	X						

	1	2	3	4	5	6	7	8	9	10	11
<i>Microseris nutans</i> (Geyer) Schulta-Bip.		X		X							
<i>Microsteris gracilis</i> (Hook.) Greene	X			X							
<i>Mitella stauropetala</i> Piper					X						X
<i>Myriophyllum spicatum</i> L.									X		
<i>Nemophila breviflora</i> Gray				X	X		X				
<i>Oenothera pallida</i> Lindl.	X										
<i>Osmorhiza chilensis</i> Hook. & Arn.	X	X	X	X	X	X	X	X	X	X	X
<i>Pedicularis bracteosa</i> Benth.										X	X
<i>racemosa</i> Dougl. ex Hook.						X				X	X
<i>Penstemon attenuatus</i> Dougl.	X										
<i>Perideridia gairdneri</i> (Hook. & Arn.) Mathias			X		X	X		X			
<i>Phacelia sericea</i> (Grah.) Gray			X		X						
<i>Phlox multiflora</i> A. Nels.		X			X						
<i>Plantago major</i> L.									X		
<i>Polemonium pulcherrimum</i> Hook.			X								
<i>Polygonum aviculare</i> L.				X					X		
<i>bistortoides</i> Pursh			X					X			
<i>douglasii</i> Greene	X			X			X		X		
<i>viviparum</i> L.									X	X	
<i>Potentilla anserina</i> L.									X		
<i>arguta</i> Pursh			X								
<i>diversifolia</i> Lehm.		X	X	X	X						X
<i>glandulosa</i> Lindl.					X			X		X	X
<i>gracilis</i> Dougl.			X	X	X	X	X		X		
<i>Prunella vulgaris</i> L.	X								X		
<i>Pterospora andromedea</i> Nutt.								X			
<i>Pyrola asarifolia</i> Michx.			X		X				X		
<i>secunda</i> L.			X						X		
sp.			X						X		
<i>Ranunculus acriformis</i> Gray											X
<i>aquatilis</i> L.									X		
<i>cymbalaria</i> Pursh.									X		
<i>inamoenus</i> Greene					X						
<i>macounii</i> Britt.				X	X		X		X		
<i>uncinatus</i> D. Don.					X						
<i>Rudbeckia occidentalis</i> Nutt.				X			X				
<i>Rumex paucifolius</i> Nutt. ex S. Wats.	X			X			X				
<i>Saxifraga arguta</i> D. Don.					X						
<i>Saxifragaceae</i> sp.		X									
<i>Sedum stenopetalum</i> Pursh	X	X			X				X		
<i>Senecio cymbalaroides</i> Buckl.			X								
<i>integerrimus</i> Nutt.	X								X		
<i>pseudaureus</i> Rydb.					X						
<i>serra</i> Hook.				X	X		X		X		
<i>sphaerocephalus</i> Greene				X	X		X				X
<i>streptanthifolius</i> Greene									X		
<i>triangularis</i> Hook.			X								
sp.					X						
<i>Silene menziesii</i> Hook.				X					X		
<i>Smilacina racemosa</i> (L.) Desf.				X	X						X
<i>stellata</i> (L.) Desf.	X	X	X	X	X	X	X		X	X	

	1	2	3	4	5	6	7	8	9	10	11
<i>Solidago canadensis</i> L.								X			
<i>missouriensis</i> Nutt.	X	X	X		X						
<i>mollis</i> Bartl.									X	X	
<i>spatulata</i> DC.								X			
sp.	X	X	X		X						
<i>Stellaria longifolia</i> Muhl.				X							
<i>umbellata</i> Turcz.	X				X		X	X	X		
<i>Streptopus amplexifolius</i> (L.) DC.					X						X
<i>Taraxacum laevigatum</i> (Willd.) DC.		X									
<i>officinale</i> Weber	X		X	X	X		X		X	X	X
<i>Thalictrum fendleri</i> Engelm.				X	X	X	X			X	X
<i>occidentale</i> Gray			X	X			X				X
<i>sparsiflorum</i> Turcz.					X						
<i>Thlaspi arvense</i> L.					X						
<i>Trifolium longipes</i> Nutt.	X		X				X		X	X	
<i>pratense</i> L.	X			X	X				X		
<i>repens</i> L.	X	X			X		X	X	X	X	X
<i>Urtica dioica</i> L.					X				X		
<i>Valeriana dioica</i> L.			X	X	X		X			X	
<i>edulis</i> Nutt.										X	
sp.					X						X
<i>Veronica americana</i> (Raf.) Schwein.					X						
<i>anagallis-aquatica</i> L.				X	X						
<i>biloba</i> L.				X							
<i>serpyllifolia</i> L.					X						
sp.									X		
<i>Vicia americana</i> Muhl.									X		
<i>Viguiera multiflora</i> (Nutt.) Blake				X			X				
sp.										X	
<i>Viola adunca</i> J. E. Smith		X	X		X	X		X	X	X	X
<i>macloskeyi</i> Lloyd										X	
<i>nuttallii</i> Pursh		X		X	X		X		X		X
<i>orbiculata</i> Geyer											X
sp.				X							
<i>Wyethia amplexicaulis</i> Nutt.		X									
<i>Zigadenus elegans</i> Pursh										X	
<i>paniculatus</i> (Nutt.) Wats.		X									
GRASSES & SEDGES											
<i>Agropyron smithii</i> Rydb.		X							X		
<i>spicatum</i> (Pursh) Scribn. & Sm.					X						
<i>trachycaulum</i> Link					X		X				
sp.	X		X								
<i>Bromus ciliatus</i> L.	X	X	X	X	X	X	X		X	X	X
<i>inermis</i> Leys.											X
<i>Calamagrostis canadensis</i> (Michx.) Nutt.		X	X	X	X				X		
<i>rubescens</i> Buckl.		X		X	X		X	X	X	X	X
<i>Carex aquatilis</i> Wahl.										X	
<i>aurea</i> Nutt.					X				X	X	
<i>geyeri</i> Boott	X	X	X	X	X	X	X	X	X	X	X

	1	2	3	4	5	6	7	8	9	10	11
<i>Carex hoodii</i> Boott				X			X		X		
<i>microptera</i> Mack.	X			X	X		X		X		
<i>rossii</i> Boott	X	X	X	X	X			X	X		X
<i>rostrata</i> Stokes				X							
<i>vesicaria</i> L.				X			X		X		
sp. #1	X									X	X
sp. #2	X										
sp. #3	X										
<i>Dactylis glomerata</i> L.	X						X				X
<i>Danthonia spicata</i> (L.) Beauv.	X										
<i>Deschampsia caespitosa</i> (L.) Beauv.										X	
<i>Elymus cinereus</i> Scribn. & Merr.					X						
<i>glaucus</i> Buckl.	X	X		X	X	X	X	X	X	X	X
<i>Festuca idahoensis</i> Elmer	X	X			X				X		
<i>Juncus arcticus</i> Willd.									X		
<i>Koeleria cristata</i> (L.) Pers.	X								X		
<i>Melica bulbosa</i> Geyer				X							
<i>spectabilis</i> Scribn.				X	X		X				
<i>Muhlenbergia squarrosa</i> (Trin.) Rydb.									X		
<i>Oryzopsis asperifolia</i> Michx.			X			X					
<i>Phleum alpinum</i> L.	X								X		
<i>pratense</i> L.	X			X	X				X		
<i>Poa alpina</i> L.	X										
<i>annua</i> L.									X		
<i>compressa</i> L.					X						
<i>curta</i> Rydb.				X							X
<i>fendleriana</i> (Steud.) Vasey									X		
<i>juncifolia</i> Scribn.					X						
<i>nervosa</i> (Hook.) Vasey	X	X	X	X	X	X		X	X		
<i>pratensis</i> L.	X	X	X	X	X				X		X
<i>rupicola</i> Nash	X		X		X						
<i>sandbergii</i> Vasey		X									
<i>scabella</i> (Thurb.) Benth.	X										
<i>Stipa columbiana</i> Macoun.	X				X	X			X		
<i>comata</i> Trin. & Rupr.									X		
<i>lettermanii</i> Vasey				X							
<i>Trisetum spicatum</i> (L.) Richt.		X									
CRYPTOGAMS											
<i>Cladonia</i> sp.	X	X	X	X				X	X	X	
<i>Equisetum arvense</i> L.	X			X	X				X	X	X
<i>fluviatile</i> L.									X		
<i>hymale</i> L.	X		X	X					X	X	
<i>variegatum</i> Schleich.									X	X	
Moss sp. #1	X			X			X	X	X	X	X
sp. #2											X
<i>Peltigera canina</i>	X	X	X		X				X	X	X
<i>Polytrichum</i> sp.	X	X	X		X			X	X		
<i>Selaginella densa</i> Rydb.	X	X									

Table 2. FUNGI NEW TO CHECKLIST, 1983

Species	Specimen No.
Discomycetes	
Helotiales	
Geoglossaceae	
<i>Cudonia monticola</i> Mains	83080406
Pezizales	
Helvellaceae	
<i>Helvella albella</i> Quél. ss. Dissing non Weber	83082803
<i>Helvella maculata</i> Weber	83082806
Hymenomycetes	
Agaricales	
Agaricaceae	
<i>Agaricus perrarus</i> Schulz.	83082708
Amanitaceae	
<i>Amanita albe</i> Gill.	83082610
Bolbitiaceae	
<i>Agrocybe praecox</i> (Pers.; Fr.) Fayod	83081504
<i>Conocybe aporos</i> Kits v. Wav.	83072902
Coprinceae	
<i>Psathyrella clivensis</i> (Berk. & Br.) Orton	83081501
Cortinariaceae	
<i>Cortinarius alpinus</i> Boud.	83082205
<i>Cortinarius armeniacus</i> (Schaeff.; Fr.) Fr.	83081810
<i>Cortinarius brunneus</i> Fr.	83081803
<i>Cortinarius caninus</i> (Fr.) Fr.	83082602
<i>Cortinarius chrysomalus</i> Lamoure	83/330
<i>Cortinarius croceus</i> Schaeff.	83073003
<i>Cortinarius duracinus</i> (Fr.) Fr.	83080303
<i>Cortinarius favrei</i> Mos. ex Henderson	83082410
<i>Cortinarius flexipies</i> Fr. ss Kühner.	83080805
<i>Cortinarius griseoluridus</i> Kauffm.	83072907
<i>Cortinarius hercynicus</i> (Pers.) Moser	83082709
<i>Cortinarius humboldtensis</i> Ammir, & A. H. Smith	67062211
<i>Cortinarius obtusus</i> Fr.	83081802
<i>Cortinarius paleaceus</i> Fr.	83072906
<i>Cortinarius pluvius</i> (Fr.) Fr.	83082601
<i>Cortinarius renidens</i> Fr.	83080810
<i>Cortinarius scutulatus</i> Fr.	83081704

Dacrymycetales

Dacrymycetaceae

Dacryomitra stipitata (Pk.) Burt

65060911

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