
Appendix F

Threatened and Endangered Species

T. M. Poston and B. L. Tiller

This appendix discusses the threatened and endangered plants and animals potentially found on the Hanford Site as listed by the federal government in Title 50, Code of Federal Regulations, Part 17, Washington Natural Heritage Program (1994), and Washington State Department of Fish and Wildlife (1996). In 1996, the U.S. Fish and Wildlife Service consolidated its listing categories of candidate species from three designations to one (61 FR 7595). There are no candidate species on the federal list that could potentially occur on the Hanford Site.

No plants or mammals on the federal list of endangered and threatened wildlife and plants (50 CFR 17) are known to occur on the Hanford Site. There are, however, three species of birds and one insect on the federal list of threatened and endangered species and several species of both plants and animals that are under consideration for formal listing by Washington State (Table F.1). There are 22 state-level candidate species of plants and animals (Table F.2) and 23 monitored plant species (Table F.3).

Table F.1. Federally or State Listed Threatened (T) and Endangered (E) Species Occurring or Potentially Occurring on the Hanford Site

<u>Common Name</u>	<u>Scientific Name</u>	<u>Federal</u>	<u>State</u>
Plants			
Columbia milkvetch	<i>Astragalus columbianus</i>		T
Columbia yellowcress	<i>Rorippa columbiae</i>		E
Dwarf evening primrose	<i>Oenothera pygmaea</i>		T
Hoover's desert parsley	<i>Lomatium tuberosum</i>		T
Northern wormwood ^(a)	<i>Artemisia campestris borealis</i> var. <i>wormskioldii</i>		E
White eatonella	<i>Eatonella nivea</i>		T
Birds			
Aleutian Canada goose ^(b)	<i>Branta canadensis leucopareia</i>	T	E
American white pelican	<i>Pelecanus erythrorhychos</i>		E
Bald eagle	<i>Haliaeetus leucocephalus</i>	T	T
Ferruginous hawk	<i>Buteo regalis</i>		T
Peregrine falcon ^(b)	<i>Falco peregrinus</i>	E	E
Sandhill crane ^(b)	<i>Grus canadensis</i>		E
Mammals			
Pygmy rabbit ^(a)	<i>Brachylagus idahoensis</i>		E

(a) Likely not currently occurring on the site.

(b) Incidental occurrence.

Table F.2. State Candidate Species Potentially Found on the Hanford Site

Common Name	Scientific Name
Molluscs	
Columbia pebble snail	<i>Fluminicola (= Lithoglyphus) columbiana</i>
Shortfaced lanx	<i>Fisherola (= Lanx) nuttalli</i>
Insects	
Columbia River tiger beetle ^(a)	<i>Cicindela columbica</i>
Juniper hairstreak	<i>Mitoura siva</i>
Silver-bordered bog fritillary	<i>Boloria selene atrocatalis</i>
Birds	
Burrowing owl	<i>Athene cucularia</i>
Common loon	<i>Gavia immer</i>
Flammulated owl ^(b)	<i>Otus flammeolus</i>
Golden eagle	<i>Aquila chrysaetos</i>
Lewis' woodpecker ^(b)	<i>Melanerpes lewis</i>
Loggerhead shrike	<i>Lanius ludovicianus</i>
Long-billed curlew	<i>Numenius americanus</i>
Merlin	<i>Falco columbarius</i>
Northern goshawk ^(b)	<i>Accipiter gentilis</i>
Sage sparrow	<i>Amphispiza belli</i>
Sage thrasher	<i>Oreoscoptes montanus</i>
Trumpeter swan ^(a)	<i>Cygnus columbianus</i>
Western sage grouse ^(b)	<i>Centrocercus urophasianus phaios</i>
Reptiles	
Striped whipsnake	<i>Masticophis taeniatus</i>
Mammals	
Merriam's shrew	<i>Sorex merriami</i>
Pacific western big-eared bat ^(a)	<i>Corynorhinus townsendii^(c)</i>
Washington ground squirrel	<i>Spermophilus washingtoni</i>

(a) Probable, but not observed, on the Hanford Site.

(b) Reported, but seldom observed, on the Hanford Site.

(c) Formally known as *Plecotus townsendii*.

Table F.3. Washington State Plant Species of Concern Occurring on the Hanford Site

Common Name	Scientific Name	Status ^(a)
Bristly combseed	<i>Pecto carya</i>	S
Bristly cryptantha	<i>Cryptantha interrupta</i>	M2
Columbia River mugwort	<i>Artemisia lindleyana</i>	M3
Crouching milkvetch	<i>Astragalus succumbens</i>	M3
Desert dodder	<i>Cuscuta denticulata</i>	M1
Desert evening primrose	<i>Oenothera cespitosa</i>	S
False pimpernel	<i>Lindernia anagallidea</i>	S
Fuzzy-beard tongue penstemon	<i>Penstemon eriantherus</i>	M3
Geyer's milkvetch	<i>Astragalus geyeri</i>	S
Gray cryptantha	<i>Cryptantha leucophaea</i>	S
Kittitas larkspur	<i>Delphinium multiplex</i>	M3
Medic milkvetch	<i>Astragalus speirocarpus</i>	M3
Palouse thistle	<i>Cirsium brevifolium</i>	M3
Piper's daisy	<i>Erigeron piperianus</i>	S
Robinson's onion	<i>Allium robinsonii</i>	M3
Rosy balsamroot	<i>Balsamorhiza rosea</i>	M3
Shining flatsedge	<i>Cyperus rivularis</i>	S
Smooth cliffbrake	<i>Pellaea glabella</i>	M3
Southern mudwort	<i>Limosella acaulis</i>	S
Squill onion	<i>Allium scillioides</i>	M3
Stalked-pod milkvetch	<i>Astragalus sclerocarpus</i>	M3
Suksdort's monkey flower	<i>Mimulus suksdorfii</i>	S

The following species may inhabit the Hanford Site but have not been recently collected.

Coyote tobacco ^(b)	<i>Nicotiana attenuata</i>	S
Dense sedge	<i>Carex densa</i>	S
Few-flowered blue-eyed Mary ^(b)	<i>Collinsia sparsiflora</i>	S
Palouse milkvetch ^(b)	<i>Astragalus arrectus</i>	S
Thompson's sandwort	<i>Arenaria franklinii</i> v. <i>thompsonii</i>	M2

(a) S = Sensitive (i.e., taxa vulnerable or declining) and could become endangered or threatened without active management or removal of threats.

M1 = Monitor group 1. Taxa for which there are insufficient data to support listing as threatened, endangered, or sensitive.

M2 = Monitor group 2, i.e., taxa with unresolved taxonomic questions.

M3 = Monitor group 3, i.e., taxa that are more abundant and/or less threatened than previously assumed.

(b) Known collections are questionable in terms of location and/or identification.

References

50 CFR 17, U.S. Fish and Wildlife Service, Department of the Interior, "Endangered and Threatened Wildlife and Plants." *Code of Federal Regulations*.

61 FR 7595, U.S. Fish and Wildlife Service, Department of the Interior, "50 CFR Part 17, Endangered and Threatened Species, Plant and Animal Taxa, Proposed Rule." *Federal Register*.

Washington Natural Heritage Program. 1994. *Endangered, Threatened and Sensitive Vascular Plants of Washington*. Washington State Department of Natural Resources, Olympia, Washington.

Washington State Department of Fish and Wildlife. 1996. *Priority Habitats and Species List*. Olympia, Washington.