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F. Listed and Candidate Plants

Non-vascular Plants and Fungi

As of the writing of this draft HCP, no non-vascular plants or fungi in the area covered by the HCP are listed by the federal government as threatened or endangered.

Vascular Plant Taxa of Concern

Several vascular plant taxa that occur in the area covered by the HCP are of concern at a federal level, whereas others are of concern at the state level. In general, these species have very limited ranges or narrow habitat requirements and are restricted to very small areas. Therefore, these plant taxa can likely be effectively conserved while meeting other land management objectives. DNR's Natural Heritage Program maintains a comprehensive database for these species, including both site-specific and species-specific information, that will be useful in managing for these species. For the purposes of this HCP, species of concern at the federal level consist of those listed under the federal Endangered Species Act, those proposed for listing, and those that are candidates for listing.

FEDERALLY LISTED AND PROPOSED VASCULAR PLANT SPECIES

Table III.15 lists those plant species in the area covered by the HCP that have been listed by the federal government or proposed for listing. Brief statements about each species are provided below; additional information can be obtained from either the Endangered Species office of the U.S. Fish and Wildlife Service in Olympia or from DNR's Natural Heritage Program.

Table III.15: Federally listed and proposed vascular plant taxa in the area covered by the HCP

NHP = Natural Heritage Program; POEX = possibly extinct or extirpated; WW = western Washington; EW = eastern Washington within the range of the northern spotted owl.

Scientific name	Federal status	NHP status	HCP planning areas	Geographic area and/or habitat
Arenaria paludicola	Endangered	POEX	WW	"swamps near Tacoma"
*Castilleja levisecta***	Proposed	Threatened	EW, WW	Puget trough grasslands
Howellia aquatilis	Threatened	Endangered	WW	Pierce County southward; shallow ponds in lowland forested areas
*Lomatium bradshawii***	Endangered	*	WW	Clark County; moist to wet meadows
Sidalcea nelsoniana	Threatened	Endangered	WW	Lewis and Cowlitz counties; moist meadows

* At the time of the most recent revision to Endangered, Threatened and Sensitive Vascular Plants of Washington (DNR 1994), this species was not known to occur in Washington.

** These species are unlikely to be affected by proposed HCP management plans. See Section G of Chapter IV on plants.

Arenaria paludicola

Swamp sandwort was historically known from "swamps near Tacoma" but has not been seen or collected in Washington since the late 1800s. Reports from several other western Washington locations have been determined to be misidentifications. However, additional inventory in Washington is needed, primarily in wetlands within the Puget lowlands. The only known site in the world is a brackish wetland in California.

Castilleja levisecta

Golden paintbrush occurs from Thurston County northward to Vancouver Island. Historically it was also known from the Willamette Valley in Oregon and Clark County, Washington. The species is restricted to grasslands and areas dominated by a mixture of grasses and shrubs. There are only ten known sites in the world, eight of which are in Washington. All sites are small and subject to a variety of threats, the most serious of which is invasion by Douglas fir, Scot's broom, blackberries, and roses.

Howellia aquatilis

Water howellia is an aquatic annual generally found in vernal ponds or portions of ponds in which there is a significant seasonal draw-down of the water level. All ponds where this plant is known to grow are rimmed by deciduous trees; most have conifers as well. The species is currently known to occur in Washington, Idaho, and Montana. In Washington, it has been found in Clark, Pierce, and Spokane counties. Historically, it was also known from Thurston and Mason counties, as well as Oregon and California.

Lomatium bradshawii

Bradshaw's lomatium was thought to be endemic to the Willamette Valley in Oregon until 1994, when it was discovered in Clark County, Washington. The one site in Washington is a seasonally flooded wetland dominated by grasses, sedges, and rushes.

Sidalcea nelsoniana

Nelson's checkermallow was also thought to be restricted to Oregon until relatively recently. There are now known sites in moist to wet meadows in Cowlitz and Lewis counties, Washington.

FEDERAL CANDIDATE AND SPECIES OF CONCERN

There are numerous vascular plant taxa known to occur, or suspected of presently occurring, in the area covered by the HCP that are candidates for federal listing under the Endangered Species Act or are species of concern to the U.S. Fish and Wildlife Service. These are listed in Tables III.16 and III.17. Additional information about these species can be obtained from DNR's Natural Heritage Program.

Table III.16: Federal candidate vascular plant taxa in the area covered by the HCP

NHP = Natural Heritage Program; POEX = possibly extinct or extirpated; E = endangered; T = threatened; S = sensitive; OESF = Olympic Experimental State Forest; WW = western Washington; EW = eastern Washington within the range of the northern spotted owl.

Scientific name	NHP status	HCP planning areas	Geographic area and/or habitat
Sidalcea oregana var. *calva**	E	EW	Wenatchee Mountains; meadow and forest

Table III.17: Federal species of concern vascular plant taxa in the area covered by the HCP

NHP = Natural Heritage Program; POEX = possibly extinct or extirpated; E = endangered; T = threatened; S = sensitive; OESF = Olympic Experimental State Forest; WW = western Washington; EW = eastern Washington within the range of the northern spotted owl.

Scientific name	NHP status	HCP planning areas	Geographic area and/or habitat
Abronia umbellata ssp. *acutalata*	POEX	WW, OESF	Clallam and Kitsap counties; scattered coastal
Artemisia campestris ssp. *borealis* var. *wormskioldii*	E	EW	Klickitat and Grant counties; along the Columbia River
Aster curtus	S	WW	lowland prairies
Astragalus australis var. *olympicus*	T	WW	NE Olympic Mts. talus/scree
Astragalus pulsiferae var. *suksdorfii*	E	EW	Klickitat County; open forest
Botrychium ascendens	S	WW, EW	mid- to upper elevations ridges and meadows
Calochortus longebarbatus var. *longebarbatus*	S	EW	Klickitat County meadow and open forest
Castilleja cryptantha	S	WW	Mt. Rainier moist meadows
Cimicifuga elata	T	WW	low-elevation forest
Corydalis aquae-gelidae	T	WW	Skamania and Clark counties; seeps, creeks above 2,500 ft

Table III.17: Federal species of concern vascular plant taxa in the area covered by the HCP *(continued)*

NHP = Natural Heritage Program; POEX = possibly extinct or extirpated; E = endangered; T = threatened; S = sensitive; OESF = Olympic Experimental State Forest; WW = western Washington; EW = eastern Washington within the range of the northern spotted owl.

Scientific name	NHP status	HCP planning areas	Geographic area and/or habitat
Cypripedium fasciculatum	T	EW	forest
Delphinium leucophaeum	E	WW	SE Washington; lowland prairies
Delphinium viridescens	E	EW	Wenatchee Mountains; meadows and moist areas
Dodecatheon austrofrigidum	T	WW, OESF	southern Olympic Mountains
Erigeron howellii	T	WW	Columbia River Gorge; nonforested areas
Erigeron oreganus	T	WW	Columbia River Gorge; exposed basalt
Filipendula occidentalis	T	WW	SW Washington riparian
Hackelia venusta	E	EW	Wenatchee National Forest; talus/scree
Lathyrus torreyi	----**	WW	Clark, Pierce counties mixed conifer forest
Lomatium suksdorfii	S	EW	Klickitat County; open slopes
Lomatium tuberosum	T	EW	Kittitas, Yakima, Benton and Grant counties; talus slopes
Lupinus sulphureus var. *kincaidii**	E	WW	SW Washington; lowland prairies
*Meconella oregana**	T	WW, EW	Puget Trough and Klickitat County; grassland and savannah
*Mimulus jungermannioides**	POEX	EW	Klickitat County; seeps in Columba River basalt
*Penstemon barrettiae**	T	EW, WW	Klickitat County; exposed basalt
Petrophyton cinerascens	T	EW	Chelan and Douglas counties; endemic along Columbia River

Table III.17: Federal species of concern vascular plant taxa in the area covered by the HCP *(continued)*

NHP = Natural Heritage Program; POEX = possibly extinct or extirpated; E = endangered; T = threatened; S = sensitive; OESF = Olympic Experimental State Forest; WW = western Washington; EW = eastern Washington within the range of the northern spotted owl.

Scientific name	NHP status	HCP planning areas	Geographic area and/or habitat
*Silene seelyi**	T	EW	Wenatchee Mountains; exposed rock
Sisyrinchium sarmentosum	T	WW	Skamania and Klickitat counties; meadows
*Sullivantia oregana**	T	WW	Columbia River Gorge; exposed rock
Tauschia hooveri	T	EW	Kittitas and Yakima counties; nonforested areas
*Trifolium thompsonii**	T	EW	Chelan and Douglas counties; grassland and forest edge

*These species are unlikely to to be affected by proposed HCP management plans. See section G of Chapter IV on plants.

**The NHP status of Lathyrus torreyi was undetermined as of August 1996. It was thought to be possibly extirpated until a population was discovered on McCord Air Force Base in 1994.