
Appendix F

Threatened and Endangered Species

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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 (1997); 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 fish on the federal list of threatened and endangered species. Several species of both plants and animals are under consideration for formal listing as candidate species by Washington State (Table F.1). The National Marine Fisheries Service (1998) has the responsibility for the listing of anadromous fish. Mid-Columbia steelhead and upper Columbia River spring-run chinook salmon have been proposed for listing as threatened and endangered evolutionary significant units, respectively. There are 19 state-level candidate species of plants and animals (Table F.2) and 42 plant species of concern (Table F.3).

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

Common Name	Scientific Name	Federal	State
Plants			
Columbia milkvetch	<i>Astragalus columbianus</i>		T
Columbia yellowcress	<i>Rorippa columbiae</i>		E
Dwarf evening primrose	<i>Camissonia (= Oenothera) pygmaea</i>		T
Hoover's desert parsley	<i>Lomatium tuberosum</i>		T
Loeflingia	<i>Loeflingia squarrosa</i> var. <i>squarrosa</i>		T
Northern wormwood ^(a)	<i>Artemisia campestris borealis</i> var. <i>wormskioldii</i>		E
Umtanum desert buckwheat	<i>Eriogonum codium</i>		E
White Bluffs bladderpod	<i>Lesquerella tuplashensis</i>		E
White eatonella	<i>Eatonella nivea</i>		T
Fish			
Steelhead ^(b)	<i>Oncorhynchus mykiss</i>		E
Birds			
Aleutian Canada goose ^(c)	<i>Branta canadensis leucopareia</i>	T	E
American white pelican	<i>Pelecanus erythrorhynchos</i>		E
Bald eagle	<i>Haliaeetus leucocephalus</i>	T	T
Ferruginous hawk	<i>Buteo regalis</i>		T
Peregrine falcon ^(c)	<i>Falco peregrinus</i>	E	E
Sandhill crane ^(c)	<i>Grus canadensis</i>		E
Western sage grouse ^(c)	<i>Centrocercus urophasianus phaios</i>		T
Mammals			
Pygmy rabbit ^(a)	<i>Brachylagus idahoensis</i>		E

(a) Likely not currently occurring on the site.

(b) Upper Columbia River steelhead that migrate through the Hanford Reach.

(c) Incidental occurrence.

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

Common Name	Scientific Name
Molluscs	
Columbia pebble snail	<i>Fluminicola</i> (= <i>Lithoglyphus</i>) <i>columbiana</i>
Shortfaced lanx	<i>Fisherola</i> (= <i>Lanx</i>) <i>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>
Merlin	<i>Falco columbarius</i>
Northern goshawk ^(b)	<i>Accipiter gentilis</i>
Sage sparrow	<i>Amphispiza belli</i>
Sage thrasher	<i>Oreoscoptes montanus</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</i> ^(c)
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	State Listing ^(a)
Annual paintbrush	<i>Castilleja exilis</i>	R1
Awned half chaff sedge	<i>Lipocarpha</i> (= <i>Hemicarpha</i>) <i>aristulata</i>	R1
Basalt milk-vetch	<i>Astragalus conjunctus</i> var. <i>rickardii</i>	R1
Bristly combseed	<i>Pectocarya setosa</i>	W
Brittle prickly-pear	<i>Opuntia fragilis</i>	R1
Canadian St. John's wort	<i>Hypericum majus</i>	S
Chaffweed	<i>Centunculus minimus</i>	R1
Columbia River mugwort	<i>Artemisia lindleyana</i>	W
Crouching milkvetch	<i>Astragalus succumbens</i>	W
Desert dodder	<i>Cuscuta denticulata</i>	S
Desert evening-primrose	<i>Oenothera cespitosa</i>	S
False pimpernel	<i>Lindernia dubia anagallidea</i>	R2
Fuzzytongue penstemon	<i>Penstemon eriantherus whitedii</i>	R1
Geyer's milkvetch	<i>Astragalus geyeri</i>	S
Grand redstem	<i>Ammannia robusta</i>	R1
Gray cryptantha	<i>Cryptantha leucophaea</i>	S
Great Basin gilia	<i>Gilia leptomeria</i>	R1
Hedge hog cactus	<i>Pediocactus simpsonii</i> var. <i>robustio nigrispinus</i>	R1
Kittitas larkspur	<i>Delphinium multiplex</i>	W
Miner's candle	<i>Cryptantha scoparia</i>	R1
Palouse thistle	<i>Cirsium brevifolium</i>	W
Piper's daisy	<i>Erigeron piperianus</i>	S
Robinson's onion	<i>Allium robinsonii</i>	W
Rosy balsamroot	<i>Balsamorhiza rosea</i>	W
Rosy pussypaws	<i>Calyptridium roseum</i>	S
Scilla onion	<i>Allium scilloides</i>	W
Shining flatsedge	<i>Cyperus bipartitus (rivularis)</i>	S
Small-flowered evening-primrose	<i>Camissonia</i> (= <i>Oenothera</i>) <i>minor</i>	R1
Small-flowered nama	<i>Nama densum</i> var. <i>parviflorum</i>	R1
Smooth cliffbrake	<i>Pellaea glabella simplex</i>	W
Snake River cryptantha	<i>Cryptantha spiculifera</i> (= <i>C. interrupta</i>)	S
Southern mudwort	<i>Limosella acaulis</i>	W
Stalked-pod milkvetch	<i>Astragalus sclerocarpus</i>	W
Suksdorf's monkey flower	<i>Mimulus suksdorfii</i>	S
Toothcup	<i>Rotala ramosior</i>	R1
Winged combseed	<i>Pectocarya linearis</i>	R1

The following species have been reported as occurring on the Hanford Site, but the known collections are questionable in terms of location or identification, and have not been recently collected on the Hanford Site.

Coyote tobacco	<i>Nicotiana attenuata</i>	S
Dense sedge	<i>Carex densa</i>	S
Few-flowered collinsia	<i>Collinsia sparsiflora</i> var. <i>bruciae</i>	S
Medic milkvetch	<i>Astragalus speirocarpus</i>	W
Palouse milkvetch	<i>Astragalus arrectus</i>	S
Thompson's sandwort	<i>Arenaria franklinii thompsonii</i>	R2

- (a) S = Sensitive (i.e., taxa vulnerable or declining) and could become endangered or threatened without active management or removal of threats.
R1 = Taxa for which there are insufficient data to support listing as threatened, endangered, or sensitive (formerly monitor group 1).
R2 = Taxa with unresolved taxonomic questions (formerly monitor group 2).
W = Taxa that are more abundant and/or less threatened than previously assumed (formerly monitor group 3).

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*.

National Marine Fisheries Service. 1998. *NMFS Northwest Region Fact Sheets*. Available URL: <http://www.nwr.noaa.gov/factsheet/facts01.htm>

Washington Natural Heritage Program. 1997. *Rare Plant Species County List*. Washington State Department of Natural Resources, Olympia, Washington. Available URL: <http://www.wa.gov/dnr/htdocs/fr/nhp/plantco.html>

Washington State Department of Fish and Wildlife. 1996. *Priority Habitats and Species List*. Olympia, Washington. Available URL: <http://www.wa.gov/wdfw/hab/phspage.htm>