

**Table D.4** Plant Species of Concern Potentially Found on or Near the Hanford Site

Scientific Name	Common Name	Federal Status <sup>(a)</sup>	Washington State Status (Priority Ranking as Applicable) <sup>(a)</sup>	Oregon State Status <sup>(a)</sup>	Global and Washington State Rarity Status <sup>(e)</sup>	Endemism <sup>(b)</sup>	Oregon State Rarity Status <sup>(a)</sup>	Washington/ [Oregon] Distribution by County <sup>(b,c)</sup>	Habitat Association on Hanford <sup>(d)</sup>	Hanford Abundance <sup>(e)</sup>	Resource Level of Concern at Hanford <sup>(f)</sup>
<i>Allium robinsonii</i>	Robinson's onion		Watch				SX	[GI, MO, SH, UM]	Shrub-steppe	Uncommon	II
<i>Allium scillioides</i>	Squill onion		Watch						Shrub-steppe	Uncommon	II
<i>Ammannia robusta</i>	Grand redstem		Review 1		G5			Most state	Riparian	Uncommon	
<i>Arenaria franklinii</i> var. <i>thompsonii</i>	Thompson's sandwort		Review 2	Candidate	G4 THQ, SRF	Regional	SH	BE, GR [GI]	Sand/shrub-steppe	Uncommon	II
<i>Artemisia campestris borealis</i> var. <i>wormskioldii</i>	Northern wormwood	Former candidate	Endangered, (1)	Endangered	G5 T1, S1	Regional	SX	GR, KL [SH]	Rocky riparian	Undocumented <sup>(g)</sup>	III
<i>Artemisia lindleyana</i>	Columbia River mugwort		Watch						Riparian	Common	II
<i>Astragalus arrectus</i>	Palouse milkvetch		Sensitive, (3)		G2G3, S2	Regional		Columbia Basin: CH, (GR), (KTS), KL, LI, WHI	Shrub-steppe	Not recently documented <sup>(h)</sup>	III
<i>Astragalus columbianus</i>	Columbia milkvetch	Former candidate	Threatened, (2)		G2, S2	Local		Southcentral WA: BE, KTS, YA	Shrub-steppe	Rare	III
<i>Astragalus conjunctus</i> var. <i>rickardii</i>	Basalt milkvetch		Review 1						Shrub-steppe	Uncommon	II
<i>Astragalus geyeri</i>	Geyer's milkvetch		Sensitive, (3)		G5, S1?	Disjunct		GR	White Bluffs	Rare	III
<i>Astragalus sclerocarpus</i>	Stalked-pod milkvetch		Watch						Sand/shrub-steppe	Common	II
<i>Astragalus speirocarpus</i>	Medick milkvetch		Watch						Drainages/shrub-steppe	Undocumented	II
<i>Astragalus succumbens</i>	Crouching milkvetch		Watch						Shrub-steppe	Uncommon	II
<i>Balsamorhiza rosea</i>	Rosy balsamroot		Watch				SH	[UM]	Rattlesnake Ridge	Common	II
<i>Calyptridium roseum</i>	Rosy pussypaws		Sensitive		G5, S1				Shrub-steppe	Rare	III

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<i>Camissonia minor</i>	Smallflower evening-primrose		Review 1		G4				Shrub-steppe	Rare	
<i>Camissonia</i> (= <i>Oenothera</i> ) <i>pygmaea</i>	Dwarf evening-primrose		Threatened, (2)		G3, S1S2			Scattered: BE, DO, FR, GR	Sand/shrub-steppe	Rare	III
<i>Carex densa</i>	Dense sedge		Sensitive, (3)		G5, S1	Peripheral		(BE), (CK), WAH, (YA)	Riparian	Undocumented <sup>(i)</sup>	III
<i>Castilleja exilis</i>	Smallflower annual paintbrush		Review 1		G5				Shrub-steppe	Rare	
<i>Centunculus minimus</i>	Chaffweed		Review 1		G5					Rare	
<i>Cirsium brevifolium</i>	Palouse thistle		Review 1						Shrub-steppe	Undocumented	I
<i>Collinsia sparsiflora</i> var. <i>bruceae</i>	Few-flowered collinsia		Sensitive, (3)		G4T4, S1S2	Peripheral		KL, (SKA)	Riparian	Undocumented <sup>(i)</sup>	III
<i>Cryptantha spiculifera</i>	Snake River cryptantha		Sensitive		G3G4, S2	Peripheral		(AD), CH, FR, GR, KL, LI, OK, SP	Bluffs	Rare	III
<i>Cryptantha leucophaea</i>	Gray cryptantha		Sensitive, (3)		G2G3, S2S3		SH	Scattered: western Columbia Basin - BE, DO, FR, GR, KTS, WW, YA [GI]	Sand	Uncommon	III
<i>Cryptantha scoparia</i>	Miner's candle		Review 1		C4				Shrub-steppe	Rare	
<i>Cuscuta denticulata</i>	Desert dodder		Sensitive		G4, S1	Disjunct		BE	Shrub-steppe	Rare	III
<i>Cyperus bipartitus</i> (= <i>C. rivularis</i> )	Shining flatsedge		Sensitive, (3)		G5, S2	Peripheral		(AS), BE, GR, KI, KTS, KL, (WHI), YA	Columbia River, riparian	Uncommon	III
<i>Eatonella nivea</i>	White eatonella		Threatened, (2)		G4, S1	Disjunct		GR, KTS	Sand/shrub-steppe	Rare	III
<i>Erigeron piperianus</i>	Piper's daisy		Sensitive, (3)		G2, S2	Regional		Columbia Basin: AD, BE, FR, GR, KTS, KL, YA	Disturbances/sand/shrub-steppe	Uncommon	III

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<i>Eriogonum codium</i>	Umtanum desert buckwheat		Endangered		G1, S1			BE	Shrub-steppe	Rare	III
<i>Gilia leptomeria</i>	Great Basin gilia		Review 1		G5				Shrub-steppe	Rare	
<i>Hypericum majus</i>	Canadian St. John's-wort		Sensitive		G5, S1?			Scattered: KI, PO, SKT	Riparian	Rare	III
<i>Lesquerella tuplashensis</i>	White Bluffs bladderpod		Endangered		G1, S1			FR	Shrub-steppe	Uncommon	III
<i>Limosella acaulis</i>	Southern mudwort		Sensitive, (3)		G5Q, S2	Disjunct		BE, CH, GR, KTS, WAH, WHA, YA	Columbia River, riparian	Uncommon	III
<i>Lindernia dubia</i> var. <i>anagallidea</i>	False pimpernel		Review 2		G5T4, S3			BE, CK, (KL), MA	Columbia River, riparian	Uncommon	III
<i>Lipocarpha aristulata</i>	Awned halfchaff sedge		Review 1		G5				Riparian	Uncommon	
<i>Loeflingia squarrosa</i> var. <i>squarrosa</i>	Loeflingia		Threatened		G5T4, S1				Riparian	Rare	III
<i>Lomatium tuberosum</i>	Hoover's desert parsley	Former candidate	Threatened, (2)		G2, S2	Local		BE, GR, KTS, YA	Umtanum Ridge, talus	Rare	III
<i>Mimulus suksdorfii</i>	Suksdorf's monkey-flower		Sensitive, (3)		G4, S2	Peripheral		CH, GR, (KTS), (KL), (YA), BE	Sand/shrub-steppe	Rare	III
<i>Nama densum</i> var. <i>parviflorum</i>	Small-flowered nama		Review 1		G5T5				Shrub-steppe	Uncommon	
<i>Nicotiana attenuata</i>	Coyote tobacco		Sensitive, (3)		G4, S2			Scattered: BE, (CH), DO, FR, GR, (KTS), KL, YA	Gravel washes	Rare <sup>(h)</sup>	III
<i>Oenothera caespitosa</i>	Desert evening-primrose		Sensitive, (3)		G4, S1?	Peripheral		KTS, YA	Riparian/ islands/ uplands	Rare	III
<i>Pectocarya linearis</i> var. <i>penicillata</i>	Winged combseed		Review 1		G5				Shrub-steppe	Uncommon	
<i>Pectocarya setosa</i>	Bristly combseed		Sensitive, (3)		G5, S2	Peripheral		(CH), GR, YA	Sand/shrub-steppe	Rare	III

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<i>Pellaea glabella</i> var. <i>slimpex</i>	Smooth cliffbrake		Watch						Umtanum Ridge, moist canyons	Rare	II
<i>Penstemon eriantherus</i> var. <i>whitedii</i>	Fuzzy beardtongue		Monitor 3						White Bluffs	Rare	I
<i>Rorippa columbiae</i>	Columbia yellowcress	Former candidate	Endangered, (1)	Candidate	G3, S2		S3	Scattered: BE, GR, (KL), SKA [UM]	Columbia River, riparian	Common	III
<i>Rotala ramosior</i>	Lowland toothcup		Review 1		G5				Riparian	Uncommon	

(a) See Section D.2.5.1 for references and category definitions. Global and state rarity statuses are separated by a comma in the table.

(b) Endemism categories and county distributions from WDNR (1994). Endemism: local = a taxon restricted to a very small geographic area or specialized habitats within a somewhat larger geographical area; Regional = a taxon inhabiting a relatively large geographical area ranging from a mountain range to the Pacific Northwest; Disjunct = a taxon whose population(s) in Washington is widely separated from the main continuous populations; Peripheral = a taxon approaching the geographical limits of its continuous range in Washington. County abbreviations: AD = Adams; AS = Asotin; BE = Benton; CH = Chelan; CK = Clark; DO = Douglas; FR = Franklin; GR = Grant; KI = King; KTS = Kittitas; KL = Klickitat; LI = Lincoln; MA = Mason; OK = Okanogan; PO= Pond Oreille; SKT = Skagit; SKA = Skamania; SP = Spokane; WAH = Wahkiakum; WW = Walla Walla; WHI = Whitman; YA = Yakima. (County names or abbreviations in parentheses indicate that the taxon was historically collected in that county or that it has been reported from that county but its occurrence is unverified or questionable. In both cases, recent, verifiable information regarding the taxon's occurrence in the county in question is lacking.)

(c) County distributions are from The Nature Conservancy of Oregon. 1995. Oregon Natural Heritage Program, Rare Plant and Animal Data Base. The Nature Conservancy, Portland, Oregon. County abbreviations: GI = Gilliam; MO = Morrow; SH = Sherman; UM = Umatilla.

(d) Hanford Biological Resources Laboratory and Ecosystem Monitoring Project data bases maintained by Pacific Northwest National Laboratory.

(e) Abundance categories developed and applied by M. Sackschewsky and W. Rickard from Pacific Northwest National Laboratory (pers. comm. 1995). Abundant = commonly found throughout the Hanford Site in diverse habitat types; Common = commonly found throughout appropriate, specific habitats; Uncommon = found only in some of the specific, appropriate habitats; Rare = only known from one to several locations on the Hanford Site; Undocumented/Not recently documented = has been historically reported from the Hanford Site, or is known to occur near the Hanford Site, but its present occurrence on the Site is unsubstantiated or doubtful.

(f) See Section 4.3 for definitions of resource levels of concern. Each level corresponds to a different set of management actions that are required to be taken in regard to those species included for consideration at that level. A particular species is defined by its association with one specific level of management concern.

(g) Known to occur within 25 km of the Hanford Site; however, recent surveys have not documented its occurrence on Hanford (see Cadwell 1994 for areas surveyed).

(h) Previously reported from Rattlesnake Hills (Sackschewsky et al. 1992); however, its presence has not been confirmed by recent surveys.

(i) Previously reported from the 100 Areas (Sackschewsky et al. 1992); however, it was probably misidentified (Sackschewsky pers. comm. 1995) and recent surveys have not documented its occurrence.

(j) Previously reported from Rattlesnake Hills (Sackschewsky et al. 1992); however, it was probably misidentified (Sackschewsky pers. comm. 1995) and recent surveys have not documented its occurrence.