

<sup>13</sup> Scanned 9-22-16  
MC031, 032, 037, 039, 040, 041

Entered in NREM Database  
Survey ID \_\_\_\_\_ 10/24 10M

### BOTANICAL FIELD RECONNAISSANCE REPORT Helena-Lewis and Clark National Forest

Project: Moose Creek

District: WSS

Survey Area ID: 011507 030402 MC 032-037-039-041-043  
Survey Name:

Survey Date(s): 8/16/15

Surveyor/s: JD, SS

USGS Quad:

Location: T R S 1/4 1/16

UTM: NAD 83 Zone E

N

GPS unit/device Error +

Trimble  
Avenza  
Other: \_\_\_\_\_

Location/Directions to Survey Area:

6414, Unit 1a  
hike ~ 2 miles to units  
reached survey units (not project units) - did next complete survey of  
new phlox population. Revisit conducted later and area remapped.

Survey type: Field Check; Cursory; General; Intuitive Controlled; Complete

Describe survey route/effort taken:

Rd 6414 closed. Parked at gate, hiked to 032, 037, 041, 040, 039.  
hiked back

Target Species: See attached RI HLC list.

Describe general habitat(s): Type, common species, plant associations, unique features, etc.:

PICO, ABLA, P. albicaulis  
ridgetop, rocky exposed rocks. Talus. Thick ~~at~~ V. scopulorum, Carex geyeri, moss +  
lichen ground cover b/w rocks. Some WBP - mostly present in understory.

Management History/Current Uses:

range, timber, rec

Seral Stage: early mid late

Slope/s: various Aspect/s: various

Elevation: ~~4500~~ ~ 7500 Soil/Bedrock:

**SPECIAL STATUS PLANTS (federally listed, FS sensitive)**

Any known/historical populations in the project area? (Include species and EO#)

NO

Any new populations found in the project area? (Include species and EO#)

YES - *Missoula phlox*

Presence of Suitable Habitat for Listed Species (Provide brief explanation of why habitat is unsuitable or where suitable habitat occurs)

SENSITIVE SPECIES	SUITABLE?	EXPLANATION	PHOTO # OF SUITABLE HABITAT?
<i>Amerorchis rotundifolia</i>	N		
<i>Aquilegia brevistyla</i>	Y		
<i>Astragalus lackschewitzii</i>	N		
<i>Botrychium crenulatum</i>	Y		
<i>Botrychium paradoxum</i>	Y		
<i>Cypripedium passerinum</i>	N		
<i>Cypripedium parviflorum</i>	N		
<i>Drosera anglica</i>	N		
<i>Drosera linearis</i>	N		
<i>Epipactis gigantea</i>	N		
<i>Goodyear repens</i>	Y		
<i>Grindelia howellii</i>	N		
<i>Micranthes tempestiva</i>	N		
<i>Oxytropis podocarpa</i>	N		
<i>Phlox kelseyi</i> v. <i>missouliensis</i>	Y	Found During Survey	
<i>Pinus albicaulis</i>	Y	present in area	
<i>Polygonum austinae</i>	Y		
<i>Schoenoplectus subterminalis</i>	N		
<i>Thalictrum alpinum</i>	N		
<i>Veratrum californicum</i>	Y		
<i>Spiranthes diluvialis</i>	N		

**SPECIAL HABITATS (fens, sphagnum-peat community, meadows, old growth, whitebark pine, etc)**

WBP habitat / present  
*Missoula Phlox* found in unit #3

**DISTURBANCE/RISK OF INVASION (circle all that apply)\*:**

- timber harvest,
- reforestation,
- adjacent to urban
- trails,
- hydroelectric,
- fuels reduction,
- vegetation mgt
- mining,
- erosion,
- other disturbance:
- recent fire,
- lack of vegetation,
- recreation use,
- invasive species,
- rangeland use,
- roads,
- wasteland/fill site,

Explain in greater detail any disturbance noted above:

Any new infestations found in the project area? (Include species; describe and provide GIS/GPS data for infestation)

All previously mapped

\*\*\*Attach a complete species list and a map with route surveyed.

Photo #s

SPECIES LIST AND LOCATION MAP(S)



Polytichum (juniperum)  
 Rubus ~~trasternus~~ adais  
 Vaccinium scopulorum  
 Ribes ~~lacustre~~ lacustre  
 Carex (felle) ~~cammer~~ geyeri  
 Koeleria micrantha  
 Campanula rotundifolia  
 Hieracium  
 Agrostis scabra  
 PICO  
 ABLA  
 (~~Arnica - not sure~~)  
 Pinus albicaulis  
 Heuchera  
 Huckleberry  
 V. 3 spp.  
 Arnica cordifolia  
 Lupinus sp.  
 Zethonia vupina  
 Chimophila (umbellata)  
 Epilobium angus  
 spp. 15 (Arnica?)  
 Lonicera  
 PICA !!  
 Penstemon (hairy, no flws)  
 Juniperus communis  
 Symphoricarpos  
 Veratrum viride

Fragaria vir  
 Taraxacum  
 Carex geyeri  
 some vaccinium  
 Phlox alpina  
 Abies las  
 Senecio sp.  
 Stipa nelsonii  
 oxeye daisy  
 Agrostis scabra  
 Elymus glaucus  
 Bryophyte -  
 Arnica cordifolia

Units 10/8  
 red polygens  
 open grassy meadows  
 Phlox  
 Stipa nelsonii  
 Fest. idahae  
 Fragaria  
 Taraxacum  
 Achillea  
 Senecio  
 Berus corinatus  
 Galium borealis  
 Campanula  
 Troopogen  
 Canada thistle  
 Astar  
 PICO along edge  
 Potentilla gracilis  
 Senecio trinaydenis  
 Epilobium albidum  
 Ranunculus  
 Geranium ~~richard~~  
 PSME  
 Elk poop, faecal evidence

Juniperus communis  
 Pinus albicaulis  
 Festuca idahonensis  
 Rosa woodsii  
 Campanula rotundifolia  
 Antennaria spp.  
 Pinus contorta  
 Geum triflorum  
 Achillea millefolium  
 Zigadenis venenosus  
 Pinus flexis  
 Allium spp.  
 Fragaria virginiana  
 Astragalus spp.  
 Stipa nelsonii  
 Glardia

Red unit next to Unit 9  
 PICO regen, small  
 Achillea mil  
 Lupinus (hair)  
 Epigean  
 plera  
 in mountain

