

APPENDIX H.

Special-Status Plant Survey Report

Rare Plant and Noxious Weeds Survey Technical Memorandum

To: Idaho Panhandle National Forests and Lolo National Forest
From: Matthew Vesh, Botanist/Wetland Scientist, SWCA Environmental Consultants
Date: July 16, 2015
Subject: Lookout Pass Ski Area Expansion EIS, Shoshone County, Idaho; Mineral County, Montana

INTRODUCTION

Lookout Pass Ski and Recreation Area has proposed to expand its ski area south and west of the current special-use permit boundary onto additional National Forest System (NFS) lands within the Idaho Panhandle National Forests (IPNFs) and Lolo National Forest (LNF). The Proposed Action would add approximately 100 acres of new ski trails and gladed terrain, and would include the installation of two new lifts (Lifts 5 and 6); an upgrade of Lift 1; construction of a new restroom, maintenance shop, and ski patrol building; and the addition of 130 new parking spaces. Also included would be 2.8 miles of new or reconstructed permanent road for administrative and maintenance use by the Forest Service and Lookout Pass Ski and Recreation Area, as well as 1.2 miles of temporary roads for timber harvest and construction access.

The project area is located approximately 12 miles east of Wallace, Idaho, along Interstate 90 on the Idaho-Montana border. The survey area includes the expected disturbance area for the expansion plus a 150-foot buffer.

RARE PLANTS AND NOXIOUS WEEDS SURVEY

Methodology

Two levels of investigation were conducted for the analysis of rare plants and noxious weeds in the survey area: a background review and field surveys.

Background Review

Information on the current status and condition of rare plants in the project area was derived from review of existing vegetation information and the personal knowledge and professional judgment of the Forest Service's regional botanist (Goodnow 2015).

Rare Plants Survey

Field surveys for rare plants were conducted from June 23 to June 27, 2015, by SWCA Environmental Consultants (SWCA) Botanists Matthew Vesh and Amanda Christensen. Controlled intuitive surveys were conducted during an appropriate time of year when rare plants are readily identifiable (late June), and in accordance with Forest Service guidance to target unique habitats and all suitable habitats having

potential to contain rare plants. SWCA botanists identified and surveyed suitable rare plant habitat within the existing road prism and within a 150-foot buffer. To account for ecological boundaries between rare plant metapopulations in different watersheds, surveys were further divided into separate rare plant surveys conducted in the Coeur d'Alene River and St. Regis River watersheds. Rare plant locations were mapped, photographed, and documented on data forms (Attachments A–C). Taxonomic determinations of all plant species were based on the work of Hitchcock and Cronquist (1973), Wilson et al. (2008), Farrar (2006), and Douglas et al. (1998a, 1998b, 1999a, 1999b, 2000, 2001a, 2001b, 2002).

Noxious Weeds Survey

Surveys for noxious weeds were conducted concurrently with rare plant surveys within disturbance areas and in a 150-foot buffer immediately surrounding the disturbance areas. The road prisms and existing ski trails where soil and vegetation have been previously disturbed provide habitat for invasive species.

Attachment D provides a list of state and county noxious weeds provided by local agencies.

Field Survey Results

One rare plant species and three noxious weed species were identified within the survey area. These results are summarized below, with Forest Service plant survey field forms provided in Attachment A.

Rare Plants

Whitebark Pine (*Pinus albicaulis*)

Whitebark pine was identified within the survey area. Suitable habitat was identified only within the St. Regis River watershed. Suitable on-site habitat consists of lodgepole pine (*Pinus contorta*)—dominant forest above 6,000 feet elevation on slopes with a southern aspect. Plant species co-occurring with this population include grouse whortleberry (*Vaccinium scoparium*), beargrass (*Xerophyllum tenax*), smooth woodrush (*Luzula hitchcockii*), and lodgepole pine. Eight individual plants were identified during the field survey, and all plants were less than 7 feet high (see photographs in Attachment B). An elemental occurrence form for this species is provided in Attachment C.

Noxious Weeds

Three noxious weed species were identified by SWCA during field surveys within the survey area.

Spotted Knapweed (*Centaurea stoebe*)

Spotted knapweed, a biennial forb in the Asteraceae family, is considered a widespread noxious weed in the IPNFs and LNF. Scattered individuals were identified on the east slope ski trail and in the grasslands near the proposed maintenance shop in the Coeur d'Alene River and St. Regis River watersheds.

Bull Thistle (*Cirsium vulgare*)

Bull thistle, a biennial forb in the Asteraceae family, is considered a widespread noxious weed in the IPNFs and LNF. A single plant was identified along Forest Service Road 18591 in the St. Regis River watershed.

Common St. John's-wort (*Hypericum perforatum*)

St. John's-wort, a perennial forb in the Asteraceae family, is considered a widespread noxious weed in the IPNFs and LNF. The plant was common and abundant along all roads and trails throughout the survey area in both the St. Regis River and Coeur d'Alene River watersheds.

LITERATURE CITED

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- Farrar, D.R. 2006. *Systematics of Moonworts: Botrychium Subgenus Botrychium*. Ames, IA: Department of Ecology, Evolution and Organismal Biology, Iowa State University.
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ATTACHMENT A

USDA Forest Service Plant Survey Field Form

**USDA FOREST SERVICE
PLANT SURVEY FIELD FORM
(® = Required Fields)**

General Information

1) SURVEY ID: ® 01 12 05 S#1		2) SURVEY NAME: Lookout Pass Expansion		
3) SURVEY STATUS: ® Completed Survey		4) TARGET: ® <u>TESP</u> ; INPA; BOTH		5) SOURCE OF WORK:
6) Survey Type: ® Focused (Intuitive Controlled)				
7) Survey Focus: ® Terrestrial, Riparian, and Aquatic				
8) Estimate of Survey Area Size (acres):			9) No. of Traverses:	
10) Elevation: Min:		Max:		Average:
				11) Elevation UOM:
12) State: ®	13) County: ®	14) Region: ®	15) Forest: ®	16) District: ®
Montana	Mineral	Northern	Lolo	Superior
Idaho	Shoshone	Northern	Idaho Panhandle	Coeur d'Alene
17) Parameters of Survey (<i>Describe any ecological parameters, survey criteria or combinations of these used to focus the survey. (I.e., north slopes, specific habitat types, certain soils within certain forest conditions, survey timing, etc.):</i>)				
18) Survey Comments (<i>Directions, area description, specific comments by visit date, etc.):</i>)				

Survey Visits

Required. Enter a Date (MM/DD/YYYY) and Examiners for each visit made.

19) VISIT DATE ®	20) LAST NAME ® AND FIRST NAME ® OF EXAMINERS FOR EACH VISIT
6/23/2015	Vesh, Matthew and Christensen, Amanda
6/24/2015	Vesh, Matthew and Christensen, Amanda
6/25/2015	Vesh, Matthew and Christensen, Amanda
6/26/2015	Vesh, Matthew and Christensen, Amanda
6/27/2015	Vesh, Matthew and Christensen, Amanda

Target Species

Required. List all targeted plant species (TES, INPA, special forest products, or other species of concern) that are the focus of the survey. It may be helpful to separate TES from INPA species by page or block if survey is for both purposes. Enter all the species individually using the NRCS *PLANTS* code and/or scientific name. All columns are required.

21) ® NRCS Plant Code	22) ® Scientific name	23) ® Suitable habitat found	24) ® Plant found	25) ® FS Site ID(s) for EOs (If EO forms completed)
ASTR	<i>Asplenium trichomanes</i>	yes	no	
BLSP	<i>Blechnum spicant</i>	yes	no	
BOAS	<i>Botrychium ascendens</i>	yes	no	
BOCR	<i>B. crenulatum</i>	yes	no	
BOLA	<i>B. lanceolatum</i>	yes	no	
BOLI	<i>B. lineare</i>	yes	no	
BOMI	<i>B. minganense</i>	yes	no	
BOMO	<i>B. montanum</i>	yes	no	
BOPA	<i>B. paradoxum</i>	yes	no	
BOPE	<i>B. pedunculatum</i>	yes	no	
BOPI	<i>B. pinnatum</i>	yes	no	
BOSI	<i>B. simplex</i>	yes	no	
BUAP	<i>Buxbaumia aphylla</i>	yes	no	
BUAP	<i>Buxbaumia aphylla</i>	yes	no	
CABU	<i>Carex buxbaumii</i>	yes	no	
CYFA	<i>Cypripedium fasciculatum</i>	yes	no	
CYPA	<i>C. parviflorum</i> var. <i>pubescens</i>	no	no	
GAHI	<i>Gaultheria hispida</i>	yes	no	
GRBR	<i>Grimmia brittoniae</i>	yes	no	
HOLU	<i>Hookeria lucens</i>	yes	no	
LYDE	<i>Lycopodium dendroideum</i>	yes	no	
MIAL	<i>Mimulus alsinoides</i>	yes	no	
PHCO	<i>Phegopteris connectilis</i>	yes	no	
PIAL	<i>Pinus albicaulis</i>	yes	yes	01 12 05 EO#1
POBR	<i>Polystichum braunii</i>	yes	no	
RHNU	<i>Rhizomnium nudum</i>	yes	no	
STST	<i>Streptopus streptopoides</i>	yes	no	
THNE	<i>Thelypteris nevadensis</i>	yes	no	
TROC	<i>Triantha occidentalis</i> spp. <i>brevistyla</i>	no	no	
WAID	<i>Waldstenia idahoensis</i>	yes	no	
HOAQ	<i>Howellia aquatilis</i>	no	no	
SISP	<i>Silene spaldingii</i>	no	no	

Optional Location Information

Location information to represent the survey area may be recorded,
in addition to entering the spatial feature in the application

35) USGS Quad Number:	36) USGS Quad Name:
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37) Forest Quad Number:	38) Forest Quad Name:
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39) Legal Description: Required where public land survey is available.

Meridian:	Township and Range:
Section: _____	Q Sec: _____ QQ Sec: _____ QQQ Sec: _____ QQQQ Sec: _____

40) Latitude and Longitude (either in degrees, minutes, seconds or in decimal degrees)

Geodetic Datum:		
Latitude: Degrees ____ N	Minutes	Seconds ____.
Longitude: Degrees ____ W	Minutes	Seconds ____.
GPS Datum:		
GPS Lat. Dec. Degrees:	GPS Long. Dec. Degrees:	

41) UTM

UTM Datum:	UTM Zone:
Easting: _____	Northing: _____

42) GPS Equipment: Manufacturer:	Model:
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43) Metes and Bounds

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44) Directions to Survey Area

45) Sketch of Survey Area

	
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ATTACHMENT B

Whitebark Pine Site Photographs



Figure B1. Whitebark pine habitat.



Figure B2. Whitebark pine.

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ATTACHMENT C

USDA Forest Service TES Plant Element Occurrence Field Form

TES PLANT ELEMENT OCCURRENCE - FIELD FORM - USDA FOREST SERVICE

Ⓡ = required field, Ⓡ* = conditionally required field

General Information

1) FS SITE ID: Ⓡ 01 12 05 EO#1		2) DATE: Ⓡ 6/25/15	3) SITE NAME: Lookout Pass Exp
4) NRCS PLANT CODE: Ⓡ PIAL			
5) SCIENTIFIC NAME: Ⓡ Pinus albicaulis			
6) RECORD SOURCE: Ⓡ FS	7) SURVEY ID: Ⓡ*		8) Survey Name:
9) EXAMINER(S)- LAST: Ⓡ Vesh		FIRST: Ⓡ Matthew	MIDDLE INITIAL: A
LAST: Christensen		FIRST: Amanda	MIDDLE INITIAL:
10) OWNERSHIP: Ⓡ Lolo NF	11) Loc. Uncert: Ⓡ Aerial estimated	12) Uncert. Dist: Ⓡ* >6.25-25 m	
13) E.O. # 1	14) STATE: Ⓡ* Montana	15) COUNTY: Ⓡ* Mineral	
16) REGION: Ⓡ* North	17) FOREST: Ⓡ* Lolo	18) DISTRICT: Ⓡ* Superior	
19) Area (Est):		20) Area UOM: Ⓡ*	
21) Canopy Cover Method Ⓡ* (circle one): COVER PERCENT; DAUBEN; NRMCOV			

Element Occurrence Data

22) EO Canopy Cover: %Cov: or Cover Class Code:		23) Lifeform: Tree
24) Number of subpopulations:		XX) Plant Found (Revisit): Yes or No
25) Plant Count: >8	26) Count Type: Genets/Ramets/Undetermined	27) Count: <u>Actual</u> or Estimate
28) Revisit needed - <u>Yes</u> or No	29) Revisit Date:	
30) Revisit Justification:		
31) Phenology by % (Sum to 100%): Vegetative ___ Flower/Bud ___ Fruit/Dispersed ___ Seedlings/ Juvenile ___	32) Population Comments: (e.g., distribution, vigor, density, phenology, dispersal)	
33) Evidence of disease, competition, predation, collection, trampling, or herbivory: Yes ___ or No ___		
34) Evidence Comments:		
35) Pollinator observed – Yes or No 36) Pollinator type(s):		
37) Pollinator comments:		

Site Morphometry

38) Percent Slope:	39) Slope position:
40) Aspect: azimuth: or cardinal:	
41) Elev.: Ave: Min: Max:	42) Elev UOM: Ⓡ*

Soil Characteristics and Light Conditions

43) Substrate on which EO occurs:		
44) Parent Material:	45) Soil Moisture:	46) Soil Texture:
47) Soil Type:		48) Light Exposure:

Site Classifications

Record taxonomic units of the given type(s) if published classifications exist for the area.			
CLASSIFICATION TYPE	CLASS CODE	CLASSIFICATION SHORT NAME	CLASSIFICATION SET
49) Existing Veg			
50) Potential Veg			
51) Ecotype			

Habitat Quality and Management Comments

52) Habitat Description: Mapped as PICO in FS6040 DOM. South aspect with 60% PICO cover of which 50% of PICO is standing dead/snag. Understory dominants include XETE and VASC; LUHI common.	
53) Dominant Process:	
54) Community Quality (L, M, H):	55) Landscape Integrity (L, M, H):
56) Process Comment:	
57) Disturbance/Threats (present or imminent):	
58) Disturbance/Threats Comment:	
59) Non-Native Comment:	
60) Current Land Use Comment:	

Canopy Cover

Record % canopy cover by actual percent, <i>or</i> by cover class (as indicated in General Information Block).			
Lifeform Canopy Cover	61) % Cov or Code	Ground Cover	62) % Cov or Code
Tree		Bare	
Shrub		Gravel	
Forb		Rock	
Graminoid		Bedrock	
Non-vascular		Moss	
Lichen		Litter/Duff	
Algae		Basal Veg	
		Water	
		Road surface	
		Lichen	

Image Information

77) Image ID	78) Image Description

Location Information

(State, County, Region, Forest, District will be auto-populated by the database application when the spatial feature is entered)

79) USGS Quad Number:	80) USGS Quad Name:
81) Forest Quad Number:	82) Forest Quad Name:

83) Legal Description: Required where public land survey is available.

Meridian: _____ Township and Range: _____
 Section: _____ Q Sec: _____ QQ Sec: _____ QQQ Sec: _____ QQQQ Sec: _____

84) Latitude and Longitude (either in degrees, minutes, seconds or in decimal degrees)

Geodetic Datum:
 Latitude: Degrees ____ N Minutes Seconds _____.____
 Longitude: Degrees ____ W Minutes Seconds _____.____
 GPS Datum:
 GPS Lat. Dec. Degrees: 47.44201 N GPS Long. Dec. Degrees: 115.74090 W

85) UTM

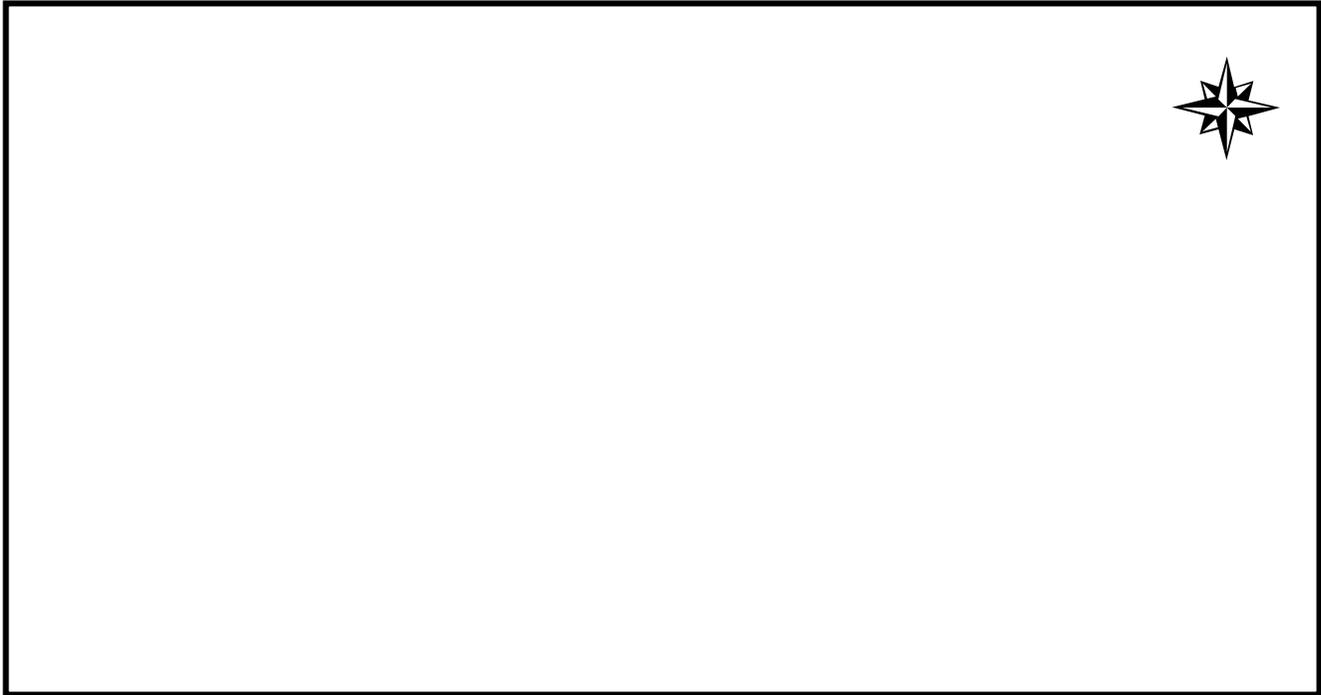
UTM Datum: _____ UTM Zone: _____
 Easting: _____ Northing: _____

86) GPS Equipment Used (Manufacturer and Model):

87) Metes and Bounds

88) Directions to Site

89) Sketch of Site or Area



90) General EO Comments

ATTACHMENT D

State and County Noxious Weeds Lists

Montana Noxious Weed List

Effective: July 2015

PRIORITY 1A These weeds are not present or have a very limited presence in Montana. Management criteria will require eradication if detected, education, and prevention:

- (a) Yellow starthistle (*Centaurea solstitialis*)
- (b) Dyer's woad (*Isatis tinctoria*)
- (c) Common Reed (*Phragmites australis ssp. australis*)

PRIORITY 1B These weeds have limited presence in Montana.

Management criteria will require eradication or containment and education:

- (a) Knotweed complex (*Polygonum cuspidatum*, *P. sachalinense*, *P. x bohemicum*, *Fallopia japonica*, *F. sachalinensis*, *F. x bohémica*, *Reynoutria japonica*, *R. sachalinensis*, and *R. x bohémica*)
- (b) Purple loosestrife (*Lythrum salicaria*)
- (c) Rush skeletonweed (*Chondrilla juncea*)
- (d) Scotch broom (*Cytisus scoparius*)

PRIORITY 2A These weeds are common in isolated areas of Montana. Management criteria will require eradication or containment where less abundant. Management shall be prioritized by local weed districts:

- (a) Tansy ragwort (*Senecio jacobaea*, *Jacobaea vulgaris*)
- (b) Meadow hawkweed complex (*Hieracium caespitosum*, *H. praealtum*, *H. floridundum*, and *Pilosella caespitosa*)
- (c) Orange hawkweed (*Hieracium aurantiacum*, *Pilosella aurantiaca*)
- (d) Tall buttercup (*Ranunculus acris*)
- (e) Perennial pepperweed (*Lepidium latifolium*)
- (f) Yellowflag iris (*Iris pseudacorus*)
- (g) Blueweed (*Echium vulgare*)
- (h) Eurasian watermilfoil (*Myriophyllum spicatum*)
- (i) Flowering rush (*Butomus umbellatus*)

PRIORITY 2B These weeds are abundant in Montana and widespread in many counties. Management criteria will require eradication or containment where less abundant. Management shall be prioritized by local weed districts:

- (a) Canada thistle (*Cirsium arvense*)
- (b) Field bindweed (*Convolvulus arvensis*)
- (c) Leafy spurge (*Euphorbia esula*)
- (d) Whitetop (*Cardaria draba*, *Lepidium draba*)
- (e) Russian knapweed (*Acroptilon repens*, *Rhaponticum repens*)
- (f) Spotted knapweed (*Centaurea stoebe*, *C. maculosa*)
- (g) Diffuse knapweed (*Centaurea diffusa*)
- (h) Dalmatian toadflax (*Linaria dalmatica*)
- (i) St. Johnswort (*Hypericum perforatum*)
- (j) Sulfur cinquefoil (*Potentilla recta*)
- (k) Common tansy (*Tanacetum vulgare*)
- (l) Oxeye daisy (*Leucanthemum vulgare*)
- (m) Houndstongue (*Cynoglossum officinale*)
- (n) Yellow toadflax (*Linaria vulgaris*)
- (o) Saltcedar (*Tamarix spp.*)
- (p) Curlyleaf pondweed (*Potamogeton crispus*)
- (q) Hoary alyssum (*Berteroa incana*)

Priority 3 Regulated Plants: (NOT MONTANA LISTED NOXIOUS WEEDS)

These regulated plants have the potential to have significant negative impacts. The plant may not be intentionally spread or sold other than as a contaminant in agricultural products. The state recommends research, education and prevention to minimize the spread of the regulated plant.

- (a) Cheatgrass (*Bromus tectorum*)
- (b) Hydrilla (*Hydrilla verticillata*)
- (c) Russian olive (*Elaeagnus angustifolia*)
- (d) Brazilian waterweed (*Egeria densa*)
- (e) Parrot feather watermilfoil (*Myriophyllum aquaticum* or *M. brasiliense*)

Mineral County Noxious Weed List

Noxious Weeds in Mineral County are those designated noxious by the Montana Department of Agriculture (Priority 1A, 1B, 2A, 2B and 3) in addition to weeds declared noxious by the Mineral County Weed Board (Category 4) and are prioritized accordingly.

PRIORITY 1A

Yellow Starthistle (*Centaurea solstitialis*)
Dyer's woad (*Isatis tinctoria*)

Common Reed (*Phragmites australis ssp. Australis*)

These weeds are not present or have limited presence in Montana. Management criteria will require eradication if detected; education, and prevention.

PRIORITY 1B

Purple loosestrife or lythrum (*Lythrum salicaria*, *L. virgatum*, and any hybrid crosses thereof)
Japanese knotweed complex (*Polygonum cuspidatum*, *P. sachalinense* & *P. polystachyum*)

Scotch broom (*Cytisus scoparius*)
Rush skeletonweed (*Chondrilla juncea*)

These weeds have limited presence in Montana. Management criteria in Mineral County will require eradication and containment if possible, in addition to education.

PRIORITY 2A

Tansy ragwort (*Senecio jacobaea*)
Meadow hawkweed complex (*Hieracium* spp.)
Orange hawkweed (*Hieracium aurantiacum*)
Tall buttercup (*Ranunculus acris*)
Perennial pepperweed (*Lepidium latifolium*)

Yellow flag iris (*Iris pseudacorus*)
Blueweed (*Echium vulgare*)
Eurasian water milfoil (*Myriophyllum spicatum*)
Flowering rush (*Butomus umbellatus*)

These weeds are common in isolated areas of Montana. Management criteria will require eradication or containment where less abundant. Prevention, education and continued management are priorities for these weeds in Mineral County.

PRIORITY 2B

Canada thistle (*Cirsium arvense*)
Field bindweed (*Convolvulus arvensis*)
Leafy spurge (*Euphorbia esula*)
Whitetop (*Cardaria draba*)
Russian knapweed (*Centaurea repens*)
Spotted knapweed (*Centaurea stoebe* or *maculosa*)
Diffuse knapweed (*Centaurea diffusa*)
Dalmatian toadflax (*Linaria dalmatica*)
St. Johnswort (*Hypericum perforatum*)

Sulfur cinquefoil (*Potentilla recta*)
Common tansy (*Tanacetum vulgare*)
Oxeye daisy (*Chrysanthemum leucanthemum* or *Leucanthemum vulgare*)
Houndstongue (*Cynoglossum officinale*)
Yellow toadflax (*Linaria vulgaris*)
Saltcedar (*Tamarix* spp.)
Curlyleaf pondweed (*Potamogeton crispus*)
Hoary alyssum (*Berteroa incana*)

These weeds are abundant in Montana and widespread in many counties. Management criteria will require eradication or containment where less abundant. Prevention, education and continued management are priorities for these weeds in Mineral County.

PRIORITY 3 (Regulated Plants)

Cheatgrass (*Bromus tectorum*)

Hydrilla (*Hydrilla verticillata*)

Russian olive (*Eleagnus angustifolia*)

Brazilian waterweed (*Egeria densa*)

Parrot feather watermilfoil (*Myriophyllum aquaticum* or
M. brasiliense)

These regulated plants have the potential to have significant negative impacts. The plant may not be intentionally spread or sold other than as a contaminant in agricultural products. The state recommends research, education and prevention to minimize the spread of the regulated plant.

CATEGORY 4

Common mullein (*Verbascum thapsus*)

Scentless chamomile (*Matricaria perforata*)

Mayweed (Dogfennel) (*Anthemis cotula*)

Category 4 noxious weeds have been determined by the Weed Board to pose significant threat to the natural resources of Mineral County. These weeds are capable of rapid spread and invasion of lands, rendering lands unfit for beneficial uses. Management criteria include awareness and education, monitoring and containment of known infestations and eradication where possible.

