

# **APPENDIX L**

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**Survey and Manage Tracking Form:  
Botany Species Survey and Site  
Management Summary**

**New in the FEIS.**

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## SURVEY & MANAGE TRACKING FORM: BOTANY SPECIES SURVEY AND SITE MANAGEMENT SUMMARY

*Okanogan-Wenatchee National Forest – Methow Valley, Tonasket, and Chelan Ranger Districts*

**Project Name:** Pack And Saddle Outfitter Guide **Prepared By:** Kelly Baraibar

**Project Type:** Issuance of 10-year term pack and saddle stock outfitter-guide special use permits

**Date:** December 12, 2012

**Location:** The analysis area includes portions of the Pasayten and Lake Chelan-Sawtooth Wilderness Areas, the North Cascades Scenic Highway Corridor, Sawtooth Backcountry, the Bear/Ramsey/Volstead area, and some National Forest System land adjacent to these areas.

**S&M List Date:** 2011 Settlement Agreement

### **Figure L-1. Survey & Manage Botany Species**

The Okanogan-Wenatchee National Forest compiled the species listed below from the 2011 Settlement Agreement Attachment 1. This includes those vascular and non-vascular plant species with pre-disturbance survey requirements (Category A or C species), whose known or suspected range includes the Okanogan-Wenatchee National Forest according to:

- Heritage Program (WNHP) Site Database, Flora of the Pacific NW by Hitchcock and Cronquist, and Field Guide to Washington's Rare Plants 2000 cooperatively produced by WNHP and Spokane District BLM.

This project does not propose habitat-disturbing activities in old-growth. Equivalent Effort pre-disturbance survey requirements for Category B lichen and bryophytes and Category B fungi species are not required.

This list also includes any Category B, D, E, or F species with known sites located within the Pack and Saddle Stock Outfitter-Guide analysis area. Applicable management recommendations include:

- Avoid activities near or upstream from the site that would reduce water quality; maintain current environmental conditions at population sites including canopy closure, water quality, and sedimentation; and avoid activities that might shade the population site.
- Avoid activities such as bucking of logs that would directly impact an occupied root mass. Follow current Forest Plan standards and guidelines pertaining to wood gathering and snag removal have reduced or eliminated the risk of loss to this species.
- Consider incorporation of patch retention areas.

**Figure L-1. Survey and Manage Botany Species**

Species	S&M Category	Survey Triggers			Survey Results			Site Management
		Within Range of the Species?	Contains Suitable habitat?	Habitat Disturbing*?	Surveys Required?	Survey Date (month/year)	Sites Known or Found?	
List any Category D, E or F species, if there are known sites within the project area.  <i>Dermatocarpon meiohyllum</i>	E	Yes	Yes	No	Yes	1996	2	Yes <sup>1</sup>
List Category B lichens and bryophytes with Strategic Surveys completed (and no Equivalent Effort Surveys required). Site management is still required for these species, in all habitat types.	N/A	N/A	No Old-Growth Forest in Analysis Area	N/A	No	N/A	0	N/A
List Category B lichens and bryophytes with Strategic Surveys NOT completed (and Equivalent Effort Surveys required), as well as all Category B Fungi.	N/A	N/A	No Old-Growth Forest in Analysis Area	N/A	No	N/A	N/A	N/A

<b>Fungi</b>								
<i>Albatrellus ellisii</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Clavariadelphus occidentalis</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Clavariadelphus sachalinensis</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Cudonia monticola</i>	B	Yes	Yes	No	No	2000	1	Yes <sup>2</sup>
<i>Gomphus bonarii</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Gomphus kauffmanii</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Gyromytra californica</i>	B	Yes	Yes	No	No	1999	2	Yes <sup>3</sup>
<i>Leucogaster citrinus</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Ramaria amyloidea</i>	B	Yes	Yes	No	No	1998	1	Yes <sup>4</sup>
<i>Ramaria aurantiiscescens</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Ramaria largentii</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Ramaria rubrievanescens</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Ramaria rubripermanens</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Sarcodon fuscoindicus</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Spathularia flavida</i>	B	Yes	No	N/A	No	N/A	0	N/A

<b>Lichens</b>								
<i>Dendroscocaulon intricatum</i>	B	Yes	No	N/A	No	N/A	0	N/A
<i>Leptogium burnetia</i> var <i>hirsutum</i>	A	Yes	No	N/A	Yes	1999-2003	0	N/A
<i>Leptogium cyanescens</i>	A	Yes	No	N/A	Yes	1999-2003	0	N/A
<i>Nephroma bellum</i>	F	Yes	Yes	No	Yes	1999-2003	0	N/A
<i>Peltigera pacifica</i>	E	Yes	No	N/A	Yes	1999-2003	0	N/A
<i>Tholurna dissimilis</i>	B	No	N/A	N/A	No	N/A	0	N/A
<b>Bryophytes</b>								
<i>Schistostega pennata</i>	A	Yes	Yes	No	Yes	1999-2003	1	Yes <sup>5</sup>
<i>Tritomaria exsectiformis</i>	B	Yes	Yes	No	No	N/A	0	N/A
<b>Vascular Plants</b>								
<i>Botrychium montanum</i>	A	Yes	Yes	No	Yes	1999-2003	0	N/A

\*"Habitat disturbing" and thereby a trigger for surveys as defined in the 2001 ROD S&Gs (USDA and USDI, 2001. p. 22).

N/A = Not applicable

<sup>1</sup> The *Dermatocarpon meiphyllizum* sites are outside of any pack and saddle outfitter-guide activities. These two populations are historical; they were not located during recent survey efforts. Site management includes: avoid activities near or upstream from the site that would reduce water quality; maintain current environmental conditions at population sites including canopy closure, water quality, and sedimentation; and avoid activities that might shade the population site.

<sup>2</sup> The *Cudonia monticola* site found during surveys is outside of any pack and saddle outfitter-guide activities. Site management includes considering incorporation of patch retention area.

<sup>3</sup> The *Gyromytra californica* sites were found during 1999 surveys. Sites are outside of any pack and saddle outfitter-guide activities. Site management includes considering incorporation of patch retention area.

<sup>4</sup> The *Ramaria amyloidea* site was found in 1998, site was not found during surveys for

this project. This population is outside of any pack and saddle outfitter-guide activities. Site management includes considering incorporation of patch retention area.

<sup>5</sup> The *Schistostega pennata* site found during surveys is outside of any pack and saddle outfitter-guide activities. Site management includes avoiding activities such as bucking of logs that would directly impact an occupied root mass.

**Statement of Compliance.** The Okanogan-Wenatchee National Forest applied the 2011 Settlement Agreement Species List to the Pack and Saddle Stock Outfitter-Guide Use Permit, completing pre-disturbance surveys, and management of known sites (Table A) required by Survey Protocols and Management Recommendations to comply with the *2001 Record of Decision and Standard and Guidelines for Amendments to the Survey and Manage, Protection Buffer, and other Mitigation Measure Standards and Guidelines*.

Project surveys discovered sites for five Survey and Manage botany species:

- **Category A Bryophyte (*Schistostega pennata*):** 1999 Pre-disturbance surveys identified one site on a root wad of a recently fallen tree. This site was found outside of any pack and saddle outfitter-guide activities. Implemented the Management Consideration in the *Conservation Assessment for Schistostega pennata* (Harpel and Helliwell, 2005) to avoid activities such as bucking of logs that would directly impact an occupied root mass. Implementation of current Forest Plan standards and guidelines pertaining to wood gathering and snag removal have reduced or eliminated the risk of loss to this species.
- **Category B Fungi (*Cudonia monticola*):** 2000 Pre-disturbance surveys identified one site. These sites were found outside of any pack and saddle outfitter-guide activities. *Consider incorporation of patch retention areas (as described in Standards and Guidelines 1994, C-41) with occupied sites wherever possible*, based on information utilized from the Appendix I of the *Conservation Assessment for Fungi in Regions 5&6 and OR/WA/CA BLM* (Cushman and Hull, 2007).
- **Category B Bryophyte (*Gyromytra californica*):** 1999 located one site. . These sites were found outside of any pack and saddle outfitter-guide activities. *Consider incorporation of patch retention areas (as described in Standards and Guidelines 1994, C-41) with occupied sites wherever possible*, based on information utilized from the Appendix I of the *Conservation Assessment for Fungi in Regions 5&6 and OR/WA/CA BLM* (Glavich, 2007).

Known sites are present within the project for two additional species:

- **Category B Fungi (*Ramaria amyloidea*):** 1998 located one site and is outside of any pack and saddle outfitter-guide activities. *Consider incorporation of patch retention areas (as described in Standards and Guidelines 1994, C-41) with occupied sites wherever possible*, based on information utilized from the Appendix I of the *Conservation Assessment for Fungi in Regions 5&6 and OR/WA/CA BLM* (July 2007).
- **Category E Lichen (*Dermatocarpon meiophyllizum*):** These two populations are historic and are outside of any pack and saddle outfitter-guide activities. Site management includes: avoid activities near or upstream from the site that would reduce water quality; maintain current environmental conditions at population sites including canopy

closure, water quality, and sedimentation; and avoid activities that might shade the population site (*Conservation Assessment for Dermatocarpon meiophyllizum*, 2007).