

Appendix D: Biophysical Settings and Species Lists

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Introduction

This appendix provides a summary of the plant communities associated with the biophysical settings developed for the Flathead National Forest, and forms the basis for many forest plan components related to vegetation and wildlife habitat. Also provided in the tables are lists of wildlife, plant, fish, and aquatic and terrestrial invertebrate species and their association with the biophysical settings and habitats on the Forest.

Description of Biophysical Settings

Lands across the Flathead National Forest have been grouped into *biophysical settings*, based on broad climatic and site conditions, for purposes of analysis at the forest-wide scale and development of forest plan components. Biophysical settings serve as a basis for description of certain ecological conditions across the forest and are useful to understand the various ecosystems on the forest, their potential productivity, natural biodiversity, and what kind of processes sustain these conditions. In contrast, *plant communities* refer to the existing vegetation types that occur across the landscape at any one point in time. The same plant community may exist on more than one biophysical setting. Discussion and classifications used for the existing plant communities (e.g., vegetation dominance types) are found in appendix 2 of the DEIS, where the vegetation and timber analysis process is described in detail, and references therein. The development of the biophysical settings used for the draft revised forest plan is described below.

Biophysical settings are groupings of potential vegetation types (PVTs), which in turn are groupings of similar habitat types¹. Habitat types are an aggregation of ecological sites of like biophysical environments (such as climate, aspect, soil characteristics) that produce plant communities of similar composition, structure and function. The vegetation communities that would develop over time given no major natural or human disturbances (i.e., the climax plant community) would be similar within a particular habitat type or potential vegetation type map unit. However, the existing vegetation condition or plant community would vary widely, reflecting each site's unique history, forest character, pattern of disturbances, and point in time along the successional pathways.

The biophysical settings used in the Flathead Forest revised plan are consistent with the Region 1 Broad potential vegetation type groups, as described by Milburn and others² in the publication *Region 1 Existing and Potential Vegetation Groupings used for Broad-level Analysis and Monitoring*. Biophysical settings are important considerations in the analysis of vegetation and wildlife habitat conditions, and informed the development of desired conditions and other plan components. Table D-1 provides the acres and proportion of each biophysical setting within the geographic areas (GAs) and within management area groups on the Flathead National Forest. This information provides insight into the distribution of biophysical settings, and the pattern of environmental and vegetative conditions across the forest. Appendix B of the proposed action contains maps displaying biophysical settings.

¹ Habitat types are described in detail in: Pfister, Robert D., Bernard L. Kovalchik, Stephen F. Arno, and Richard C. Presby. 1977. Forest habitat types of Montana. USDA Forest Service General Technical Report INT-34. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 174p.

² Milburn, Amanda; Bollenbacher, Barry, Manning Mary, and Bush, Renate. 2015. Region 1 Existing and Potential Vegetation Groupings used for Broad-level Analysis and Monitoring. R1 Veg. Classification, Mapping, Inventory and Analysis report 15-4 v1.0. USDA Forest Service, Region 1, Missoula, MT. November 13, 2015. http://fswb.r1.fs.fed.us/forest/inv/r1_tools/R1_allVeg_Groups.pdf

Table D-1. Percent and acres (ac) of each biophysical setting on NFS lands within the GAs

Biophysical setting	Hungry Horse GA	Middle Fork GA	North Fork GA	Salish Mtn GA	South Fork GA	Swan Valley GA	Total Percent & Acres Forestwide
Warm-Dry	5% 13,200	5% 17,600	2% 6,200	18% 48,400	14% 109,100	8% 28,000	9% 222,500
Warm-Moist	2% 6,200	<1% 800	4% 13,000	5% 13,000	<1% 600	20% 72,700	4% 106,300
Cool-Moist/ Moderately Dry	85% 242,800	75% 275,300	72% 228,100	76% 198,900	58% 459,700	57% 207,300	68% 1,612,100
Cold	6% 17,100	14% 53,000	21% 67,400	1% 1,800	21% 163,700	9% 32,500	14% 335,500
Grass/forb/shrub Hardwood Non-forest	2% 5,900	6% 21,900	1% 4,300	<1% 300	7% 54,300	6% 22,000	5% 108,700
Total acres¹	285,200	368,600	319,000	262,400	787,400	362,500	2,385,200

1. Excludes water. All acre figures in the table are estimates and rounded to nearest 100 acres. They do not match exactly with acres in other sections of the proposed action, due to variations resulting from the GIS analysis process and the exclusion of water. . Data source: Flathead National Forest GIS Library, R1 VMap layer (2009, updated to 2012 for changes due to disturbances), joined with potential vegetation types GIS layer, US Forest Service - Region One, "Potential Vegetation Type (PVT) Classification of Western Montana and Northern Idaho", completed in 2004 by Jeff Jones, Northern Region, National Fire Plan Cohesive Strategy Team.

Table D-2 shows the biophysical settings by management area groupings forestwide. **This table will be completed for the preferred alternative at the final environmental impact statement stage.**

Table D-2. Percent and acres of biophysical settings by management area groupings forestwide.

Biophysical Setting	MA 1a	MA 1b	MA 2a, 2b, 3a, 4a, 4b- Coram Exp Forest	MA 5a, 5b, 5c, 5d	MA 6a, 6b, 6c, 4b- Miller Cr Dem For	MA 7
Warm-Dry						
Warm-Moist						
Cool-Moist/ Moderately Dry						
Cold						
Grass/forb/shrub Hardwood, NonFor						
Total acres						

Mapping of potential vegetation types was completed across the Forest Service Northern Region in 2004, using data sources that included field plots, remote sensing and modeling³. Table D-3 displays the habitat types and potential vegetation types on the Flathead National Forest and how they are grouped into each biophysical setting. The initial potential vegetation type groups used for discussion of vegetation

³ USDA, Region 1, Forest Service. 2004. Potential Vegetation Type (PVT) Classification of Western Montana and Northern Idaho. Forest Service Northern Region, Missoula MT. www.fs.usda.gov/detailfull/r1/landmanagement/gis/

conditions in the Flathead Assessment⁴ are also provided in table d-3, to facilitate the use and understanding of information published in the Assessment, if desired.

Table D-3. Potential vegetation types (PVTs) and biophysical settings used in analysis on the Flathead National Forest Plan revision process

Habitat Types ^a	PVT Description – FS Region 1 ^b	PVT Code	Assessment ^b PVT Group	Modified Proposed Action Biophysical Setting
<i>pinpon</i> ; <i>pinpon/andx</i> ; <i>pinpon/agrsp</i> ; <i>pinpon/fesida</i> ; <i>pinpon/phymal</i> ; <i>pinpon/purtri</i> ; <i>pinpon/sitcom</i> ; <i>pinpon/symalb</i>	<i>Pinus ponderosa</i> (Ponderosa Pine)	pipo	warm, dry	warm dry
<i>psemen/agrsp</i> ; <i>psemen/fesida</i> ; <i>psemen/fessca</i>	<i>Pseudotsuga menziesii</i> (Douglas-fir) warm dry type 1	psme1	warm, dry	warm dry
<i>psemen/corsto</i> ; <i>psemen/linbor</i> ; <i>psemen/phymal</i> ; <i>psemen/symalb</i> ; <i>psemen/vacca</i> ; <i>psemen/vacces</i> ; <i>psemen/vacsco</i> ; <i>psemen/vacglo</i> ; <i>psemen/xerten</i> ; <i>psemen/vacmem</i>	<i>Pseudotsuga menziesii</i> (Douglas-fir) moist type 2	psme2	warm, dry	warm dry
<i>psemen/arcuva</i> ; <i>psemen/arncor</i> ; <i>psemen/calrub</i> ; <i>psemen/cargey</i> ; <i>psemen/juncom</i> ; <i>psemen/spibet</i>	<i>Pseudotsuga menziesii</i> (Douglas-fir) cool dry type 3	psme3	warm, dry	warm dry
<i>abigra/linbor</i> ; <i>abigra/vacglo</i> ; <i>abigra/xerten</i> ; <i>abigra/vacmen</i>	<i>Abies grandis</i> (Grand Fir) moist type 2	abgr2	warm, dry	warm dry
<i>abigra/asacau</i> ; <i>abigra/cliuni</i> ; <i>abigra/sentri</i>	<i>Abies grandis</i> (Grand Fir) wet type 3	abgr3	warm, moist	warm moist
<i>thupli/asacau</i> ; <i>thupli/cliuni</i>	<i>Thuja plicata</i> (Western Red Cedar) moist type 2	thpl2	warm, moist	warm moist
<i>abilas/arncor</i> ; <i>abilas/calrub</i> ; <i>abilas/cargey</i> ; <i>abilas/vacca</i> ; <i>abilas/vacglo</i> ; <i>abilas/vacsco</i> ; <i>abilas/xerten</i> ; <i>pincon/vacglo</i>	<i>Abies lasiocarpa</i> (Subalpine Fir) dry type 3	abla3	cool, mod. dry	cool moist to mod. dry
<i>pincon</i> ; <i>pincon/calrub</i> ; <i>pincon/linbor</i> ; <i>pincon/vacca</i> ; <i>pincon/vacsco</i> ; <i>pincon/xerten</i>	<i>Pinus contorta</i> (Lodgepole Pine)	pico	cool, mod. dry	cool moist to mod. dry
<i>tsumer/luzhit</i> ; <i>tsumer/menfer</i> ; <i>tsumer/xerten</i>	<i>Tsuga mertensiana</i> (Mtn. Hemlock)	tsme	cool, mod. dry	cool moist to mod. dry
<i>abilas/alnsin</i> ; <i>abilas/menfer</i>	<i>Abies lasiocarpa</i> (Subalpine Fir) moist type 2	abla2	cool, moist	cool moist to mod. dry
<i>abilas/cliuni</i> ; <i>abilas/linbor</i>	<i>Abies lasiocarpa</i> (Subalpine Fir) moist type 2	abla2	cool, moist	cool moist to mod. dry

⁴ USDA, Forest Service. 2014. Assessment of the Flathead National Forest. Available online at www.fs.usda.gov/goto/flathead/fpr.

Habitat Types ^a	PVT Description – FS Region 1 ^b	PVT Code	Assessment ^b PVT Group	Modified Proposed Action Biophysical Setting
<i>piceng</i> ; <i>piceng/calcan</i> ; <i>piceng/cliuni</i> ; <i>piceng/corsto</i> ; <i>piceng/equarv</i> ; <i>piceng/galtri</i> ; <i>piceng/linbor</i> ; <i>piceng/phymal</i> ; <i>piceng/senstr</i> ; <i>piceng/smiste</i> ; <i>piceng/vacces</i>	<i>Picea</i> (Spruce)	picea	cool, moist	cool moist to mod. dry
<i>tsuhet/asacau</i> ; <i>tsuhet/athfil</i> ; <i>tsuhet/cliuni</i> ; <i>tsuhet/gymdry</i> ; <i>tsuhet/menfer</i>	<i>Tsuga heterophylla</i> (Western Hemlock)	tshe	cool, moist	warm moist
<i>abilas/calcan</i> ; <i>abilas/descae</i> ; <i>abilas/galtri</i> ; <i>abilas/oplhor</i> ; <i>abilas/salix</i> ; <i>abilas/stramp</i>	<i>Abies lasiocarpa</i> (Subalpine Fir) wet type 1	abla1	cool, wet	cool moist to mod. dry
<i>thupli/adiped</i> ; <i>thupli/athfil</i> ; <i>thupli/gymdry</i> ; <i>thupli/oplhor</i>	<i>Thuja plicata</i> (Western Red Cedar) wet type 1	thpl1	cool, wet	warm moist
<i>abilas/luzhit</i> ; <i>abilas/pinalb</i> ; <i>abilas/ribmon</i>	<i>Abies lasiocarpa</i> (Subalpine Fir) cold type 4	abla4	cold	cold
<i>larlya</i> ; <i>larlya/abilas</i>	<i>Larix lyallii</i> (Subalpine Larch)	laly	cold	cold
<i>pinalb</i> ; <i>pinalb/abilas</i>	<i>Pinus albicaulis</i> (Whitebark Pine)	pial	cold	cold

- a. Pfister et al, 1977, with the difference being the five letter abbreviation for species, rather than the four letter abbreviation in the Pfister publication.
- b. USDA, Forest Service. 2014. Assessment of the Flathead National Forest. Available online at www.fs.usda.gov/goto/flathead/fpr.

Species Lists

The following table lists species and their association with the diverse ecosystems and habitats of the Flathead National Forest. Table D-4 lists species and their status (e.g., Montana Natural Heritage Program statewide ranking, previously identified as sensitive for the state of Montana and known or suspected to occur on the Flathead National Forest, species listed by the USFWS under the Endangered Species Act, species of conservation concern designated by the Regional Forester for the draft environmental impact statement). Neotropical migratory species are also identified.

Table D-4. Wildlife species, species status, and habitat associations for the Flathead National Forest

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Acanthis flammea</i> Common Redpoll	G5 S5N	X							X	X	
<i>Acanthis hornemannii</i> ⁵ Hoary Redpoll	G5 SNA	X								X	
<i>Accipiter cooperii</i> Cooper's Hawk	G5 S4B	X						X	X	X	X
<i>Accipiter gentilis</i> Northern Goshawk	G5 S3	X	X	X					X	X	X
<i>Accipiter striatus</i> Sharp-shinned Hawk	G5 S4B	X							X	X	X
<i>Actitis macularius</i> Spotted Sandpiper	G5 S5B	X						X	X	X	
<i>Aechmophorus occidentalis</i> Western Grebe	G5 S4B							X			
<i>Aegolius acadicus</i> Northern Saw-whet Owl	G5 S4	X		X					X	X	X

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Aegolius funereus</i> Boreal Owl	G5 S3S4		X	X						X	X
<i>Aeronautes saxatalis</i> White-throated Swift	G5 S5B				Alpine, bedrock, and scree		X				X
<i>Agelaius phoeniceus</i> Red-winged Blackbird	G5 S5B	X					X	X			
<i>Aix sponsa</i> Wood Duck	G5 S5B			X		X		X			
<i>Alces americanus</i> Moose	G5 S4				Burned forest	X		X	X	X	
<i>Ambystoma macrodactylum</i> Long-toed Salamander	G5 S4							X	X	X	X
<i>Ambystoma mavortium</i> Tiger Salamander	G5 S4	X						X			
<i>Ammodramus savannarum</i> Grasshopper Sparrow	G5 S4B	X					X		X	X	
<i>Anas acuta</i> Northern Pintail	G5 S5B	X				X		X			
<i>Anas americana</i> American Wigeon	G5 S5B					X		X			
<i>Anas clypeata</i> Northern Shoveler	G5 S5B	X				X		X			

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Anas crecca</i> Green-winged Teal	G5 S5B					X		X			
<i>Anas cyanoptera</i> Cinnamon Teal	G5 S5B					X		X			
<i>Anas discors</i> Blue-winged Teal	G5 S5B					X		X			
<i>Anas penelope</i> ⁵ Eurasian Wigeon	G5 SNA					X		X	X		
<i>Anas strepera</i> Gadwall	G5 S5B					X		X			
<i>Anaxyrus boreas</i> Boreal (Western) Toad	G4 S2, on sensitive species list for FNF and adjacent forests			X	Burned forest			X	X	X	X
<i>Anthus rubescens</i> American Pipit	G5 S4B				Alpine			X	X		
<i>Aquila chrysaetos</i> Golden Eagle	G5 S3	X								X	X
<i>Archilochus alexandri</i> Black-chinned Hummingbird	G5 S4B	X					X	X	X		
<i>Ardea herodias</i> Great Blue Heron	G5 S3	X						X	X	X	
<i>Ascaphus montanus</i> Tailed Frog	G4 S4		X	X	Cold swift water			X			

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Asio flammeus</i> Short-eared Owl	G5 S4	X							X		
<i>Aythya affinis</i> Lesser Scaup	G5 S5B					X		X			
<i>Aythya americana</i> Redhead	G5 S5B					X		X			
<i>Aythya collaris</i> Ring-necked Duck	G5 S5B					X		X			
<i>Aythya marila</i> Greater Scaup	G5 SU					X		X			
<i>Aythya valisineria</i> Canvasback	G5 S5B					X		X			
<i>Bombycilla cedrorum</i> Cedar Waxwing	G5 S5B	X					X	X	X	X	X
<i>Bombycilla garrulus</i> Bohemian Waxwing	G5 S5N	X							X		X
<i>Bonasa umbellus</i> Ruffed Grouse	G5 S4	X		X		X		X	X	X	
<i>Botaurus lentiginosus</i> American Bittern	G4 S3B							X	X		
<i>Branta canadensis</i> Canada Goose	G5 S5B	X				X		X	X		
<i>Bubo scandiacus</i> ⁵ Snowy Owl	G5 SNA	X							X	X	
<i>Bubo virginianus</i> Great Horned Owl	G5 S5	X		X				X	X	X	X

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Bucephala albeola</i> Bufflehead	G5 S5B			X		X		X			
<i>Bucephala clangula</i> Common Goldeneye	G5 S5			X		X		X			
<i>Bucephala islandica</i> Barrow's Goldeneye	G5 S4			X		X		X		X	
<i>Buteo jamaicensis</i> Red-tailed Hawk	G5 S5B	X							X	X	X
<i>Buteo lagopus</i> Rough-legged Hawk	G5 S5N	X								X	X
<i>Buteo swainsoni</i> Swainson's Hawk	G5 S4B	X							X	X	
<i>Calidris alba</i> ⁵ Sanderling	G5 SNA	X						X			
<i>Calidris pusilla</i> ⁵ Semipalmated Plover	G5 SNA	X						X			
<i>Callospermophilus lateralis</i> Golden-mantled Ground Squirrel	G5 S4				Krummholz						X
<i>Canis latrans</i> Coyote	G5 S5	X				X ⁶			X	X	

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Canis lupus</i> Gray Wolf	G4 S4, on RF sensitive species list for FNF and adjacent forests	X				X		X	X	X	X
<i>Cardellina pusilla</i> Wilson's Warbler	G5 S5B	X					X	X	X		X
<i>Castor canadensis</i> Beaver	G5 S5	X				X		X	X	X	
<i>Cathartes aura</i> Turkey Vulture	G5 S4B	X			Cliffs		X		X	X	
<i>Catharus fuscescens</i> Veery	G5 S3B	X					X	X	X	X	
<i>Catharus guttatus</i> Hermit Thrush	G5 S5B		X				X		X	X	X
<i>Catharus ustulatus</i> Swainson's Thrush	G5 S5B	X	X				X		X	X	X
<i>Catherpes mexicanus</i> Canyon Wren	G5 S4									X	
<i>Certhia americana</i> Brown Creeper	G5 S3		X	X					X	X	
<i>Cervus canadensis</i> Elk	G5 S5	X			Burned forest	X			X	X	X
<i>Chaetura vauxi</i> Vaux's Swift	G5 S4B		X	X			X	X	X	X	

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Charadrius vociferus</i> Killdeer	G5 S5B	X						X	X		X
<i>Charina bottae</i> Rubber Boa	G5 S4							X	X	X	
<i>Chen caerulescens</i> Snow Goose	G5 S4N	X				X		X			
<i>Chlidonias niger</i> Black Tern	G4 S3B							X	X		
<i>Chordeiles minor</i> Common Nighthawk	G5 S5B	X					X		X		
<i>Chrysemys picta</i> Painted Turtle	G5 S4	X						X	X	X	
<i>Cinclus mexicanus</i> American Dipper	G5 S5							X			
<i>Circus cyaneus</i> Northern Harrier	G5 S4B	X						X	X	X	X
<i>Cistothorus palustris</i> Marsh Wren	G5 S5B	X						X	X		
<i>Coccothraustes vespertinus</i> Evening Grosbeak	G5 S3	X							X	X	X
<i>Colaptes auratus</i> Northern Flicker	G5 S5	X		X				X	X	X	X
<i>Columba livia</i> ⁵ Rock Pigeon	G5 SNA	X			Cliffs, buildings				X		

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Contopus cooperi</i> Olive-sided Flycatcher	G4 S4B	X		X	Burned forest		X		X	X	X
<i>Contopus sordidulus</i> Western Wood-Pewee	G5 S5B	X					X	X	X		
<i>Corvus brachyrhynchos</i> American Crow	G5 S5B								X	X	X
<i>Corvus corax</i> Common Raven	G5 S5	X							X		X
<i>Corynorhinus townsendii</i> Townsend's Big-eared Bat	G3G4, FNF SCC, on RF sensitive species list for FNF and adjacent forests	X		X	Caves			X	X		
<i>Molothrus ater</i> Brown-headed Cowbird	G5 S5B	X					X	X	X	X	
<i>Cyanocitta cristata</i> Blue Jay	G5 S5							X	X		X
<i>Cyanocitta stelleri</i> Steller's Jay	G5 S5	X							X	X	X
<i>Cygnus buccinator</i> Trumpeter Swan	G4 S3	X						X	X		
<i>Cygnus columbianus</i> ⁵ Tundra Swan	G5 SNA	X						X	X		

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Cypseloides niger</i> Black Swift	G4 S1B, FNF SCC				Waterfalls		X	X	X	X	X
<i>Dendragapus obscurus</i> Dusky Grouse	G5 S4	X				X			X	X	X
<i>Dolichonyx oryzivorus</i> ⁴ Bobolink	G5 S3B	X					X	X	X		
<i>Dryocopus pileatus</i> Pileated Woodpecker	G5 S3		X	X				X	X	X	X
<i>Dumetella carolinensis</i> Gray Catbird	G5 S5B	X					X	X	X	X	
<i>Elgaria coerulea</i> Northern Alligator Lizard	G5 S3				Rock				X		
<i>Empidonax hammondi</i> Hammond's Flycatcher	G5 S4B	X	X				X		X	X	X
<i>Empidonax minimus</i> Least Flycatcher	G5 S5B	X					X	X	X	X	
<i>Empidonax oberholseri</i> Dusky Flycatcher	G5 S5B	X			Burned forest		X		X	X	
<i>Empidonax occidentalis</i> Cordilleran Flycatcher	G5 S4B	X			Cliffs		X		X	X	

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<i>Empidonax traillii</i> Willow Flycatcher	G5 S4B	X					X	X	X		X
<i>Eptesicus fuscus</i> Big Brown Bat	G5 S4			X	Caves			X	X	X	
<i>Eremophila alpestris</i> Horned Lark	G5 S5	X								X	X
<i>Euphagus cyanocephalus</i> Brewer's Blackbird	G5 S5B	X					X	X	X		X
<i>Falcipennis canadensis</i> Spruce Grouse	G5 S4		X			X				X	
<i>Falco columbarius</i> Merlin	G5 S4	X					X		X		
<i>Falco mexicanus</i> Prairie Falcon	G5 S4	X					X		X		X
<i>Falco peregrinus</i> Peregrine Falcon	G4 S3, on RF sensitive species list for FNF and adjacent forests	X			Cliffs		X	X	X	X	X
<i>Falco sparverius</i> American Kestrel	G5 S5	X		X			X		X		X
<i>Fulica americana</i> American Coot	G5 S5B					X		X			
<i>Gallinago delicata</i> Wilson's Snipe	G5 S5	X				X		X	X		

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<i>Gavia immer</i> Common Loon	G5 S3B, on RF sensitive species list for FNF and adjacent forests							X			
<i>Geothlypis tolmiei</i> MacGillivray's Warbler	G5 S5B	X					X	X	X	X	X
<i>Geothlypis trichas</i> Common Yellowthroat	G5 S5B	X					X	X	X	X	X
<i>Glaucidium gnoma</i> Northern Pygmy-Owl	G4G5 S4	X		X					X	X	X
<i>Glaucomys sabrinus</i> Northern Flying Squirrel	G5 S4		X	X				X	X	X	
<i>Grus canadensis</i> Sandhill Crane	G5 S5BS2N	X						X	X	X	
<i>Gulo gulo</i> Wolverine	G4 S3, on RF sensitive species list for FNF and adjacent forests				Persistent snow	Trapping currently on hold			X	X	X
<i>Haemorhous cassinii</i> Cassin's Finch	G5 S3	X			Burned forest				X	X	X

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<i>Haemorhous mexicanus</i> House Finch	G5 S5	X							X	X	
<i>Haliaeetus leucocephalus</i> Bald Eagle	G5 S4, on RF sensitive species list for FNF and adjacent forests	X	X	X				X	X	X	X
<i>Hirundo rustica</i> Barn Swallow	G5 S5B	X					X	X	X	X	
<i>Histrionicus histrionicus</i> Harlequin Duck	G4 S2B, FNF SCC, on RF sensitive species list for FNF and adjacent forests		X	X	Cold swift water	X		X		X	
<i>Icterus bullockii</i> ⁴ Bullock's Oriole	G5 S5B	X					X	X	X	X	
<i>Ixoreus naevius</i> Varied Thrush	G5 S3B		X						X	X	X
<i>Junco hyemalis</i> Dark-eyed Junco	G5 S5B	X							X	X	X
<i>Lagopus leucura</i> White-tailed Ptarmigan	G5 S3	X			Alpine-Krumholzpe rsistent snow						X
<i>Lanius excubitor</i> Northern Shrike	G5 S5N	X							X	X	
<i>Larus californicus</i> California Gull	G5 S5B	X						X	X	X	

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<i>Larus delawarensis</i> Ring-billed Gull	G5 S5B	X						X		X	
<i>Lasionycteris noctivagans</i> Silver-haired Bat	G5 S4	X	X	X	Caves			X	X	X	
<i>Lasiurus cinereus</i> Hoary Bat	G5 S3	X			Caves			X	X	X	
<i>Lepus americanus</i> Snowshoe Hare	G5 S4	X						X	X	X	
<i>Leucosticte tephrocotis</i> Gray-crowned Rosy-Finch	G5 S2BS5N	X			Persistent snow					X	X
<i>Limnodromus scolopaceus</i> ⁵ Long-billed Dowitcher	G5 SNA	X						X			
<i>Lithobates catesbeianus</i> Bullfrog	G5							X			
<i>Lithobates pipiens</i> ⁴ Northern Leopard Frog	G5 S1S4, on RF sensitive species list for FNF and adjacent forests	X						X	X		
<i>Lontra canadensis</i> Northern River Otter	G5 S4					X		X	X	X	

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<i>Lophodytes cucullatus</i> Hooded Merganser	G5 S4			X		X		X			
<i>Loxia curvirostra</i> Red Crossbill	G5 S5									X	X
<i>Loxia leucoptera</i> White-winged Crossbill	G5 S4								X		X
<i>Lynx canadensis</i> Canada Lynx	G5 S3, Threatened		X	X					X (warm moist only)	X	X
<i>Lynx rufus</i> Bobcat	G5 S5	X		X		X		X	X	X	
<i>Marmota caligata</i> Hoary Marmot	G5 S3 S4	X			Alpine boulder fields					X	X
<i>Marmota flaviventris</i> Yellow-bellied Marmot	G5 S4								X		
<i>Martes americana</i> Marten	G5 S4		X	X		X			X	X	X
<i>Martes pennanti</i> Fisher	G5 S3, FNF SCC, on RF sensitive species list for FNF and adjacent forests		X	X		X			X	X	
<i>Megaceryle alcyon</i> Belted Kingfisher	G5 S5B	X					X	X	X	X	X

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<i>Megascops kennicottii</i> Western Screech-Owl	G5 S3S4	X		X				X	X	X	
<i>Melanerpes lewis</i> Lewis's Woodpecker	G4 S2B			X	Burned forest			X	X		
<i>Meleagris gallopavo</i> ⁵ Wild Turkey	G5 SNA	X				X		X	X		
<i>Melospiza lincolnii</i> Lincoln's Sparrow	G5 S5B	X					X	X	X	X	
<i>Melospiza melodia</i> Song Sparrow	G5 S5B	X						X	X	X	X
<i>Mephitis mephitis</i> Striped Skunk	G5 S5	X						X	X		
<i>Mergus merganser</i> Common Merganser	G5 S5B			X		X		X			
<i>Mergus serrator</i> ⁶ Red-breasted Merganser	G5 SNA					X		X			
<i>Microtus longicaudus</i> Long-tailed Vole	G5 S4							X	X	X	
<i>Microtus montanus</i> Montane Vole	G5 S5							X	X	X	
<i>Microtus pennsylvanicus</i> Meadow Vole	G5 S5	X						X	X	X	

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<i>Microtus richardsoni</i> Water Vole	G5 S4							X	X	X	
<i>Mustela erminea</i> Short-tailed Weasel	G5 S5	X				X		X	X	X	
<i>Mustela frenata</i> Long-tailed Weasel	G5 S5	X				X		X	X	X	
<i>Mustela nivalis</i> Least Weasel	G5 S4					X			X		
<i>Mustela vison</i> Mink (American)	G5 S5	X				X		X			
<i>Myadestes townsendi</i> Townsend's Solitaire	G5 S5	X			Burned forest				X	X	X
<i>Myodes gapperi</i> Southern Red-backed Vole	G5 S4		X	X				X	X	X	X
<i>Myotis californicus</i> California Myotis	G5 S4				Caves			X	X	X	
<i>Myotis ciliolabrum</i> Western Small-footed Myotis	G5 S4				Caves			X	X	X	
<i>Myotis evotis</i> Long-eared Myotis	G5 S4			X	Caves			X		X	
<i>Myotis lucifugus</i> Little Brown Myotis	G3 S4			X				X	X	X	

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<i>Myotis volans</i> Long-legged Myotis	G5 S4			X	Caves					X	
<i>Myotis yumanensis</i> Yuma Myotis	G5 S3S4			X				X			
<i>Neotoma cinerea</i> Bushy-tailed Woodrat	G5 S5			X	Caves, cliffs				X	X	
<i>Nucifraga columbiana</i> Clark's Nutcracker	G5 S3, FNF SCC				Whitebark pine				X	X	X
<i>Numenius americanus</i> Long-billed Curlew	G5 S3B	X						X			
<i>Ochotona princeps</i> Pika	G5 S4	X			Alpine talus, boulder fields					X	X
<i>Odocoileus hemionus</i> Mule Deer	G5 S5	X				X			X	X	X
<i>Odocoileus virginianus</i> White-tailed Deer	G5 S5	X				X		X	X	X	
<i>Ondatra zibethicus</i> Muskrat	G5 S5	X				X		X	X		
<i>Oreamnos americanus</i> Mountain Goat	G5 S4	X			Cliffs	X				X	X

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<i>Oreothlypis celata</i> Orange-crowned Warbler	G5 S5B	X					X		X	X	X
<i>Oreothlypis peregrina</i> Tennessee Warbler	G5 S3S4B						X	X		X	
<i>Oreothlypis ruficapilla</i> Nashville Warbler	G5 S5B	X					X		X	X	
<i>Otus flammeolus</i> Flammulated Owl	G5 S3B, FNF SCC, on RF sensitive species list for FNF and adjacent forests	X	X	X			X		X		
<i>Ovis canadensis</i> Bighorn Sheep	G4 S4, on RF sensitive species list for FNF and adjacent forests	X			Cliffs	X					X
<i>Oxyura jamaicensis</i> Ruddy Duck	G5 S5B					X		X			
<i>Pandion haliaetus</i> Osprey	G5 S5B	X		X			X	X	X	X	X
<i>Parkesia noveboracensis</i> Northern Waterthrush	G5 S5B	X					X	X		X	

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<i>Passer domesticus</i> ⁵ House Sparrow	G5 SNA	X		X		X ⁶			X	X	X
<i>Passerculus sandwichensis</i> Savannah Sparrow	G5 S5B	X					X		X	X	
<i>Passerella iliaca</i> Fox Sparrow	G5 S5B	X						X	X	X	X
<i>Passerina amoena</i> Lazuli Bunting	G5 S4B	X					X	X	X	X	
<i>Patagioenas fasciata</i> ⁵ Band-tailed Pigeon	G4 SNA								X		
<i>Perisoreus canadensis</i> Gray Jay	G5 S5								X	X	X
<i>Peromyscus maniculatus</i> Deer Mouse	G5 S5	X						X	X	X	X
<i>Petrochelidon pyrrhonota</i> Cliff Swallow	G5 S5B	X			Cliffs		X	X	X		X
<i>Phalacrocorax auritus</i> Double-crested Cormorant	G5 S5B							X		X	
<i>Phalaropus tricolor</i> Wilson's Phalarope	G5 S4B	X						X			

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<i>Phenacomys intermedius</i> Heather Vole	G5 S4							X	X	X	
<i>Pheucticus ludovicianus</i> ⁵ Rose-breasted Grosbeak	G5 SNA						X	X		X	
<i>Pheucticus melanocephalus</i> Black-headed Grosbeak	G5 S5B	X					X	X	X		X
<i>Pica hudsonia</i> Black-billed Magpie	G5 S5	X							X	X	
<i>Picoides arcticus</i> Black-backed Woodpecker	G5 S3, on RF sensitive species list for FNF and adjacent forests			X	Burned forest				X	X	X
<i>Picoides dorsalis</i> American Three-toed Woodpecker	G5 S4		X	X	Burned forest				X	X	X
<i>Picoides pubescens</i> Downy Woodpecker	G5 S5			X				X	X	X	X
<i>Picoides villosus</i> Hairy Woodpecker	G5 S5		X	X	Burned forest				X	X	X
<i>Pinicola enucleator</i> Pine Grosbeak	G5 S5	X	X						X	X	X

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<i>Pipilo maculatus</i> Spotted Towhee	G5 S5B	X						X		X	
<i>Piranga ludoviciana</i> Western Tanager	G5 S5B	X					X		X	X	X
<i>Pituophis catenifer</i> Gopher Snake	G5 S5	X							X		
<i>Anas platyrhynchos</i> Mallard	G5 S5					X		X			
<i>Plectrophenax nivalis</i> Snow Bunting	G5 S5N	X							X	X	
<i>Podiceps auritus</i> Horned Grebe	G5 S3B							X			
<i>Podiceps grisegena</i> Red-necked Grebe	G5 S4B							X			
<i>Podiceps nigricollis</i> Eared Grebe	G5 S5B							X			
<i>Podilymbus podiceps</i> Pied-billed Grebe	G5 S5B							X			
<i>Poecile atricapillus</i> Black-capped Chickadee	G5 S5	X		X				X	X	X	X
<i>Poecile gambeli</i> Mountain Chickadee	G5 S5			X					X	X	X

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<i>Poecile hudsonicus</i> Boreal Chickadee	G5 S3		X	X						X	X
<i>Poecile rufescens</i> Chestnut-backed Chickadee	G5 S4		X	X					X	X	X
<i>Poocetes gramineus</i> Vesper Sparrow	G5 S5B	X					X		X	X	
<i>Porzana carolina</i> Sora	G5 S5B	X						X			
<i>Procyon lotor</i> Raccoon	G5 S5	X		X		X ⁶		X	X		
<i>Pseudacris regilla</i> Pacific Treefrog	G5 S4	X						X	X	X	
<i>Puma concolor</i> Mountain Lion	G5 S4	X				X			X	X	X
<i>Quiscalus quiscula</i> ⁴ Common Grackle	G5 S5B	X						X	X		
<i>Rallus limicola</i> ⁴ Virginia Rail	G5 S5B							X	X		
<i>Rana luteiventris</i> Columbia Spotted Frog	G4 S4	X						X	X	X	X
<i>Rangifer tarandus caribou</i> ⁵ Woodland Caribou	G5T4 SX		X							X	
<i>Recurvirostra americana</i> American Avocet	G5 S4B							X	X		

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<i>Regulus calendula</i> Ruby-crowned Kinglet	G5 S5B						X		X	X	X
<i>Regulus satrapa</i> Golden-crowned Kinglet	G5 S5		X						X	X	X
<i>Riparia riparia</i> Bank Swallow	G5 S5B	X					X	X	X	X	X
<i>Sayornis saya</i> Say's Phoebe	G5 S5B	X					X			X	
<i>Selasphorus calliope</i> Calliope Hummingbird	G5 S5B	X					X	X	X	X	X
<i>Selasphorus rufus</i> Rufous Hummingbird	G5 S4B	X					X	X	X	X	X
<i>Setophaga coronata</i> Yellow-rumped Warbler	G5 S5B	X							X		X
<i>Setophaga petechia</i> Yellow Warbler	G5 S5B	X					X	X	X		
<i>Setophaga ruticilla</i> American Redstart	G5 S5B	X					X	X	X	X	
<i>Setophaga townsendi</i> Townsend's Warbler	G5 S5B		X				X		X	X	X
<i>Sialia currucoides</i> Mountain Bluebird	G5 S5B	X		X	Burned forest				X		X

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<i>Sialia mexicana</i> Western Bluebird	G5 S4B	X		X					X	X	
<i>Sitta canadensis</i> Red-breasted Nuthatch	G5 S5		X	X					X	X	X
<i>Sitta carolinensis</i> White-breasted Nuthatch	G5 S4		X	X				X	X		X
<i>Sitta pygmaea</i> Pygmy Nuthatch	G5 S4		X	X					X	X	
<i>Sorex cinereus</i> Masked Shrew	G5 S5	X						X	X	X	
<i>Sorex hoyi</i> Pygmy Shrew	G5 S3	X						X		X	
<i>Sorex monticolus</i> Dusky or Montane Shrew	G5 S5								X	X	
<i>Sorex palustris</i> Water Shrew	G5 S4							X	X	X	
<i>Sorex vagrans</i> Vagrant Shrew	G5 S4	X						X	X	X	
<i>Sphyrapicus nuchalis</i> Red-naped Sapsucker	G5 S4B			X			X	X	X	X	X
<i>Sphyrapicus thyroideus</i> Williamson's Sapsucker	G5 S4B			X			X		X		
<i>Spinus pinus</i> Pine Siskin	G5 S5	X							X	X	X

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<i>Spinus tristis</i> American Goldfinch	G5 S5B	X						X	X		X
<i>Spizella arborea</i> ⁵ American Tree Sparrow	G5 SNA	X							X	X	X
<i>Spizella pallida</i> Clay-colored Sparrow	G5 S4B	X					X		X		
<i>Spizella passerina</i> Chipping Sparrow	G5 S5B	X					X		X	X	X
<i>Stelgidopteryx serripennis</i> Northern Rough-winged Swallow	G5 S5B	X					X	X	X	X	X
<i>Streptopelia decaocto</i> ⁵ Eurasian Collared-Dove	G5 SNA					X ⁶			X		
<i>Strix nebulosa</i> Great Gray Owl	G5 S3	X		X	Cliffs				X	X	X
<i>Strix varia</i> Barred Owl	G5 S4			X				X	X	X	X
<i>Sturnella neglecta</i> Western Meadowlark	G5 S5B	X							X	X	X
<i>Sturnus vulgaris</i> ⁵ European Starling	G5 SNA	X							X	X	X
<i>Surnia ulula</i> Northern Hawk Owl	G5 S3	X		X	Burned forest				X	X	

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<i>Synaptomys borealis</i> Northern Bog Lemming	G5 S2, on RF sensitive species list for FNF and adjacent forests				Peatlands			X		X	
<i>Tachycineta bicolor</i> Tree Swallow	G5 S5B	X		X			X	X	X	X	
<i>Tachycineta thalassina</i> Violet-green Swallow	G5 S5B	X		X	Cliffs		X	X	X	X	X
<i>Tamias amoenus</i> Yellow-pine Chipmunk	G5 S5							X	X	X	
<i>Tamias ruficaudus</i> Red-tailed Chipmunk	G5 S4							X	X	X	
<i>Tamiasciurus hudsonicus</i> Red (Pine) Squirrel	G5 S5			X				X	X	X	X
<i>Taxidea taxus</i> Badger	G5 S4	X				X ⁶			X	X	
<i>Thamnophis elegans</i> Terrestrial Gartersnake	G5 S5	X						X	X	X	X

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Thamnophis elegans</i> Western Terrestrial Garter Snake	G5 S5	X						X			
<i>Thamnophis sirtalis</i> Common Gartersnake	G5 S4	X						X	X	X	
<i>Thomomys talpoides</i> ⁵ Northern Pocket Gopher	G5 S5	X							X	X	X
<i>Tringa flavipes</i> ⁵ Lesser Yellowlegs	G5 SNA	X						X	X		
<i>Tringa melanoleuca</i> ⁵ Greater Yellowlegs	G5 SNA	X						X	X		
<i>Tringa solitaria</i> ⁵ Solitary Sandpiper	G5 SNA	X						X			
<i>Troglodytes aedon</i> House Wren	G5 S5B	X		X			X		X	X	
<i>Troglodytes pacificus</i> Pacific Wren	G5 S3		X	X				X	X	X	X
<i>Turdus migratorius</i> American Robin	G5 S5B	X			Burned forest		X	X	X	X	X
<i>Tyrannus tyrannus</i> Eastern Kingbird	G5 S5B	X					X	X	X	X	

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Tyrannus verticalis</i> Western Kingbird	G5 S5B	X					X		X	X	
<i>Urocitellus columbianus</i> Columbian Ground Squirrel	G5 S5	X							X	X	X
<i>Ursus americanus</i> Black Bear	G5 S5	X	X	X		X		X	X	X	X
<i>Ursus arctos</i> Grizzly Bear	G4 S2S3, Threatened	X			Burned forest			X	X	X	X
<i>Vireo cassinii</i> Cassin's Vireo	G5 S4B	X					X		X	X	X
<i>Vireo gilvus</i> Warbling Vireo	G5 S5B	X					X	X	X	X	X
<i>Vireo olivaceus</i> Red-eyed Vireo	G5 S4B	X					X	X	X	X	
<i>Vulpes vulpes</i> Red Fox	G5 S5	X				X ⁶		X	X	X	
<i>Xanthocephalus xanthocephalus</i> Yellow-headed Blackbird	G5 S5B	X					X	X			
<i>Zapus princeps</i> Western Jumping Mouse	G5 S4							X	X	X	
<i>Zenaidura macroura</i> Mourning Dove	G5 S5B	X						X	X	X	
<i>Zonotrichia albicollis</i> ⁵ White-throated Sparrow	G5 SNA	X							X	X	

Species ² Name	Species Status ¹	Grass-forb-shrub	Old-growth	Snag or Downed Log	Unique ³ Habitat Associate	Hunted or Trapped	Neo-tropical migrant	Aquatic, Wetland, and/or Riparian	Warm Moist to Warm-dry Biophysical Setting	Cool Wet to Cool-Dry Biophysical Setting	Cold Biophysical Setting
<i>Zonotrichia leucophrys</i> White-crowned Sparrow	G5 S5B	X							X		X
<i>Zonotrichia querula</i> ⁵ Harris's Sparrow	G5 SNA	X								X	

1. Global (G1-5) and State (S1-5) species ranking from Montana Natural Heritage Program list, obtained December 2013; Regional Forester's species of conservation concern (SCC) list as of May 2016; 2011 Regional Forester's sensitive species list for the Kootenai, Lolo, or Lewis and Clark/Helena National Forests and species previously identified as sensitive for the Flathead National Forest; (Note: species status may change over time and subsequent updates are anticipated).
2. Species with only one or two total observations in the Montana Natural Heritage Program database were not listed. The species in this table have known occurrence on or within 0.5 mile of Flathead National Forest lands as of 2013. The list was reviewed by T. Their and C. Hammond (Montana Fish, Wildlife and Parks), D. Casey of American Bird Conservancy, and S. Gniadek of Flathead Audubon (December 2014).
3. Habitat associations based upon GIS analysis of Montana Natural Heritage Program data. Habitat associations reviewed and edited by T. Their and C. Hammond (Montana Fish, Wildlife and Parks) in December 2014. Includes features such as caves, talus, snowfields/glaciers, fell/boulder fields, cliffs, waterfalls, and intensively burned habitats.
4. Typically valley-bottom species that do not occur on NFS lands.
5. Montana Natural Heritage Program has determined a conservation status rank is not applicable because the species is not a suitable target for conservation activities as a result of being: (1) not confidently present in the state; (2) exotic or introduced; (3) a long distance migrant with accidental or irregular stopovers; or (4) a hybrid without conservation value; (5) species is believed to be extinct throughout its range or extirpated in Montana; or is believed to be incidental on NFS lands based on specific observations of animals or their tracks.
6. Species hunted or trapped but not regulated by Montana Fish, Wildlife and Parks, Region 1.

Table D-5 through table D-9 lists rare plant species that represent the diversity of habitats on the Flathead Forest. The tables show plant species previously identified as sensitive and known to occur on the Forest, threatened and endangered species, and species of conservation concern as designated by the Regional Forester for the draft environmental impact statement. A brief description of habitat associations is provided. More detailed information on plant characteristics, habitats, distribution, and observations is available from the Montana Natural Heritage Program and NatureServe databases.

Table D-5. Plant species, species status, and habitat associations for the fen (peatland) group

Name and Habitat Group	FNF DEIS Status	Federal Status ¹	State Status ²	Global/State Rank ²	Habitat
<i>Amerorchis rotundifolia</i> Roundleaf orchid	SCC	Sensitive	SOC	G5 S3	Spruce forest around seeps or along streams, often in soil derived from limestone.
<i>Carex chordorrhiza</i> Creeping Sedge	SCC	Sensitive	—	G5 S3	Wet, organic soil of fens in the montane zone.
<i>Carex lacustris</i> Lake-bank Sedge	SCC	Sensitive	—	G5 S1 S2	Marshes and fens.
<i>Cypripedium parviflorum</i> Small Yellow Lady's-slipper	Not SCC	Sensitive	—	G5 S3 S4	Fens, damp mossy woods, seepage areas, and moist forest-meadow ecotones in the valley to lower montane zones.
<i>Cypripedium passerinum</i> Sparrow's-egg Lady's-slipper	SCC	Sensitive	—	G4G5 S2 S3	Mossy, moist, or seepy places in coniferous forests, often on calcareous substrates.
<i>Drosera anglica</i> English Sundew	Not SCC	Sensitive	—	G5 S3	With sphagnum moss in wet, organic soils of fens in the montane zone.
<i>Drosera linearis</i> Slenderleaf Sundew	SCC	Sensitive	—	G4 S2	Wet, organic soil of nutrient-poor fens in the montane zone. Resides in specialized, limited habitat (wilderness and RNA).
<i>Eleocharis rostellata</i> Beaked Spikerush	SCC	Sensitive	—	G5 S3	Wet, often alkaline soils, associated with warm springs or fens in the valley and foothills zones.
<i>Eriophorum gracile</i> Slender Cottongrass	SCC	Sensitive	—	G5 S3	Wet, organic soil of fens from low to moderate elevations.
<i>Howellia aquatilis</i> Water howellia	Not SCC	USFWS Threatened	—	—	Wetlands and peatlands.
<i>Liparis loeselii</i> Loesel's Twayblade	SCC	Sensitive	—	G5 S2	Wet, organic soils of calcareous fens in the valley and montane zones.
<i>Lycopodium inundatum</i> Northern Bog Clubmoss	SCC	Sensitive	SOC	G5 S2	Wet, organic soil of nutrient-poor fens in the valley and lower montane zones.
<i>Meesia triquetra</i> Meesia moss	SCC	Sensitive	—	G5 S2	Collected on forest from fen and peat dome at base of slope, fed by perennial springs, collected from shallow pool and wet lawn. Also found at edge of pond in the wilderness.

Name and Habitat Group	FNF DEIS Status	Federal Status ¹	State Status ²	Global/State Rank ²	Habitat
<i>Scheuchzeria palustris</i> Pod Grass	Not SCC	Sensitive	—	G5 S3	Wet, organic soil of fens in the valley and montane zones, usually with Sphagnum moss.
<i>Scorpidium scorpioides</i> Scorpidium moss	SCC	Sensitive	—	G4G5 S2	Found on wet soil in calcareous seeps and fens.
<i>Sphagnum magellanicum</i> Magellan's Peatmoss	SCC	—	SOC	G5S1	Rich fens, peatlands (Schofield 1992)
<i>Trichophorum cespitosum</i> Tufted Club-rush	SCC	Sensitive	SOC	G5 S2	Wet meadows and sphagnum-dominated fens in the montane to alpine zones.

1. Species previously listed as sensitive by the Regional Forester as of January 2016. USFWS T&E, Proposed, or Candidate Species 4/20/2016 listing.
2. Montana Natural Heritage Program state status Species of Concern (SOC) and Global (G1-5) and State (S1-5) Species Rankings.

Table D-6. Plant species, species status, and habitat associations for the aquatic group

Name and Habitat Group	FNF DEIS Status	Federal Status ¹	State Status ²	Global/State Rank ²	Habitat
<i>Bidens beckii</i> Beck Water-marigold	Not SCC	Sensitive	SOC	G4G5 S2	Still or slow-moving water of lakes, rivers, and sloughs in the valleys, 0.1-3 m deep.
<i>Heteranthera dubia</i> Water Star-grass	Not SCC	Sensitive	—	G5 S1S2	Shallow water of riverine sloughs, backwaters; valleys
<i>Potamogeton obtusifolius</i> Blunt-leaved Pondweed	Not SCC	Sensitive	—	G5 S3	Shallow water of lakes, ponds, and sloughs in the valley, foothill, and montane zones.
<i>Schoenoplectus subterminalis</i> Water Bulrush	Not SCC	Sensitive	SOC	G4G5 S3	Found in open water and boggy margins of ponds, lakes, and sloughs at 0.1-3 m depth in the valley, foothill, and montane zones.

1. Species previously listed as sensitive by the Regional Forester as of January 2016. USFWS T&E, Proposed, or Candidate Species 4/20/2016 listing.
2. Montana Natural Heritage Program state status Species of Concern (SOC) and Global (G1-5) and State (S1-5) Species Rankings.

Table D-7. Plant species, species status, and habitat associations for the wetlands / riparian group

Name and Habitat Group	FNF DEIS Status	Federal Status ¹	State Status ²	Global/State Rank ²	Habitat
<i>Dryopteris cristata</i> Crested shieldfern	SCC	Sensitive	—	G5 S3	Moist to wet, often organic soils at the forest margins of fens and swamps in the montane zone.
<i>Epipactis gigantean</i> Giant Helleborine	SCC	Sensitive	—	G4 S2S3	Stream banks, lake margins, fens with springs and seeps, often near thermal waters.
<i>Mimulus ampliatus</i> Stalk-leaved Monkeyflower	Not SCC	Sensitive	—	G3 S3	Open seeps and vernal moist soil along slopes, cliffs and streams from the valleys to the subalpine zone.

Name and Habitat Group	FNF DEIS Status	Federal Status ¹	State Status ²	Global/State Rank ²	Habitat
<i>Ophioglossum pusillum</i> Adder's Tongue	Not SCC	Sensitive	—	G5 S3	Wet meadows, margins of fens, and gravelly moist soil in the valley and montane zones.
<i>Petasites frigidus</i> var. <i>frigidus</i> Arctic Sweet Coltsfoot	SCC	Sensitive	SOC	G5T5 S2	Swamps, fen margins, and riparian seeps within open forest and meadows in the valley and foothill zones.

1. Species previously listed as sensitive by the Regional Forester as of January 2016. USFWS threatened and endangered, proposed, or candidate species 4/20/2016 listing.
2. Montana Natural Heritage Program state status species of concern (SOC) and Global (G1-5) and State (S1-5) species rankings.

Table D-8. Plant species, species status, and habitat associations for the alpine group

Name and Habitat Group	FNF DEIS Status	Federal Status ¹	State Status ²	Global/State Rank ²	Habitat
<i>Erigeron lackschewitzii</i> Lackschewitz' Fleabane	Not SCC	Sensitive	—	G3 S3	Open, gravelly, calcareous soil and talus on ridgetops in the alpine and subalpine zones.
<i>Potentilla quinquefolia</i> Five-leaf Cinquefoil	Not SCC	Sensitive	—	G5G4 S3	Dry, gravelly soil of exposed ridges and slopes in the montane to alpine zones.
<i>Pinus albicaulis</i> Whitebark pine	Not SCC	USFWS candidate	—	—	High elevation forested areas in central and western Montana; upper montane near treeline

1. Species previously listed as sensitive by the Regional Forester as of January 2016. USFWS threatened and endangered, proposed, or candidate species 4/20/2016 listing.
2. Montana Natural Heritage Program state status species of concern (SOC) and Global (G1-5) and State (S1-5) species rankings.

Table D-9. Plant species, species status, and habitat associations for the mesic montane, disturbance, rock/talus/scree group

Name and Habitat Group	FNF DEIS Status	Federal Status ¹	State Status ²	Global/State Rank ²	Habitat
<i>Botrychium ascendens</i> Upward-lobed Moonwort	Not SCC	Sensitive	SOC	G3 S3	Various mesic sites from low to moderate elevations, including roadsides and other disturbed habitats.
<i>Botrychium crenulatum</i> Wavy Moonwort	Not SCC	Sensitive	—	G3 S3	Various mesic sites from low to moderate elevations, including roadsides and other disturbed habitats. Sites may be partially shaded or open.
<i>Botrychium hesperium</i> Western Moonwort	Not SCC	Sensitive	—	G4 S3	Various dry to mesic sites from valley bottoms to the subalpine, including roadsides and other disturbed habitats.
<i>Botrychium paradoxum</i> Peculiar Moonwort	SCC	Sensitive	—	G3G4 S3	Mesic meadows associated with spruce and lodgepole pine forests in the montane and subalpine zones; also found in springy western red cedar forests.

Name and Habitat Group	FNF DEIS Status	Federal Status ¹	State Status ²	Global/State Rank ²	Habitat
<i>Botrychium pedunculatum</i> Stalked Moonwort	SCC	Sensitive	—	G2G3 S2	Various mesic sites from valley bottoms to the montane zone. The most common habitats are western red cedar bottomlands.
<i>Collema curtisporum</i> Jelly Lichen	SCC	Sensitive	—	G3 S1	Moist riparian forests, often in narrow sheltered valleys. Substate: Trunk (bark) of <i>Populus trichocarpa</i> ; occasionally on conifer twigs.
<i>Corydalis sempervirens</i> Pale Corydalis	SCC	Sensitive	—	G4G5 S2	Montane; rocky, disturbed or eroding soil of steep slopes in open forest, often appearing after fire.
<i>Cypripedium fasciculatum</i> Clustered Lady's-slipper	SCC	Sensitive	—	G4 S2	Montana occurrences are mostly in warm, dry mid-seral montane forest in the Douglas fir/ninebark and grand fir/ninebark habitat types.
<i>Grimmia brittoniae</i> Britton's dry rock moss	SCC	Sensitive	SOC	G2 S2	Shaded cliff face
<i>Grindelia howellii</i> Howell's Gumweed	SCC	Sensitive	—	G3 S2S3	Vernally moist, lightly disturbed soil adjacent to ponds and marshes, as well as similar human-created habitats, such as roadsides and grazed pastures.
<i>Idahoia scapigera</i> Scalegod	SCC	Sensitive	—	G5 S1S2	Vernally moist, open soil on rock ledges in the lower montane zone.
<i>Lathyrus bijugatus</i> Latah Tule Pea	Not SCC	Sensitive	—	G4 S2S3	Open ponderosa pine and western larch forests in the valley and lower montane zones.
<i>Mimulus breviflorus</i> Short-flowered Monkeyflower	SCC	Sensitive	—	G4 S1S2	Shallow, vernal moist soil among rock outcrops in coniferous forests or grasslands in the montane zone.
<i>Polygonum austiniiae</i> Austin's Knotweed	Not SCC	Sensitive	PSOC	G4 S3S4	Gravelly, often shale-derived soil of open slopes and banks in the montane zone.
<i>Silence spaldingii</i> Spalding's Campion (or catchfly)	Not SCC	USFWS Threatened	—	—	Open grasslands with rough fescue or bluebunch wheatgrass

1. Species previously listed as sensitive by the Regional Forester as of January 2016. USFWS threatened and endangered, proposed, or candidate species 4/20/2016 listing.
2. Montana Natural Heritage Program state status species of concern (SOC) and Global (G1-5) and State (S1-5) species rankings.

Table D-10 lists invertebrate species that occur within the diversity of habitats on the Flathead Forest. The table shows species whose range includes the Forest, but not all species are known to occur on national forest system lands (exhibit W-1). More detailed information on invertebrate characteristics, habitats, distribution, and observations is available from the Montana Natural Heritage Program and NatureServe databases.

Table D-10. Invertebrate species, species status, and habitat associations

Species Name	Species Status ¹	Aquatic Wetland and/or Riparian	Caves and Springs	Rock/Talus/ Scree	Woodland	Open Meadow	Alpine
<i>Salmasellus steganothrix</i> ³ A Cave Obligate Isopod	G2G3 S1S2		X				
<i>Ephydatia cooperensis</i> ³ A Freshwater Sponge	G1 G3 S1 S3	X					
<i>Caenis youngi</i> ³ A Mayfly	G4 S2	X					
<i>Parameletus columbiae</i> ³ A Mayfly	G2 S1	X					
<i>Rhyacophila ebria</i> ³ A Rhyacophilan Caddisfly	G2G3 S1	X					
<i>Rhyacophila gemona</i> ³ A Rhyacophilan Caddisfly	G2G3 S2	X					
<i>Rhyacophila glacier</i> ³ A Rhyacophilan Caddisfly	G3 S1	X					
<i>Rhyacophila potteri</i> ³ A Rhyacophilan Caddisfly	G3 S2	X					
<i>Rhyacophila rickeri</i> ³ A Rhyacophilan Caddisfly	G3G4 S2	X					
<i>Isocapnia crinite</i> ³ A Stonefly	G4 S2	X					
<i>Stygobromus tritus</i> ² A Subterranean Amphipod	G1G2 S1S2	X					
<i>Boloria alberta</i> ³ Alberta Fritillary	G3 S2 S3			X			X

Species Name	Species Status ¹	Aquatic Wetland and/or Riparian	Caves and Springs	Rock/Talus/ Scree	Woodland	Open Meadow	Alpine
<i>Isocapnia integra</i> ³ Alberta Snowfly	G4 S2	X					
<i>Rhyacophila alexanderi</i> ³ Alexander's Rhyacophilan Caddisfly	G2 S2	X					
<i>Oreohelix alpina</i> Alpine Mountainsnail	G1 S1			X			X
<i>Agapetus montanus</i> ³ An Agapetus Caddisfly	G3 S3	X					
<i>Oreohelix amariradix</i> ³ Bitterroot Mountainsnail	G1G2 S1S2			X		X	
<i>Aeshna tuberculifera</i> Black-tipped Darner	G4S2S4	X					
<i>Rhionaeschna multicolor</i> Blue-eyed Darner	G5S2S4	X					
<i>Leucorrhinia borealis</i> ³ Boreal Whiteface	G5 S1	X					
<i>Somatochlora walshii</i> Brush-tipped Emerald	G5 S1S2	X					
<i>Oreohelix elrodi</i> Carinate Mountainsnail	G1 S1,			X	X		
<i>Soliperla salish</i> ³ Clearwater Roachfly	G2 S2	X					
<i>Utacapnia Columbiana</i> ³ Columbian Snowfly	G4 S2	X					
<i>Zapada cordillera</i> ³ Cordilleran Forestfly	G3 S2	X					
<i>Boloria frigga</i> ³ Frigga Fritillary	G5 S1 S2	X					

Species Name	Species Status ¹	Aquatic Wetland and/or Riparian	Caves and Springs	Rock/Talus/ Scree	Woodland	Open Meadow	Alpine
<i>Euphydryas gillettii</i> Gillette's Checkerspot	G3 S2	X			X	X	
<i>Stygobromus glacialis</i> ³ Glacier Amphipod	G1G3 S1S2	X					
<i>Polygonia progne</i> ³ Gray Comma	G4G5 S2	X			X		
<i>Polygyrella polygyrella</i> ³ Humped Coin	G3 S1S2,			X	X		
<i>Oreohelix carinifera</i> ³ Keeled Mountainsnail	G1 S1			X			
<i>Discus brunsoni</i> ³ Lake Disc	G1 S1,			X			
<i>Physa Physa megalochlamys</i> ³ Large-mantle Physa	G3G4 S1	X					
<i>Caurinella idahoensis</i> ³ Lolo Mayfly	G3 S2	X					
<i>Oreohelix haydeni</i> ³ Lyrate Mountainsnail	G2G3 S1S3			X			
<i>Magnipelta mycophaga</i> ³ Magnum Mantleslug	G3 S2S3	X		X	X		
<i>Hemphillia danielsi</i> ³ Marbled Jumping-slug	G2 G3 S1 S2	X		X	X		
<i>Lednia tumana</i> Meltwater Lednian Stonefly	G1 G2 S1, Candidate	X					
<i>Goereilla baumanni</i> ³ Northern Rocky Mountains Refugium Caddisfly	G2 S2	X					
<i>Rossiana Montana</i> ³ Northern Rocky Mountains Refugium Caddisfly	G2G3 S2	X					

Species Name	Species Status ¹	Aquatic Wetland and/or Riparian	Caves and Springs	Rock/Talus/ Scree	Woodland	Open Meadow	Alpine
<i>Sericostriata surdickae</i> ³ Northern Rocky Mountains Refugium Caddisfly	G3 S3	X					
<i>Caudatella edmundsi</i> ³ Northern Rocky Mountains Refugium Mayfly	G3 G4 S3	X					
Ocellated Emerald <i>Somatochlora minor</i>	G5S2S4	X					
<i>Hemphillia camelus</i> ³ Pale Jumping-slug	G4 S1	X					
<i>Kootenaia burkei</i> ³ Pygmy Slug	G2 S1S2	X			X		
Red-veined meadowhawk <i>Sympetrum madidum</i>	G4S2S3	X					
<i>Prophysaon andersoni</i> ³ Reticulate Taildropper	G5 S1S2	X			X		
<i>Haplotrema vancouverense</i> ³ Robust Lancetooth	G5 S1 S2				X		
<i>Acroloxus coloradensis</i> ³ Rocky Mountain Capshell	G3 S1	X					
<i>Colligyrus greggi</i> ³ Rocky Mountain Dusksnail	G4 S1	X					
<i>Soyedina potteri</i> ³ Northern Rocky Mountains Refugium Stonefly	G2 S2	X					
<i>Zacoleus idahoensis</i> ³ Sheathed Slug	G3G4 S2S3,			X	X		
<i>Pristiloma wascoense</i> ³ Shiny Tightcoil	G3 S1S3			X	X		
<i>Prophysaon humile</i> Smoky Taildropper	G3 S2S3	X		X	X		

Species Name	Species Status ¹	Aquatic Wetland and/or Riparian	Caves and Springs	Rock/Talus/ Scree	Woodland	Open Meadow	Alpine
<i>Isoperla petersoni</i> ³ Springs Stripetail	G5 S2	X					
<i>Discus shimemiki</i> ³ Striate Disc	G5 S1				X		
<i>Coenagrion interrogatum</i> ³ Subarctic Bluet	G5 S1 S2	X					
<i>Aeshna subarctica</i> Subarctic Darner	G5 S1 S2	X					
<i>Zapada glacier</i> ³ Western Glacier Stonefly	G1 S1	X					
<i>Margaritifera falcata</i> ^{2, 3} Western Pearlshell	G4G5 S2	X					

1. USFWS threatened, endangered, proposed, or candidate species (4/20/2016), Montana Natural Heritage Program Global (G1-5) and State (S1-5) ranking. Species of conservation concern (SCC) listed by the Regional Forester (as of May 2016).
2. Previously listed as a sensitive species on the Forest (Regional Forester 2011).
3. Not known to occur on NFS lands.

Table D-11 lists aquatic vertebrate species, their species status, shows if they are found in lentic, lotic, or fished habitats.

Table D-11. Aquatic vertebrate species, species status, and habitat associations

Species Name	Lentic ¹	Lotic ²	Fished	Species Status ³
<i>Thymallus arcticus</i> Arctic Grayling	X		X	G5-S1 Non-native
<i>Salvelinus confluentus</i> Bull trout	X	X	X	G4 S2 Threatened
<i>Salvelinus fontinalis</i> Brook Trout	X	X	X	G5 SNA Non-native
<i>Oncorhynchus mykiss</i> Rainbow Trout	X	X	X	G5 S5 Non-native

Species Name	Lentic ¹	Lotic ²	Fished	Species Status ³
<i>Oncorhynchus clarkii lewisi</i> Westslope Cutthroat trout	X	X	X	G4T3 S2 FNF SCC
<i>Cottus cognatus</i> Slimy Sculpin	X	X		G5 S5 Native
<i>Cottus bondi</i> Rocky Mountain Sculpin		X		GNR SNR Native
<i>Richardsonius balteatus</i> Redside Shiner	X	X		G5 S5 Native
<i>Prosopium coulterii</i> Pygmy Whitefish	X			G5 S3 Native
<i>Prosopium williamsoni</i> Mountain Whitefish	X	X	X	G5 S5 Native
<i>Catostomus macrocheilus</i> Largescale sucker	X	X		G5 S5 Native
<i>Catostomus catostomus</i> Longnose sucker	X	X		G5 S5 Native
<i>Mylocheilus caurinus</i> Peamouth chub	X			G5 S5 Native
<i>Ptychocheilus oregonensis</i> Northern Pikeminow	X			G5 S5 Native
<i>Salvelinus namaycush</i> Lake trout	X		X	G5 SNA Non-native
<i>Esox Lucius</i> Northern Pike	X	X	X	G5 S5 Non-native
<i>Perca flavescens</i> Yellow Perch	X		X	G5 SNA Non-native
<i>Sander vitreus</i> Walleye	X		X	G5 SNA Non-native
<i>Oncorhynchus nerka</i> Kokanee Salmon	X		X	G5-SNA Non-native
<i>Micropterus salmoides</i> Largemouth Bass	X		X	G5 SNA Non-native

Species Name	Lentic ¹	Lotic ²	Fished	Species Status ³
<i>Lepomis gibbosus</i> Pumkinseed	X			G5 SNA Non-native
<i>Micropterus dolomieu</i> Smallmouth Bass	X		X	G5 SNA Non-naive

1. Inhabiting, or situated in still, fresh water.
2. Inhabiting, or situated in rapidly moving fresh water.
3. Threatened and endangered, proposed, or candidate species (4/20/2016), Montana Natural Heritage Program Global (G1-5) and State (S1-5) species (2013) ranking; species with a global or state rank of 1 or 2, and the Regional Forester's species of conservation concern (SCC) as of April 2016; non-native species of interest. There are other fish that occur on the forest, however they are not listed since they do not fall into one of the above categories.