

Botany

(BOT)

Appendix List BOT1:

Rare Plant Lists for Non-Forested Habitats

The plants on the Regional Forester's Sensitive (S) Plant List for the Willamette National Forest and the WNF Review (R), Watch (W), and Concern (C) Lists likely to occur in the watershed. The * designates a species listed in more than one habitat type.

Rare species present in watershed for aquatic habitat.

Utricularia minor - Lessor bladder (S)

Potential rare species for aquatic habitat.

Wolffia columbiana - Water-meal (S)

Rare species present in watershed for lake/pond ectones and riparian zones.

**Parnassia fimbriolata* var. *hoodiana* - Fringed grass of pamassus (C)

**Sidalcea cusickii* - Cusick's mallow (W)

Potential rare species for lake/pond ectones and riparian zones.

**Botrychium minganense* - Gray moonwort (S)

Botrychium montanum - Mountain grape-fem (S)

**Calamagrostis breweri* - Brewer's reedgrass (S)

**Carex hystericina* - Porcupine sedge (S/W)

Corydalis caseana var. *cusickii* - Case's corydalis (R)

Delphinium glaucum - Pale larkspur (C)

Heuchera glabra - Smooth alumroot (C)

Huperzia occidentalis - Fir clubmoss (S)

Isoetes spp. - Quillworts (C)

**Lycopodium annotinum* - Stiff clubmoss (W)

**Mertensia bella* - Oregon bluebells (R)

Poa laxiflora - Loose-flowered bluegrass (S/W)

**Scolopos hallii* - Oregon fetid adder's tongue (C)

**Sisyrinchium sarmentosum* - Suksdorf's blue-eyed grass (S)

Woodwardia fimbriata - Chain fern (C)

Rare species present in watershed for bogs, marshes, and swamps.

**Carex cusickii* - Cusick's sedge (C)

**Dulichium arundinaceum* - Dulichium (W)

**Gentiana simplex* - One-flowered gentian (C)

**Lycopodiella inundata* - Northern bog clubmoss (S)

**Ophioglossum pusillum* - Adder's tongue (S)

**Oxypolis occidentalis* - Cow-bane (S/W)

**Parnassia fimbriolata* var. *hoodiana* - Fringed grass of pamassus (C)

**Scheuchzeria palustris* var. *americana* - Scheuchzeria (S)

Potential rare species for bogs, marshes, and swamps.

**Botrychium minganense* - Gray moonwort (S)

**Carex buxbaumii* - Buxbaum's sedge (R)

**Carex comosa* - Bristly sedge (R)

**Carex livida* - Pale sedge (S)

Eriophorum polystachion - Many-spiked cottongrass (W)

**Lycopodium annotinum* - Stiff clubmoss (W)

**Viburnum edule* - Squashberry or Bushcranberry (C)

Eupatorium occidentale - Western boneset (C)
Heuchera cylindrica - Roundleaf alumroot (C)
Phacelia verna - Spring phacelia (W)
Silene suksdorfii - Suksdorf's silene (W)

Rare species present in watershed for moist rock garden.
Mimulus pulsiferae - Pulsifer's monkeyflower (W)

Potential rare species for dry rock garden.
Allium campanulatum - Sierra onion (S)

Rare species present in watershed for rock outcrops.
**Polystichum andersonii* - Anderson's swordfern (C)

Potential rare species for rock outcrops.
Castilleja rupicola - Cliff paintbrush (R)
**Hieracium bolanderi* - Bolander's hawkweed (S)
Pellaea andromedaefolia - Coffee fern (S)
Polystichum californicum - California swordfern (S)

Rare species present in watershed for rocky slopes/soils.
Erigeron cascadiensis - Cascade daisy (W)
**Romanzoffia thompsonii* - Thompson's mist maiden (S)

Potential rare species for rocky slopes/soils.
Brickellia grandiflora - Large-flowered brickellia (C)
Cercocarpus ledifolius var. *ledifolius* - Curleaf mountain mahogeny (C)
**Lycopodium annotinum* - Stiff clubmoss (W)
Pellaea brachyptera - Sierra cliff-brake (C)
**Veratrum insolitum* - Siskiyou false hellebore (R)

Rare species present in watershed for wet meadows.

- **Carex cusickii* - Cusick's sedge (C)
- **Dulichium arundinaceum* - Dulichium (W)
- **Gentiana simplex* - One-flowered gentian (C)
- **Lycopodiella inundata* - Northern bog clubmoss (S)
- **Ophioglossum pusillum* - Adder's tongue (S)
- **Oxypolis occidentalis* - Cow-bane (S/W)
- **Parnassia fimbriolata* var. *hoodiana* - Fringed grass of parnassus (C)
- **Scheuchzeria palustris* var. *americana* - Scheuchzeria (S)
- **Sidalcea cusickii* - Cusick's mallow (W)

Potential rare species for wet meadows.

- Allium validum* - Pacific or swamp onion (C)
- Botrychium simplex* - Little grape-fem (C)
- **Carex atrata* var. *atrosquama* - Blackened sedge (R)
- **Carex buxbaumii* - Buxbaum's sedge (R)
- **Carex comosa* - Bristly sedge (R)
- **Carex hystericina* - Porcupine sedge (S/W)
- **Carex livida* - Pale sedge (S)
- **Lycopodium annotinum* - Stiff clubmoss (W)
- **Mertensia bella* - Oregon bluebells (R)
- **Viburnum edule* - Squashberry or Bushcranberry (C)

Potential rare species for mesic meadows.

- **Agoseris elata* - Tall agoseris (S)
- **Calamagrostis breweri* - Brewer's reedgrass (S)
- Epilobrum luteum* - Yellow willow-herb (R)
- Frasera umpquaensis* - Umpqua swertia (S)
- Gentiana newberryi* - Newberry's gentian (S)
- **Lathyrus holochlorus* - Yellow pea (W)
- Polygonum punctatum* - Water or dotted smartweed (R)
- **Sisyrinchium sarmentosum* - Suksdorf's blue-eyed grass (S)
- **Veratrum insolitum* - Siskiyou false hellebore (R)

Potential rare species for dry meadows.

- **Agoseris elata* - Tall agoseris (S)
- **Astragalus umbraticus* - Woodland milkvetch (S)
- **Hieracium bolanderi* - Bolander's hawkweed (S)
- **Lathyrus holochlorus* - Yellow pea (W)
- **Veratrum insolitum* - Siskiyou false hellebore (R)

Rare species present in watershed for talus/scree.

- **Polystichum lonchitis* - Holly fern (C)
- **Romanzoffia thompsonii* - Thompson's mist maiden (S)
- Smelowskia ovalis* var. *ovalis* - Short fruit smelowskia (W)

Potential rare species for talus/scree.

- Arnica viscosa* - Shasta arnica (S)
- Asplenium septentrionale* - Grass fern (S)
- Asplenium trichomanes* - Maidenhair spleenwort (C)
- Aster gormanii* - Gorman's aster (S)
- Collomia debillis* var. *larsenii* - Alpine collomia (W)
- Douglasia laevigata* - Smooth douglasia (R)
- Elmera racemosa* var. *racemosa* - Elmera (C)

**RARE & UNCOMMON FORESTED PLANT ASSOCIATIONS
IN THE SOUTH FORK WATERSHED**

<u>Plant Association</u>	<u>*FW-201</u>	<u>**Age</u>	<u>***Seral</u>	<u>Aspect</u>	<u>Elevation</u>	<u>Plot</u>	<u>Township</u>	<u>Range</u>	<u>Section</u>
PSME/QUGA^				179	2900		18.00	5.00	12
ABAM/BENE°	C	105		318	3400	454	18.00	5.00	17
ABAM/RHMA-BENE°	C	542		88	4000	448	18.00	5.00	7
ABAM/RHMA-VAAL/COCA°	C	530		105	4100	211	18.00	5.00	6
TSHE/RHMA-VAAL/COCA°	C		3	108	3330	8294	19.00	5.00	12
PSME/HODI-WHMO	R	135	2	154	3200	1042	16.00	5.00	28
PSME/HODI-WHMO	R	80 to 137	3	160	3580	8215	16.00	5.00	28
PSME/SYMO-WILL	R	70		224	2300	6512	17.00	5.00	35
PSME/SYMO-WILL	R	104		178	2580	6696	18.00	5.00	12
ABAM/OPHO	U		4	294	4500	1229	17.00	6.00	22
ABAM/OXOR	U	503		101	4200	450	18.00	5.00	6
PSME/HODI-BENE	U	130		167	2270	6490	17.00	5.00	3
PSME/HODI-BENE	U	82 to 103	3	180	3625	8216	16.00	5.00	28
PSME/HODI/GRASS	U	93 to 147	3	220	2740	8207	17.00	5.00	16
TSHE/RHMA/OXOR	U	701		81	3160	6514	17.00	5.00	31
TSME/RHMA	U	150		61	4300	510	18.00	6.00	17

^PA recommended for WNF FW-201 list.

°Recommended for change to Uncommon PA.

*SHAB MGMT GUIDE 1992: R = Rare PA (< 5 sites on district); U = Uncommon PA (6-11 sites on district);
C = Common PA (> 11 sites on district). **Tree ages. ***? = Early (30-100yrs); 3 = Mid, mature (100-200yrs);
4 = Late, highly stable (200+yrs until late seral sp. gc = Climatic, topographic, or edaphic climax.

SOUTH FORK MCKENZIE WATERSHED SPECIAL FEATURES

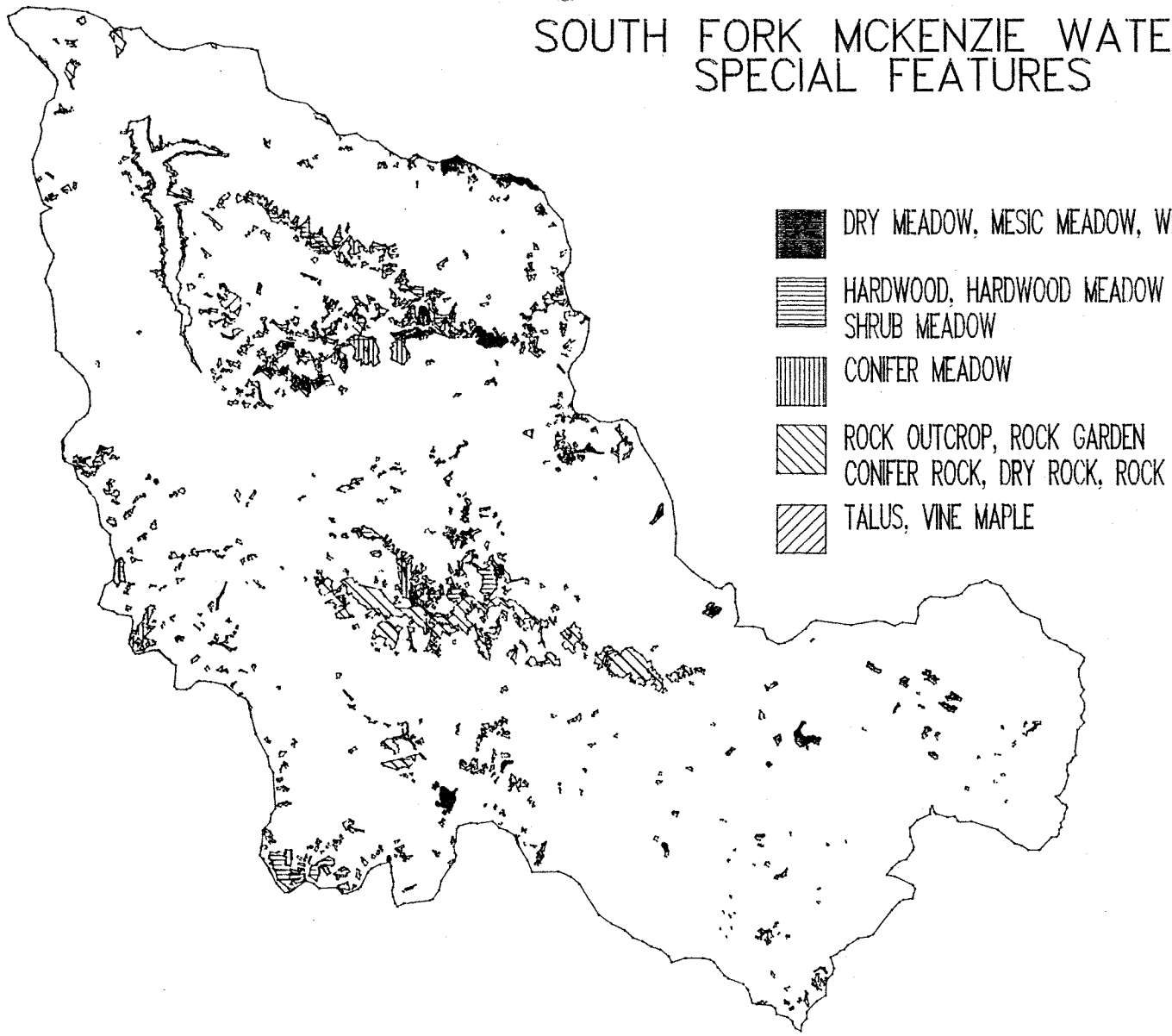


Figure 55b

Table 2d: Commonality Ranking of Plant Associations
 FORESTED PLANT ASSOCIATIONS
 WILLAMETTE NATIONAL FOREST

		RI	OA	SH	DE	LO	BR
<u>Douglas-fir series</u>							
Douglas-fir/oceanspray-dwarf Oregon grape	PSME/HODI/BENE	C	U	R	U	U	U
Douglas-fir/oceanspray/grass.....	PSME/HODI-GRASS	C	U	R	R	R	U
Douglas-fir/oceanspray-whipple vine.....	PSME/HODI-WHMO	C	U	R	U	U	R
Douglas-fir/snowberry.....	PSME/SYMO-WILL	C	U	A	R	U	R
Douglas-fir-western hemlock/dwarf Oregon grape.....	PSME-TSHE/BENE	C	U	R	U	U	U
Douglas-fir-western hemlock/rhododendron.	PSME-TSHE/RHMA	U	R	R	R	R	R
Douglas-fir-western hemlock/salal.....	PSME-TSHE/GASH	C	U	R	R	U	U
<u>Grand fir series</u>							
Grand fir/bearberry.....	ABGR/ARUV	U	U	R	R	R	R
Grand fir/dwarf Oregon grape.....	ABGR/BENE	C	U	R	U	U	U
Grand fir/prince's pine.....	ABGR/CHUM	U	U	R	U	R	U
<u>Pacific silver fir series</u>							
Pacific silver fir-grand fir/false solomonseal.....							
	ABAM-ABGR/SMST	U	U	R-U	U	R	U
Pacific silver fir/Alaska huckleberry/dogwood bunchberry.....							
	ABAM/VAAL/COCA	R	R	C	C	R	U
Pacific silver fir/Alaska huckleberry-salal.....							
	ABAM/VAAL-GASH	A	A	R-U	U	R	R
Pacific silver fir/big huckleberry/beargrass.....							
	ABAM/VAME/XETE	C	C	C	C	U	C
Pacific silver fir/big huckleberry/queencup beadlily.....							
	ABAM/VAME/CLUN	C	C	C	U	U	C
Pacific silver fir/Cascades azalea/beargrass.....							
	ABAM/RHAL/XETE	A	A	R	R	A	R
Pacific silver fir/Cascades azalea/queencup beadlily.....							
	ABAM/RHAL/CLUN	A	A	R	U	A	R
Pacific silver fir/coolwort foamflower...							
	ABAM/TITR	C	C	C	U	U	C
Pacific silver fir/dwarf Oregon grape....							
	ABAM/BENE	C	C	C	C	R	C
Pacific silver fir/fool's huckleberry....							
	ABAM/MEFE	A	A	U	U	A	A
Pacific silver fir/Oregon oxalis.....							
	ABAM/OXOR	U	U	U	U	R	U
Pacific silver fir/rhododendron-Alaska huckleberry/dogwood bunchberry.....							
	VAAL/COCA	U	U	C	C	R	C
Pacific silver fir/rhododendron/beargrass							
	ABAM/RHMA/XETE	C	C	C	C	U	C
Pacific silver fir/rhododendron-dwarf Oregon grape.....							
	ABAM/RHMA-BENE	C	C	C-U	C	R	C
Pacific silver fir/vine maple/coolwort foamflower.....							
	ABAM/ACCI/TITR	U	U	C	U	R	C
Pacific silver fir-western hemlock/rhododendron-salal.....							
	ABAM-TSHE/RHMA-GASH	R	R	U	C	R	U
<u>Mountain hemlock series</u>							
Mountain hemlock/big huckleberry/beargrass.....							
	TSME/VAME/XETE	C	C	U	C	A	U-C
Mountain hemlock/grouse huckleberry.....							
	TSME/VASC	C	C	A-R	C	A	C
Mountain hemlock/luzula.....							
	TSME/LUZULA	U	U	A	R	A	U
Mountain hemlock/rhododendron.....							
	TSME/RHMA	U	U	R	U	A	U

Table 2d: Commonality Ranking of Plant Associations continued

<u>Western hemlock series</u>					
Western hemlock/Alaska huckleberry/ dogwood bunchberry.....	TSHE/VAAL/COCA	U	U	C	U
Western hemlock/dwarf Oregon grape.....	TSHE/BENE	C	C	C	C
Western hemlock/dwarf Oregon grape/ Oregon oxalis.....	TSHE/BENE/OXOR	C	C	C	R-U C
Western hemlock/dwarf Oregon grape-salal.	TSHE/BENE-GASH	C	C	C	C C
Western hemlock/dwarf Oregon grape/ vanilla leaf.....	TSHE/BENE/ACTR	C	C	U	U-C U-C
Western hemlock/Oregon oxalis.....	TSHE/OXOR	C	C	C	U C
Western hemlock/rhododendron-Alaska huckleberry/dogwood bunchberry.....	TSHE/RHMA- VAAL/COCA	R	R	C	U-C U
Western hemlock/rhododendron/beargrass...	TSHE/RHMA/XETE	C	C	C	C C
Western hemlock/rhododendron-dwarf Oregon grape.....	TSHE/RHMA-BENE	C	C	C	C C
Western hemlock/rhododendron/Oregon oxalis.....	TSHE/RHMA/OXOR	R	U	U	R C-U
Western hemlock/rhododendron-salal.....	TSHE/RHMA-GASH	C	C	C	C C
Western hemlock/rhododendron/twinflower..	TSHE/RHMA/LIBO2	C	C	U	U U
Western hemlock/salal.....	TSHE/GASH-WILL	C	C	C	C C
Western hemlock/swordfern.....	TSHE/POMU-WILL	U	U	C	U C
Western hemlock/twinflower.....	TSHE/LIBO2	C	C	U-R	U U
Western hemlock/vanilla leaf.....	TSHE/ACTR	C	C	U-R	U U

A - Absent/unknown in area
 R - Rare
 U - Uncommon
 C - Common

Rare Plant Associations are given protect
 under Standards and Guidelines FW-211.

Appendix List BOT2:

Special Forest Products Potential Harvest Areas South Fork Watershed

Prince's pine (*Chimaphila umbellata*)

<u>Legals</u>	<u>Site Name</u>
T19S R6E Sec 6, 7, 16-20, 28-30, 32, 33	along Rds. 1958-305, 301, 310

Beargrass (*Xerophyllum tenax*)

<u>Legals</u>	<u>Site Name</u>
T16S R5E Sec 34, 35	McLennen Mtn. at end of Rd. 600
T17S R5.5E Sec 21	east & west of Rd. 1993
T17S R5.5E Sec 8, 9	north of Rd. 1995-690
T17S R5E Sec 2, 3, 11, 12	north of Rd. 1993
T18S R4E Sec 1, 2, 11, 12, 13, 18, 19	along Rds. 1985, 1985-160
T18S R5E Sec 10, 15, 16, 19, 20	east of Rd. 1980-350
T18S R5E Sec 14, 24, 25	along Rds. 2618, 2618-353, 355
T18S R5E Sec 18, 19	west of Rd. 1980
T18S R5E Sec 21, 22, 29	along Rds. 1927-100, 1927-155, 150
T18S R5E Sec 28	east of Rd. 2618-230
T18S R5E Sec 32, 33	along Rd. 2618
T18S R5E Sec 5, 6, 8	along Rds. 1980-231, 1980-484
T19S R6E Sec 6, 7, 16-20, 28-30, 32, 33	along Rds. 1958-305, 301, 310

<u>Shrub</u>	<u>% Coverage</u>	<u>Plot</u>	<u>Township</u>	<u>Range</u>	<u>Section</u>
Beargrass	40.00	219	16.00	4.00	36
Prince's pine	10.00	221	17.00	5.00	30
Prince's pine	10.00	973	17.00	5.50	7
Prince's pine	10.00	208	17.00	6.00	21
Prince's pine	10.00	6494	17.00	6.00	35
Prince's pine	10.00	305	18.00	5.00	7
Prince's pine	15.00	448	18.00	5.00	7
Prince's pine	15.00	454	18.00	5.00	17
Prince's pine	15.00	458	18.00	5.00	18
Beargrass	70.00	535	18.00	5.00	18
Beargrass	70.00	459	18.00	5.00	19
Beargrass	40.00	464	18.00	5.00	20
Beargrass	70.00	469	18.00	5.00	28
Prince's pine	35.00	511	18.00	6.00	16
Prince's pine	35.00	512	18.00	6.00	16
Beargrass	75.00	510	18.00	6.00	17
Prince's pine	10.00	510	18.00	6.00	17
Beargrass	40.00	513	18.00	6.00	17
Prince's pine	25.00	513	18.00	6.00	17
Prince's pine	40.00	218	19.00	5.50	1
Prince's pine	10.00	476	19.00	5.50	13
Prince's pine	12.00	1228	19.00	6.00	17
Prince's pine	30.00	507	19.00	6.00	17
Beargrass	60.00	216	19.00	6.00	18
Prince's pine	40.00	216	19.00	6.00	18
Prince's pine	25.00	8096	19.00	6.00	24

**Special Forest Products Potential Harvest Areas
South Fork Watershed**

<u>Shrub</u>	<u>% Coverage</u>	<u>Plot</u>	<u>Township</u>	<u>Range</u>	<u>Section</u>
Beargrass	40.00	504	19.00	6.00	29
Beargrass	60.00	1220	19.00	7.00	9
Beargrass	40.00	1222	19.00	7.00	10
Prince's pine	15.00	6659	19.00	7.00	16
Beargrass	70.00	534	20.00	5.50	21

Special Forest Products Potential Harvest Areas South Fork Watershed

Dwarf Oregon grape (*Berberis nervosa*)

<u>Legals</u>	<u>Site Name</u>
T16S R5E Sec 30, 31	Rd. 19-410
T16S R5E Sec 32, 33, 4, 5	Rds. 19-411, 482, 496
T16S R5E Sec 5	Rds. 1993-551, 552
T17S R5E Sec 18	Rd. 1985-115 Tap Thin Unit 1 & 4
T17S R5E Sec 18, 19 20	Rd. 1985-115
T17S R5E Sec 32	Rds. 1980-208, 209 Stand #1310-190, 63 acres
T18S R5E Sec 4	Rd. 1980 Hardy Thin Unit 2
T18S R5E Sec 8	Rd. 1980-236 Stand #96

Salal (*Gaultheria shallon*)

<u>Legals</u>	<u>Site Name</u>
T16S R5E Sec 30, 31	Rd 19-410
T16S R5E Sec 32, 33, 4, 5	Rds. 19-411, 482, 496
T16S R5E Sec 5	Rds. 1993-551, 552
T16S R5E Sec 6, 31	Rd 19-415, 416
T17S R5E Sec 18	Rd. 1985-115 Tap Thin Unit 1 & 4
T17S R5E Sec 18, 19, 20	Rd. 1985-115
T17S R5E Sec 29, 30, 31, 32	Rd. 1985-208
T17S R5E Sec 32	Rds. 1980-208, 209 Stand #1310-190, 63 acres
T18S R4E Sec 3, 4, 10	Rd. 2618-330
T18S R5E Sec 15, 22, 23	Rds. 1927-100, 1927-140
T18S R5E Sec 27	Rd. 1927-200
T18S R5E Sec 4	Rd. 1980 Hardy Thin Unit 2
T18S R5E Sec 4, 8, 9	Rds. 1980, 1980-255
T18S R5E Sec 8	Rd. 1980-236 Stand #96
T19S R5.5E Sec 31, 32, 36	Rd. 19-431

<u>Species</u>	<u>% Coverage</u>	<u>Plot</u>	<u>Township</u>	<u>Range</u>	<u>Section</u>
Salal	90.00	6647	16.00	5.00	29
Swordfern	35.00	6651	16.00	5.00	30
Dwarf Oregon grape	50.00	6651	16.00	5.00	30
Dwarf Oregon grape	60.00	6468	16.00	5.00	31
Salal	60.00	8286	16.00	5.00	31
Dwarf Oregon grape	45.00	6689	16.00	5.00	32
Salal	60.00	6690	16.00	5.00	33
Salal	60.00	8289	17.00	4.00	7
Dwarf Oregon grape	60.00	8202	17.00	5.00	3
Salal	75.00	8223	17.00	5.00	5
Salal	50.00	6471	17.00	5.00	6
Dwarf Oregon grape	45.00	6471	17.00	5.00	6
Swordfern	40.00	6485	17.00	5.00	6
Dwarf Oregon grape	50.00	6485	17.00	5.00	6
Salal	55.00	6691	17.00	5.00	6
Swordfern	55.00	6478	17.00	5.00	9
Swordfern	20.00	8208	17.00	5.00	9

**Special Forest Products Potential Harvest Areas
South Fork Watershed**

<u>Species</u>	<u>% Coverage</u>	<u>Plot</u>	<u>Township</u>	<u>Range</u>	<u>Section</u>
Dwarf Oregon grape	60.00	6491	17.00	5.00	11
Salal	60.00	6492	17.00	5.00	12
Dwarf Oregon grape	85.00	6477	17.00	5.00	16
Swordfern	25.00	8210	17.00	5.00	17
Swordfern	25.00	205	17.00	5.00	29
Salal	80.00	6698	17.00	5.00	34
Dwarf Oregon grape	40.00	6698	17.00	5.00	34
Salal	65.00	973	17.00	5.50	7
Dwarf Oregon grape	85.00	207	17.00	6.00	8
Dwarf Oregon grape	55.00	202	18.00	4.00	25
Salal	55.00	203	18.00	5.00	3
Salal	55.00	210	18.00	5.00	4
Salal	55.00	6693	18.00	5.00	11
Salal	65.00	6694	18.00	5.00	11
Dwarf Oregon grape	45.00	461	18.00	5.00	16
Salal	80.00	6518	18.00	5.00	21
Dwarf Oregon grape	75.00	6519	18.00	5.00	21
Dwarf Oregon grape	80.00	6522	18.00	5.00	28
Dwarf Oregon grape	45.00	8306	18.00	5.00	28
Dwarf Oregon grape	80.00	6665	18.00	6.00	14
Salal	80.00	6664	18.00	6.00	35
Dwarf Oregon grape	40.00	8206	18.00	6.00	35
Dwarf Oregon grape	50.00	218	19.00	5.50	1
Dwarf Oregon grape	40.00	6547	19.00	7.00	12

NATIVE GRASSES FOR RESTORATION PROJECTS

Grasses can be found in mesic to dry meadows, and growing adjacent many ponds and lakes within the watershed. Seeds can be collected from plants in the fall for planting the following spring. The following is a brief description of eleven of the most common native grasses found within the South Fork Watershed that can be used for potential restoration projects.

Bromus carinatus - California brome is a perennial bunchgrass found in dry meadows. It is a good forage grass for deer and elk.

Bromus vulgaris - Brome is a perennial bunchgrass found in shaded streambanks and coniferous forest.

Calamagrostis canadensis - Bluejoint grass is a perennial, found in riparian zones, marshes, and meadows. It is a good native forage for deer and elk. Bluejoint grass is excellent for riparian rehabilitation.

Danthonia californica - California oatgrass is a perennial bunchgrass commonly found growing in meadows at low to medium elevations.

Danthonia intermedia - Timber oatgrass is a perennial bunchgrass found in wet meadows and bogs at high elevations.

Deschampsia caepitosa - Tufted hairgrass is a perennial grass commonly found in wet habitats and mountain meadows at moderate to high elevations. This grass is an excellent forage.

Elymus glaucus - Blue wild-rye is a perennial grass with creeping rhizomes. It is found in dry to moist sites, riparian zones and opening in forest stands. Blue wild-rye provides good forage and is of value for soil stabilization.

Festuca idahoensis - Idaho fescue is a perennial bunchgrass found growing in open woods and rocky slopes. This grass is an excellent forage.

Glyceria elata - Tall mannagrass is a perennial with creeping rhizomes. It grows along shaded streambanks and wet meadows at high elevations. It is a valuable forage grass and a good species for riparian restoration.

Phleum alpinum - Alpine timothy is a perennial grass found at high elevation wet meadows and bogs. It provides good forage.

Stipa occidentalis - Western needlegrass is a perennial found in dry habitats and open woods. Young plants provide good forage for deer and elk.

Appendix Table BOT3:

The attached table lists the non-vascular and vascular plants in FEIS ROD Table C-3, pages 49 to 61. Species range and specific habitat information is from the FEIS Appendix J2 and other references. The information in this document should not be used exclusively to determine whether or not a species occurs in the South Fork watershed. Field surveys are needed to determine actual presence of these species.

Trees and Shrubs:

ABAM - *Abies amabilis* (Pacific silver fir)
ABCO - *Abies concolor* (White fir)
ABGR - *Abies grandis* (Grand fir)
ABLA - *Abies lasiocarpa* (Subalpine fir)
ABPR - *Abies procera* (Noble fir)
ACCI - *Acer circinatum* (Vine maple)
ARsp. - *Arctostaphylos* (Manzanita)
CACH - *Castanopsis chrisophylla* (Chinquapin)
FAGACEAE - Beech Family

PINACEAE - Pine Family

PIAL - *Pinus albicaulis* (Whitebark pine)
PICO - *Pinus contorta* (Lodgepole pine)
PIEN - *Picea engelmannii* (Engelman spruce)
PILA - *Pinus lambertiana* (Sugar pine)
PIMO - *Pinus monticola* (Western white pine)
PISI - *Picea sitchensis* (Sitka spruce)
PIPO - *Pinus ponderosa* (Ponderosa pine)
PSME - *Pseudotsuga menziesii* (Douglas-fir)

QUGA - *Quercus garryana* (Oregon white oak)
TABR - *Taxus brevifolia* (Pacific yew)
THPL - *Thuja plicata* (Western redcedar)
TSHE - *Tsuga heterophylla* (Western hemlock)
TSME - *Tsuga mertensiana* (Mountain hemlock)

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: present
BRYOPHYTES**

Liverwort

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Ptilidium californicum</i>	endemic to Pacific NW, rare in N.CA	on conifer bark/ logs, requires cool, moist habitat, old-growth ABCO, 5000ft elev.	preserve known sites/protect & manage for habitat/ ROD-1,2	Hidden Lake, Abies spp. mid to high elev.

Moss

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Antitrichia curtipendula</i>	W.Cascades, circumboreal	cool wet conifer or hardwood coastal/ interior old-growth forest canopies, stream terraces subject to cold air/ fog	extended riparian buffers/ no thinning or harvest/ ROD-4	Olallie Creek, riparian areas, old-growth forest, low to mid elev.

FUNGI

Rare Boletes

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Gastroboletus imbebellus</i>	rare, endemic, Lamb Butte Scenic Area, Willamette NF, OR	ectomycorrhizal w/ mature to old-growth Pinaceae spp., high to mid elev. (5000ft)	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	E. Fork McKenzie River/ Olallie Ridge RNA west to McLennan Mtn.
<i>Gastroboletus ruber</i>	N.Cascades/ WA/ S.Willamette Pass, OR	ectomycorrhizal w/ mature to old-growth TSME, mid to high elev., humus/ litter layer	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	McKenzie drainage/ English Mtn./ Lamb Butte Scenic Area

Rare False Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Martellia idahoensis</i>	N.ID/ central Cascade Range OR	ectomycorrhizal w/ Abies spp. & other Pinaceae, mid to high elev.	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	Lamb Butte Scenic Area
<i>Rhizopogon evadens var. subalpinus</i>	Mt. Rainier NP, WA to Siskyou Co., CA	ectomycorrhizal w/ TSME, Abies spp. & other Pinaceae, upper elev. to timberline	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	English Mtn./ Lamb Butte Scenic Area

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: present
FUNGI**

Rare Gilled Mushrooms

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Chroogomphus loculatus</i>	rare, endemic, Lamb Butte Scenic Area, Willamette NF, OR	ectomycorrhizal w/ mature to old-growth Pinaceae spp., high to mid elev. (5000ft)	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	Olallie Ridge RNA west to McLennan Mtn.

Undescribed Taxa, Rare Truffles & False Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Gymnomyces sp. nov. # Trappe 1690, 1706, 1710</i>	rare, Lamb Butte Scenic Area & Wildcat Mtn. RNA, Willamette NF, OR	endemic in mature to old-growth ABPR, ABAM, ABGR, TSME, at upper mid elev.	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	E. Fork McKenzie River/ Lamb Butte Scenic Area west to McLennan Mtn.
<i>Martellia sp. nov. # Trappe 1700</i>	rare, endemic, Lamb Butte Scenic Area, Willamette NF, OR	ectomycorrhizal w/ mature to old-growth Pinaceae spp., high to mid elev. (5000ft)	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	E. Fork McKenzie River/ Olallie Ridge RNA west to McLennan Mtn.
<i>Octavianina sp. nov. # Trappe 7502</i>	rare, endemic, Lamb Butte Scenic Area, Willamette NF, OR	ectomycorrhizal w/ mature to old-growth Pinaceae spp., high to mid elev. (5000ft)	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	McKenzie drainage/ English Mtn./ Olallie Ridge RNA west to McLennan Mtn.
<i>Rhizopogon sp. nov. # Trappe 1692</i>	rare, endemic, Lamb Butte Scenic Area, Willamette NF, OR	ectomycorrhizal w/ mature to old-growth Pinaceae spp., high to mid elev. (5000ft)	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	E. Fork McKenzie River/ Olallie Ridge RNA west to McLennan Mtn.
<i>Rhizopogon sp. nov. # Trappe 1698</i>	rare, endemic, Lamb Butte Scenic Area, Willamette NF, OR	ectomycorrhizal w/ mature to old-growth Pinaceae spp., high to mid elev. (5000ft)	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	E. Fork McKenzie River/ Olallie Ridge RNA west to McLennan Mtn.

LICHEN

Aquatic Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Hydrothyria venosa</i>	endemic to N.America/ CA to BC/ Appalachian Mtns.	on rocks in cold, clear, streams, low to mid elev. w/in old-growth forests	protect & manage for habitat/ ROD-1,3	trib. to Olallie Cr. above jct. Olallie & French Pete

1994 F ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey activities and manage sites (by 1999+); 3=conduct extensive survey and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: present
LICHEN**

Nitrogen-fixing Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Lobaria oregana</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Lobaria pulmonaria</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft

Rare Nitrogen-fixing Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Nephroma occultum</i>	endemic to Pacific NW	epiphytes on mature & old-growth forest stands below 4000ft	protect & manage for habitat/ ROD-1,3	Delta Campground, mature/ old-growth forests below 4000ft

**Habitat: potentially present
BRYOPHYTES**

Liverwort

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Douinia ovata</i>	Pacific NW/ CA/ Europe/ W.North American/ Japan	coniferous canopy & rock outcrops, below <i>Antitrichia</i> , late-successional forest w/ fog interception, low to mid elev.	extended riparian buffers/ no thinning or harvest/ ROD-4	coniferous stands & rock outcrops, late-successional forest, low to mid elev.
<i>Herbertus aduncus</i>	N.Coast & Cascade ranges OR/ W. WA	high elev. late-successional forest	not listed in J2/ ROD-1,3	high elev. late-successional forests
<i>Herbertus sakurali</i>	N.Coast range OR	foggy rock faces in late-successional forest	not listed in J2/ ROD-1,3	foggy rock faces in late-successional forest
<i>Kurzia makinoana</i>	CA to AK/ Asia	well-shaded decaying wood/humic soil, old-growth, stream terraces-floodplains, cool moist, low elev.	extended riparian buffers/ ROD-1,2	riparian areas at low elev.
<i>Marsupella emarginata var. aquatica</i>	Waldo Lake, Willamette NF, OR/ E. North America/ Europe	semi-aquatic, on rocks in the splash zone of streams, mid to high elev.	preserve known site/ protect & manage for species/ ROD-1,2	steamside rocks, mid to high elev.

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: potentially present
BRYOPHYTES

Liverwort

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Plagiochila satol</i>	Pacific NW	on cliffs, rocks, bark in late-successional forest	not listed in J2/ ROD-1,3	on cliffs, rocks, bark in late-successional forest
<i>Tritomaria exsectiformis</i>	W. & E. Casades/ Olympic Mtns., circumboreal	shaded moist soil & rocks in riparian areas by spring heads, late-successional forest, low to high elev.	riparian buffers/ manage for species/ ROD-1,2	riparian areas & spring heads
<i>Tritomaria quinquedentata</i>	OR/ WA/ AK/ BC/ E. United States	on basic rock outcrops and cliffs, over thin soil in late-successional forest	not listed in J2/ ROD-1,3	on basic rock outcrops and cliffs, over thin soil in late-successional forest

Moss

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Encalypta brevicolla</i> var. <i>crumiana</i>	mountains of OR & WA	foggy rock outcrops shaded by old-growth forest	not listed in J2/ ROD-1,3	foggy rock outcrops shaded by old-growth forest
<i>Iwatsuklella leucotricha</i>	N. Coast range OR	bark in late-successional forest	not listed in J2/ ROD-1,3	bark in late-successional forest
<i>Pleuroziopsis ruthenica</i>	WA/ AK/ BC	on damp soil in low elev. shrub thickets, late-successional forest, swamps & stream edges	not listed in J2/ ROD-1,3	low elev. shrub thickets/ swamps & stream edges, late-successional forest
<i>Racomitrium aquaticum</i>	WA/ SE AK	on shaded moist rocks & streambanks of late successional forest	not listed in J2/ ROD-1,3	shaded moist rocks & streambanks of late successional forest
<i>Scouleria marginata</i>	endemic to Pacific NW	on rocks in splash zone of streams, w/ <i>Scouleria aquatica</i> , requires clean water & cool temps., subject to winter floods	riparian buffers/ ROD-4	stream corridors
<i>Tetraphis geniculata</i>	Olympic NF, WA/ N. CA to W. WA	mature & old-growth forests, shaded, moist, rotten logs & organic soil, low to mid elev.	not listed in J2/ ROD-1,3	old-growth forests/ rotten logs
<i>Thamnobryum neckeroides</i>	W. Casades/ OR to AK	avalanche tracks, seepage areas, talus slopes, shaded moist soil in <i>Salix</i> spp. thickets w/ ACCI, ALSI, mid to high elev.	headwall & riparian buffers/ manage for habitat/ ROD-none	headwall & riparian areas/ thickets mid to high elev., old-growth

1994 (sites (J6+); 4=conduct general regional surveys (by 1996+). OD Strategies: 1=manage known sites (by 1994-95+); 2=survey activities and manage sites (by 1999+); 3=conduct extensive survey and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Boletes

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Gastroboletus subalpinus</i>	OR Cascades to N.Sierras CA	ectomycorrhizal w/ PICO, PIAL & other Pinaceae from 4500ft to timberline	protect & manage for species & habitat/ ROD-1,3	conifer stands 4500ft to timberline

Chanterelles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cantharellus cibarius</i>	N.CA/ OR/ WA	ectomycorrhizal in conifer & mixed late-successional forests, w/ decaying coarse woody debris	monitor commercial chanterelle harvest/ survey & inventory/ ROD-3,4	conifer & mixed late-successional forests
<i>Cantharellus subalbidus</i>	N.CA/ OR/ WA	ectomycorrhizal in conifer & mixed late-successional forests, w/ decaying coarse woody debris	monitor commercial chanterelle harvest/ survey & inventory/ ROD-3,4	conifer & mixed late-successional forests
<i>Cantharellus tubaeformis</i>	N.CA/ OR/ WA	ectomycorrhizal in conifer & mixed late-successional forests, w/ decaying coarse woody debris	monitor commercial chanterelle harvest/ survey & inventory/ ROD-3,4	conifer & mixed late-successional forests

Chanterelles - Gomphus

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Gomphus bonarii</i>	Rocky Mtns. & westward, throughout northern spotted owl range	mature to old late-successional conifer forests, especially in N.CA.	180yr. rotation N.CA/ ROD-3	late-successional conifer forests
<i>Gomphus clavatus</i>	Rocky Mtns. & westward, throughout northern spotted owl range	mature to old late-successional conifer forests, especially in N.CA.	180yr. rotation N.CA/ ROD-3	late-successional conifer forests
<i>Gomphus floccosus</i>	Rocky Mtns. & westward, throughout northern spotted owl range/ E. North America	mature to old late-successional conifer forests, especially in N.CA.	180yr. rotation N.CA/ ROD-3	late-successional conifer forests
<i>Gomphus kauffmanii</i>	Rocky Mtns. & westward, throughout northern spotted owl range	mature to old late-successional conifer forests, especially in N.CA.	180yr. rotation N.CA/ ROD-3	late-successional conifer forests

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: potentially present
FUNGI

False Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Nivatogastrium nubigenum</i>	Cascades Mtns. CA to Mt. Adams, W/A/N.ID	coarse woody debris on xeric sites mid to high elev. mature to old-growth forests	protect & manage for habitat/ ROD-1,3	mature/ old-growth stands w/ abundant woody debris
<i>Rhizopogon abietis</i>	E.Canada/ Strawberry Range E.OR/ Cascade & Klamath Mtns. OR & CA	mixed conifers PSME, PIMO, Abies spp. TSME, moderate to dry sites at relative high elev.	preserve known sites/ protect & manage for species/ ROD-3	mixed conifers moderate to dry sites, high elev.
<i>Rhizopogon atroviolaceus</i>	N.Cascades OR/ ID	mixed conifers PSME, PIMO, Abies spp. TSME, moderate to dry sites at relative high elev.	preserve known sites/ protect & manage for species/ ROD-3	conifer forests, moderate to dry sites, high elev.
<i>Rhizopogon truncatus</i>	Klamath & Cascade Mtns. CA & OR/ NE United States	mixed conifers PSME, PIMO, Abies spp. TSME, moderate to dry sites at relative high elev.	preserve known sites/ protect & manage for species/ ROD-3	mixed conifers moderate to dry sites, high elev.
<i>Thaxterogaster pingue</i>	Siskiyou, Klamath, Sierras Mtns./ Cascade Mtns. Canadian Border to N.CA	Abies spp. mid-high elev., coarse woody debris, deep humus layer	preserve known site/ ROD-3	Abies spp. at mid to high elev.

Phaeocollybia

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Phaeocollybia attenuata</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-3	late-successional forests, moist habitats
<i>Phaeocollybia californica</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-1,3	late-successional forests, moist habitats
<i>Phaeocollybia carmanahensis</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-1,3	late-successional forests, moist habitats

1994 ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey sites (by 1996+); 3=conduct general regional surveys (by 1996+); 4=conduct general regional surveys (by 1996+); 5=conduct extensive surveys and manage sites (by 1999+); 6=conduct extensive surveys and manage sites (by 1999+); 7=conduct extensive surveys and manage sites (by 1999+); 8=conduct extensive surveys and manage sites (by 1999+); 9=conduct extensive surveys and manage sites (by 1999+); 10=conduct extensive surveys and manage sites (by 1999+); 11=conduct extensive surveys and manage sites (by 1999+); 12=conduct extensive surveys and manage sites (by 1999+); 13=conduct extensive surveys and manage sites (by 1999+); 14=conduct extensive surveys and manage sites (by 1999+); 15=conduct extensive surveys and manage sites (by 1999+); 16=conduct extensive surveys and manage sites (by 1999+); 17=conduct extensive surveys and manage sites (by 1999+); 18=conduct extensive surveys and manage sites (by 1999+); 19=conduct extensive surveys and manage sites (by 1999+); 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**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Phaeocollybia

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Phaeocollybia dissiliens</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-1,3	late-successional forests, moist habitats
<i>Phaeocollybia fallax</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-3	late-successional forests, moist habitats
<i>Phaeocollybia gregaria</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-1,3	late-successional forests, moist habitats
<i>Phaeocollybia kauffmanii</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-1,3	late-successional forests, moist habitats
<i>Phaeocollybia olivacea</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-3	late-successional forests, moist habitats
<i>Phaeocollybia oregonensis</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-1,3	late-successional forests, moist habitats
<i>Phaeocollybia piceae</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-1,3	late-successional forests, moist habitats
<i>Phaeocollybia pseudofestiva</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-3	late-successional forests, moist habitats

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: potentially present
FUNGI

Phaeocollybia

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Phaeocollybia scatesiae</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-1,3	late-successional forests, moist habitats
<i>Phaeocollybia sipel</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-1,3	late-successional forests, moist habitats
<i>Phaeocollybia spadicea</i>	BC to N.CA	low elev. to montane late-successional forests, prefers moist habitats, possibly ectomycorrhizal	protect & manage for habitat/ ROD-3	late-successional forests, moist habitats

Rare Boletes

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Boletus haematinus</i>	endemic Pacific NW/ CA to WA	high elev. on mature (over 180yrs) Abies forests	protect & manage for habitat/ ROD-1,3	Abies spp. at high elev.
<i>Boletus pulcherrimus</i>	endemic Pacific NW/ CA to Canada	low to mid elev. old-growth conifer forests	protect & manage for habitat/ ROD-1,3	old-growth at low to mid elev.

Rare Chanterelles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cantharellus formosus</i>	N.CA/ OR/ WA	ectomycorrhizal in conifer & mixed late-successional forests, w/ decaying coarse woody debris	monitor commercial chanterelle harvest/ survey & inventory/ ROD-1,3	conifer & mixed late-successional forests

1994 F sites OD Strategies: 1=manage known sites (by 1994-95+); 2=survey sites and manage sites (by 1999+); 3=conduct extensive surveys (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Rare Coral Fungi

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Ramaria amyloidea</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria aurantiiscescens</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria celerivirescens</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria claviramulata</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria concolor f. marri</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria cyaneigranosa</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria gracilis</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria hilaris var. olympiana</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: potentially present
FUNGI

Rare Coral Fungi

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Ramaria lorithamnus</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria maculatipes</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria rainierensis</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria rubribrunnescens</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria spinulosa</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria stuntzii</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria verlotensis</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests

1994 () ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey () activities and manage sites (by 1999+); 3=conduct extensive su () and manage sites () (1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Rare Ecto-Polypores

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Albatrellus avellaneus</i>	Pacific NW/ Rocky Mtns./ NE United States/ Europe	late-successional old-growth conifers in OR/ WA, mixed coastal conifers/ hardwoods CA	protect & manage for species/ survey & inventory/ ROD-1,3	old-growth conifer stands

Rare False Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Alpova alexsmithii</i>	Cascade Mtns. to BC	endemic to mature & old-growth TSME, Abies spp. mid to high elev., probably ectomycorrhizal	protect & manage known sites/ ROD-1,3	mature/ old-growth stands, mid to high elev.
<i>Arcangeliella crassa</i>	W.OR & N.CA/ ID/ CO	old-growth Abies spp. or TSME mid to high elev., coarse woody debris	protect & manage for habitat/ ROD-1,3	old-growth Abies spp., TSME, mid to high elev.
<i>Destuntzia fusca</i>	N.CA/ N.Sierras & W.Central Cascades OR	ectomycorrhizal, low elev., mature & old growth PSME, Abies spp., TSHE, Quercus spp., CACH	preserve known sites/ protect & manage for habitat/ ROD-1,3	mature/ old-growth mixed conifer forests, low elev.
<i>Destuntzia rubra</i>	N.CA/ N.Sierras & W.Central Cascades OR	ectomycorrhizal, low elev., mature & old growth PSME, Abies spp., TSHE, Quercus spp., CACH	preserve known sites/ protect & manage for habitat/ ROD-1,3	mature/ old-growth mixed conifer forests, low elev.
<i>Gautieria magnicellaris</i>	Cascades OR/ NE United States/ Germany/ Czech Republic/ Slovakia	ectomycorrhizal on mature to old-growth TSME, Abies spp., high elev.	preserve known sites/ protect & manage for habitat/ ROD-1,3	mature/ old-growth TSME, Abies spp., high elev.
<i>Gautieria otthii</i>	N.CA/ Siskiyou Mtns./ central Cascade Range OR/ Europe/ AK	ectomycorrhizal associates w/ mature & old-growth Pinaceae, mid to upper-mid elev.	preserve known sites/ protect & manage for habitat/ ROD-1,3	mature/ old-growth conifer forests, mid to upper-mid elev.
<i>Leucogaster citrinus</i>	Marin Co., CA/ Linn & Benton Cos., OR	mature to old-growth PSME, TSHE, CACH, abundant coarse woody debris, low to high elev.	preserve known sites/ protect & manage for habitat/ ROD-1,3	mature/ old-growth mixed stands, coarse woody debris
<i>Leucogaster microsporus</i>	S.Cascades WA to N.Cascades & Coast Ranges OR	ectomycorrhizal in mature to old-growth PSME, mid to elev., abundant coarse woody debris	preserve known sites/ protect & manage for habitat/ ROD-1,3	mature/ old-growth PSME, coarse woody debris
<i>Martellia fragrans</i>	SW.OR & N.CA/ ID	old-growth Abies spp. or TSME mid to high elev., coarse woody debris	protect & manage for habitat/ ROD-1,3	old-growth Abies spp., TSME, mid to high elev.

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: potentially present
FUNGI

Rare False Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Martellia monticola</i>	Central Cascades OR to & N.CA/ ID	old-growth Abies spp. or TSME mid to high elev., coarse woody debris	protect & manage for habitat/ ROD-1,3	old-growth Abies spp., TSME, mid to high elev.
<i>Rhizopogon brunneiniger</i>	endemic, N.Cascades, Coast Ranges & Siskiyou Mtns. OR/ Klamath Mtns. CA	mature to old-growth PSME, TSHE, Abies spp., low to high elev., dry to moderate habitat	preserve known sites/ protect & manage for habitat/ ROD-1,3	mature/ old-growth mixed conifer forests
<i>Rhizopogon exiguus</i>	endemic, Cascade Mtns. WA/ Coast Range & Siskiyou Mtns. OR	ectomycorrhizal w/ mature to old-growth PSME, TSHE, low elev., coarse woody debris	preserve known sites/ protect & manage for habitat/ ROD-1,3	mature/ old-growth PSME, TSHE, low elev.
<i>Rhizopogon flavofibrillosus</i>	N.CA/ Siskiyou Mtns. & central Cascade Range OR/ ID	ectomycorrhizal associates w/ mature & old-growth Pinaceae, mid to high elev.	preserve known sites/ protect & manage for habitat/ ROD-1,3	mature/ old-growth conifer stands, mid to upper-mid elev.
<i>Rhizopogon inquinatus</i>	ID/ S.Santiam Watershed, Willamette NF, OR	ectomycorrhizal w/ mature to old-growth PSME, or younger forests w/ coarse woody debris	protect & manage for habitat/ ROD-1,3	mature/ old-growth PSME, coarse woody debris

Rare Gilled Mushrooms

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cortinarius canabarpa</i>	distribution unknown	late-successional conifer forests, w/ well-developed humus/ litter layer, coarse woody debris	protect & manage for species/ survey & inventory/ ROD-1,3	late-successional conifer forests, coarse woody debris
<i>Cortinarius rainierensis</i>	distribution unknown	late-successional conifer forests, w/ well-developed humus/ litter layer, coarse woody debris	protect & manage for species/ survey & inventory/ ROD-1,3	late-successional conifer forests, coarse woody debris
<i>Cortinarius variipes</i>	distribution unknown	late-successional conifer forests, w/ well-developed humus/ litter layer, coarse woody debris	protect & manage for species/ survey & inventory/ ROD-1,3	late-successional conifer forests, coarse woody debris
<i>Tricholoma venenatum</i>	distribution unknown	late-successional conifer forests, w/ well-developed humus/ litter layer, coarse woody debris	protect & manage for species/ survey & inventory/ ROD-1,3	late-successional conifer forests, coarse woody debris

1994 sites OD Strategies: 1=manage known sites (by 1994-95+); 2=survey sites (by 1996+); 3=conduct general regional surveys (by 1996+). activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1999+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Rare Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Choiromyces alveolatus</i>	Mt. Hood, OR to Yuba Pass, CA & west to coast	old-growth <i>Abies</i> spp. or TSME mid to high elev., coarse woody debris	protect & manage for habitat/ ROD-1,3	old-growth <i>Abies</i> spp., TSME, mid to high elev.
<i>Choiromyces venosus</i>	Europe/ Springfield, OR	ectomycorrhizal w/ mature conifers (PSME) & deciduous trees	protect & manage for habitat/ ROD-1,3	mature PSME & deciduous trees
<i>Elaphomyces subviscidus</i>	central to S.Cascades OR/ AZ	ectomycorrhizal w/ mature to old-growth <i>Pinus</i> spp. & other Pinaceae, mid elev.	protect & manage for habitat/ ROD-1,3	mature/ old-growth conifer forests

Rare Zygomycetes

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Glomus radiatum</i>	NW coast CA/ OR/ S.WA Cascades/ NE United States/ Japan	endomycorrhizal w/ mature to old-growth coastal redwood & CHNO, mesic to wet areas of humus	establish Mycological SIA in Lamb Butte Scenic Area/ ROD-1,3	CHNO, mesic to wet areas of hummus

Tooth Fungi

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Hydnum repandum</i>	Pacific NW/ E. coast North America/ Europe	late-successional conifer stands & mixed coastal hardwoods & 2nd growth forests	monitor & regulate commercial harvest/ survey & inventory/ ROD-3	late-successional/ 2nd growth conifer stands
<i>Hydnum umbilicatum</i>	Pacific NW/ E. coast North America/ Europe	late-successional conifer stands & mixed coastal hardwoods & 2nd growth forests	survey & inventory/ ROD-3	late-successional/ 2nd growth conifer stands
<i>Phellodon atratum</i>	Pacific NW/ E. coast North America/ Europe	late-successional conifer stands & mixed coastal hardwoods & 2nd growth forests	survey & inventory/ ROD-3	late-successional/ 2nd growth conifer stands
<i>Sarcodon fuscoindicum</i>	Pacific NW/ E. coast North America/ Europe	late-successional conifer stands & mixed coastal hardwoods & 2nd growth forests	survey & inventory/ ROD-3	late-successional/ 2nd growth conifer stands

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Uncommon Coral Fungi

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Ramaria gelatiniaurantia</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria largentii</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria rubella var. blanda</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria rubrievanescens</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria rubripermanens</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria suecica</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests
<i>Ramaria thiersii</i>	endemic Pacific NW	ectomycorrhizal w/ late-successional TSHE, Abies spp., Pinus spp., Picea spp., PSME, TABR, litter	preserve known sites/ protect & manage for species/ ROD-1,3	late-successional conifer forests

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Uncommon Gilled Mushrooms

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Dermocybe humboldtensis</i>	range not completely known, likely endemic to Pacific NW or W. North America	ectomycorrhizal, low elev. late-successional forests	protect & manage for habitat/ survey & inventory/ ROD-1,3	late-successional forests, low elev.
<i>Hebeloma olympiana</i>	range not completely known, likely endemic to Pacific NW or W. North America	ectomycorrhizal, low elev. to montane late-successional forests	protect & manage for habitat/ survey & inventory/ ROD-1,3	low elev. to montane late-successional forests
<i>Hygrophorus caeruleus</i>	range not completely known, likely endemic to Pacific NW or W. North America	ectomycorrhizal, low elev. to montane late-successional forests	protect & manage for habitat/ survey & inventory/ ROD-1,3	low elev. to montane late-successional forests
<i>Hygrophorus karstenii</i>	range not completely known	ectomycorrhizal, low elev. to montane late-successional forests	protect & manage for habitat/ survey & inventory/ ROD-3	low elev. to montane late-successional forests
<i>Hygrophorus vernalis</i>	range not completely known, likely endemic to Pacific NW or W. North America	ectomycorrhizal, low elev. to montane late-successional forests	protect & manage for habitat/ survey & inventory/ ROD-1,3	low elev. to montane late-successional forests
<i>Russula mustelina</i>	range not completely known	ectomycorrhizal, low elev. to montane late-successional forests	protect & manage for habitat/ survey & inventory/ ROD-3	low elev. to montane late-successional forests

Bondarzewia Polypore

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Bondarzewia montana</i>	rare, Pacific NW to ID/ W.NV/ Eurasia	late-successional forests w/ Abies spp., high elev.	survey & inventory/ ROD-1,2,3	Three Sisters Wilderness/ Abies spp.

Branched Coral Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Clavulina cinerea</i>	Pacific NW/ CA	well developed litter layer in late-successional forests, 2nd growth w/ crown closure	protection not required, survey & monitor/ ROD-3,4	litter layer in late-successional forests
<i>Clavulina cristata</i>	Pacific NW/ CA	well developed litter layer in late-successional forests, 2nd growth w/ crown closure	protection not required, survey & monitor/ ROD-3,4	litter layer in late-successional forests

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Branched Coral Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Clavulina ornaticipes</i>	Pacific NW/ CA	well developed litter layer in late-successional forests, 2nd growth w/ crown closure	protection not required, survey & monitor/ ROD-3,4	litter layer in late-successional forests

Cauliflower Mushroom

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Sparassis crispa</i>	Pacific NW/ CA/ Rockies/ Europe/ Asia	late-successional forest, mostly PSME, low to mid elev.	green tree retention in matrix/ survey & inventory/ ROD-3	very large old conifers, mostly PSME, low to mid elev.

Coral Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Clavicornia avellanea</i>	Pacific NW	late-successional moist forests, low to mid elev., coarse woody debris/ large dia. decaying logs	manage for habitat in matrix/ survey & inventory/ ROD-3	late-successional moist forests, low to mid elev.

Jelly Mushroom

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Phlogitius helevloides</i>	NE & N. mid-west Rockies/ Pacific NW	on woody debris, riparian areas, upper headwater seeps/ intermittent streams, old-growth & 2nd growth w/ crown closure	protect & monitor known sites/ survey & inventory/ ROD-3,4	riparian areas

Moss Dwelling Mushrooms

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cyphellostereum laeve</i>	Pacific NW	late-successional moist forests, associated & dependent on mosses	manage for habitat in matrix/ survey & inventory/ ROD-3	late-successional moist forests, dependent on mosses

1994 sites (1996+); 4=conduct general regional surveys (by 1996+).
 OD Strategies: 1=manage known sites (by 1994-95+); 2=survey sites and manage sites (by 1999+); 3=conduct extensive survey and manage sites (by 1999+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Moss Dwelling Mushrooms

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Gallerina atkinsoniana</i>	Pacific NW	late-successional moist forests, associated & dependent on mosses	manage for habitat in matrix/ survey & inventory/ ROD-3	late-successional moist forests, dependent on mosses
<i>Gallerina cerina</i>	Pacific NW	late-successional moist forests, associated & dependent on mosses	manage for habitat in matrix/ survey & inventory/ ROD-3	late-successional moist forests, dependent on mosses
<i>Gallerina heterocystis</i>	Pacific NW	late-successional moist forests, associated & dependent on mosses	manage for habitat in matrix/ survey & inventory/ ROD-3	late-successional moist forests, dependent on mosses
<i>Gallerina sphagnicola</i>	Pacific NW	late-successional moist forests, associated & dependent on mosses	manage for habitat in matrix/ survey & inventory/ ROD-3	late-successional moist forests, dependent on mosses
<i>Gallerina vailltaeformis</i>	Pacific NW	late-successional moist forests, associated & dependent on mosses	manage for habitat in matrix/ survey & inventory/ ROD-3	late-successional moist forests, dependent on mosses
<i>Rickenella setipes</i>	Pacific NW	late-successional moist forests, associated & dependent on mosses	manage for habitat in matrix/ survey & inventory/ ROD-3	late-successional moist forests, dependent on mosses

Mushroom Lichen

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Phytoconis ericetorum</i>	Pacific NW/ CA/ Europe	on dead decorticated wood, common at edges of forest openings, late-successional forest, associated w/ mosses	protection not required, survey & monitor/ ROD-3,4	edges of forest opening, w/ mosses

Noble Polypore (rare and endangered)

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Oxyporus nobilissimus</i>	rare, endemic WA/ OR	late-successional old-growth, ABPR, large dia. trees/ snags/ stumps, large stumps in 2nd growth	protect know sites/ survey & inventory/ ROD-1,2,3	late-successional Abies spp. stands

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2 STANDARDS & GUIDELINES

Habitat: potentially present FUNGI

Parasitic Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Asterophora lycoperdoides</i>	Pacific NW/ CA	late-successional forest w/ host spp., coarse woody debris	protect & manage for species/ survey & inventory/ ROD-3	late-successional forest w/ host spp.
<i>Asterophora parasitica</i>	Pacific NW/ CA	late-successional forest w/ host spp., coarse woody debris	protect & manage for species/ survey & inventory/ ROD-3	late-successional forest w/ host spp.
<i>Cordyceps capitata</i>	Pacific NW/ CA	late-successional forest w/ host spp., coarse woody debris	protect & manage for species/ survey & inventory/ ROD-3	late-successional forest w/ host spp.
<i>Cordyceps ophioglossoides</i>	Pacific NW/ CA	late-successional forest w/ host spp., coarse woody debris	protect & manage for species/ survey & inventory/ ROD-3	late-successional forest w/ host spp.
<i>Hypomyces luteovirens</i>	Pacific NW/ CA	late-successional forest w/ host spp., coarse woody debris	protect & manage for species/ survey & inventory/ ROD-3	late-successional forest w/ host spp.

Rare Cup Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Aleuria rhenana</i>	Pacific NW/ CA/ E. North America Europe	on well developed conifer litter in late-successional forests	protect & monitor known sites/ survey & inventory/ ROD-none	litter layer in late-successional forests
<i>Helvella compressa</i>	North America	riparian & other wet late-successional forests, low to mid elev.	protect known sites/ survey & inventory/ ROD-1,3	riparian/ wet late-successional forests, low to mid elev.
<i>Helvella crassitunicata</i>	North America	riparian & other wet late-successional forests, low to mid elev.	protect known sites/ survey & inventory/ ROD-1,3	riparian/ wet late-successional forests, low to mid elev.
<i>Helvella elastica</i>	North America	riparian & other wet late-successional forests, low to mid elev.	protect known sites/ survey & inventory/ ROD-1,3	riparian/ wet late-successional forests, low to mid elev.

1994 J2 Strategies: 1=manage known sites (by 1994-95+); 2=survey activities and manage sites (by 1999+); 3=conduct extensive survey and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Rare Cup Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Helvella maculata</i>	rare to uncommon, North America	riparian & other wet late-successional forests, low to mid elev.	protect known sites/ survey & inventory/ ROD-1,3	riparian/ wet late-successional forests, low to mid elev.
<i>Neourmula pouchetii</i>	rare, N.OR to BC/ ID/ E. Canada	on conifer litter of late-successional THPL & Tsuga spp. stands	protect known sites/ survey & inventory/ ROD-1,3	late-successional THPL, Tsuga spp.
<i>Pithya vulgaris</i>	rare, OR to BC/ ID/ Eurporean Alps	on recently killed twigs of Abies spp., high elev.	protect & monitor known sites/ survey & inventory/ ROD-1,3	Abies spp. at high elev.

Rare Gilled Mushrooms

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Clitocybe senilis</i>	rare, Pacific NW/ CA	late-successional forests, low to mid elev., moist habitat, deep humus/ litter layer	protect know sites/ survey & inventory/ ROD-1,3	low to mid elev. humus/ litter, late-successional forests
<i>Clitocybe subditopoda</i>	rare, Pacific NW/ CA	late-successional forests, low to mid elev., moist habitat, deep humus/ litter layer	protect know sites/ survey & inventory/ ROD-1,3	low to mid elev. humus/ litter, late-successional forests
<i>Neolentinus adherens</i>	Soleduck River, Olympic NP, WA	well developed, late-successional forests, low to mid elev., moist habitat, coarse woody debris	protect & manage know sites/ survey & inventory/ ROD-1,3	low to mid elev. late-successional forests, moist habitat
<i>Rhodocybe speciosa</i>	Mt Rainier NP north to Barlow Pass, Mt. Baker-Snoquelmie NF, WA	well developed, late-successional forests, low to mid elev., moist habitat, coarse woody debris	protect & manage know sites/ survey & inventory/ ROD-1,3	low to mid elev. late-successional forests, moist habitat
<i>Tricholomopsis fulvescens</i>	Mt. Hood area/ Mt. Rainier NP/ Barlow Pass, Mt. Baker-Snoquelmie NF, WA	well developed, late-successional forests, low to mid elev., moist habitat, coarse woody debris	protect & manage know sites/ survey & inventory/ ROD-1,3	low to mid elev. late-successional forests, moist habitat

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activites and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: potentially present
FUNGI

Rare Resupinates and Polypores

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Aleurodiscus farlowii</i>	Pacific NW/ N.CA	on wood, stumps, dead roots, humus/ litter of late-successional forest	protect known sites/ survey & inventory/ ROD-1,3	on wood, humus/ litter of conifer forests
<i>Dichostereum granulosum</i>	Pacific NW/ N.CA	on wood, stumps, dead roots, humus/ litter of late-successional forest	protect known sites/ survey & inventory/ ROD-1,3	on wood, humus/ litter of conifer forests
<i>Grandinia microsporella</i>	Pacific NW/ N.CA	on wood, stumps, dead roots, humus/ litter of late-successional forest	protect known sites/ survey & inventory/ ROD-none	on wood, humus/ litter of conifer forests
<i>Phlebia diffusa</i>	Pacific NW/ N.CA	on wood, stumps, dead roots, humus/ litter of late-successional forest	protect known sites/ survey & inventory/ ROD-none	on wood, humus/ litter of conifer forests
<i>Polyporoletus sublividus</i>	Pacific NW/ N.CA	on wood, stumps, dead roots, humus/ litter of late-successional forest	protect known sites/ survey & inventory/ ROD-none	on wood, humus/ litter of conifer forests
<i>Postia rennyii</i>	Pacific NW/ N.CA	on wood, stumps, dead roots, humus/ litter of late-successional forest	protect known sites/ survey & inventory/ ROD-none	on wood, humus/ litter of conifer forests
<i>Scytinostroma cf. galatinum</i>	Pacific NW/ N.CA	on wood, stumps, dead roots, humus/ litter of late-successional forest	protect known sites/ survey & inventory/ ROD-none	on wood, humus/ litter of conifer forests

Uncommon Cup Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cudonia circinans</i>	uncommon, NE & NW North America/ Eurasia	mature conifer forests w/ well developed duff layer	survey & inventory/ ROD-none	mature conifer forests w/ well developed duff layer
<i>Cudonia monticola</i>	uncommon, NE & NW North America/ Eurasia	mature conifer forests w/ well developed duff layer	survey & inventory/ ROD-3	mature conifer forests w/ well developed duff layer
<i>Gyromitra californica</i>	NW North America	on decaying matter in forest soil	monitor & regulate harvest/ survey & inventory/ ROD-3,4	decaying matter in forest soil
<i>Gyromitra esculenta</i>	NW North America/ Europe	on decaying matter in forest soil, may prefer 2nd growth stands	monitor & regulate harvest/ survey & inventory/ ROD-3,4	decaying matter in forest soil

1994 | J2 Strategies: 1=manage known sites (by 1994-95+); 2=survey sites (by 1996+); 3=conduct general regional surveys (by 1996+); 4=conduct extensive surveys and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1999+); 4=conduct extensive surveys and manage sites (by 1999+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
FUNGI**

Uncommon Cup Fungi		Saprobies (Decomposers)		
Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Gyromitra infula</i>	NW North America	on rotten to very rotten wood	monitor & regulate harvest/ survey & inventory/ ROD-3,4	rotten to very rotten wood
<i>Gyromitra melaleucoides</i>	NW North America	on decaying matter in forest soil	monitor & regulate harvest/ survey & inventory/ ROD-3,4	decaying matter in forest soil
<i>Gyromitra montana</i> (syn. <i>G. gigas</i>)	NW North America	on decaying matter in forest soil	monitor & regulate harvest/ survey & inventory/ ROD-3,4	decaying matter in forest soil
<i>Otidea leporina</i>	Pacific NW	on conifer duff, moist to wet late-successional forests, mid to low elev.	survey & inventory/ ROD-3	late-successional forests, moist to wet habitat
<i>Otidea onotica</i>	Pacific NW	on conifer duff, moist to wet late-successional forests, mid to low elev.	survey & inventory/ ROD-3	late-successional forests, moist to wet habitat
<i>Otidea smithii</i>	endemic Pacific NW	on conifer duff, moist to wet late-successional forests, mid to low elev.	survey & inventory/ ROD-1,3	late-successional forests, moist to wet habitat
<i>Plectania melastoma</i>	uncommon, NE & NW North America/ Europe	on well developed conifer duff layer, late-successional to old-growth forests	survey & inventory/ ROD-3	conifer duff layer, late-successional/ old-growth forests
<i>Podostroma alutaceum</i>	North America/ Europe	on partly-decayed wood fragments in conifer duff, mature to late-successional forests	protect & manage sites/ survey & inventory/ ROD-3	partly-decayed wood fragments
<i>Spathularia flavida</i>	uncommon, NE & NW North America/ Eurasia	late-successional forest w/ well developed duff layer	survey & inventory/ ROD-3	mature conifer forests w/ well developed duff layer

Uncommon Gilled Mushrooms		Saprobies (Decomposers)		
Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Baeospora myriadophylla</i>	range not completely known, Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-3	low to mid elev. late-successional forests
<i>Chrysomphalina grossula</i>	range not completely known, Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-3	low to mid elev. late-successional forests

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: potentially present
FUNGI

Uncommon Gilled Mushrooms

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Collybia bakerensis</i>	range not completely known, endemic Pacific NW	recently fallen logs, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-1,3	low to mid elev. late-successional forests
<i>Fayodia gracilipes</i> (<i>rainierensis</i>)	range not completely known, Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-3	low to mid elev. late-successional forests
<i>Gymnopilus punctifolius</i>	range not completely known, endemic Pacific NW	decomposed logs, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-1,3	low to mid elev. late-successional forests
<i>Marasmius applanatipes</i>	range not completely known, endemic CA	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-1,3	low to mid elev. late-successional forests
<i>Mycena hudsoniana</i>	range not completely known, endemic Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-1,3	low to mid elev. late-successional forests
<i>Mycena lilacifolia</i>	range not completely known, Pacific NW	coarse woody debris, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-3	low to mid elev. late-successional forests
<i>Mycena marginella</i>	range not completely known, Pacific NW	coarse woody debris, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-3	low to mid elev. late-successional forests
<i>Mycena monticola</i>	range not completely known, endemic Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-1,3	low to mid elev. late-successional forests
<i>Mycena overholtsii</i>	range not completely known, endemic Pacific NW	coarse woody debris, low to mid elev. late-successional/ conifer ecosystem, melting snow banks	survey & inventory/ ROD-1,3	low to mid elev. late-successional forests
<i>Mycena quinaultensis</i>	range not completely known, endemic Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-1,3	low to mid elev. late-successional forests
<i>Mycena tenax</i>	range not completely known, Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-3	low to mid elev. late-successional forests

1994 sites
 ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey sites and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2 STANDARDS & GUIDELINES

Habitat: potentially present
FUNGI

Uncommon Gilled Mushrooms

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Mythicomycetes carneipes</i>	range not completely known, Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-3	low to mid elev. late-successional forests
<i>Pholiota albivelata</i>	range not completely known, endemic Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-1,3	low to mid elev. late-successional forests
<i>Stagnicola perplexa</i>	range not completely known, Pacific NW	litter/ humus, low to mid elev. late-successional forests or conifer ecosystem	survey & inventory/ ROD-3	low to mid elev. late-successional forests

LICHEN

Additional Lichen Species

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cladonia norvegica</i>	Pacific NW	mature & old-growth forest	not listed in J2/ ROD-3	mature/ old-growth forests
<i>Hypotrachyna revoluta</i>	Pacific NW/ N. CA to W. OR & W. WA	high elev., open forest	not listed in J2/ ROD-3	high elev., open forest

Aquatic Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Dermatocarpon luridum</i>	OR to BC/ CO/ VA/ N.Europe	on rocks in streams, low to mid elev.	protect & manage for habitat/ ROD-1,3	stream corridors
<i>Leptogium rivale</i>	Pacific NW/ MT	on rocks in streams, low to mid elev.	protect & manage for habitat/ ROD-1,3	stream corridors

Nitrogen-fixing Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Lobaria scrobiculata</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
LICHEN**

Nitrogen-fixing Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Nephroma bellum</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Nephroma helveticum</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Nephroma laevigatum</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Nephroma parile</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Nephroma resupinatum</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Pannaria leucostictoides</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Pannaria mediterranea</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Pannaria saubinetii</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Peltigera collina</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Peltigera neckeri</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Peltigera pacifica</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft

1994 OD Strategies: 1=manage known sites (by 1994-95+); 2=survey sites (by 1996+); 3=conduct extensive surveys (by 1999+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
LICHEN**

Nitrogen-fixing Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Pseudocyphellaria anomala</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Pseudocyphellaria anthraspis</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Pseudocyphellaria crocata</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Sticta beauvoisii</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Sticta fuliginosa</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft
<i>Sticta limbata</i>	Pacific NW wide	epiphytes on mature & old-growth forest stands (over 140yrs), commonly at less than 3000ft	protect & manage for habitat/ ROD-4	mature/ old-growth forests below 3000ft

Pin Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Calicium abietinum</i>	N.Europe/ Pacific NW	epiphytes on mature & old-growth forested stands, often found on hard snags & hardwoods, high humidity	protect & manage for habitat/ ROD-4	mature/ old-growth forests
<i>Calicium adaequatum</i>	N.Europe/ Pacific NW	epiphytes on mature & old-growth forest stands, often found on hard snags & hardwoods, high humidity	protect & manage for habitat/ ROD-4	mature/ old-growth forests
<i>Calicium adspersum</i>	N.Europe/ Pacific NW	epiphytes on mature & old-growth forest stands, often found on hard snags & hardwoods, high humidity	protect & manage for habitat/ ROD-4	mature/ old-growth forests

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2 STANDARDS & GUIDELINES

Habitat: potentially present

LICHEN

Pin Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Stenocybe clavata</i>	endemic Pacific NW	epiphytes on mature & old-growth forest stands, often found on hard snags & hardwoods, high humidity	protect & manage for habitat/ ROD-4	mature/ old-growth forests
<i>Stenocybe major</i>	N.Europe/ Pacific NW	epiphytes on mature & old-growth forest stands, often found on hard snags & hardwoods, high humidity	protect & manage for habitat/ ROD-4	mature/ old-growth forests

Rare Leafy (arboreal) Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Tholuma dissimilis</i>	Pacific NW, montane areas	montane to subalpine in fog zone, canopy of old-growth PSME, ABLA & TSME, exposed sites	protect & manage for habitat/ ROD-1,3	ridgetop canopies/ cold air drainages

Rare Nitrogen-fixing Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Dendroscopula intricatum</i>	Pacific NW, temperate to boreal North America & Europe	epiphytes on mature & old-growth forest stands, wet boreal & riparian forests, below 4000ft	protect & manage for habitat/ ROD-1,3	mature/ old-growth forests below 4000ft
<i>Lobaria hallii</i>	Pacific NW, temperate to boreal North America & Europe	epiphytes on large dia. hardwoods in riparian areas, ACMA, FRLA, POTR, Quercus spp., Salix spp.	protect & manage for habitat/ ROD-1,3	South Fork floodplain
<i>Lobaria linita</i>	Pacific NW, temperate to boreal North America & Europe	epiphytes on mature trees & tundra low shrubs, on boulders & mosses, below 4000ft	protect & manage for habitat/ ROD-1,2,3	mature forests below 4000ft
<i>Pannaria rubiginosa</i>	Pacific NW, temperate to boreal North America & Europe	epiphytes on mature & old-growth forest stands below 4000ft	protect & manage for habitat/ ROD-1,3	mature/ old-growth forests below 4000ft
<i>Pseudocyphellaria rainierensis</i>	endemic to Pacific NW	epiphytes on mature & old-growth forest stands below 4000ft	protect & manage for habitat/ ROD-1,2,3	mature/ old-growth forests below 4000ft

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
LICHEN**

Rare Oceanic Influenced Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Hypogymnia oceanica</i>	Pacific NW, immediate coast w/in 1 to 2 miles	epiphytes on coastal forests, maritime microclimates in old-growth	protect & manage for habitat/ ROD-1,3	maritime microclimates in old-growth

Rare Rock Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Pilophorus nigricaulis</i>	Pacific NW	basalt & andesite cliffs, on talus rock patches w/in old-growth stands	protect & manage for habitat/ ROD-1,3	rock outcrops/ talus rock

Riparian Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cetrelia cetrarioides</i>	OR to AK	epiphytes on trees w/in riparian areas, more abundant on hardwoods	protect & manage for habitat/ ROD-4	riparian areas
<i>Collema nigrescens</i>	OR to AK	epiphytes on trees w/in riparian areas, more abundant on hardwoods, on QUGA	protect & manage for habitat/ ROD-4	riparian areas
<i>Leptogium burnetiae</i> var. <i>hirsutum</i>	Pacific NW	epiphytes on trees w/in riparian areas, more abundant on hardwoods	protect & manage for habitat/ ROD-4	riparian areas
<i>Leptogium cyanescens</i>	Ecuador to AK/ E. North America	epiphytes on trees w/in riparian areas, more abundant on hardwoods	protect & manage for habitat/ ROD-4	riparian areas
<i>Leptogium saturninum</i>	Pacific NW	epiphytes on trees w/in riparian areas, more abundant on hardwoods	protect & manage for habitat/ ROD-4	riparian areas
<i>Leptogium teretiusculum</i>	OR to BC	epiphytes on trees w/in riparian areas, more abundant on hardwoods	protect & manage for habitat/ ROD-4	riparian areas
<i>Platismatia lacunosa</i>	OR to AK	wet PSME forests & foggy coastal or valley forests	protect & manage for habitat/ ROD-4	riparian areas

1994 F ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey activities and manage sites (by 1999+); 3=conduct extensive survey sites (by 1996+); 4=conduct general regional surveys (by 1996+). and manage

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
LICHEN**

Riparian Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Ramalina thrausta</i>	CA to BC/ ID/ MT	epiphytes on trees w/in riparian areas, more abundant on hardwoods	protect & manage for habitat/ ROD-4	riparian areas
<i>Usnea longissima</i>	CA to AK	epiphytes on trees w/in riparian areas, more abundant on hardwoods, at low to mid elev.	protect & manage for habitat/ ROD-4	riparian areas

VASCULAR PLANTS

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Allotropa virgata</i>	E.Cascades/ BC, rare throughout range	dry sites, coarse woody debris, closed canopy, PSME, TSHE, ABGR, ABAM, PICO, 1500 to 5000ft elev., saprohtic w/ fungi	survey in high probability habitat/ ROD-1,2	PSME, TSHE, ABGR, ABAM, 1500 to 5000ft elev.
<i>Botrychium minganense</i>	endemic, North America	riparian areas, old-growth THPL, slopes <10%, mossy, talus, ACMA, ACCI, OXTR, variable elev. & habitat	protect known sites/ survey & inventory/ ROD-1,2	riparian areas, old-growth THPL, talus slopes w/ ACMA
<i>Botrychium montanum</i>	endemic, W. North America	late-successional to old-growth THPL, along headwater springs, gentle slopes, deep duff	protect & manage known sites/ survey & inventory/ ROD-1,2	late-successional to old-growth THPL, near riparian areas
<i>Coptis trifolia</i>	E.OR Cascades/ Mt. Hood NF, OR	swamps/ meadows w/ PSME, ABAM, THPL, PIMO, TSHE, PIEN, ALIN, Kalmia sp., on dead wood	protect known sites/ survey & inventory/ ROD-1,2	Three Sisters Wilderness Area
<i>Corydalis aquae-gelidae</i>	Clackmas, Multnomah, Marion, Linn Cos., OR/ Clark Co. & Skamania Cos.,WA	riparian, on gravel bars in cold perennial streams w/ canopy, 1220 to 4260ft elev.	protect known sites/ survey & inventory/ ROD-1,2	riparian, 1220 to 4260ft elev.
<i>Cyripedium fasciculatum (Klamath)</i>	WA/ CA/ ID/ MT/ CO/ WY/ UT/ W. United States	variety of habitats throughout Cascade Range, PSME, TSHE, ABCO, Quercus spp., 1300 to 5300ft elev., fire association	protect & manage for habitat/ survey & inventory/ ROD-1,2	moist habitats to dry hillsides, 1300 to 5300ft

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: potentially present
VASCULAR PLANTS**

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cypripedium montanum</i> (west Cascades)	Pacific NW/ AK/ CA	moist habitats to dry hillsides, 200 to 2000 meters, fire association, closed canopy, w/ specific symbiotic fungi	protect & manage for habitat/ ROD-1,2	moist habitats to dry hillsides, 200 to 2000 meters

**Habitat: not present-range limited to site area
BRYOPHYTES**

Moss

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Brotherella roelli</i>	endemic WA Cascades north of Snoqualmie Pass	decaying logs, low to mid elev., old-growth forests, high humidity	not listed in J2/ ROD-1,3	none

FUNGI

Rare False Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Arcangeliella lactarioides</i>	Mt. Shasta to Mt. Lassen, CA	old-growth Abies spp. or TSME mid to high elev., coarse woody debris	protect & manage for habitat/ ROD-1,3	none
<i>Macowanites lymanensis</i>	rare, endemic, Glacier Peak Wilderness Area, Wenatchee NF, WA	old-growth TSME, ABPR, probably ectomycorrhizal	preserve known site/ protect & manage for habitat/ ROD-1,3	none
<i>Macowanites mollis</i>	Mt. Rainier NP, WA/ Larch Mtn., Mt Hood NF, OR	ectomycorrhizal in mature to old-growth PSME, & other Pinaceae, mesic habitat, low to mid elev.	preserve known sites/ protect & manage for habitat/ ROD-1,3	none
<i>Sedecula pulvinata</i>	Mt. Shasta to Yuba Pass N.CA/ Boulder, CO	old-growth Abies spp. or TSME mid to high elev., coarse woody debris	protect & manage for habitat/ ROD-1,3	none

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: not present-range limited to site area
FUNGI

Rare Gilled Mushrooms

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cortinarius verrucisporus</i>	Amador Co., CA/ OR	ectomycorrhizal, montane to high elev. late-successional forests, Abies spp. & other conifers	survey & inventory/ ROD-1,3	none
<i>Cortinarius wiebeae</i>	Mt. Hood NF, OR	ectomycorrhizal, montane to high elev. late-successional forests, Abies spp. & other conifers	preserve know site/ survey & inventory/ ROD-1,3	none

Rare Zygomycetes

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Endogone acrogena</i>	rare, W.Cascades from Mt. Rainier to Whitechuck River, WA	endemic old-growth PSME, TSHE, mesic habitat at low elev.	protect & manage known sites/ survey & inventory/ ROD-1,3	none

Undescribed Taxa, Rare Truffles & False Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Alpova sp. nov. # Trappe 1966</i>	local endemic, Hackleman Creek, Willamette NF, OR	mature PSME mid elev., probably ectomycorrhizal	protect & manage for habitat/ ROD-1,3	none
<i>Gastroboletus sp. nov. # Trappe 7515</i>	rare, endemic, Crater Lake NP, OR	old-growth TSME high elev., probably ectomycorrhizal	protect & manage for habitat/ ROD-1,3	none
<i>Gastrosuillus sp. nov. # Trappe 7516</i>	rare, endemic, Klamath Mtns./ Klamath NF, CA	ectomycorrhizal in mature to old-growth Abies spp., PIMO from 6000-7000ft elev.	protect & manage for habitat/ ROD-1,3	none
<i>Gymnomyces sp. nov. # Trappe 5052</i>	rare, Mt. Hood NF, OR	endemic in mature to old-growth TSME, ABAM	protect & manage for habitat/ ROD-1,3	none
<i>Gymnomyces sp. nov. # Trappe 7545</i>	rare, endemic, Carter Meadows, Klamath NF, CA	ectomycorrhizal in mature to old-growth Abies spp., PIMO from 6000-7000ft elev.	protect & manage for habitat/ ROD-1,3	none
<i>Hydnotrya sp. nov. # Trappe 787, 792</i>	rare, endemic, Mt. Jefferson Wilderness Area, Willamette NF, OR	ectomycorrhizal in old-growth ABAM, TSME at 6000ft elev.	protect & manage for species/ ROD-1,3	none

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: not present-range limited to site area
FUNGI

Undescribed Taxa, Rare Truffles & False Truffles Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Hydnotrya subnix</i> sp. nov. # Trappe 1861	rare, endemic, Gifford Pinchot NF, WA	under snowbank in old-growth ABAM forests, probably ectomycorrhizal	protect & manage for habitat/ ROD-1,3	none
<i>Martellia</i> sp. nov. # Trappe 311	rare, Mt. Hood NF, OR	endemic in mature to old-growth TSME, ABAM	protect & manage for habitat/ ROD-1,3	none
<i>Martellia</i> sp. nov. # Trappe 5903	rare, endemic, Mt. Jefferson Wilderness Area, Willamette NF, OR	ectomycorrhizal in old-growth ABAM, TSME at 6000ft elev.	protect & manage for species/ ROD-1,3	none
<i>Martellia</i> sp. nov. # Trappe 649	rare, Mt. Hood NF, OR	endemic in mature to old-growth TSME, ABAM	protect & manage for habitat/ ROD-1,3	none

Rare Gilled Mushrooms

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Rhodocybe nitida</i>	rare, WA	late-successional forests, low to mid elev., moist habitat, deep humus/ litter layer	protect known sites/ survey & inventory/ ROD-1,3	none

VASCULAR PLANTS

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Aster vialis</i>	rare, local endemic, Willamette Valley Province, OR	mid-successional (80-200yr.) conifer stands, edge habitat, low elev.	protect & manage for species/ survey & inventory/ ROD-1,2	none
<i>Pedicularis howellii</i>	endemic to Siskiyou Mtns.	edges of forest openings or in the damp shade of <i>Abies</i> spp. or shrubs, 4000 to 6000ft elev.	preserve known sites/ protect & manage for species/ ROD-1,2	none
<i>Scoliopus biglovei</i>	endemic to N. CA	low elev. redwood forests, w/in coastal fog belt, moist shaded slopes, below 1500ft elev.	protect & manage for species/ survey & inventory/ ROD-1,2	none

1994 ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey sites (by 1996+); 3=conduct extensive surveys (by 1999+); 4=conduct general regional surveys (by 1996+); 5=conduct surveys and manage sites (by 1999+); 6=conduct extensive surveys and manage sites (by 1999+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: not present
BRYOPHYTES**

Liverwort

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Diplophyllum albicans</i>	Pacific Coast, AK, BC, WA, OR	on damp ledges or shaded rocks & soil along streams, high humidity, coastal old-growth TSME, PISI	not listed in J2/ ROD-1,3	riparian areas, coastal old-growth TSME/ PISI
<i>Diplophyllum plicatum</i>	coastal OR/ Olympic Peninsula & WA Cascades to AK/ Asia	coastal PISI forest, hardwood/ conifer bark, decaying wood & thin soil over rock, cool moist sites w/ organic matter	protect & manage for habitat/ ROD-1,2	none
<i>Plagiochila semidecurrens</i>	OR Coast range	foggy cliffs & shaded rocks	not listed in J2/ ROD-1,3	foggy cliffs & shaded rocks
<i>Radula brunnea</i>	N.Coast range OR	foggy rock walls in late-successional forest	not listed in J2/ ROD-1,3	foggy rock walls in late-successional forest

Moss

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Bartramiopsis lescurii</i>	Pacific NW/ WA/ AK/ BC/ Japan	on soil or soil over rock, on tree roots in late-successional forest	not listed in J2/ ROD-1,3	none
<i>Orthodontium gracile</i>	SW OR/ N. CA	on rotten or charred wood, peat or soil over rock in old-growth Sequoia forest	not listed in J2/ ROD-1,3	none

FUNGI

Boletes

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Gastroboletus turbinatus</i>	N.Cascades WA to N.CA/ ID/ MO/ Mexico	ectomycorrhizal w/ mature to old-growth coastal Abies spp., PIEN, PISI, Tsuga spp., high elev.	protect & manage for habitat/ ROD-3	none

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: not present
FUNGI**

Boletes, low elevation

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Boletus piperatus</i>	Pacific NW, low to mid elev. forests	requires coarse woody debris, low to mid elev. & coastal forests	protect & manage for habitat/ ROD-3	none
<i>Tylopilus pseudoscaber</i>	endemic Pacific NW, low elev.	requires coarse woody debris, low elev. & coastal PISI forests	protect & manage for habitat/ ROD-1,3	none

Rare Chanterelles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Polyozellus multiplex</i>	N. Sierras east of Cascade Crest OR & WA/ ME/ NH/ NM	montane <i>Picea</i> spp., <i>Abies</i> spp., edges of seeps along intermittent streams	protect & manage for species & habitat/ ROD-1,3	none

Rare Ecto-Polypores

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Albatrellus caeruleoporus</i>	Olympic Peninsula, WA/ NE United States	late-successional old-growth conifers in OR/ WA, mixed coastal conifers/ hardwoods CA	protect & manage for species/ survey & inventory/ ROD-1,3	none

Rare False Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Alpova olivaceotinctus</i>	Siskiyou Mtns. N.CA	ectomycorrhizal associates w/ mature ABMAS, ABCO	protect & manage for habitat/ ROD-1,3	none
<i>Octavianina macrospora</i>	local endemic, Twin Bridges Forest Camp, Mt Hood NF, OR	w/ mature to old-growth PSME, TSHE, mesic habitat, probably ectomycorrhizal	preserve known sites/ protect & manage for habitat/ ROD-1,3	none
<i>Octavianina papyracea</i>	local endemic, Spruce Cove, Humboldt Co., CA	mixed coastal PSME, TSHE, PISI & coastal redwood forests, in fog belt	preserve known sites/ protect & manage for habitat/ ROD-1,3	none

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: not present
FUNGI**

Rare Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Balsamia nigra</i>	rare, Sierra Nevada Mtns., CA to Yamhill Co., OR	endemic w/ Pinus spp., Quercus spp., PSME, xeric, serpentine soils, low elev., woody debris	protect & manage for habitat/ ROD-1,3	none
<i>Elaphomyces anthracinus</i>	W.Europe/ E.North America/ E.Cascades OR	ectomycorrhizal w/ mature PIPO	protect & manage for habitat/ ROD-1,3	none

Rare Zygomycetes

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Endogone oregonensis</i>	Tillamook Co. to Douglas Co. east to Benton Co., OR	mature to old-growth PSME, PISI, TSHE low elev., coarse woody debris, probably ectomycorrhizal	protect & manage known sites/ ROD-1,3	none

Uncommon False Truffle

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Macowanites chlorinosmus</i>	OR Coast & Coast Ranges	mature to old-growth PSME, PISI, TSHE low elev., coarse woody debris, probably ectomycorrhizal	protect & manage known sites/ ROD-1,3	none

Undescribed Taxa, Rare Truffles & False Truffles

Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Alpova sp. nov. # Trappe 9730</i>	Siskiyou Mtns. SW OR	mature to old-growth PSME, PIAT, PILA & ABMAS, mid to high elev.	protect & manage for habitat/ ROD-1,3	none
<i>Arcangeliella sp. nov. # Trappe 12359</i>	local endemic, Cummins Creek Wilderness Area, Siuslaw NF, OR	mature to old-growth coastal PISI, TSHE, PSME, w/ coarse woody debris, in fog belt	protect & manage for habitat/ ROD-1,3	none
<i>Arcangeliella sp. nov. # Trappe 12382</i>	Siskiyou Mtns. SW OR	mature to old-growth PSME, PIAT, PILA & ABMAS, mid to high elev.	protect & manage for habitat/ ROD-1,3	none

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: not present
FUNGI

Undescribed Taxa, Rare Truffles & False Truffles Mycorrhizal

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Chamonixia pacifica</i> sp. nov. # Trappe 12768	rare, endemic, Coastal OR from Lincoln Co. to Columbia River & Cascade Range WA	ectomycorrhizal w/ mature to old-growth coastal PSME, TSHE, PISI, ABAM	protect & manage for habitat/ ROD-1,3	none
<i>Elaphomyces</i> sp. nov. # Trappe 1038	local endemic, Siuslaw NF, OR	mature to old-growth coastal PISI, TSHE, PSME, w/ coarse woody debris, in fog belt	protect & manage for habitat/ ROD-1,3	none
<i>Gastroboletus</i> sp. nov. # Trappe 2897	Siskiyou Mtns. SW OR	mature to old-growth PSME, PIAT, PILA & ABMAS, mid to high elev.	protect & manage for habitat/ ROD-1,3	none
<i>Gastrosuillus</i> sp. nov. # Trappe 9608	rare, local endemic, Lassen NP & Lassen NF, CA	w/ PILA in mature mixed conifer forests at 6000ft elev.	protect & manage for habitat/ ROD-1,3	none
<i>Gymnomyces</i> sp. nov. # Trappe 4703, 5576	rare, local endemic, Mary's Peak, Siuslaw NF, OR	in mature to old-growth ABPR at upper mid elev.	protect & manage for habitat/ ROD-1,3	none
<i>Rhizopogon</i> sp. nov. # Trappe 9432	Siskiyou Mtns. SW OR	mature to old-growth PSME, PIAT, PILA & ABMAS, mid to high elev.	protect & manage for habitat/ ROD-1,3	none
<i>Thaxterogaster</i> sp. nov. # Trappe 4867, 6242, 7427, 7962, 8520	local endemic, Lane, Lincoln, Tillamook Cos., OR	mature to old-growth coastal PISI, TSHE, PSME, w/ coarse woody debris, in fog belt	protect & manage for habitat/ ROD-1,3	none
<i>Tuber</i> sp. nov. # Trappe 12493	local endemic, Lane, Lincoln, Tillamook Cos., OR	mature to old-growth coastal PISI, TSHE, PSME, w/ coarse woody debris, in fog belt	protect & manage for habitat/ ROD-1,3	none
<i>Tuber</i> sp. nov. # Trappe 2302	local endemic, Lane, Lincoln, Tillamook Cos., OR	mature to old-growth coastal PISI, TSHE, PSME, w/ coarse woody debris, in fog belt	protect & manage for habitat/ ROD-1,3	none

Club Coral Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Clavariadelphus borealis</i>	OR to AK/ mid-west & E. North America/ N. Europe	ectomycorrhizal, cool/ cold, moist late-successional old-growth Pinaceae & Fagaceae, humus layer	manage for habitat in matrix/ survey & inventory/ ROD-3,4	none

1994 J2 Strategies: 1=manage known sites (by 1994-95+); 2=survey sites (by 1996+); 3=conduct extensive survey activities and manage sites (by 1999+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: not present
FUNGI

Club Coral Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Clavariadelphus ligula</i>	OR to AK/ mid-west & E. North America/ N. Europe	ectomycorrhizal, cool/ cold, moist late-successional old-growth Pinaceae & Fagaceae, humus layer	manage for habitat in matrix/ survey & inventory/ ROD-3,4	none
<i>Clavariadelphus lovejoyae</i>	OR to AK/ mid-west & E. North America/ N. Europe	ectomycorrhizal, cool/ cold, moist late-successional old-growth Pinaceae & Fagaceae, humus layer	manage for habitat in matrix/ survey & inventory/ ROD-3,4	none
<i>Clavariadelphus pistilaris</i>	OR to AK/ mid-west & E. North America/ N. Europe	ectomycorrhizal, cool/ cold, moist late-successional old-growth Pinaceae & Fagaceae, humus layer	manage for habitat in matrix/ survey & inventory/ ROD-3,4	none
<i>Clavariadelphus sachalinensis</i>	OR to AK/ mid-west & E. North America/ N. Europe	ectomycorrhizal, cool/ cold, moist late-successional old-growth Pinaceae & Fagaceae, humus layer	manage for habitat in matrix/ survey & inventory/ ROD-3,4	none
<i>Clavariadelphus subfastigiatus</i>	OR to AK/ mid-west & E. North America/ N. Europe	ectomycorrhizal, cool/ cold, moist late-successional old-growth Pinaceae & Fagaceae, humus layer	manage for habitat in matrix/ survey & inventory/ ROD-3,4	none
<i>Clavariadelphus truncatus</i>	OR to AK/ mid-west & E. North America/ N. Europe	ectomycorrhizal, cool/ cold, moist late-successional old-growth Pinaceae & Fagaceae, humus layer	manage for habitat in matrix/ survey & inventory/ ROD-3,4	none

Parasitic Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Collybia racemosa</i>	Pacific NW/ CA	coastal late-successional forest w/ host spp.	protect & manage for species/ survey & inventory/ ROD-3	none

Rare Cup Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Bryoglossum gracile</i>	North America/ Europe	mossy, wet alpine/ subalpine, upper montane conifer forests, possibly parasite on mosses	survey & inventory/ ROD-none	none

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: not present
FUNGI

Rare Cup Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Gelatinoascus flavidus</i>	BC/ Olympic Peninsula, N. & OR Cascades/ central OR	on needles, cones, twigs of CHNO	protect known sites/ survey & inventory/ ROD-1,3	none
<i>Plectania latahensis</i>	rare, OR to BC/ ID	on conifer litter-twigs, needles, upper montane/ subalpine forests, near meltings snowfields	protect & monitor known sites/ survey & inventory/ ROD-1,3	none
<i>Plectania milleri</i>	rare, OR to BC/ ID	on conifer duff, montane/ subalpine conifer stands	protect & monitor known sites/ survey & inventory/ ROD-1,3	none
<i>Pseudaleuria quinaultiana</i>	rare, Olympic Peninsula/ Coastal WA & OR	on wood or soil, coastal wet late-successional conifer forests, low elev.	protect & monitor known sites/ survey & inventory/ ROD-1,3	none

Uncommon Cup Fungi

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Sarcosoma mexicana</i>	endemic, Coast Range OR & CA	late-successional old-growth coastal forests, winters relatively mild & wet	survey & inventory/ ROD-3	none
<i>Sarcosphaera eximia</i>	Pacific NW/ CA/ Rockies/ NE United States/ Europe	ectomycorrhizal on conifers, limestone-derived & acid, pumice-derived soils	protection not required/ survey & inventory/ ROD-3	none

Uncommon Gilled Mushrooms

Saprobies (Decomposers)

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Neolentinus kauffmanii</i>	range not completely known, endemic Pacific NW	only on wood of coastal PISl forests	survey & inventory/ ROD-1,3	none

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

**Habitat: not present
LICHEN**

Additional Lichen Species

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Heterodermia sitchensis</i>	Pacific NW	forest stands	not listed in J2/ ROD-3	none
<i>Hygomnia vittata</i>	Pacific NW	forest stands	not listed in J2/ ROD-3	none
<i>Nephroma isidiosum</i>	Pacific NW	forest stands	not listed in J2/ ROD-3	none
<i>Ramalina pollinaria</i>	Pacific NW/ W. OR & W. WA	low elev., north coastal forest w/ sandstone outcrops	not listed in J2/ ROD-3	none

Oceanic Influenced Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Cetraria californica</i>	coastal areas CA to WA	epiphytes on old-growth conifer forests (PICO) coastal areas	protect & manage for species/ ROD-3	none
<i>Heterodermia leucomelos</i>	coastal areas CA to WA	epiphytes on old-growth conifer forests (PISI) coastal areas w/in 1 to 2 miles	protect & manage for species/ ROD-3	none
<i>Loxospora sp nov. "corallifera" (Brodo in edit)</i>	coastal areas CA to WA	epiphytes on old-growth conifer forests coastal areas w/in 1 to 2 miles	protect & manage for species/ ROD-3	none
<i>Pyrrhospora quemea</i>	coastal areas CA to WA	epiphytes on old-growth conifer forests coastal areas w/in 1 to 2 miles	protect & manage for species/ ROD-3	none

Rare Forage Lichen

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Bryoria tortuosa</i>	coastal & inland CA, OR, WA	low elev., mesic, mixed deciduous/ coniferous forest habitats, commonly Pinaceae spp. & Quercus spp.	protect known sites/ survey & inventory/ ROD-1,3	none

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2 STANDARDS & GUIDELINES

Habitat: not present
LICHEN

Rare Leafy (arboreal) Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Hypogymnia duplicata</i>	Pacific NW, coastal & maritime	low elev. coastal ranges	protect & manage for habitat/ ROD-1,2,3	none

Rare Oceanic Influenced Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Bryoria pseudocapillaris</i>	Pacific NW, immediate coast w/in 1 to 2 miles	epiphytes on coastal PISI & ericaceous shrubs	protect & manage for habitat/ ROD-1,3	none
<i>Bryoria spiralifera</i>	Pacific NW, immediate coast w/in 1 to 2 miles	epiphytes on coastal forests	protect & manage for habitat/ ROD-1,3	none
<i>Bryoria subcana</i>	Pacific NW, immediate coast w/in 1 to 2 miles	epiphytes on coastal forests	protect & manage for habitat/ ROD-1,3	none
<i>Buellia oidalea</i>	Pacific NW, immediate coast w/in 1 to 2 miles	epiphytes on coastal forests, low elev., dry, Quercus spp.	protect & manage for habitat/ ROD-1,3	none
<i>Erioderma solediatum</i>	Pacific NW, immediate coast w/in 1 to 2 miles	epiphytes on broken PISI & old ericaceous shrubs, PICO	protect & manage for habitat/ ROD-1,3	none
<i>Leioderma solediatum</i>	Pacific NW, immediate coast w/in 1 to 2 miles	epiphytes on broken PISI & old ericaceous shrubs, PICO	protect & manage for habitat/ ROD-1,3	none
<i>Leptogium brebissonii</i>	Pacific NW, immediate coast w/in 1 to 2 miles	epiphytes on broken PISI & old ericaceous shrubs, PICO	protect & manage for habitat/ ROD-1,3	none
<i>Niebla cephalota</i>	Pacific NW, immediate coast w/in 1 to 2 miles	PISI & rock along windswept coast	protect & manage for habitat/ ROD-1,3	none
<i>Pseudocyphellaria mougeotiana</i>	Pacific NW, immediate coast w/in 1 to 2 miles	old-growth PISI	protect & manage for habitat/ ROD-1,3	none
<i>Teloschistes flavicans</i>	Pacific NW, immediate coast w/in 1 to 2 miles	epiphytes on coastal forests, dry uplands & praries, coastal shrubs	protect & manage for habitat/ ROD-1,3	none
<i>Usnea hesperina</i>	Pacific NW, immediate coast w/in 1 to 2 miles	old PICO, on the coast	protect & manage for habitat/ ROD-1,3	none

1994 ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey sites (by 1996+); 3=conduct extensive surveys and manage sites (by 1999+); 4=conduct general regional surveys (by 1996+).

**VASCULAR & NON-VASCULAR PLANTS LISTED IN FEIS ROD TABLE C-3 & APPENDIX J2
STANDARDS & GUIDELINES**

Habitat: not present
LICHEN

Rare Rock Lichens

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Sticta arctica</i>	AK arctic to Coast Range OR	rock outcrops w/in forested matrix, mountain tops near the coast	protect & manage for habitat/ ROD-1,3	none

VASCULAR PLANTS

Species	Species Range	Specific Habitat	J2 & FEIS ROD Strategies	Area(s) of Concern
<i>Arceuthobium tsugense</i>	Pacific NW/ CA, rare throughout range	parasite on very old-growth TSHE (600yrs) & PICO	protect TSHE stands > 600yrs./ survey in high probability habitat/ ROD-1,2	none
<i>Bensoniella oregana</i> (California)	Coast Range OR & CA	meadows/stream edges, mixed conifer late-successional & old-growth ABCO, PSME, 3000 to 5000ft elev.	protect & manage for habitat/ survey & inventory/ ROD-1,2	none
<i>Clintonia andrewsiana</i>	CA Coast	low elev. redwood forests	protect & manage for habitat/ survey & inventory/ ROD-1,2	none
<i>Coptis asplenifolia</i>	Coast Range OR/ WA Cascades & Olympic Peninsula, WA	bogs & moist, very cool, shady habitat w/in late-successional & old-growth stands THPL, TSHE, ABAM	protect & manage for habitat/ survey & inventory/ ROD-1,2	none
<i>Galium kamtschaticum</i>	Circumboreal distribution	seeps & other areas w/ year-round saturated soil, mossy, moist, cold, late-successional forests	protect & manage known sites/ ROD-1,2	none
<i>Habenaria orbiculata</i>	rare, North America	mesic to dry mossy forests w/ deep litter, TSHE, ABAM, mid to high elev.	protect known sites/ survey & inventory/ ROD-1,2	none

1994 FEIS ROD Strategies: 1=manage known sites (by 1994-95+); 2=survey prior to activities and manage sites (by 1999+); 3=conduct extensive surveys and manage sites (by 1996+); 4=conduct general regional surveys (by 1996+).

Appendix List BOT4:

VASCULAR & NONVASCULAR PLANT SPECIES[^] HABITAT GUILDS IN THE WATERSHED

Bryophytes

<u>Species</u>	<u>Guild No.</u>
* <i>Antitrichia curtipendula</i>	G1, G4, G5, G6
* <i>Ptilidium californicum</i>	G1, G2, G5, G10
<i>Douinia ovata</i>	G1, G5, G7
<i>Encalypta brevicolla</i> var. <i>crumiana</i>	G1, G5, G7
<i>Herbertus aduncus</i>	G1, G9
<i>Herbertus sakuraii</i>	G1, G7
<i>Iwatsuklella leucotricha</i>	G1
<i>Kurzia makinoana</i>	G1, G2, G5, G6, G8
<i>Marsupella emarginata</i> var. <i>aquatica</i>	G6
<i>Plagiochila satol</i>	G1, G7
<i>Pleuroziopsis ruthenica</i>	G1, G5, G6, G8
<i>Racomitrium aquaticum</i>	G1, G5, G6, G7
<i>Scouleria marginata</i>	G6
<i>Tetraphis geniculata</i>	G1, G2, G5
<i>Thamnobryum neckeroides</i>	G5, G7
<i>Tritomaria exsectiformis</i>	G1, G6, G7
<i>Tritomaria quinquedentata</i>	G1, G7

Fungi

Mycorrhizal

<u>Species</u>	<u>Guild No.</u>
* <i>Chroogomphus loculatus</i>	G1
* <i>Gastroboletus imbelellus</i>	G1
* <i>Gastroboletus ruber</i>	G1, G2
* <i>Gymnomyces</i> sp. nov. # Trappe 1690, 1706, 1710	G1
* <i>Martellia idahoensis</i>	G1
* <i>Martellia</i> sp. nov. # Trappe 1700	G1
* <i>Octavianina</i> sp. nov. # Trappe 7502	G1
* <i>Rhizopogon evadens</i> var. <i>subalpinus</i>	G1, G9
* <i>Rhizopogon</i> sp. nov. # Trappe 1692	G1
* <i>Rhizopogon</i> sp. nov. # Trappe 1698	G1
<i>Albatrellus avellaneus</i>	G1, G4
<i>Albatrellus ellisii</i>	G1, G4
<i>Albatrellus flettii</i>	G1, G4
<i>Alpova alexsmithii</i>	G1

G1=late-sucessional/old-growth; G2=woody debris/litter/humus layer; G3=2nd growth w/crown closure; G4=hardwoods w/conifers; G5=moist/wet habitat; G6=riparian; G7=rocks/cliffs; G8=low elev.; G9=high/montane elev.; G10=*Abies* spp. *present in watershed. [^]FEIS ROD 1994 Table C-3.

**VASCULAR & NONVASCULAR PLANT SPECIES^A
HABITAT GUILDS IN THE WATERSHED**

Fungi

Mycorrhizal

<u>Species</u>	<u>Guild No.</u>
<i>Boletus haematinus</i>	G10
<i>Boletus pulcherrimus</i>	G1
<i>Cantharellus cibarius</i>	G1, G2
<i>Cantharellus formosus</i>	G1, G2
<i>Cantharellus subalbidus</i>	G1, G2
<i>Cantharellus tubaeformis</i>	G1, G2
<i>Catathelasma ventricosa</i>	G1
<i>Choiromyces alveolatus</i>	G1, G2
<i>Choiromyces venosus</i>	G1, G4
<i>Cortinarius azureus</i>	G1
<i>Cortinarius boulderensis</i>	G1
<i>Cortinarius canabarba</i>	G1, G2
<i>Cortinarius cyanites</i>	G1
<i>Cortinarius magnivelatus</i>	G1
<i>Cortinarius olympianus</i>	G1
<i>Cortinarius rainierensis</i>	G1, G2
<i>Cortinarius spilomius</i>	G1
<i>Cortinarius tabularis</i>	G1
<i>Cortinarius valgus</i>	G1
<i>Cortinarius variipes</i>	G1, G2
<i>Dermocybe humboldtensis</i>	G1, G8
<i>Destuntzia fusca</i>	G1, G4, G8
<i>Destuntzia rubra</i>	G1, G4, G8
<i>Elaphomyces subviscidus</i>	G1
<i>Gastroboletus subalpinus</i>	G1
<i>Gautieria magnicellaris</i>	G1
<i>Gautieria otthii</i>	G1
<i>Glomus radiatum</i>	G1, G5
<i>Gomphus bonarii</i>	G1
<i>Gomphus clavatus</i>	G1
<i>Gomphus floccosus</i>	G1
<i>Gomphus kauffmanii</i>	G1
<i>Hebeloma olympiana</i>	G1
<i>Hydnum repandum</i>	G1, G3, G4
<i>Hydnum umbilicatum</i>	G1, G3, G4

G1=late-sucessional/old-growth; G2=woody debris/litter/humus layer; G3=2nd growth w/crown closure; G4=hardwoods w/conifers; G5=moist/wet habitat; G6=riparian; G7=rocks/cliffs;G8=low elev.; G9=high/montane elev.; G10=Abies spp. *present in watershed. ^FEIS ROD 1994 Table C-3.

VASCULAR & NONVASCULAR PLANT SPECIES[^] HABITAT GUILDS IN THE WATERSHED

Fungi

Mycorrhizal

<u>Species</u>	<u>Guild No.</u>
<i>Hygrophorus caeruleus</i>	G1
<i>Hygrophorus karstenii</i>	G1
<i>Hygrophorus vernalis</i>	G1
<i>Leucogaster citrinus</i>	G1, G2
<i>Leucogaster microsporus</i>	G1, G2
<i>Martellia fragrans</i>	G1, G2
<i>Martellia monticola</i>	G1, G2
<i>Nivatogastrium nubigenum</i>	G1
<i>Phaeocollybia attenuata</i>	G1, G5
<i>Phaeocollybia californica</i>	G1, G5
<i>Phaeocollybia carmanahensis</i>	G1, G5
<i>Phaeocollybia dissiliens</i>	G1, G5
<i>Phaeocollybia fallax</i>	G1, G5
<i>Phaeocollybia gregaria</i>	G1, G5
<i>Phaeocollybia kauffmanii</i>	G1, G5
<i>Phaeocollybia olivacea</i>	G1, G5
<i>Phaeocollybia oregonensis</i>	G1, G5
<i>Phaeocollybia piceae</i>	G1, G5
<i>Phaeocollybia pseudofestiva</i>	G1, G5
<i>Phaeocollybia scatesiae</i>	G1, G5
<i>Phaeocollybia sipei</i>	G1, G5
<i>Phaeocollybia spadicea</i>	G1, G5
<i>Phellodon atratum</i>	G1, G3, G4
<i>Ramaria abietina</i>	G1, G2
<i>Ramaria amyloidea</i>	G1, G2
<i>Ramaria araiospora</i>	G1, G2
<i>Ramaria aurantiisiccescens</i>	G1, G2
<i>Ramaria botryis</i> var. <i>aurantiiramosa</i>	G1, G2
<i>Ramaria celerivirescens</i>	G1, G2
<i>Ramaria claviramulata</i>	G1, G2
<i>Ramaria concolor</i> f. <i>marri</i>	G1, G2
<i>Ramaria concolor</i> f. <i>tsugina</i>	G1, G2
<i>Ramaria coulterae</i>	G1, G2
<i>Ramaria cyaneigranosa</i>	G1, G2
<i>Ramaria fasciculata</i> var. <i>sparsiramosa</i>	G1, G2

G1=late-sucessional/old-growth; G2=woody debris/litter/humus layer; G3=2nd growth w/crown closure; G4=hardwoods w/conifers; G5=moist/wet habitat; G6=riparian; G7=rocks/cliffs; G8=low elev.; G9=high/montane elev.; G10=Abies spp. *present in watershed. ^FEIS ROD 1994 Table C-3.

VASCULAR & NONVASCULAR PLANT SPECIES[^] HABITAT GUILDS IN THE WATERSHED

Fungi

Mycorrhizal

<u>Species</u>	<u>Guild No.</u>
<i>Ramaria gelatiniaurantia</i>	G1, G2
<i>Ramaria gracilis</i>	G1, G2
<i>Ramaria hilaris var. olympiana</i>	G1, G2
<i>Ramaria largentii</i>	G1, G2
<i>Ramaria lorithamnus</i>	G1, G2
<i>Ramaria maculatipes</i>	G1, G2
<i>Ramaria rainierensis</i>	G1, G2
<i>Ramaria rubella var. blanda</i>	G1, G2
<i>Ramaria rubribrunnescens</i>	G1, G2
<i>Ramaria rubrievanescens</i>	G1, G2
<i>Ramaria rubripermanens</i>	G1, G2
<i>Ramaria spinulosa</i>	G1, G2
<i>Ramaria stuntzii</i>	G1, G2
<i>Ramaria suecica</i>	G1, G2
<i>Ramaria thiersii</i>	G1, G2
<i>Ramaria verlotensis</i>	G1, G2
<i>Rhizopogon abietis</i>	G1
<i>Rhizopogon atroviolaceus</i>	G1
<i>Rhizopogon brunneiniger</i>	G1
<i>Rhizopogon exiguus</i>	G1, G2
<i>Rhizopogon flavofibrillosus</i>	G1
<i>Rhizopogon inquinatus</i>	G1, G2, G3
<i>Rhizopogon truncatus</i>	G1
<i>Russula mustelina</i>	G1
<i>Sarcodon fuscoindicum</i>	G1, G3, G4
<i>Sarcodon imbricatus</i>	G1, G3, G4
<i>Thaxterogaster pingue</i>	G2, G10
<i>Tricholoma venenatum</i>	G1, G2

Saprobies (Decomposers)

<u>Species</u>	<u>Guild No.</u>
<i>Aleuria rhenana</i>	G1, G2
<i>Aleurodiscus farlowii</i>	G1, G2
<i>Asterophora lycoperdoides</i>	G1, G2
<i>Asterophora parasitica</i>	G1, G2
<i>Baeospora myriadophylla</i>	G1, G2

G1=late-sucessional/old-growth; G2=woody debris/litter/humus layer; G3=2nd growth w/crown closure; G4=hardwoods w/conifers; G5=moist/wet habitat; G6=riparian; G7=rocks/cliffs; G8=low elev.; G9=high/montane elev.; G10=Abies spp. *present in watershed. ^FEIS ROD 1994 Table C-3.

VASCULAR & NONVASCULAR PLANT SPECIES[^] HABITAT GUILDS IN THE WATERSHED

Fungi

Saprobies (Decomposers)

<u>Species</u>	<u>Guild No.</u>
<i>Bondarzewia montana</i>	G1, G10
<i>Chrysomphalina grossula</i>	G1, G2
<i>Clavicornia avellanea</i>	G1, G2, G5
<i>Clavulina cinerea</i>	G1, G2, G3
<i>Clavulina cristata</i>	G1, G2, G3
<i>Clavulina ornatipes</i>	G1, G2, G3
<i>Clitocybe senilis</i>	G1, G2, G5
<i>Clitocybe subditopoda</i>	G1, G2, G5
<i>Collybia bakerensis</i>	G1, G2
<i>Cordyceps capitata</i>	G1, G2
<i>Cordyceps ophioglossoides</i>	G1, G2
<i>Cudonia circinans</i>	G1, G2
<i>Cudonia monticola</i>	G1, G2
<i>Cyphellostereum laeve</i>	G1, G5
<i>Dichostereum granulosum</i>	G1, G2
<i>Fayodia gracilipes (rainierensis)</i>	G1, G2
<i>Gallerina atkinsoniana</i>	G1, G5
<i>Gallerina cerina</i>	G1, G5
<i>Gallerina heterocystis</i>	G1, G5
<i>Gallerina sphagnicola</i>	G1, G5
<i>Gallerina vaittaeformis</i>	G1, G5
<i>Grandinia microsporella</i>	G1, G2
<i>Gymnopilus puntifolius</i>	G1, G2
<i>Gyromitra californica</i>	G2
<i>Gyromitra esculenta</i>	G2, G3
<i>Gyromitra infula</i>	G2
<i>Gyromitra melaleucoides</i>	G2
<i>Gyromitra montana (syn. G. gigas)</i>	G2
<i>Helvella compressa</i>	G1, G5, G6
<i>Helvella crassitunicata</i>	G1, G5, G6
<i>Helvella elastica</i>	G1, G5, G6
<i>Helvella maculata</i>	G1, G5, G6
<i>Hypomyces luteovirens</i>	G1, G2
<i>Marasmius applanatipes</i>	G1, G2
<i>Mycena hudsoniana</i>	G1, G2

G1=late-sucessional/old-growth; G2=woody debris/litter/humus layer; G3=2nd growth w/crown closure; G4=hardwoods w/conifers; G5=moist/wet habitat; G6=riparian; G7=rocks/cliffs; G8=low elev.; G9=high/montane elev.; G10=Abies spp. *present in watershed. ^FEIS ROD 1994 Table C-3.

VASCULAR & NONVASCULAR PLANT SPECIES[^] HABITAT GUILDS IN THE WATERSHED

Fungi

Saprobies (Decomposers)

<u>Species</u>	<u>Guild No.</u>
<i>Mycena lilacifolia</i>	G1, G2
<i>Mycena marginella</i>	G1, G2
<i>Mycena monticola</i>	G1, G2
<i>Mycena overholtsii</i>	G1, G2, G5
<i>Mycena quinaultensis</i>	G1, G2
<i>Mycena tenax</i>	G1, G2
<i>Mythicomyces corneipes</i>	G1, G2
<i>Neolentinus adherens</i>	G1, G2, G5
<i>Neourmula pouchetii</i>	G1, G2
<i>Otidea leporina</i>	G1, G2, G5
<i>Otidea onotica</i>	G1, G2, G5
<i>Otidea smithii</i>	G1, G2, G5
<i>Oxyporus nobilissimus</i>	G1, G2, G10
<i>Phlebia diffusa</i>	G1, G2
<i>Phlogoitis hevelloides</i>	G1, G2, G3, G6
<i>Pholiota albivelata</i>	G1, G2
<i>Phytoconis ericetorum</i>	G1, G2
<i>Pithya vulgaris</i>	GL10
<i>Plectania melastoma</i>	G1, G2
<i>Podostroma alutaceum</i>	G1, G2
<i>Polyporoletus sublividus</i>	G1, G2
<i>Postia rennyii</i>	G1, G2
<i>Rhodocybe speciosa</i>	G1, G2, G5
<i>Rickenella setipes</i>	G1, G5
<i>Scytinostroma cf. galatinum</i>	G1, G2
<i>Sparassis crispa</i>	G1
<i>Spathularia flavida</i>	G1, G2
<i>Stagnicola perplexa</i>	G1, G2
<i>Tricholomopsis fulvescens</i>	G1, G2, G5

Lichen

<u>Species</u>	<u>Guild No.</u>
* <i>Hydrothyria venosa</i>	G1, G6
* <i>Lobaria oregana</i>	G1, G5
* <i>Lobaria pulmonaria</i>	G1, G5

G1=late-succesional/old-growth; G2=woody debris/litter/humus layer; G3=2nd growth w/crown closure; G4=hardwoods w/conifers; G5=moist/wet habitat; G6=riparian; G7=rocks/cliffs; G8=low elev.; G9=high/montane elev.; G10=Abies spp. *present in watershed. ^FEIS ROD 1994 Table C-3.

**VASCULAR & NONVASCULAR PLANT SPECIES[^]
HABITAT GUILDS IN THE WATERSHED**

Lichen

<u>Species</u>	<u>Guild No.</u>
<i>*Nephroma occultum</i>	G1
<i>Calicium abietinum</i>	G1, G4
<i>Calicium adaequatum</i>	G1, G4
<i>Calicium adpersum</i>	G1, G4
<i>Calicium glaucellum</i>	G1, G4
<i>Calicium viride</i>	G1, G4
<i>Cetrelia cetrarioides</i>	G4, G6
<i>Chaenotheca brunneola</i>	G1, G4
<i>Chaenotheca chrysocephala</i>	G1, G4
<i>Chaenotheca ferruginea</i>	G1, G4
<i>Chaenotheca furfuracea</i>	G1, G4
<i>Chaenotheca subroscida</i>	G1, G4
<i>Chaenothecopsis pusilla</i>	G1, G4
<i>Cladonia norvegica</i>	G1
<i>Collema nigrescens</i>	G4, G6
<i>Cyphelium inquinans</i>	G1
<i>Dendriscocaulon intricatulum</i>	G1, G4, G5, G6
<i>Dermatocarpon luridum</i>	G1, G6
<i>Hypogymnia oceanica</i>	G1
<i>Hypotrachyna revoluta</i>	G1, G9
<i>Leptogium burnetiae</i> var. <i>hirsutum</i>	G4, G6
<i>Leptogium cyanescens</i>	G4, G6
<i>Leptogium rivale</i>	G1, G6
<i>Leptogium saturninum</i>	G4, G6
<i>Leptogium teretiusculum</i>	G4, G6
<i>Lobaria hallii</i>	G4, G6
<i>Lobaria linita</i>	G1
<i>Lobaria scrobiculata</i>	G1, G5
<i>Microcalicium arenarium</i>	G1, G4
<i>Mycocalicium subtile</i>	G1, G4
<i>Nephroma bellum</i>	G1, G5
<i>Nephroma helveticum</i>	G1, G5
<i>Nephroma laevigatum</i>	G1, G5
<i>Nephroma parile</i>	G1, G5
<i>Nephroma resupinatum</i>	G1, G5
<i>Pannaria leucostictoides</i>	G1, G5

G1=late-sucessional/old-growth; G2=woody debris/litter/humus layer; G3=2nd growth w/crown closure; G4=hardwoods w/conifers; G5=moist/wet habitat; G6=riparian; G7=rocks/cliffs; G8=low elev.; G9=high/montane elev.; G10=Abies spp. *present in watershed. [^]FEIS ROD 1994 Table C-3.

VASCULAR & NONVASCULAR PLANT SPECIES^ HABITAT GUILDS IN THE WATERSHED

Lichen

<u>Species</u>	<u>Guild No.</u>
<i>Pannaria mediterranea</i>	G1, G5
<i>Pannaria rubiginosa</i>	G1
<i>Pannaria saubinetii</i>	G1, G5
<i>Peltigera collina</i>	G1, G5
<i>Peltigera neckeri</i>	G1, G5
<i>Peltigera pacifica</i>	G1, G5
<i>Pilophorus nigricaulis</i>	G1, G7
<i>Platismatia lacunosa</i>	G5
<i>Pseudocyphellaria anomala</i>	G1, G5
<i>Pseudocyphellaria anthraspis</i>	G1, G5
<i>Pseudocyphellaria crocata</i>	G1, G5
<i>Pseudocyphellaria rainierensis</i>	G1
<i>Ramalina thrausta</i>	G4, G6
<i>Stenocybe clavata</i>	G1, G4
<i>Stenocybe major</i>	G1, G4
<i>Sticta beauvoisii</i>	G1, G5
<i>Sticta fuliginosa</i>	G1, G5
<i>Sticta limbata</i>	G1, G5
<i>Tholurna dissimilis</i>	G1, G9
<i>Usnea longissima</i>	G4, G6

Vascular Plants

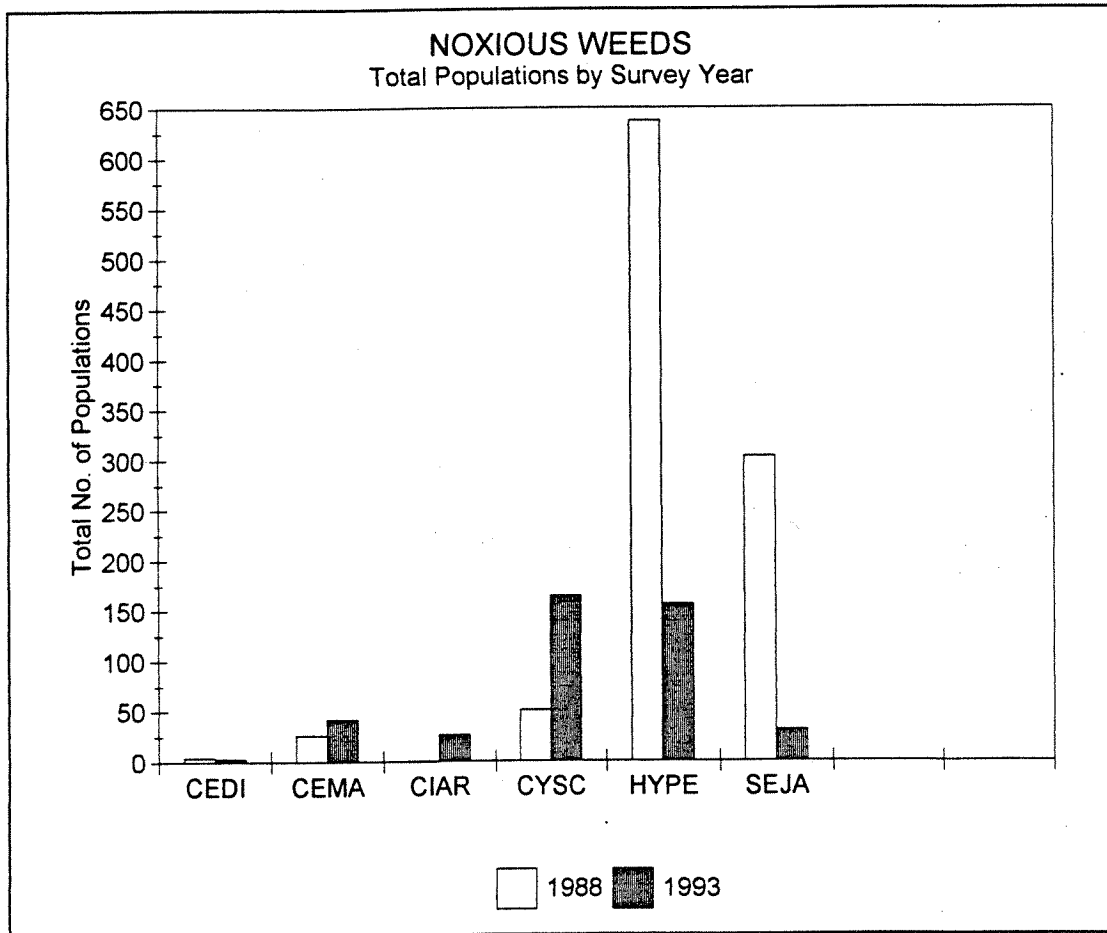
<u>Species</u>	<u>Guild No.</u>
<i>Allotropia virgata</i>	G1, G2
<i>Botrychium minganense</i>	G1, G5, G6
<i>Botrychium montanum</i>	G1, G2, G5, G6
<i>Coptis trifolia</i>	G1, G2, G5
<i>Corydalis aquae-gelidae</i>	G6
<i>Cypripedium fasciculatum (Klamath)</i>	G1, G3, G4
<i>Cypripedium montanum (west Cascades)</i>	G1, G3, G4

G1=late-sucessional/old-growth; G2=woody debris/litter/humus layer; G3=2nd growth w/crown closure; G4=hardwoods w/conifers; G5=moist/wet habitat; G6=riparian; G7=rocks/cliffs; G8=low elev.; G9=high/montane elev.; G10=Abies spp. *present in watershed. ^FEIS ROD 1994 Table C-3.

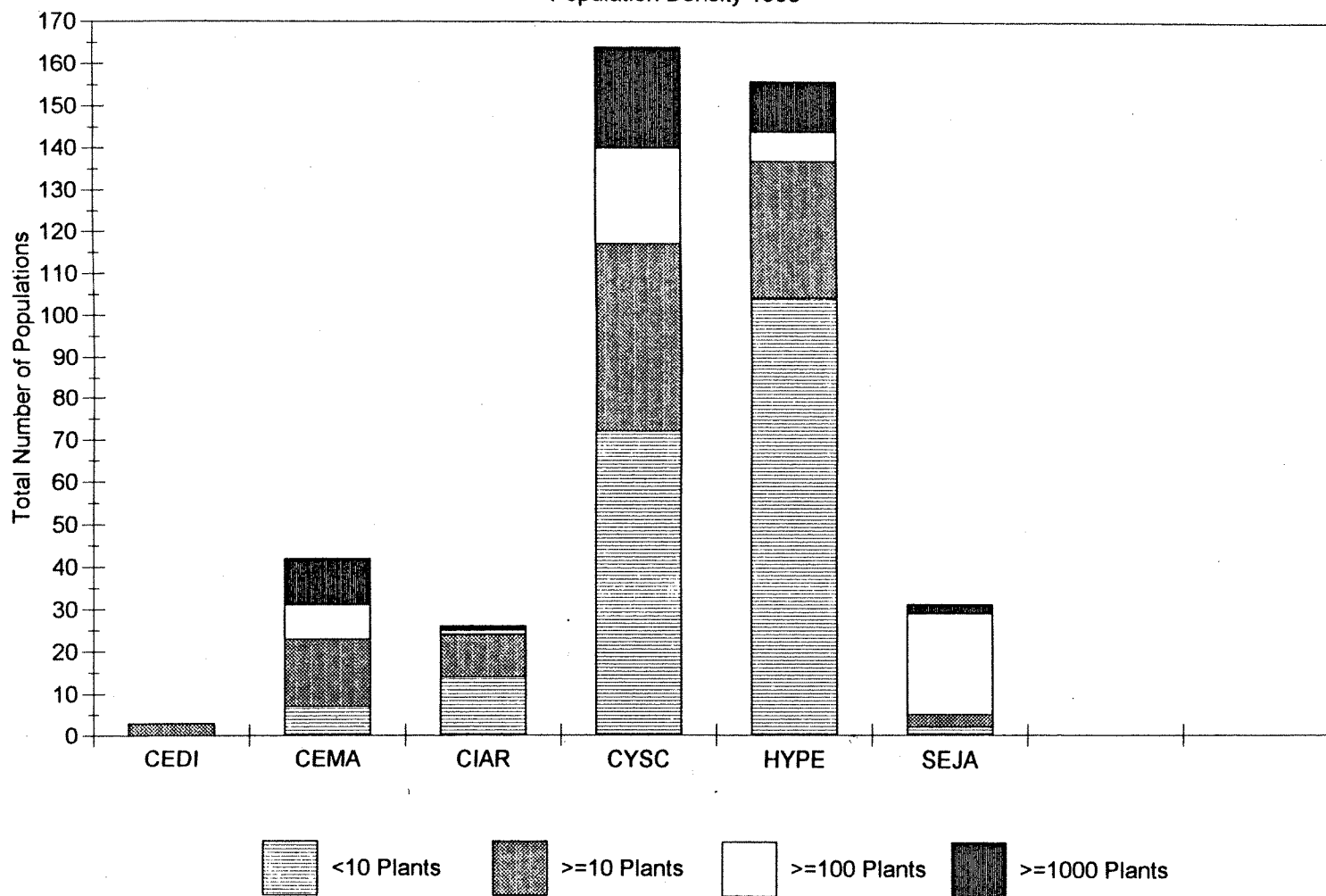
Appendix Figure BOT5:

NOXIOUS WEED POPULATIONS IN THE SOUTH FORK WATERSHED

<u>Species</u>	<u>Survey Year</u>	<u>Total No. of Pops.</u>	
CEDI	1988	4	
CEDI	1993	3	
CEMA	1988	26	
CEMA	1993	42	
CIAR	1988	0	CEDI=Centaurea diffusa (diffused knapweed)
CIAR	1993	26	CEMA=Centaurea maculosa (spotted knapweed)
CYSC	1988	51	CIAR=Cirsium arvense (Canada thistle)
CYSC	1993	164	CYSC=Cytisus scoparius (scotch broom)
HYPE	1988	637	HYPE=Hypericum perforatum (St. John's-wort)
HYPE	1993	156	SEJA=Senecio jacobeeae (tansy ragwort)
SEJA	1988	303	
SEJA	1993	31	



Noxious Weeds Population Density 1993



CEDI=Centaurea diffusa (diffused knapweed); CEMA=Centaurea maculosa (spotted knapweed); CIAR=Cirsium arvense (Canada thistle)
 CYSC=Cytisus scoparius (scotch broom); HYPE=Hypericum perforatum (St. John's-wort); SEJA=Senecio jacobeeae (tansy ragwort)