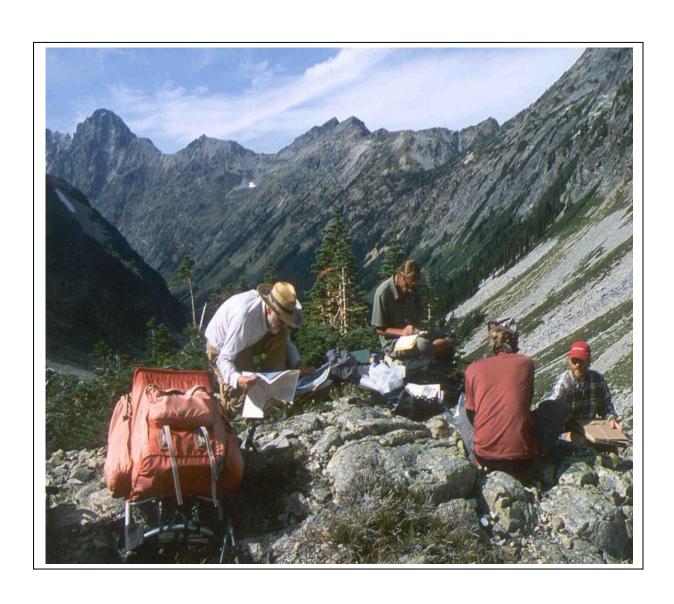


Vascular Plant Inventory of North Cascades National Park Service Complex

Natural Resource Technical Report NPS/NCCN/NRTR—2010/369





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Abstract

The vascular plant inventory of North Cascades National Park Service Complex (NOCA) was conducted between 2000 and 2008. The initial step was to compile a potential species occurrence list by reviewing and editing an existing list for the North Cascades ecosystem created by George Douglas and Dorothy and Ralph Naas. The potential list included 1,402 species. Of this list, 62% of species were verified either by voucher specimen (47%), scientific study (14%), or observation (1%). Voucher specimens in the initial calculation of verification included specimens from five herbaria in addition to those curated at NOCA. Field surveys were conducted as part of the inventory for two reasons: 1) to verify the presence of 17 state listed species that had been previously documented in NOCA and 2) to increase the level of verification of the potential species list. Nine of the state listed species were located in previously documented locations, 8 could not be relocated. Field surveys were conducted in cooperation with the University of Washington utilizing both volunteers and NPS personnel and were targeted at under-surveyed areas. A total of 5,246 specimens were collected in the botany forays between 2002 and 2008 documenting 576 species including 57 new species, 40 that had been documented by observation or scientific study. The final vascular plant list for NOCA totaled 1,381 species and with 71% of the species verified by vouchers, 11% verified by scientific study and less than 1% verified by observation.

Acknowledgments

This project was funded through the National Park Service's Inventory and Monitoring program, North Cascades National Park Service Complex, the Washington Parks Fund and Skagit Environmental Endowment Commission (SEEC). We would like to express our gratitude to the David Giblin, collections manager, at the University of Washington herbarium and the multitude of volunteers involved in the collection and processing of the plant specimens on the botanical forays. We would also like to thank Steve Hahn for his participation in the botany forays, Ron Holmes for leading the data mining, and Lise Grace for entering data into the NPSpecies database and assuring the accuracy of all data entered into the databases.

Introduction

North Cascades National Park Service Complex (NOCA) is located in northwestern Washington State and encompasses 275,684 hectares of the Cascade Mountain Range, extending from the Canadian border south approximately 50 miles to the head of Lake Chelan (Figure 1). NOCA is comprised of three management units: North Cascades National Park, Ross Lake National Recreation Area and the Lake Chelan National Recreation Area. Approximately 93% of this area is managed as the federally-designated Stephen Mather Wilderness.

In a broad sense, the vegetation of the Complex is typical of the vegetation found throughout mountainous areas of the Pacific Northwest (Franklin and Dyrness 1988). Douglas-fir, western hemlock and silver fir dominate the lower and montane slopes of the westside of the Complex. The eastside is drier and is dominated by dry, Douglas-fir and ponderosa pine forests. Riparian zones throughout the Complex are dominated by deciduous trees including alder, cottonwood and willow. The west-side upper elevation forests are primarily subalpine fir and mountain hemlock forests; the eastern mountain slopes also include subalpine larch and whitebark pine (Agee and Kertis 1986). The subalpine zone extends from forest line (close-canopy forest) up to the limit of upright trees (Douglas 1970, Douglas and Taylor 1973, Naas et al. 1990). The boundaries of these zones and the distribution of plant communities and species are highly variable reflecting the rugged topography and environmental conditions.

North Cascades National Park Service Complex has been the focus of very few botanical studies (National Park Service 2008). Although the first herbarium specimen was collected in 1892 (*Epilobium latifolium* in Horseshoe Basin), most herbarium specimens were collected from the late 1960's through the late 1980s by George Douglas and Dorothy and Ralph Naas (Douglas 1970, Douglas and Bliss 1977). The Naas' and George Douglas compiled the first vascular plant list for the North Cascades ecosystem and although their geographic area was much larger than park (west to Bellingham, north into Canada, and east of the park boundary), this was the best list available for NOCA at the start of the vascular plant inventory (Naas et al. 1990).

The NPS Inventory and Monitoring program provided parks with funding and technical assistance to compile existing data and to undertake targeted field investigations to document the occurrence of at least 90 percent of the species of vascular plants and vertebrates (birds, mammal, fish, amphibians, reptiles) currently estimated to occur in parks. Prior to the implementation of this inventory, only 67% of all potential vascular species in NOCA had been verified by voucher specimens or published reports, (Rochefort et. al. 2009). The objectives of the vascular plant inventory were to develop a plant list for NOCA and to verify this this list at the 90% level through voucher specimens or documented observation.

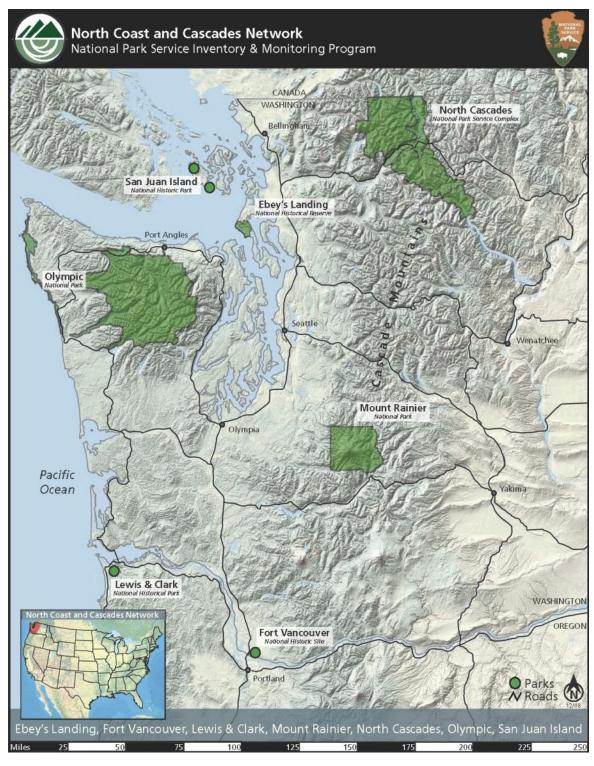


Figure 1. Location of North Cascades National Park Service Complex within the North Coast and Cascades Network.

Methods

This project used two approaches (data mining and field based surveys) to fullfill the 90% species verification goal. Data mining for documentation of vascular plant species occurring in NOCA was conducted in 2001 through 2002. Data mining methods included literature searches, inventories of the collections in local herbaria and compilation of national park data bases as well as the data bases of other agencies. The second approach was to conduct field surveys focused on habitat for sensitive plant species and under-surveyed areas in the park.

Data Mining

In the first year of this project, we reviewed herbaria records at the University of Puget Sound, University of Washington, and Skagit Valley College to locate records of plants collected within NOCA. We also conducted literature searches to locate lists of vascular plant species present from both published and unpublished plant studies and entered all observations into the NPSpecies database.

Prior to the development of the NCCN inventory study plan, we inherited a plant list that had been compiled for the North Cascades Ecosystem and contained 1,910 species (Naas et al. 1990). Working with Dorothy Naas and John Gamon (botanist with the Washington Department of Natural Resources office, Natural Heritage Program) we reduced this list to 1,627 species by removing species that they felt were restricted to habitats that were outside the boundaries on NOCA (Rochefort et. al. 2009). Although smaller, this list still included 529 species without verification (i.e., they were on the Naas' list, but there was no documentation, such as field notes, scientific reports, or herbarium specimens). We then conducted another round of screening of this list with the local experts with knowledge of the flora of the North Cascades and further refined the list to 1,402 vascular plants. Concurrent with the NCCN list review, we searched for vouchers in other herbaria and located 3,008 herbarium specimens. These records included 327 vouchers in other collections: New York Botanical Gardens (10), Skagit Valley College (274), University of British Columbia (2), University of Washington (11), Washington State University (30), and Western Washington University (9). Species that did not have verification, but still remained on the list were classified as "probably present" in NPSpecies and this list was utilized during field surveys as priority species for specimen collection.

While assembling the potential species list for NOCA, we reviewed the geographic locations of herbarium specimens when available and locations of species of concern listed by the Washington Natural Heritage Program Office. All herbarium specimens were geo-referenced and coordinates were entered into a GIS database. The intention was to use this information to guide the field surveys.

Field-based Survey Approaches

Sensitive Plant Species Surveys

In the process of assembling species lists for the park complex, we developed a list of sensitive plant species for the park and reviewed all complex surveys of these sensitive species. The NOCA potential species list included 73 state listed, sensitive species that occur in Whatcom, Skagit or Chelan Counties, counties which are within NOCA. Seventeen of these had been previously documented within the complex, but most had not been observed for over a decade.

Since many of these species had not been resurveyed, the priority for field surveys was to relocated the seventeen documented species and then look for other potential sensitive species during the inventories of under-surveyed habitats.

Under-surveyed Areas

Regions within the Complex where few voucher specimens were found were considered to be "under-surveyed areas" and were targeted for field surveys. We utilized the maps of voucher specimens developed during the data mining portion of this study to identify locations to conduct field surveys (Figure 2). Much of the Complex is very remote, steep and untrailed and as a result, approximately 90% of the area remains unsurveyed. Due to the nature of the topography, field crews were limited to those areas that could be surveyed safely with volunteers with a variety of backcountry skills. As a result, the surveys were concentrated along areas accessible via trail corridors and relatively close to the trailheads, roads, campsites or in the case of Ross Lake NRA, boat docks.

In the summer field seasons of 2002 and 2003, the Inventory and Monitoring Program funded surveys of selected under-surveyed areas. Additional surveys in 2004-2008 were conducted with other funding sources as discussed below. All the surveys (2002-2008) were conducted by NOCA staff in cooperation with University of Washington Herbarium staff and volunteers. These botanical inventories or "Botany Forays" utilized the expertise and curatorial skills of the staff at the University of Washington herbarium to assist the park complex in identifying and processing the specimens collected during field visits.

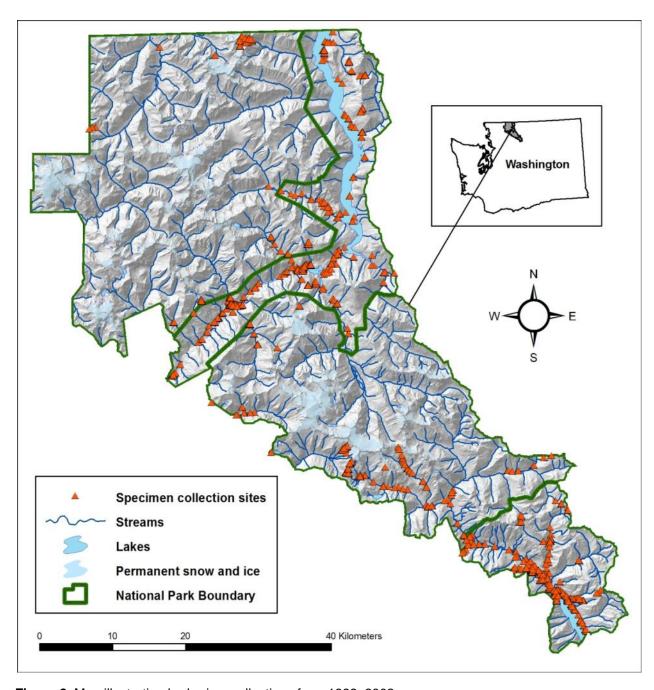


Figure 2. Map illustrating herbarium collections from 1892–2002.

Results

Data Mining

At the conclusion of the data mining, we had compiled a potential species list of 1,402 species and the evidence included 664 vouchers (47%), 196 documented by a scientific study (14%), 11 documented by a species list (1%), and 532 (38%) that were probably present but did not have any documentation other than expert knowledge of the area (Table 1).

Table 1. Summary of species verification by stage of inventory.

Stage of Inventory	Species Verified (no, %)	Species Verified by Voucher (no, %)	Species Verified by Reference (no, %)	Species Verified by Observation (no, %)	Species Without Verification (no, %)
Initial List (2000)	1,627 (67%)	881 (54%)	217(13%)	0	529 (33%)
Potential List (2002)	1,402 (62%)	664 (47%)	195 (14%)	11 (1%)	532 (38%)
Current List (2008)	1,454 (71%)	872 (60%)	154 (11%)	6 (<1%)	423 (29%)

Field-based Survey Approaches

Sensitive Plant Species Surveys

Efforts to relocate seventeen sensitive plant species that had been previously documented within NOCA were undertaken in 2002 and 2003. Of the 17 species, 9 were relocated by NOCA staff in 2002 and 2003 (Table 2). The species were: northwestern moonwort (*Botrychium pinnatum*), Buxbaum's sedge (*Carex buxbaumii*), russet sedge (*Carex saxatilis* var. *major*), giant hellebore (*Epipactis gigantea*), Salish fleabane (*Erigeron salishii*, Figure 3), bog clubmoss (*Lycopodiella inundata*), treelike clubmoss (*Lycopodium dendroideum*), butterwort (*Pinguicula vulgaris*) and pygmy saxifrage (*Saxifraga rivularis*). Those species not relocated were awned sedge and several flowered sedge). Other species not searched for in this effort due to funding limitations were poor sedge(*Carex magellanica* ssp. *irrigua*), common blue-cup (*Githopsis speculariodes*), orange balsam (*Impatiens aurellia*), alpine azalea (*Loiseleuria procumbens*) small nothern bog orchid (*Platanthera obtusata*) and Gray's bluegrass (*Poa arctica* ssp. *arctica*).

Table 2. Species listed by the WNHP with historic records in North Cascades National Park Service Complex. S= sensitive, W= watch, T= threatened. Further definition for state codes in Appendix A.

				Relocated (Y/N)
		State status *	Date last documented	Not surveyed
Scientific name	Common name	2001/2009	prior to 2001	(NS)
Botrychium pinnatum	northwestern moonwort	S/W	1984	Υ
Carex buxbaumii	buxbaum's sedge	S/W	1986	Υ
Carex macrochaeta	large awned sedge	S/T	1987	N
Carex magellanica ssp. irrigua	poor sedge	S/S	1986	NS
Carex pluriflora	several flowered sedge	S/S	1988	N
Carex saxatilis var. major	russet sedge	S/W	1984	Υ
Epipactis gigantea	giant hellebore	S/W	1988	Υ
Erigeron salishii	Salish fleabane	S/S	1996	Υ
Githopsis speculariodes	common blue-cup	S/S	1970	NS
Impatiens aurellia	orange balsam	S/S	1976	NS
Loiseleuria procumbens	alpine azalea	S/S	1963	NS
Lycopodiella inundata	bog clubmoss	S/S	1986	Υ
Lycopodium dendroideum	treelike clubmoss	S/S	1986	Υ
Pinguicula vulgaris	butterwort	S/Review	2000	Υ
Platanthera obtusata	small northern bog orchid	S/S	1991	NS
Poa arctica ssp. arctica	Gray's bluegrass	S/S	1982	NS
Saxifraga rivularis	pygmy saxifrage	S/S	1984	Υ



Figure 3. Salish fleabane (Erigeron salishii), a sensitive plant relocated in a 2002 survey.

Under-surveyed Areas

The 2002 forays were conducted in three areas: lower Thunder Creek Basin, small areas around Ross Lake, and the Cascade Pass area. Between 2003 and 2005, we conducted one botany foray per year: Fisher Creek Basin (2003), McAlester Lake (2004), and Rennie Peak (2005). In 2006, two botany forays were conducted: one in the Stehekin Valley and surrounding slopes and the second to the Dagger and Stiletto Lakes area. Copper Ridge and the upper portions of the Chilliwack River drainage were surveyed in 2007. In 2008, the Heather Pass-Black Peak area and Thunder Lake were surveyed (Figure 4).

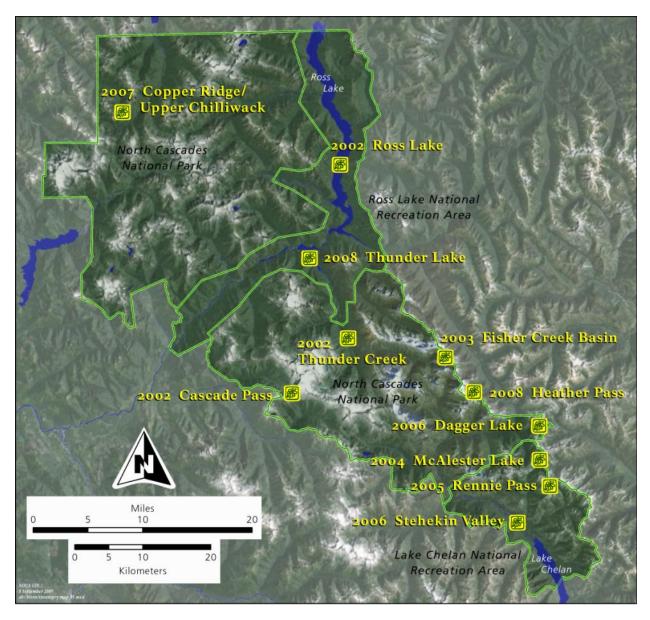


Figure 4. Map illustrating locations of Botany Forays (2002–2008).

A total of 5,246 specimens were collected in the botany forays between 2002 and 2008 (Tables 3,4,5). Within each geographic location surveyed, all vascular plant species that were in sufficient abundance (over 20 individual plants per population) and identifiable to species level were collected. If possible, 3 specimens of each plant were made. Of these collections, one specimen was deposited in the NOCA herbarium in Marblemount, one specimen was deposited in the University of Washington Herbarium and the third will be sent to the University of British Columbia herbarium in Vancouver, British Columbia.

Of the species collected, 98 were new verifications for NOCA – either new species added to the potential list or voucher specimens of species that had been listed as probably present or historic. The percentage taxa new to the Complex for each collection event was calculated. Rennie Pass provided the highest number of new records, and all species collected were native. The Stehekin

Valley survey had the second highest new records for any botany foray, although most new records, 20% of the total species collected, for Stehekin were non-native species.

Table 3. Results of the 2002 and 2003 botany forays.

Year	Location	Taxa [*]	Species*	Genera	Families	Collections	Specimens ⁺
2002	Thunder Creek	102	102	83	37	156	390
2002	Ross Lake	183	179	128	51	252	630
2002	Cascade Pass	170	165	107	41	273	682
2003	Fisher Basin	131	130	86	33	196	490
Total	S	586	576	404	162	877	2192

^{*}Includes hybrids and specimens identified only to genus.

Table 4. Results of the 2004–2008 botany forays.

Botany							
Foray Year	Location	Taxa	Species	Genera	Families	Collections	Specimens
2004	McAlester Lake	109	109	71	32	138	345
2005	Rennie Peak	155	152	87	31	193	482
2006	Stehekin Valley	254	244	172	55	299	836
2006	Dagger/Stiletto Lakes	152	151	95	36	167	450
2007	Copper Ridge	119	115	77	34	177	468
2008	Heather Pass/Black Peak/Thunder Lake	153	153	100	41	185	473
Totals		942	924	602	229	1,159	3,054

⁺Estimate, using average of 2.5 replicates per collection.

Table 5. The number of species new to the park or those verified by the botany forays by year.

Year	New Species (no.)	Species Confirmed from <i>Probably</i> Present to Present (no.)	Species Confirmed from Historic to Present (no.)
2002	10	4	
2003	6	3	
2004	2	4	
2005	10	17	1
2006	26	9	
2007	0	0	
2008	3	0	
Total	I 57 ¹	40	1

¹Includes 5 new varieties or subspecies resulting in a difference in the number of new species calculated between 2000 and 2008 in Table 1.

In addition, we also documented the presence of six species listed as sensitive by the Washington Natural Heritage Program, that were not on the potential list of 73 sensitive species (Table 6).

Table 6. Additional species listed by the State of Washington that were collected in the botany forays. S= sensitive, W= watch, T= threatened. Further definition for state codes in Appendix A.

Species	Common Name	State Status
Botrychium pedunculosum	stalked moonwort	Sensitive (S2S3)
Carex capillaris	hair like sedge	Sensitive (S1)
Carex norvegica ssp. inferalpina	blunt sedge	Sensitive (S2)
Eriophorum viridicarinatum	thin leafed cotton sedge	Sensitive (S2)
Luzula arcuata	curved woodrush	Sensitive (S1
Parnassia kotzebuei	Kotzebue's grass-of - parnassus	Sensitive (S1)

Species were tallied by growth form (i.e. forb, graminoids, shrubs and vines, and trees) and species origin (i.e. native or exotic) (Table 7). Forbs comprise the most species for any growth form (65%); ferns comprise the smallest number (4%). Non-native plants represent approximately 16% of all species. Forbs have the highest number of non-native species of any growth form (19%), followed by trees (16%) and shrubs (12%) and grasses, sedges and rushes (11%). North Cascades has no known non-native ferns or fern allies.

 Table 7. Vascular plant species by growth form.

Growth form	Native Species	Non-native Species
Trees 3% (37)	84% (31)	16% (6)
Shrubs 10% (135)	89% (120)	12% (15)
Forbs 65% (891)	81% (718)	19% (173)
Grasses, sedges and rushes19% (256)	89% (227)	11% (29)
Ferns and Fern allies 4% (62)	100% (62)	0% (0)
Totals 100% (1381)	84% (1158)	16% (223)

Discussion

Development of the vascular plant species list for North Cascades National Park Service Complex was probably the most difficult plant list to develop within the North Coast and Cascades Network for two reasons: 1) the initial list was an ecosystem list and 2) the budget could only support a limited number of field surveys. Following several rounds of expert review and data mining, we compiled a potential list of 1,402 species of which 62% were verified by vouchers or scientific study. We then conducted field surveys and documented the occurrence of nine previously documented rare species. Eight species were not located in historic sites and we continue to look for these species in appropriate habitats. We also discovered six rare species that were not previously known to occur in NOCA.

We also conducted field inventories of under surveyed areas to look for new species and to verify species that were on the potential list. Botanical forays sponsored by the University of Washington proved to be a successful method to accomplish vascular plant inventories while also engaging the public as volunteers in the process of collection, processing, and mounting of plant specimens. As a result of the botany forays, we were able to verify 208 additional species with herbarium specimens, increasing the overall verification to 71%. The final species list includes 1,381 species (Appendices B-F) and although we are still below the target of 90% verification, we have increased the overall verification by 9% and verification by vouchers by 13%. We are planning future Botany Forays with University of Washington for 2010. Based on the past experience, we expect to increase the verification by continuing to target undersurveyed areas or groups of species. For example, only 40% of the 81 Carex species on the list have been documented so, future field surveys will focus on Carex and other groups or habitats that have been identified by these inventories. Fourteen percent of the flora is comprised by non-native species which is somewhat surprising due to the historically limited access, the highway through the park complex, from west to east was only completed in 1972. North Cascades has the greatest plant species diversity of the NCCN mountainous parks reflecting the topography and environmental heterogeneity of the park (Olympic NP documented 1,318 species and Mount Rainier NP documented 964 species). Based on the number of new species we found during this study, even in previously surveyed areas, we anticipate that focused inventories in all three parks will document a suprising number of new species.

Literature Cited

- Agee, J., and J. Kertis. 1986. Vegetation cover types of the North Cascades. National Park Service Cooperative Studies Unit, College of Forest Resources, University of Washington, Seattle, Washington.
- Douglas, G. W. 1970. A vegetation study in the subalpine zone of the western North Cascades, Washington. Thesis. University of Washington, Seattle, Washington.
- Douglas, G. W., and R. J. Taylor. 1973. Contributions to the flora of Washington. Rhodora 72:496–501.
- Douglas, G. W., and L. C. Bliss. 1977. Alpine and high subalpine plant communities of the North Cascades region, Washington and British Columbia. Ecological Monographs 47(2):113–150.
- Douglas, G. W., D. B. Naas, and R. W. Naas. 1973. New plant records and ranges for Washington. Northwest Science 47:105–108.
- Franklin, J. F. and C. T. Dryness. 1988. Natural Vegetation of Oregon and Washington. Oregon State University Press, Corvalis, Oregon.
- Naas, D., R. Naas, and E. Burnett. 1990. A checklist of vascular plants of the North Cascades, Washington. Unpublished report. North Cascades National Park Complex, National Park Service, Sedro-Woolley, Washington.
- National Park Service (NPS). 2008. NatureBib: Natural Resource Bibliography. Online. (http://science.nature.nps.gov/im/apps/nrbib/index.cfm). Accessed 16 March 2010.
- NPSpecies The National Park Service biodiversity database. Secure online version. National Park Service, Washington, D.C. Online. (https://science1.nature.nps.gov/npspecies/web/main/start). Accessed 12 March 2010.
- Rochefort, R. M., G. Ahlstrand, A. Braaten, K. Beirne, C. Dalby, G. Fauth, S. Fradkin, B. Freet, B. Gleason, R. Glesne, and others. 2009. A study plan to inventory vascular plants and vertebrates: North Coast and Cascades Network (2001). Natural Resource Technical Report NPS/NCCN/NRR—2009/089. National Park Service, Fort Collins, Colorado. Online. (https://sciencel.nature.nps.gov/naturebib/biodiversity/2009-2-18/NCCN_Inventory_Plan_20010124.pdf). Accessed 16 March 2010.

Appendix A. Key to Washington State Sensitive Species Rank and Status Codes.

State Rank

Characterizes the relative rarity or endangerment within the state of Washington. Two codes (e.g., S1S2) represent an intermediate rank.

- S1: Critically imperiled (5 or fewer occurrences).
- S2: Vulnerable to extirpation (6 to 20 occurrences).
- S3: Rare or uncommon (21 to 100 occurrences).
- S4: Apparently secure, with many occurrences.
- S5: Demonstrably secure in state.
- SA: Accidental in state.
- SE: An exotic established in state.
- SH: Historical occurrences only but still expected to occur.
- SR: Reported, but without persuasive documentation.
- SRF: Reported in error but this error persisted in the literature.
- SU: Status uncertain; need more information.
- SX: Apparently extirpated from the state.
- SP: Likely to occur or to have occurred but without documentation.
- SZ: Not of conservation concern (not SE or SA).

State Status

Determined by the Washington Natural Heritage Program. Factors considered include abundance, occurrence patterns, vulnerability, threats, existing protection, and taxonomic distinctness. Values include:

- E: Endangered. In danger of becoming extinct or extirpated from Washington.
- T: Threatened. Likely to become Endangered in Washington.
- S: Sensitive. Vulnerable or declining and could become Endangered or Threatened in the state.
- X: Possibly extinct or Extirpated from Washington.

Appendix A. Key to Washington state sensitive species rank and status codes (continued).

P1: Priority 1. Rare nonvascular plant but with insufficient information to assign another rank.

P2: Priority 2. Nonvascular plant of concern but with insufficient information to assign another rank.

R1: Review group 1. Of potential concern but needs more field work to assign another rank.

R2: Review group 2. Of potential concern but with unresolved taxonomic questions.

W: Watch. More abundant and/or less threatened than previously thought.

Appendix B. Checklist of Forbs in North Cascades National Park Service Complex.

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Achillea millefolium	common yarrow	Present in Park	Native	FACU	
Achillea millefolium var. occidentalis	common yarrow	Present in Park	Native	FACU	
Aconitum columbianum	Columbian monkshood	Present in Park	Native	UPL	
Actaea rubra	western baneberry	Present in Park	Native	UPL	
Adenocaulon bicolor	American trailplant	Present in Park	Native	NL	
Agoseris aurantiaca var. aurantiaca	orange agoseris	Present in Park	Native	FACU	
Agoseris elata	tall agoseris	Probably Present	Native	FACU	Sensitive
Agoseris glauca var. dasycephala	pale agoseris	Present in Park	Native	NL	
Agoseris grandiflora	bigflower agoseris	Present in Park	Native	NL	
Agoseris heterophylla var. heterophylla	annual agoseris	Present in Park	Native	NL	
Agoseris retrorsa	spearleaf agoseris	Present in Park	Native	NL	
Agrostemma githago	common corncockle	Present in Park	Non-Native	NL	
Ajuga reptans	common bugle	Present in Park	Non-Native	UPL	
Alcea rosea	hollyhock	Present in Park	Non-Native	UPL	
Allium acuminatum	taper-tip onion	Present in Park	Native	UPL	
Allium amplectens	narrowleaf onion	Present in Park	Native	UPL	
Allium cernuum	nodding onion	Present in Park	Native	UPL	
Allium crenulatum	Olympic onion	Probably Present	Native	UPL	
Allophyllum gilioides	blue false gilia	Probably Present	Native	UPL	
Allotropa virgata	sugarstick	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Amaranthus albus	pigweed	Probably Present	Non-Native	FACU	
Amaranthus retroflexus	pigweed	Present in Park	Native	FACU+	
Amsinckia menziesii	Menzies' fiddleneck	Present in Park	Native	UPL	
Anaphalis margaritacea	pearly everlasting	Present in Park	Native	UPL	
Androsace septentrionalis	pygmy-flower rock-jasmine	Probably Present	Native	FAC-	
Anemone drummondii	Drummond's anemone	Present in Park	Native	UPL	
Anemone lithophila	Little Belt Mountain thimbleweed	Probably Present	Native	UPL	
Anemone Iyallii	Little Mountain thimbleweed	Present in Park	Native	UPL	
Anemone multifida var. multifida	Pacific anemone	Probably Present	Native	UPL	
Anemone multifida var. saxicola	red windflower	Present in Park	Native	UPL	
Anemone oregana var. oregana	blue windflower	Present in Park	Native	FACU	
Anemone parviflora	smallflowered anemone	Present in Park	Native	FACW-	
Angelica arguta	Lyall's angelica	Present in Park	Native	FACW-	
Angelica canbyi	Canby's angelica	Present in Park	Native	UPL	
Angelica genuflexa	kneeling angelica	Present in Park	Native	FACW-	
Antennaria alpina	alpine pussytoes	Present in Park	Native	UPL	
Antennaria howellii ssp. nowellii	Howell's pussytoes	Present in Park	Native	UPL	
Antennaria howellii ssp. neodioica	Howell's pussytoes	Present in Park	Native	UPL	
Antennaria lanata	woolly pussytoes	Present in Park	Native	UPL	
Antennaria luzuloides	rush pussytoes	Present in Park	Native	UPL	
Antennaria media	Rocky Mountain pussytoes	Present in Park	Native	UPL	
Antennaria microphylla	Rocky Mountain pussytoes	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

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Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Antennaria racemosa	raceme pussytoes	Present in Park	Native	UPL	
Antennaria rosea	rosy pussytoes	Present in Park	Native	UPL	
Antennaria umbrinella	brown everlasting	Present in Park	Native	UPL	
Anthemis cotula	chamomile	Present in Park	Non-Native	FACU	
Antirrhinum majus	garden snapdragon	Present in Park	Non-Native	UPL	
Aphanes arvensis	field parsley piert	Present in Park	Non-Native	UPL	
Apocynum X floribundum	intermediate dogbane	Present in Park	Native	UPL	
Aquilegia formosa	western columbine	Present in Park	Native	FAC	
Aquilegia formosa var. formosa	crimson columbine	Present in Park	Native	FAC	
Arabidopsis thaliana	thale cress	Present in Park	Non-Native	UPL	
Arabis drummondii	Columbia Gorge rockcress	Probably Present	Native	UPL	
Arabis furcata	tower mustard	Present in Park	Non-Native	UPL	
Arabis hirsuta var. glabrata	mountain rockcress	Present in Park	Native	FACU	
Arabis holboellii var. holboellii	Holboell's rockcress	Probably Present	Native	FACU	
Arabis holboellii var. pendulocarpa	dropseed rockcress	Probably Present	Native	FACU-	
Arabis holboellii var. retrofracta	Holboell rock- cress	Present in Park	Native	FACU-	
Arabis lemmonii var. Iemmonii	Lemmon's rockcress	Present in Park	Native	FACU-	
Arabis Iyallii	Lyall's rockcress	Present in Park	Native	UPL	
Arabis lyrata	lyrate rockcress	Present in Park	Native	FACU	
Arabis lyrata var. kamchatica	Kamchatica rockcress	Present in Park	Native	FACU	
Arabis microphylla var. microphylla	smallleaf rockcress	Present in Park	Native	UPL	
Arabis sparsiflora	sicklepod rockcress	Probably Present	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Arabis sparsiflora var. atrorubens	elegant rockcress	Present in Park	Native	UPL	
Arabis sparsiflora var. columbiana	Columbian rockcress	Present in Park	Native	UPL	
Arabis sparsiflora var. subvillosa	hairystem rockcress	Present in Park	Native	UPL	
Arabis X divaricarpa	spreadingpod rockcress	Probably Present	Native	UPL	
Arceuthobium americanum	American dwarf mistletoe	Probably Present	Native	UPL	
Arceuthobium campylopodum	western dwarf mistletoe	Present in Park	Native	UPL	
Arceuthobium douglasii	Douglas fir dwarf mistletoe	Present in Park	Native	UPL	
Arctium lappa	burdock	Present in Park	Non-Native	NL	
Arctium minus	burdock	Present in Park	Non-Native	NL	
Arenaria capillaris	slender mountain sandwort	Present in Park	Native	UPL	
Arenaria capillaris var. americana	slender mountain sandwort	Present in Park	Native	UPL	
Arenaria serpyllifolia	thyme-leaved sandwort	Present in Park	Non-Native	UPL	
Armoracia rusticana	horseradish	Present in Park	Non-Native	NI	
Arnica amplexicaulis	streambank arnica	Present in Park	Native	FACW-	
Arnica cordifolia	heartleaf arnica	Present in Park	Native	UPL	
Arnica latifolia	broadleaf arnica	Present in Park	Native	FAC-	
Arnica latifolia var. gracilis	broadleaf arnica	Present in Park	Native	FAC-	
Arnica longifolia	spearleaf arnica	Present in Park	Native	FACW-	
Arnica mollis	wooly arnica	Present in Park	Native	FAC	
Arnica nevadensis	Nevada arnica	Probably Present	Native	UPL	
Arnica parryi ssp. parryi	Parry's arnica	Present in Park	Native	UPL	
Arnica rydbergii	Rydberg's arnica	Probably Present	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

cientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
rnica X diversifolia	sticky arnica	Present in Park	Native	UPL	
rtemisia absinthium	wormwood	Present in Park	Non-Native	UPL	
rtemisia arctica ssp. arctica	boreal sagebrush	Present in Park	Native	UPL	
rtemisia douglasiana	Douglas' mugwort	Present in Park	Native	FACW-	
rtemisia dracunculus	green sagewort	Present in Park	Native	UPL	
rtemisia ludoviciana	gray sagewort	Present in Park	Native	FACU-*	
rtemisia ludoviciana ssp. andicans	white sagebrush	Present in Park	Native	FACU-*	
rtemisia ludoviciana ssp. Idoviciana	foothill sagewort	Probably Present	Native	FACU-*	
ntemisia ludoviciana var. ncompta	cudweed sagewort	Present in Park	Native	FACU-*	
rtemisia michauxiana	Michaux's wormwood	Present in Park	Native	UPL	
ntemisia tilesii ssp. nalaschcensis	Tilesius' wormwood	Present in Park	Native	UPL	
sarum caudatum	British Columbia wildginger	Present in Park	Native	FACU*	
sparagus officinalis	asparagus	Present in Park	Non-Native	UPL	
sperugo procumbens	German mugwort	Present in Park	Non-Native	UPL	
ster foliaceus var. foliaceus	alpine leafybract aster	Present in Park	Native	UPL	
ster ledophyllus var. edophyllus	Cascade aster	Present in Park	Native	UPL	
ster sibiricus var. meritus	arctic aster	Probably Present	Native	UPL	
ster subspicatus	Douglas aster	Present in Park	Native	UPL	
stragalus agrestis	purple milkvetch	Probably Present	Native	FACW-	
stragalus alpinus	alpine milkvetch	Probably Present	Native	FAC	
stragalus miser var. erotinus	timber milkvetch	Present in Park	Native	UPL	
		Present in	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Balsamorhiza sagittata	arrowleaf balsamroot	Present in Park	Native	UPL	
Barbarea orthoceras	wintercress	Present in Park	Native	OBL	
Barbarea vulgaris	garden yellowrocket	Present in Park	Non-Native	FACW+	
Bellis perennis	English daisy	Probably Present	Non-Native	UPL	
Bidens cernua	nodding beggartick	Probably Present	Native	FACW+	
Boykinia occidentalis	coastal brookfoam	Probably Present	Native	FAC	
Brasenia schreberi	Schreber watershield	Probably Present	Native	OBL	
Brassica rapa var. rapa	common mustard	Present in Park	Non-Native	UPL	
Callitriche hermaphroditica	northern waterstarwort	Present in Park	Native	OBL	
Callitriche heterophylla ssp. bolanderi	Bolander's water- starwort	Present in Park	Native	OBL	
Callitriche heterophylla ssp. heterophylla	greater water starwort	Present in Park	Native	OBL	
Callitriche palustris	vernal starwort	Present in Park	Native	OBL	
Caltha biflora		Present in Park	Native	OBL	
Caltha leptosepala ssp. leptosepala	"white marsh marigold,"	Probably Present	Native	OBL	
Caltha leptosepala var. leptosepala	white marsh marigold	Probably Present	Native	OBL	
Calypso bulbosa	calypso orchid	Present in Park	Native	OBL	
Campanula lasiocarpa	mountain harebell	Probably Present	Native	FACU	
Campanula rapunculoides	harebell	Present in Park	Non-Native	UPL	
Campanula rotundifolia	bluebell	Present in Park	Native	FACU+	
Campanula scabrella	rough harebell	Probably Present	Native	UPL	
Canadanthus modestus	giant mountain aster	Present in Park	Native	FAC+	
Capsella bursa-pastoris	shepherd's-purse	Present in Park	Non-Native	FACU	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Cardamine bellidifolia var. bellidifolia	alpine bittercress	Probably Present	Native	NI	
Cardamine cordifolia var. Iyallii		Probably Present	Native	FACW	
Cardamine nuttallii var. nuttallii	palmate toothwort	Probably Present	Native	FACW+	
Cardamine occidentalis	big western bittercress	Present in Park	Native	FACW+	
Cardamine oligosperma var. kamtschatica	umbel bittercress	Present in Park	Native	FAC	
Cardamine oligosperma var. oligosperma	little western bittercress	Present in Park	Native	FAC	
Cardamine pensylvanica	Pennsylvania bittercress	Present in Park	Native	FACW	
Cardaria draba	hoary pepperwort	Probably Present	Non-Native	UPL	
Castilleja elmeri	Wenatchee Indian paintbrush	Present in Park	Native	UPL	
Castilleja hispida	harsh Indian paintbrush	Present in Park	Native	UPL	
Castilleja hispida ssp. hispida	harsh Indian paintbrush	Present in Park	Native	UPL	
Castilleja miniata	great red Indian paintbrush	Present in Park	Native	FAC	
Castilleja miniata var. miniata	green Indian paintbrush	Present in Park	Native	FACU	
Castilleja parviflora var. albida	smallflower Indian paintbrush	Present in Park	Native	FAC	
Castilleja rhexiifolia	splitleaf Indian paintbrush	Probably Present	Native	FAC	
Castilleja rupicola	cliff Indian paintbrush	Present in Park	Native	UPL	
Centaurea biebersteinii	spotted knapweed	Present in Park	Non-Native	UPL	
Centaurea diffusa	diffuse knapweed	Present in Park	Non-Native	UPL	
Centaurea x pratensis	knapweed	Present in Park	Non-Native	UPL	
Centaurea montana	montane knapweed	Present in Park	Non-Native	UPL	
Centaurea transalpina	alpine knapweed	Probably Present	Non-Native	UPL	
Centaurium erythraea	European centaury	Present in Park	Non-Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Centaurium exaltatum	desert centaury	Probably Present	Native	UPL	
Cephalanthera austiniae	phantom orchid	Present in Park	Native	UPL	
Cerastium arvense	snow-on-the- mountain	Present in Park	Non-Native	FACU	
Cerastium beeringianum	"Bering chickweed, chickweed"	Present in Park	Native	FACU	
Cerastium fontanum ssp. vulgare	common mouse- ear chickweed	Present in Park	Non-Native	FACU	
Cerastium glomeratum	sticky chickweed	Present in Park	Non-Native	UPL	
Cerastium nutans	nodding chickweed	Probably Present	Native	FACU	
Ceratophyllum demersum	common hornwort	Probably Present	Native	OBL	
Chamerion angustifolium	fireweed	Present in Park	Native	FACU+	
Chamerion latifolium	dwarf fireweed	Present in Park	Native	UPL	
Chenopodium album	lamb's-quarters	Present in Park	Non-Native	FAC	
Chenopodium botrys	Jerusalem-oak	Present in Park	Non-Native	FACU	
Chenopodium fremontii var. atrovirens		Probably Present	Native	FACU	
Chenopodium simplex	mapleleaf goosefoot	Probably Present	Native	UPL	
Chimaphila menziesii	little prince's pine	Present in Park	Native	UPL	
Chimaphila umbellata	pipsissewa	Present in Park	Native	UPL	
Chimaphila umbellata ssp. occidentalis	pipsissewa	Present in Park	Native	UPL	
Chimaphila umbellata var. occidentalis	pipsissewa	Present in Park	Native	UPL	
Chondrilla juncea	skeleton-weed	Present in Park	Non-Native	UPL	
Cichorium intybus	chicory	Probably Present	Non-Native	UPL	
Cicuta bulbifera	bulb waterhemlock	Probably Present	Native	OBL	Sensitive
Cicuta douglasii	Douglas waterhemlock	Present in Park	Non-Native	OBL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Circaea alpina	small enchanter's nightshade	Present in Park	Native	FAC+	
Cirsium arvense	Canada thistle	Present in Park	Non-Native	FACU+	
Cirsium arvense var. horridum	Canada thistle	Present in Park	Non-Native	FACU+	
Cirsium brevistylum	clustered thistle	Present in Park	Native	FAC	
Cirsium edule	edible thistle	Present in Park	Native	FACU	
Cirsium vulgare	bull thistle	Present in Park	Non-Native	UPL	
Cistanthe umbellata var. caudicifera	Mt. Hood pussypaws	Probably Present	Native	UPL	
Cistanthe umbellata var. umbellata	Mt. Hood pussypaws	Present in Park	Native	UPL	
Clarkia rhomboidea	diamond clarkia	Present in Park	Native	UPL	
Claytonia cordifolia	heartleaf springbeauty	Present in Park	Native	FAC	
Claytonia lanceolata var. chrysantha	lanceleaf springbeauty	Present in Park	Native	FAC	
Claytonia lanceolata var. lanceolata	lanceleaf springbeauty	Present in Park	Native	FAC	
Claytonia perfoliata ssp. intermontana	miner's lettuce	Present in Park	Native	FAC	
Claytonia perfoliata ssp. perfoliata	miner's lettuce	Present in Park	Native	FAC	
Claytonia rubra	miner's lettuce	Present in Park	Native	FAC	
Claytonia sibirica var. sibirica	Siberian springbeauty	Present in Park	Native	FACU	
Clintonia uniflora	bride's bonnet	Present in Park	Native	UPL	
Collinsia grandiflora	large-flowered blue-eyed Mary	Probably Present	Native	UPL	
Collinsia parviflora	blue-eyed Mary	Present in Park	Native	UPL	
Collomia grandiflora	grand collomia	Present in Park	Native	UPL	
Collomia heterophylla	variableleaf collomia	Present in Park	Native	UPL	
Collomia larsenii	talus collomia	Probably Present	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Collomia linearis	slenderleaf collomia	Present in Park	Native	FACW	
Collomia tenella	diffuse collomia	Present in Park	Native	UPL	
Comandra umbellata ssp. pallida	bastard toadflax	Present in Park	Native	UPL	
Comarum palustre	purple marshlocks	Present in Park	Native	OBL	
Conium maculatum	deadly hemlock	Present in Park	Non-Native	UPL	
Conyza canadensis	Canadian horseweed	Present in Park	Non-Native	UPL	
Conyza canadensis var. glabrata	Canadian horseweed	Present in Park	Non-Native	UPL	
Corallorrhiza maculata	spotted coralroot	Present in Park	Native	UPL	
Corallorrhiza maculata var. maculata	summer coralroot	Historic	Native	UPL	
Corallorrhiza mertensiana	Pacific coralroot	Present in Park	Native	UPL	
Corallorrhiza striata	striped coralroot	Present in Park	Native	FACU	
Corallorrhiza trifida	"early coralroot, yellow coralroot"	Present in Park	Native	FAC	
Cornus canadensis	bunchberry dogwood	Present in Park	Native	FAC	
Crepis atribarba ssp. originalis	slender hawksbeard	Present in Park	Native	UPL	
Crepis capillaris	hawk's-beard	Present in Park	Non-Native	FACU+*	
Crepis intermedia	gray hawksbeard	Present in Park	Native	UPL	
Crepis nana ssp. nana	dwarf alpine hawksbeard	Probably Present	Native	UPL	
Cryptantha affinis	quill cryptanth	Present in Park	Native	UPL	
Cryptantha ambigua	basin cryptantha	Present in Park	Native	UPL	
Cryptantha simulans	pinewoods cryptantha	Present in Park	Native	UPL	
Cryptantha torreyana	Torrey's cryptantha	Present in Park	Native	UPL	
Cryptantha torreyana var. torreyana	Torrey's catseye	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Daucus carota	wild carrot	Present in Park	Native	UPL	
Delphinium nuttallianum var. nuttallianum	Nuttal's larkspur	Present in Park	Native	FAC	
Descurainia pinnata var. filipes		Probably Present	Native	UPL	
Descurainia richardsonii var. viscosa		Present in Park	Native	UPL	
Dianthus armeria	"Deptford pink, Deptford's pink"	Present in Park	Non-Native	UPL	
Dianthus barbatus	sweetwilliam	Present in Park	Non-Native	UPL	
Dianthus deltoides	maiden pink	Present in Park	Non-Native	UPL	
Dicentra formosa	Pacific bleeding heart	Present in Park	Native	FACU*	
Digitalis purpurea	purple foxglove	Present in Park	Non-Native	FACW	
Disporum hookeri	drops of gold	Present in Park	Native	UPL	
Disporum hookeri var. oreganum	fairy bell	Present in Park	Native	UPL	
Disporum smithii	fairy lantern	Present in Park	Native	UPL	
Disporum trachycarpum	roughfruit fairybells	Present in Park	Native	UPL	
Draba aurea	golden draba	Probably Present	Native	FACU*	Sensitive
Dodecatheon dentatum	white shootingstar	Probably Present	Native	FAC-	
Dodecatheon jeffreyi	Sierrra shootingstar	Present in Park	Native	FACW+	
Dodecatheon pulchellum	darkthroat shootingstar	Probably Present	Native	FAC	
Douglasia laevigata var. ciliolata	cliff dwarf- primrose	Probably Present	Native	UPL	
Douglasia nivalis	snow dwarf- primrose	Probably Present	Native	UPL	
Draba crassifolia	snowbed draba	Probably Present	Native	UPL	
Draba incerta	Yellowstone draba	Probably Present	Native	UPL	
Draba lonchocarpa var. lonchocarpa	lancepod draba	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Draba lonchocarpa var. thompsonii	lancefruit draba	Present in Park	Native	UPL	
Draba oligosperma	glacier draba	Probably Present	Native	UPL	
Draba paysonii var. treleasii	Trelease's draba	Present in Park	Native	UPL	
Draba praealta	tall draba	Probably Present	Native	UPL	
Draba stenoloba var. nana		Present in Park	Native	NI	
Draba ventosa var. ruaxes	Wind River draba	Probably Present	Native	UPL	
Draba verna	spring draba	Present in Park	Native	UPL	
Draba verna var. boerhaavii	spring draba	Probably Present	Native	UPL	
Drosera anglica	English sundew	Probably Present	Native	OBL	
Drosera rotundifolia	roundleaf sundew	Present in Park	Native	OBL	
Elodea canadensis	Canada waterweed	Probably Present	Native	OBL	
Elmera racemosa	yellow coralbells	Present in Park	Native	UPL	
Elmera racemosa var. puberulenta	yellow coralbells	Present in Park	Native	UPL	
Epipactis gigantea	giant hellebore	Present in Park	Native	OBL	Watch
Epilobium alpinum var. albiflorum	pimpernel willowherb	Present in Park	Native	UPL	
Epilobium alpinum var. clavatum	pimpernel willowherb	Present in Park	Native	UPL	
Epilobium alpinum var. gracillimum	pimpernel willowherb	Probably Present	Native	UPL	
Epilobium alpinum var. lactiflorum	pimpernel willowherb	Present in Park	Native	UPL	
Epilobium alpinum var. nutans	pimpernel willowherb	Present in Park	Native	UPL	
Epilobium anagallidifolium	alpine willowherb	Present in Park	Native	FACU-	
Epilobium brachycarpum	autumn willowherb	Present in Park	Native	UPL	
Epilobium glaberrimum	smooth willowherb	Present in Park	Native	FACW	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Epilobium glaberrimum ssp. glaberrimum	glaucus willowherb	Probably Present	Native	FACW	
Epilobium glaberrimum var. fastigiatum	fringed willowherb	Present in Park	Native	CW	
Epilobium glandulosum	fringed willowherb	Probably Present	Native	UPL	
Epilobium glandulosum var. macounii	fringed willowherb	Probably Present	Native	UPL	
Epilobium glandulosum var. tenue	fringed willowherb	Present in Park	Native	UPL	
Epilobium luteum	yellow willowherb	Present in Park	Native	FACW	
Epilobium minutum	chaparral willowherb	Present in Park	Native	UPL	
Epilobium palustre	marsh willowherb	Present in Park	Native	OBL	
Epilobium watsonii var. occidentale		Present in Park	Native	UPL	
Epilobium watsonii var. parishii		Present in Park	Native	UPL	
Ericameria greenei	slender goldenrod	Probably Present	Native	UPL	
Erigeron acris ssp. debilis	bitter fleabane	Present in Park	Native	FACU	
Erigeron acris var. asteroides		Probably Present	Native	FACU	
Erigeron annuus	annual fleabane	Present in Park	Native	FACU+	
Erigeron aureus	alpine yellow fleabane	Present in Park	Native	UPL	
Erigeron compositus var. discoideus		Probably Present	Native	UPL	
Erigeron compositus var. glabratus		Present in Park	Native	UPL	
Erigeron divergens	spreading fleabane	Present in Park	Native	UPL	
Erigeron filifolius var. filifolius	threadleaf fleabane	Present in Park	Native	UPL	
Erigeron humilis	arctic-alpine daisy	Probably Present	Native	FACW-	
Erigeron leibergii	Leiberg's fleabane	Present in Park	Native	UPL	
Erigeron peregrinus ssp. callianthemus	subalpine fleabane	Present in Park	Native	NI	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Erigeron peregrinus ssp. callianthemus var. angustifolius	subalpine fleabane	Present in Park	Native	NI	
Erigeron peregrinus ssp. callianthemus var. scaposus	subalpine fleabane	Present in Park	Native	NI	
Erigeron peregrinus var. dawsonii	subalpine fleabane	Present in Park	Native	NI	
Erigeron philadelphicus	Philadelphia fleabane	Present in Park	Native	FACU	
Erigeron salishii	Salish fleabane	Present in Park	Native	UPL	Sensitive
Erigeron speciosus var. speciosus	aspen fleabane	Probably Present	Native	UPL	
Erigeron strigosus var. strigosus	prairie fleabane	Present in Park	Native	FACU	
Eriogonum ovalifolium var. nivale	cushion buckwheat	Present in Park	Native	UPL	
Eriogonum ovalifolium var. purpureum	cushion buckwheat	Present in Park	Native	UPL	
Eriogonum pyrolifolium var. coryphaeum	Shasta buckwheat	Present in Park	Native	UPL	
Eriogonum umbellatum var. majus	sulphur-flower buckwheat	Present in Park	Native	UPL	
Eriogonum umbellatum var. umbellatum	sulphur-flower buckwheat	Present in Park	Native	UPL	
Eriophyllum lanatum var. lanatum	common eriophyllum	Present in Park	Native	UPL	
Eriophyllum lanatum var. integrifolium	common eriophyllum	Present in Park	Native	UPL	
Erodium cicutarium	filaree	Present in Park	Non-Native	UPL	
Erysimum arenicola	Cascade wallflower	Present in Park	Native	UPL	
Erysimum arenicola var. torulosum	Cascade wallflower	Present in Park	Native	UPL	
Erythronium grandiflorum	yellow avalanche-lily	Present in Park	Native	FACU	
Eucephalus engelmannii	Engelmann aster	Present in Park	Native	UPL	
Euphorbia cyparissias	cypress spurge	Present in Park	Non-Native	UPL	
Euphorbia peplus	petty spurge	Present in Park	Non-Native	FACW*	
Euphrasia nemerosa	common eyebright	Present in Park	Native	NI	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Eurybia conspicua	eastern showy aster	Present in Park	Native	UPL	
Floerkea proserpinacoides	false mermaidweed	Probably Present	Native	FACW	
Fragaria vesca var. bracteata		Present in Park	Native	UPL	
Fragaria vesca var. crinita		Present in Park	Native	UPL	
Fragaria virginiana	Virginia strawberry	Present in Park	Native	FACU*	
Fragaria virginiana var. platypetala		Present in Park	Native	FACU*	
Fritillaria affinis	checker lily	Present in Park	Native	UPL	
Gaillardia aristata	common gaillardia	Probably Present	Native	UPL	
Galeopsis tetrahit	bristlestem hempnettle	Present in Park	Non-Native	NI	
Galeopsis tetrahit var. tetrahit	hemp nettle	Present in Park	Non-Native	NI	
Galium aparine	catchweed bedstraw	Probably Present	Native	FACU	
Galium aparine var. echinospermum		Present in Park	Native	FACU	
Galium bifolium	twinleaf bedstraw	Present in Park	Native	UPL	
Galium circaezans var. circaezans	licorice bedstraw	Probably Present	Native	UPL	
Galium kamtschaticum	boreal bedstraw	Probably Present	Native	UPL	
Galium odoratum	sweetscented bedstraw	Present in Park	Non-Native	UPL	
Galium oreganum	Oregon bedstraw	Probably Present	Native	UPL	
Galium trifidum var. pacificum		Present in Park	Native	FACW+	
Galium trifidum var. subbiflorum	three petaled bedstraw	Present in Park	Native	FACW+	
Galium triflorum	fragrant bedstraw	Present in Park	Native	FACW	
Gamochaeta purpurea	spoonleaf purple everlasting	Probably Present	Native	FACU	
Gayophytum diffusum	spreading groundsmoke	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Gayophytum humile	dwarf groundsmoke	Present in Park	Native	UPL	
Gayophytum racemosum	blackfoot groundsmoke	Probably Present	Native	UPL	
Gentiana amarella		Probably Present	Native	UPL	
Gentiana calycosa	mountain bog gentian	Present in Park	Native	FACW-	
Gentiana glauca	pale gentian	Probably Present	Native	FAC	
Geranium bicknellii	northern crane's- bill	Probably Present	Native	UPL	
Geranium molle	dovefoot geranium	Present in Park	Non-Native	UPL	
Geranium pusillum	small-flowered crane's-bill	Present in Park	Non-Native	UPL	
Geum macrophyllum	largeleaf avens	Present in Park	Native	FACW*	
Geum macrophyllum var. macrophyllum	largeleaf avens	Present in Park	Native	FACW*	
Gilia aggregata		Probably Present	Native	UPL	
Gilia capillaris	miniature gilia	Present in Park	Native	UPL	
Gilia capitata ssp. capitata	bluehead gilia	Present in Park	Native	UPL	
Geranium robertianum	Robert geranium	Present in Park	Non-Native	UPL	
Githopsis specularioides	common bluecup	Present in Park	Native	NL	Sensitive
Glecoma hederacea	ground ivy	Present in Park	Non-Native	FACU+	
Gnaphalium microcephalum var. thermale		Present in Park	Native	UPL	
Gnaphalium palustre	cudweed	Present in Park	Native	FAC+	
Gnaphalium uliginosum	marsh cudweed	Present in Park	Non-Native	FAC+	
Goodyera oblongifolia	rattlesnake plantain	Present in Park	Native	FACU-	
Gratiola neglecta	clammy hedgehyssop	Probably Present	Native	OBL	
Gypsophila paniculata	baby's breath	Present in Park	Non-Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Habenaria dilatata	Johnnon Haine	Present in Park	Native	UPL	Jiuius
Habenaria dilatata var. leucostachys		Present in Park	Native	UPL	
Habenaria elegans		Present in Park	Native	UPL	
Habenaria greenei		Present in Park	Native	UPL	
Habenaria hyperborea		Present in Park	Native	UPL	
Habenaria sparsiflora		Present in Park	Native	UPL	
Hackelia diffusa var. arida	sagebrush stickseed	Probably Present	Native	UPL	
Hackelia micrantha	meadow stickseed	Present in Park	Native	UPL	
Halimolobos whitedii	Whited's fissurewort	Probably Present	Native	UPL	
Hedysarum boreale mackenzei	northern hedysarum	Probably Present	Native	FACU	
Hemitomes congestum	coneplant	Present in Park	Native	UPL	
Heracleum maximum	cow parsnip	Present in Park	Native	FAC+	
Hesperis matronalis	dame rocket	Present in Park	Non-Native	UPL	
Heterocodon rariflorum	rareflower heterocodon	Present in Park	Native	FAC	
Heterotheca villosa var. minor	hairy false goldenaster	Present in Park	Native	UPL	
Heterotheca villosa var. villosa	hairy false goldenaster	Present in Park	Native	UPL	
Heuchera cylindrica	roundleaf alumroot	Present in Park	Native	UPL	
Heuchera cylindrica var. alpina	alpine alumroot	Present in Park	Native	UPL	
Heuchera cylindrica var. cylindrica	roundleaf alumroot	Present in Park	Native	UPL	
Heuchera glabra	alpine heuchera	Present in Park	Native	UPL	
Heuchera micrantha var. diversifolia	crevice alumroot	Present in Park	Native	UPL	
Hieracium albiflorum	whiteflower hawkweed	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Hieracium aurantiacum	orange hawkweed	Present in Park	Native	UPL	
Hieracium canadense	yellow hawkweed	Probably Present	Native	UPL	
Hieracium cynoglossoides	houndstongue hawkweed	Present in Park	Native	UPL	
Hieracium gracile	slender hawkweed	Present in Park	Native	UPL	
Hieracium pilosella	mouse-ear hawkweed	Present in Park	Non-Native	UPL	
Hieracium scouleri	Scouler's woollyweed	Present in Park	Native	UPL	
Hieracium triste	woolly hawkweed	Present in Park	Non-Native	UPL	
Hieracium umbellatum	narrowleaf hawkweed	Present in Park	Native	UPL	
Hippuris montana	mountain mare's- tail	Present in Park	Native	FACW+	
Hippuris vulgaris	common marestail	Present in Park	Native	OBL	
Humulus lupulus	hops	Present in Park	Non-Native	NI	
Huperzia occidentalis	western clubmoss	Present in Park	Native	FACU	
Hydrophyllum capitatum var. capitatum	ballhead waterleaf	Present in Park	Native	UPL	
Hydrophyllum fendleri var. albifrons	white waterleaf	Present in Park	Native	FAC	
Hydrophyllum tenuipes	Pacific waterleaf	Present in Park	Native	UPL	
Hypochaeris radicata	hairy cat's-ear	Present in Park	Non-Native	FACU*	
Iliamna longisepala	longsepal wild hollyhock	Probably Present	Native	UPL	Sensitive
lliamna rivularis var. rivularis	streambank wild hollyhock	Present in Park	Native	FAC-	
Impatiens noli-tangere	western touch- me-not	Probably Present	Non-Native	FACW	Threatene d
Iris pseudacorus	yellow iris	Present in Park	Non-Native	OBL	
lva xanthifolia	false ragweed	Probably Present	Native	UPL	
Kelloggia galioides	milky kelloggia	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

				Wetland	State
Scientific Name	Common Name	Occurrence	Origin	Rating ¹	Status
Lactuca biennis	tall blue lettuce	Present in Park	Native	FAC	
Lactuca pulchella	blue lettuce	Present in Park	Native	UPL	
Lactuca serriola	prickly lettuce	Present in Park	Non-Native	UPL	
amium maculatum	spotted dead- nettle	Present in Park	Non-Native	UPL	
∟amium purpureum	purple deadnettle	Present in Park	Non-Native	UPL	
Lapsana communis	common nipplewort	Present in Park	Non-Native	UPL	
Lathyrus latifolius	wild sweet-pea	Present in Park	Non-Native	UPL	
Lathyrus nevadensis var. pilosellus	Sierra pea	Present in Park	Native	UPL	
athyrus pauciflorus var. pauciflorus	fewflower pea	Probably Present	Native	UPL	
.avandula angustifolia	English lavender	Present in Park	Non-Native	UPL	
∟emna minor	common duckweed	Probably Present	Native	OBL	
emna trisulca	star duckweed	Probably Present	Native	OBL	
eontodon autumnalis	fall dandelion	Present in Park	Non-Native	FAC*	
Lepidium densiflorum var. elongatum	tall pepperweed	Present in Park	Native	FAC-	
∟epidium densiflorum var. macrocarpum	bigseed pepperweed	Present in Park	Native	FAC-	
Lepidium densiflorum var. pubecarpum	babyseed pepperweed	Present in Park	Native	FAC-	
Lepidium perfoliatum	clasping pepperweed	Present in Park	Non-Native	FAC+	
Lesquerella douglasii	Douglas' bladderpod	Probably Present	Native	UPL	
Leucanthemum vulgare	ox-eye daisy	Present in Park	Non-Native	UPL	
Lewisia columbiana var. columbiana	Columbian lewisia	Present in Park	Native	UPL	
.ewisia pygmaea	pigmy bitterroot	Present in Park	Native	FACU	
Lewisia pygmaea pygmaea	pigmy bitterroot	Present in Park	Native	FACU	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Lewisia triphylla	threeleaf lewisia	Present in Park	Native	UPL	
Ligusticum canbyi	Canby's licoriceroot	Present in Park	Native	FAC	
Ligusticum grayi	Gray's licoriceroot	Present in Park	Native	UPL	
Lilium columbianum	Columbian lily	Present in Park	Native	UPL	
Limosella acaulis	Owyhee mudwort	Present in Park	Native	OBL	
Limosella aquatica	northern mudwort	Probably Present	Native	OBL	
Linanthus harknessii	Harkness' flaxflower	Present in Park	Native	UPL	
Linanthus septentrionalis	northern linanthus	Probably Present	Native	UPL	
Linaria dalmatica	Dalmation toadflax	Present in Park	Non-Native	UPL	
Linaria vulgaris	butter-and-eggs	Present in Park	Non-Native	UPL	
Linnaea borealis	northern twinflower	Present in Park	Native	FACU-	
Linnaea borealis var. longiflora	northern twinflower	Present in Park	Native	FACU-	
Listera caurina	northwestern twayblade	Present in Park	Native	FACU	
Listera convallarioides	broadleaf twayblade	Present in Park	Native	FACU	
Listera cordata	heartleaf twayblade	Present in Park	Native	FACU	
Lithophragma glabrum	bulbous woodlandstar	Unconfirmed	Native	UPL	
Lithophragma parviflorum	smallflower woodland-star	Present in Park	Native	UPL	
Lithospermum ruderale	western stoneseed	Probably Present	Native	UPL	
Lloydia serotina	common alplily	Present in Park	Native	FACU	
Logfia arvensis	field cottonrose	Present in Park	Non-Native	UPL	
Lomatium ambiguum	Wyeth biscuitroot	Present in Park	Native	UPL	
Lomatium brandegeei	Brandegee's desertparsley	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland	State
Scientific Name	fernleaf	Occurrence Present in	Origin Native	Rating ¹ UPL	Status
Lomatium dissectum var. dissectum	biscuitroot	Present in Park			
Lomatium dissectum var. multifidum	carrotleaf biscuitroot	Present in Park	Native	UPL	
Lomatium geyeri	Geyer's biscuitroot	Present in Park	Native	UPL	
Lomatium macrocarpum	bigseed lomatium	Probably Present	Native	UPL	
Lomatium martindalei var. angustatum	Cascade desertparsley	Present in Park	Native	UPL	
Lomatium nudicaule	barestem biscuitroot	Present in Park	Native	UPL	
Lonicera ciliosa	orange honeysuckle	Present in Park	Native	UPL	
Lonicera hispidula	pink honeysuckle	Probably Present	Native	UPL	
Lonicera utahensis	Utah honeysuckle	Probably Present	Native	FAC	
Lotus denticulatus	riverbar bird's- foot trefoil	Probably Present	Native	UPL	
Lotus micranthus	desert deervetch	Probably Present	Native	UPL	
Lotus purshianus		Present in Park	Native	UPL	
Lotus unifoliolatus var. unifoliolatus	American bird's- foot-trefoil	Present in Park	Native	UPL	
Luina hypoleuca	littleleaf silverback	Present in Park	Native	UPL	
Luina nardosmia var. glabrata		Present in Park	Native	UPL	
Luina serpentina	creeping silverback	Present in Park	Native	UPL	
Lunaria annua	annual honesty	Present in Park	Non-Native	UPL	
Lupinus bingenensis var. subsaccatus	Bingen lupine	Present in Park	Native	UPL	
Lupinus latifolius	"broadleaf lupine, broad-leaf lupine"	Present in Park	Native	UPL	
Lupinus latifolius ssp. latifolius	broadleaf lupine	Present in Park	Native	UPL	
Lupinus latifolius var. subalpinus		Present in Park	Native	UPL	
Lupinus polyphyllus ssp. polyphyllus	bigleaf lupine	Probably Present	Native	FAC+	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

				Wetland	State
Scientific Name	Common Name	Occurrence	Origin	Rating ¹	Status
Lupinus polyphyllus var. burkei		Present in Park	Native	FAC+	
Lupinus sellulus var. lobbii	Donner Lake Iupine	Probably Present	Native	UPL	
Lupinus sericeus ssp. sericeus	silky lupine	Probably Present	Native	UPL	
Lupinus wyethii	Wyeth's lupine	Present in Park	Native	UPL	
Lychnis alba	white campion	Present in Park	Non-Native	UPL	
Lychnis coronaria	rose campion	Present in Park	Non-Native	UPL	
Lycopus americanus	American bugleweed	Present in Park	Native	OBL	
Lycopus asper	rough bugleweed	Probably Present	Native	OBL	
Lycopus uniflorus	bugleweed	Present in Park	Native	OBL	
Lysichitum americanum	skunk cabbage	Present in Park	Native	OBL	
Lysimachia ciliata	fringed loosestrife	Present in Park	Native	FACW+	
Lysimachia thyrsiflora	tufted loosestrife	Probably Present	Native	OBL	
Machaeranthera canescens	hoary aster	Probably Present	Native	UPL	
Machaeranthera canescens var. canescens		Present in Park	Native	UPL	
Madia exigua	small tarweed	Present in Park	Native	UPL	
Madia glomerata	mountain tarweed	Present in Park	Native	UPL	
Madia gracilis	slender tarweed	Present in Park	Native	UPL	
Madia minima	least tarweed	Present in Park	Native	UPL	
Madia sativa	coast tarweed	Probably Present	Native	UPL	
Maianthemum dilatatum	false lily of the vally	Present in Park	Native	FAC	
Maianthemum racemosum ssp. racemosum	false Solomon's- seal	Present in Park	Native	FAC-	
Maianthemum racemosum ssp. amplexicaule	feathery false Solomon's-seal	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Maianthemum stellatum	starry false Solomon's seal	Present in Park	Native	FAC-	
Malva neglecta	cheeseweed	Present in Park	Non-Native	U	
Matricaria discoidea	pineappleweed	Present in Park	Non-Native	FACU	
Medicago lupulina	black medic	Present in Park	Non-Native	FAC	
Medicago sativa	alfalfa	Present in Park	Non-Native	UPL	
Melissa officinalis	common balm	Present in Park	Non-Native	UPL	
Mentha arvensis	field mint	Present in Park	Native	FACW-	
Mentha arvensis var. glabrata	field mint	Present in Park	Native	FACW-	
Mentha spicata	spearmint	Present in Park	Non-Native	OBL	
Mentha X piperita	peppermint	Present in Park	Non-Native	FACW+	
Mertensia longiflora	longflower bluebell	Present in Park	Native	UPL	
Mertensia oblongifolia	languid-lady	Probably Present	Native	UPL	
Mertensia paniculata var. porealis	northern bluebells	Present in Park	Native	FACW-	
Microseris nutans	nodding microceris	Present in Park	Native	UPL	
Aicrosteris gracilis		Present in Park	Native	UPL	
Microsteris gracilis var. numilior		Present in Park	Native	UPL	
Mimulus alsinoides	wingstem monkeyflower	Present in Park	Native	OBL	
Mimulus breviflorus	shortflower monkeyflower	Present in Park	Native	FACW	
Mimulus breweri	Brewer's monkeyflower	Present in Park	Native	UPL	
Mimulus floribundus	manyflowered monkeyflower	Present in Park	Native	OBL	
Aimulus guttatus	common monkeyflower	Present in Park	Native	OBL	
Aimulus guttatus guttatus	-	Present in Park	Native	OBL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Mimulus guttatus var. depauperatus		Present in Park	Native	OBL	
Mimulus lewisii	Lewis' monkeyflower	Present in Park	Native	FACW+	
Mimulus moschatus	musk monkeyflower	Present in Park	Native	FACW+	
Mimulus moschatus var. moschatus	muskflower	Present in Park	Native	FACW+	
Mimulus moschatus var. sessilifolius	muskflower	Probably Present	Native	FACW+	
Mimulus tilingii	Tiling's monkeyflower	Present in Park	Native	OBL	
Mimulus tilingii var. caespitosus	subalpine monkeyflower	Present in Park	Native	OBL	
Minuartia nuttallii ssp. nuttallii	Nuttall's sandwort	Probably Present	Native	UPL	
Minuartia obtusiloba	alpine sandwort	Present in Park	Native	FACU-	
Minuartia rossii	Ross' sandwort	Probably Present	Native	UPL	
Minuartia rubella	beautiful sandwort	Present in Park	Native	FACU-	
Mitella breweri	Brewer's miterwort	Present in Park	Native	FAC*	
Mitella caulescens	slightstemmed miterwort	Present in Park	Native	UPL	
Mitella nuda	naked miterwort	Probably Present	Native	FACW	
Mitella pentandra	fivestamen miterwort	Present in Park	Native	FAC*	
Mitella trifida	threeparted miterwort	Present in Park	Native	UPL	
Moehringia lateriflora	bluntleaf sandwort	Probably Present	Native	FAC	
Moehringia macrophylla	largeleaf sandwort	Present in Park	Native	UPL	
Monarda didyma	Oswego tea	Present in Park	Non-Native	FACU	
Moneses uniflora	single delight	Present in Park	Native	FACU	
Monotropa hypopithys	many-flower Indian-pipe	Present in Park	Native	UPL	
Monotropa uniflora	one-flower Indian-pipe	Present in Park	Native	FACU	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Montia diffusa	spreading minerslettuce	Probably Present	Native	UPL	
Montia fontana	fountain miner'slettucer	Present in Park	Native	OBL	
Montia linearis	narrowleaf minerslettuce	Probably Present	Native	UPL	
Montia parvifolia	littleleaf minerslettuce	Present in Park	Native	FACW-	
Montia parvifolia ssp. parvifolia	littleleaf minerslettuce	Present in Park	Native	FACW-	
Mycelis muralis	wild lettuce	Present in Park	Non-Native	UPL	
Myosotis arvensis	forget-me-not	Present in Park	Non-Native	FAC	
Myosotis discolor	changing forget- me-not	Present in Park	Non-Native	FACW	
Myosotis laxa	bay forget-me- not	Probably Present	Native	OBL	
Myosotis scorpioides	forget-me-not	Probably Present	Non-Native	FACW	
Myosotis stricta	strict forget-me- not	Present in Park	Non-Native	UPL	
Myosotis sylvatica var. alpestris		Probably Present	Native	FAC	
Myriophyllum hippuroides	western watermilfoil	Probably Present	Native	OBL	
Myriophyllum sibiricum	American watermilfoil	Probably Present	Native	OBL	
Myriophyllum spicatum	"Eurasian water- milfoil,"	Present in Park	Non-Native	OBL	
Najas flexilis	nodding waternymph	Present in Park	Native	OBL	
Navarretia divaricata	divaricate navarretia	Present in Park	Native	UPL	
Navarretia squarrosa	skunkbush	Present in Park	Native	UPL	
Nemophila breviflora	baby blueeyes	Present in Park	Native	UPL	
Nemophila parviflora var. austiniae	smallflower nemophila	Probably Present	Native	UPL	
Nemophila parviflora var. parviflora	smallflower nemophila	Probably Present	Native	UPL	
Nepeta cataria	catnip	Present in Park	Non-Native	FAC	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Nothocalais troximoides	false agoseris	Present in Park	Native	UPL	
Nuphar lutea ssp. polysepala	Rocky Mountain pond-lily	Present in Park	Native	OBL	
Nuttallanthus canadensis	Canada toadflax	Present in Park	Native	UPL	
Nuttallanthus texanus	Texas toadflax	Present in Park	Native	UPL	
Oenanthe sarmentosa	water parsely	Probably Present	Native	OBL	
Oenothera villosa ssp. strigosa	hairy evening primrose	Present in Park	Native	FAC+	
Opuntia fragilis	fragile cactus	Probably Present	Native	UPL	
Orobanche fasciculata	clustered broomrape	Probably Present	Native	UPL	
Orobanche pinorum	pine broomrape	Probably Present	Native	UPL	
Orobanche uniflora	naked broomrape	Present in Park	Native	FACU	
Orobanche uniflora var. minuta	naked broomrape	Present in Park	Native	FACU	
Orobanche uniflora var. purpurea	naked broomrape	Present in Park	Native	FACU	
Orthilia secunda	oneside wintergreen	Present in Park	Native	FACU	
Osmorhiza berteroi	sweet cicely	Present in Park	Native	UPL	
Osmorhiza depauperata	blunt-fruit sweet- cicely	Probably Present	Native	UPL	
Osmorhiza occidentalis	western sweetroot	Present in Park	Native	UPL	
Osmorhiza purpurea	purple sweetroot	Present in Park	Native	FAC+	
Oxalis corniculata	wood-sorrel	Present in Park	Non-Native	FACU	
Oxalis stricta	common yellow oxalis	Probably Present	Native	UPL	
Oxyria digyna	mountain sorrel	Present in Park	Native	UPL	
Oxytropis campestris var. cusickii	Cusick's locoweed	Probably Present	Native	UPL	
Oxytropis campestris var. gracilis		Probably Present	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Packera cana	woolly groundsel	Present in Park	Native	UPL	
Packera cymbalaria	dwarf arctic ragwort	Probably Present	Native	NI	
Packera cymbalarioides	cleftleaf groundsel	Present in Park	Native	NL	
Packera indecora	elegant groundsel	Present in Park	Native	FACW	
Packera macounii	Siskiyou Mountain ragwort	Present in Park	Native	FACU	
Packera paupercula	balsam groundsel	Present in Park	Native	FAC	
Paeonia brownii	Brown's peony	Probably Present	Native	UPL	
Parnassia fimbriata var. fimbriata	fringed grass of Parnassus	Present in Park	Native	OBL	
Parnassia kotzebuei	Kotzebue's grass of Parnassus	Present in Park	Native	OBL	Threatene d
Parthenocissus quinquefolia	Virginia creeper	Present in Park	Non-Native	NI	
Pectocarya pusilla	purple prairieclover	Probably Present	Native	UPL	
Pedicularis bracteosa var. bracteosa	bracted lousewort	Probably Present	Native	UPL	
Pedicularis bracteosa var. Iatifolia	widepetal lousewort	Present in Park	Native	UPL	
Pedicularis contorta var. contorta	coiled lousewort	Probably Present	Native	UPL	
Pedicularis groenlandica	elephanthead lousewort	Present in Park	Native	FACU	
Pedicularis ornithorhyncha	ducksbill lousewort	Present in Park	Native	OBL	
Pedicularis racemosa ssp. racemosa	sickletop lousewort	Present in Park	Native	UPL	
Pedicularis racemosa var. alba		Present in Park	Native	UPL	
Penstemon attenuatus var. attenuatus	sulphur penstemon	Probably Present	Native	FACU*	
Penstemon confertus	yellow penstemon	Probably Present	Native	UPL	
Penstemon davidsonii	Davidson's penstemon	Present in Park	Native	UPL	
Penstemon davidsonii var. davidsonii	Davidson's penstemon	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Penstemon davidsonii var. menziesii	Menzies' penstemon	Present in Park	Native	UPL	
Penstemon deustus var. deustus	hotrock penstemon	Probably Present	Native	UPL	
Penstemon fruticosus var. fruticosus	bush penstemon	Present in Park	Native	UPL	
Penstemon ovatus	eggleaf beardtongue	Probably Present	Native	UPL	
Penstemon procerus var. procerus	pincushion beardtongue	Present in Park	Native	NI	
Penstemon procerus var. tolmiei	Tolmie's penstemon	Present in Park	Native	NI	
Penstemon pruinosus	Chilean beardtongue	Present in Park	Native	UPL	
Penstemon richardsonii	cutleaf beardtongue	Present in Park	Native	UPL	
Penstemon richardsonii var. richardsonii	Richardson's penstemon	Probably Present	Native	UPL	
Penstemon serrulatus	serrulate penstemon	Present in Park	Native	FACU*	
Penstemon speciosus	royal penstemon	Probably Present	Native	UPL	
Penstemon subserratus	fine toothed beardtongue	Probably Present	Native		
Penstemon washingtonensis	Washington beardtongue	Probably Present	Native	UPL	
Perideridia gairdneri ssp. borealis	common yampah	Probably Present	Native	FAC*	
Petasites frigidus var. nivalis	arctic sweet coltsfoot	Present in Park	Native	FACW-	
Petasites frigidus var. palmatus	arctic sweet coltsfoot	Present in Park	Native	FAC	
Petasites japonicus	Japanese sweet coltsfoot	Present in Park	Non-Native	NL	
Phacelia hastata var. compacta	compact phacelia	Probably Present	Native	UPL	
Phacelia hastata var. hastata	silverleaf phacelia	Present in Park	Native	UPL	
Phacelia hastata var. leptosepala	silverleaf phacelia	Present in Park	Native	UPL	
Phacelia heterophylla ssp. heterophylla	varileaf phacelia	Present in Park	Native	FACU	
Phacelia heterophylla var. pseudohispida		Present in Park	Native	FACU	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Phacelia humilis	low phacelia	Probably Present	Native	UPL	
Phacelia linearis	threadleaf phacelia	Present in Park	Native	UPL	
Phacelia nemoralis	shade phacelia	Present in Park	Native	UPL	
Phacelia nemoralis ssp. oregonensis	Oregon phacelia	Probably Present	Native	UPL	
Phacelia procera	tall phacelia	Present in Park	Native	FAC+	
Phacelia sericea ssp. sericea	silky phacelia	Present in Park	Native	UPL	
Phlox diffusa	spreading phlox	Present in Park	Native	UPL	
Phlox diffusa var. longistylis		Present in Park	Native	UPL	
Phlox hendersonii	Henderson's phlox	Unconfirmed	Native	UPL	
Phlox longifolia	longleaf phlox	Probably Present	Native	UPL	
Phlox paniculata	fall phlox	Present in Park	Non-Native	UPL	
Phlox speciosa	showy phlox	Probably Present	Native	UPL	
Pinguicula vulgaris	common butterwort	Present in Park	Native	OBL	
Piperia elegans	elegant piperia	Present in Park	Native	NI	
Piperia elongata	denseflower rein orchid	Present in Park	Native	NI	
Piperia unalascensis	Alaska rein orchid	Present in Park	Native	NI	
Plagiobothrys scouleri var. hispidulus	meadow popcorn-flower	Present in Park	Native	FACW	
Plagiobothrys tenellus	Pacific popcornflower	Probably Present	Native	FAC	
Plantago lanceolata	English plantain	Present in Park	Non-Native	FAC	
Plantago major	common plantain	Present in Park	Non-Native	FACU+	
Plantago major var. major	broad-leaved plantain	Present in Park	Non-Native	FACU+	
Plantago patagonica	woolly plantain	Present in Park	Native	NL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Platanthera leucostachys	Sierra bog orchid	Present in Park	Native	FACW+	
Platanthera orbiculata	lesser roundleaved orchid	Present in Park	Native	NI	
Platanthera stricta	slender bog orchid	Present in Park	Native	FACW+	
Plectritis congesta	shortspur seablush	Probably Present	Native	FACU	
Plectritis macrocera	longhorn plectritis	Present in Park	Native	FACU+	Threatene d
Polemonium elegans	elegant Jacob's- ladder	Present in Park	Native	UPL	
Polemonium micranthum	annual Jacob's- ladder	Present in Park	Native	UPL	
Polemonium occidentale	western Jacob's- ladder	Present in Park	Native	FACW	
Polemonium pulcherrimum	Jacob's-ladder	Probably Present	Native	UPL	
Polemonium pulcherrimum var. calycinum		Present in Park	Native	UPL	
Polemonium viscosum	sticky Jacob's- ladder	Probably Present	Native	UPL	Sensitive
Polygonum amphibium	water smartweed	Present in Park	Native	OBL	
Polygonum aviculare	knotweed	Present in Park	Non-Native	FACW-	
Polygonum bistortoides	American bistort	Present in Park	Native	FACW*	
Polygonum coccineum	longroot smartweed	Probably Present	Native	UPL	
Polygonum convolvulus	ivy bindweed	Present in Park	Non-Native	FACU-	
Polygonum cuspidatum	bamboo	Present in Park	Non-Native	FACU*	
Polygonum davisiae	Davis' knotweed	Probably Present	Native	UPL	
Polygonum douglasii	Douglas' knotweed	Present in Park	Native	FACU	
Polygonum douglasii ssp. douglasii	Douglas' knotweed	Present in Park	Native	FACU	
Polygonum douglasii var. Iatifolium	Douglas' knotweed	Present in Park	Native	FACU	
Polygonum hydropiper	annual smartweed	Present in Park	Non-Native	OBL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Polygonum hydropiperoides var. setaceum		Present in Park	Native	OBL	
Polygonum kelloggii		Present in Park	Native	UPL	
Polygonum lapathifolium	willow weed	Present in Park	Non-Native	FACW	
Polygonum majus		Present in Park	Native	UPL	
Polygonum minimum	zigzag knotweed	Present in Park	Native	FACU+	
Polygonum nuttallii		Present in Park	Native	UPL	
Polygonum persicaria	ladysthumb smartweed	Present in Park	Native	FACW	
Polygonum phytolaccifolium	poke knotweed	Present in Park	Native	FAC-	
Polygonum sachalinense	giant knotweed	Probably Present	Non-Native	FACU*	
Polygonum viviparum	viviparous bistort	Present in Park	Native	FAC	
Potamogeton alpinus	alpine pondweed	Present in Park	Native	OBL	
Potamogeton amplifolius	large-leaf pondweed	Probably Present	Native	OBL	
Potamogeton berchtoldii		Probably Present	Native	OBL	
Potamogeton epihydrus	ribbonleaf pondweed	Present in Park	Native	OBL	
Potamogeton filiformis	filiform pondweed	Present in Park	Native	OBL	
Potamogeton foliosus	close-leaved pondweed	Probably Present	Native	OBL	
Potamogeton gramineus	variableleaf pondweed	Present in Park	Native	OBL	
Potamogeton illinoensis	Illinois pondweed	Present in Park	Native	OBL	
Potamogeton natans	floatingleaf pondweed	Present in Park	Native	OBL	
Potamogeton nodosus	long-leaved pondweed	Probably Present	Native	OBL	
Potamogeton praelongus	white-stem pondweed	Probably Present	Native	OBL	
Potamogeton pusillus	small pondweed	Probably Present	Native	OBL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Potamogeton richardsonii	Richardson pondweed	Probably Present	Native	OBL	
Potamogeton robbinsii	Robbins' pondweed	Probably Present	Native	OBL	
Potamogeton zosteriformis	flat-stem pondweed	Probably Present	Native	OBL	
Potentilla arguta ssp. convallaria	tall cinquefoil	Present in Park	Native	FACU	
Potentilla diversifolia var. diversifolia	mountain- meadow cinquefoil	Present in Park	Native	FACU	
Potentilla flabellifolia	high mountain cinquefoil	Present in Park	Native	UPL	
Potentilla glandulosa	sticky cinquefoil	Present in Park	Native	FAC-	
Potentilla glandulosa ssp. glandulosa	sticky cinquefoil	Present in Park	Native	FAC-	
Potentilla glandulosa ssp. oseudorupestris	sticky cinquefoil	Probably Present	Native	FAC-	
Potentilla gracilis var. fastigiata	northwest cinquefoil	Probably Present	Native	FAC	
Potentilla norvegica	Norwegian cinquefoil	Present in Park	Non-Native	FAC	
Potentilla recta	erect cinquefoil	Present in Park	Non-Native	UPL	
Potentilla uniflora	one flower cinquefoil	Present in Park	Native	UPL	
Potentilla villosa	villous cinquefoil	Present in Park	Native	UPL	
Prenanthes alata	western rattlesnakeroot	Present in Park	Native	UPL	
Prunella vulgaris	common selfheal	Present in Park	Native	FACU+	
Prunella vulgaris var. anceolata		Present in Park	Native	FACU+	
Pseudognaphalium stramineum	cotton cudweed	Probably Present	Native	FAC+	
Pseudognaphalium viscosum	winged cudweed	Present in Park	Native	UPL	
Pterospora andromedea	woodland pinedrops	Present in Park	Native	UPL	
Pulsatilla occidentalis	white pasqueflower	Present in Park	Native	UPL	
Pyrola asarifolia	pink wintergreen	Present in Park	Native	FACU	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Pyrola asarifolia ssp. asarifolia	pink wintergreen	Present in Park	Native	FACW-	
Pyrola chlorantha	greenflowered wintergreen	Present in Park	Native	FAC	
Pyrola minor	snowline wintergreen	Present in Park	Native	FACU+	
Pyrola picta	white-vein wintergreen	Present in Park	Native	UPL	
Ranunculus acris	meadow buttercup	Present in Park	Non-Native	FACW-	
Ranunculus aquatilis	water buttercup	Present in Park	Native	OBL	
Ranunculus eschscholtzii	Eschscholtz's buttercup	Present in Park	Native	FACW*	
Ranunculus eschscholtzii var. eschscholtzii	Eschscholtz's buttercup	Present in Park	Native	FACW*	
Ranunculus flammula	spearwort buttercup	Present in Park	Native	FACW	
Ranunculus flammula var. filiformis	greater creeping spearwort	Present in Park	Native	FACW	
Ranunculus gelidus	Ice cold buttercup	Present in Park	Native	NI	
Ranunculus gmelinii	Gmelin's buttercup	Present in Park	Native	FACW	
Ranunculus macounii	Macoun buttercup	Present in Park	Native	OBL	
Ranunculus occidentalis	western buttercup	Present in Park	Native	FAC	
Ranunculus orthorhynchus var. orthorhynchus	straightbeak buttercup	Probably Present	Native	FACW-	
Ranunculus repens var. repens	creeping buttercup	Present in Park	Non-Native	FACW	
Ranunculus suksdorfii	Suksdorf's buttercup	Present in Park	Native	NL	
Ranunculus trichophyllus var. trichophyllus	threadleaf crowfoot	Present in Park	Native	OBL	
Ranunculus uncinatus var. parviflorus	Idaho buttercup	Present in Park	Native	FAC-	
Ranunculus verecundus	wetslope buttercup	Present in Park	Native	FAC*	
Romanzoffia sitchensis	Sitka mistmaiden	Present in Park	Native	FACW-	
Rorippa curvisiliqua var. curvisiliqua	western yellowcress	Present in Park	Native	OBL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

				Wetland	State
Scientific Name	Common Name	Occurrence	Origin	Rating ¹	Status
Rorippa islandica	northern marsh yellowcress	Present in Park	Native	NL	
Rorippa palustris ssp. fernaldiana	bog yellowcress	Present in Park	Native	OBL	
Rorippa teres	southern marsh yellowcress	Probably Present	Native	NI	
Rubus pedatus	strawberryleaf raspberry	Present in Park	Native	FAC-	
Rudbeckia hirta	black-eyed Susan	Present in Park	Non-Native	FACU	
Rudbeckia hirta var. pulcherrima	blackeyed Susan	Present in Park	Non-Native	FACU	
Rudbeckia laciniata	rudbeckia	Present in Park	Non-Native	FAC	
Rumex acetosella	red sorrel	Present in Park	Non-Native	FACU+	
Rumex crispus	curly dock	Present in Park	Non-Native	FAC+	
Rumex maritimus	golden dock	Unconfirmed	Native	FACW+	
Rumex obtusifolius	bitter dock	Present in Park	Non-Native	FAC	
Rumex salicifolius	willow dock	Present in Park	Native	FACW	
Rumex salicifolius ssp. triangulivalvis	willow dock	Present in Park	Native	FACW	
Rumex sanguineus	redvein dock	Present in Park	Non-Native	NL	
Rupertia physodes	forest scurfpea	Present in Park	Native	UPL	
Sagina occidentalis		Probably Present	Native	UPL	
Sagina procumbens	birdeye pearlwort	Present in Park	Non-Native	FAC	
Sagina saginoides	alpine pearlwort	Present in Park	Native	FACW-	
Sanguisorba canadensis	Canadian burnet	Present in Park	Native	FACW	
Sanguisorba occidentalis	western burnet	Present in Park	Native	NL	
Sanicula graveolens	northern sanicle	Present in Park	Native	UPL	
Saponaria officinalis	bouncing bet	Present in Park	Non-Native	UPL	
Saussurea americana	American saw- wort	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Saxifraga adscendens ssp. oregonensis	small saxifrage	Probably Present	Native	FACW*	
Saxifraga bronchialis var. austromontana		Present in Park	Native	FACU-	
Saxifraga caespitosa	tufted alpine saxifrage	Present in Park	Native	FAC	
Saxifraga ferruginea var. ferruginea	russethair saxifrage	Present in Park	Native	FAC	
Saxifraga ferruginea var. vreelandii	Vreeland's saxifrage	Present in Park	Native	FAC	
Saxifraga integrifolia	wholeleaf saxifrage	Present in Park	Native	NI	
Saxifraga Iyallii	redstem saxifrage	Present in Park	Native	FACW	
Saxifraga mertensiana	wood saxifrage	Present in Park	Native	FACW	
Saxifraga nelsoniana ssp. cascadensis	heartleaf saxifrage	Present in Park	Native	NL	
Saxifraga nelsoniana ssp. nelsoniana	dotted saxifrage	Present in Park	Native	FAC+	
Saxifraga nidifica var. claytoniifolia	swamp saxifrage	Present in Park	Native	NL	
Saxifraga occidentalis	Alberta saxifrage	Present in Park	Native	FAC	
Saxifraga odontoloma	streambank saxifrage	Present in Park	Native	FACW+	
Saxifraga oppositifolia	purple mountain saxifrage	Present in Park	Native	FACU-	
Saxifraga oregana	bog saxifrage	Probably Present	Native	FACW-	
Saxifraga rivularis	pigmy saxifrage	Present in Park	Native	FACW-	Sensitive
Saxifraga tolmiei	Tolmie's saxifrage	Present in Park	Native	UPL	
Scheuchzeria palustris var. americana		Present in Park	Native	OBL	
Scleranthus annuus	knawel	Present in Park	Non-Native	UPL	
Scrophularia lanceolata	lance-leaf figwort	Probably Present	Native	FAC	
Sedum divergens	Pacific stonecrop	Present in Park	Native	UPL	
Sedum lanceolatum	lanceleaf stonecrop	Present in Park	Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Sedum lanceolatum ssp. lanceolatum	spearleaf stonecrop	Present in Park	Native	UPL	
Sedum lanceolatum var. rupicola	lanceleaved stonecrop	Present in Park	Native	UPL	
Sedum oreganum	Oregon stonecrop	Present in Park	Native	UPL	
Senecio elmeri	Elmer's ragwort	Present in Park	Native	UPL	
Senecio fremontii	Fremont's groundsel	Present in Park	Native	UPL	
Senecio integerrimus var. exaltatus	Columbia groundsel	Present in Park	Native	FACU	
Senecio jacobaea	tansy ragwort	Present in Park	Non-Native	FACU*	
Senecio pseudaureus var. pseudaureus	falsegold groundsel	Present in Park	Native	UPL	
Senecio sylvaticus	wood groundsel	Present in Park	Non-Native	UPL	
Senecio triangularis	arrowleaf groundsel	Present in Park	Native	FACW+	
Senecio vulgaris	old-man-in-the- spring	Present in Park	Non-Native	UPL	
Sibbaldia procumbens	creeping sibbaldiaia	Present in Park	Native	UPL	
Silene acaulis	"cushion-pink, moss campion"	Present in Park	Native	FACW-	
Silene acaulis var. exscapa	moss campion	Present in Park	Native	UPL	
Silene antirrhina	sleepy catchfly	Present in Park	Native	UPL	
Silene armeria	sweet-William catchfly	Present in Park	Non-Native	UPL	
Silene cserei		Present in Park	Non-Native	UPL	
Silene douglasii	catchfly	Present in Park	Native	UPL	
Silene gallica	windmill pink	Present in Park	Non-Native	UPL	
Silene latifolia	bladder campion	Present in Park	Non-Native	UPL	
Silene menziesii	Menzies' campion	Present in Park	Native	FAC	
Silene menziesii ssp. menziesii	Menzies' campion	Present in Park	Native	FAC	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Silene noctiflora	sticky cockle	Present in Park	Non-Native	UPL	
Silene parryi	Parry silene	Present in Park	Native	UPL	
Silene seelyi	Seely's catchfly	Present in Park	Native	UPL	
Silene suksdorfii	Suksdorf's silene	Present in Park	Native	UPL	
Silene vulgaris	bladder campion	Present in Park	Non-Native	UPL	
Sisymbrium altissimum	Jim Hill mustard	Present in Park	Non-Native	FACU-	
Sisymbrium loeselii	tumblemustard	Present in Park	Non-Native	UPL	
Sisymbrium officinale	hedge mustard	Present in Park	Non-Native	UPL	
Smelowskia ovalis	alpine false candytuft	Present in Park	Native	UPL	
Solidago canadensis	Canadian goldenrod	Present in Park	Native	FACU	
Solidago canadensis var. salebrosa	Canadian goldenrod	Present in Park	Native	FACU	
Solidago multiradiata	Rocky Mountain goldenrod	Present in Park	Native	FACU	
Solidago multiradiata var. scopulorum	Rocky Mountain goldenrod	Present in Park	Native	FACU	
Sonchus arvensis	perennial sow- thistle	Present in Park	Non-Native	FACU+	
Sonchus arvensis ssp. uliginosus	field sowthistle	Present in Park	Non-Native	FACU+	
Sonchus asper	prickly sow-thistle	Present in Park	Non-Native	FAC-	
Sonchus oleraceus	common sow- thistle	Present in Park	Non-Native	UPL	
Sparganium angustifolium	narrowleaf burr reed	Present in Park	Native	NL	
Sparganium natans	small bur-reed	Present in Park	Native	OBL	
Spergula arvensis	cornspurry	Present in Park	Non-Native	UPL	
Spergularia rubra	red sandspurry	Present in Park	Non-Native	FAC-	
Spiranthes romanzoffiana	hooded lady's tresses	Present in Park	Native	FACW	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Stachys pilosa var. pilosa	hairy hedgenettle	Probably Present	Native	UPL	
Stellaria borealis ssp. sitchana	Sitka starwort	Present in Park	Native	FACW	
Stellaria calycantha var. oongardiana	northern starwort	Present in Park	Native	FACW	
Stellaria calycantha var. sitchana		Present in Park	Native	FACW	
Stellaria crispa	crispleaved chickweed	Present in Park	Native	FAC+	
Stellaria graminea	lesser starwort	Present in Park	Non-Native	FAC-	
Stellaria longifolia	longleaf chickweed	Present in Park	Native	FACW	
Stellaria longipes	longstalk starwort	Present in Park	Native	FACW-	
Stellaria longipes var. altocaulis		Probably Present	Native	NL	
Stellaria longipes var. ongipes	longstalk starwort	Present in Park	Native	UPL	
Stellaria media	common chickweed	Present in Park	Non-Native	FACU	
Stellaria nitens	shiny chickweed	Present in Park	Native	UPL	
Stenanthium occidentale	western featherbells	Present in Park	Native	FAC*	
Stephanomeria minor var. minor	narrowleaf wirelettuce	Present in Park	Native	UPL	
Streptopus amplexifolius var. amplexifolius	claspleaf twistedstalk	Present in Park	Native	FAC-	
Streptopus lanceolatus var. curvipes	twistedstalk	Present in Park	Native	NL	
Streptopus lanceolatus var. oseus	twistedstalk	Present in Park	Native	NI	
Streptopus streptopoides	small twistedstalk	Present in Park	Native	UPL	
Streptopus streptopoides var. brevipes	small twistedstalk	Present in Park	Native	UPL	
Stuckenia pectinatus	sago pondweed	Probably Present	Native	OBL	
Subularia aquatica	awlwort	Probably Present	Native	OBL	
Symphyotrichum eatonii	Eaton's aster	Present in Park	Native	FAC+	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

var. apricum aster Symphyotrichum foliaceum Cant var. canbyi Symphyotrichum foliaceum alpin var. foliaceum aster	oy's aster e leafybract	Probably Present Present in Park Present in Park Present in	Native Native	NL NL FACW-	
var. canbyi Symphyotrichum foliaceum alpin var. foliaceum aster	e leafybract	Park Present in Park			
var. foliaceum aster		Park	Native	FACW-	
Dawn	/'s aster	Present in			
S <i>ymphyotrichum foliaceum</i> Parry <i>rar. parryi</i>		Park	Native	NL	
Symphyotrichum anceolatum var. hesperium		Present in Park	Native	OBL	
	r western ntain aster	Present in Park	Native	NL	
Symphytum officinale comm	mon comfrey	Present in Park	Non-Native	UPL	
Tanacetum parthenium fever	few	Present in Park	Non-Native	NL	
Tanacetum vulgare comr	mon tansy	Present in Park	Non-Native	NI	
Taraxacum ceratophorum		Present in Park	Native	UPL	
Faraxacum laevigatum rock	dandelion	Present in Park	Non-Native	UPL	
Faraxacum officinale commodand		Present in Park	Non-Native	FACU	
Feesdalia nudicaulis bare: teesd		Present in Park	Non-Native	UPL	
Fellima grandiflora bigflo	ower tellima	Present in Park	Native	UPL	
Thalictrum occidentale west mea	ern dowrue	Present in Park	Native	FACU*	
Thalictrum venulosum veiny	meadowrue	Present in Park	Native	UPL	
<i>Thlaspi montanum var.</i> alpin <i>montanum</i> penn	e ycress	Probably Present	Native	UPL	
Thymus serpyllum thym	е	Present in Park	Non-Native	UPL	
Fiarella trifoliata three foam	eleaf flower	Present in Park	Native	FAC-	
<i>Fiarella trifoliata var. trifoliata</i> three foam	eleaf flower	Probably Present	Native	FAC-	
Fiarella trifoliata var. onele unifoliata foam	eaf flower	Present in Park	Native	FAC-	
Fofieldia glutinosa stick	y tofieldia	Present in Park	Native	NL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Tofieldia glutinosa ssp. brevistyla	sticky tofieldia	Present in Park	Native	NL	
Tolmiea menziesii	youth on age	Present in Park	Native	FAC*	
Tonestus lyallii	Lyall's goldenweed	Present in Park	Native	UPL	
Tragopogon dubius	goatsbeard	Present in Park	Non-Native	UPL	
Tragopogon porrifolius	common salsify	Present in Park	Non-Native	UPL	
Trientalis arctica	northern star- flower	Present in Park	Native	OBL	
Trientalis latifolia	starflower	Present in Park	Native	FAC-	
Trifolium arvense	hare's-foot	Present in Park	Non-Native	UPL	
Trifolium aureum	golden clover	Present in Park	Non-Native	UPL	
Trifolium campestre	large hop clover	Probably Present	Non-Native	UPL	
Trifolium cyathiferum	cup clover	Present in Park	Native	UPL	
Trifolium dubium	hop clover	Present in Park	Non-Native	UPL	
Trifolium hybridum	alsike clover	Present in Park	Non-Native	UPL	
Trifolium pratense	red clover	Present in Park	Non-Native	FACU	
Trifolium repens	white clover	Present in Park	Non-Native	FAC*	
Trillium ovatum	Pacific trillium	Present in Park	Native	UPL	
Tripleurospermum maritima ssp. maritima	false mayweed	Present in Park	Non-Native	FACU	
Trollius laxus var. albiflorus		Present in Park	Native	UPL	
Triteleia hyacinthina	wild hyacinth	Present in Park	Native	UPL	
Typha latifolia	cattail	Present in Park	Native	OBL	
Urtica dioica	stinging nettle	Present in Park	Native	FAC+	
Urtica dioica ssp. gracilis	stinging nettle	Present in Park	Native	FAC+	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Urtica dioica var. Iyallii		Present in Park	Native	FAC+	
Utricularia macrorhiza	common bladderpod	Present in Park	Native	OBL	
Utricularia minor	Lesser bladderpod	Present in Park	Native	OBL	Review group 1
Valeriana scouleri	Scouler's valerian	Present in Park	Native	FAC	
Valeriana sitchensis	Sitka valerian	Present in Park	Native	FAX	
Veratrum viride	green false hellebore	Present in Park	Native	FACW	
Verbascum blattaria	white moth mullein	Present in Park	Non-Native	UPL	
Verbascum thapsus	common mullein	Present in Park	Non-Native	UPL	
Veronica americana	American speedwell	Present in Park	Native	OBL	
Veronica arvensis	common speedwell	Present in Park	Non-Native	FACU*	
Veronica biloba	bilobed speedwell	Present in Park	Non-Native	NL	
Veronica cusickii	Cusick's speedwell	Present in Park	Native	FAC*	
Veronica longifolia	long-leaved speedwell	Present in Park	Non-Native	NL	
Veronica officinalis	Paul's betony	Present in Park	Non-Native	UPL	
Veronica peregrina ssp. xalapensis	hairy purslane speedwell	Present in Park	Native	OBL	
Veronica scutellata	marsh speedwell	Present in Park	Native	OBL	
Veronica serpyllifolia	thyme-leaved speedwell	Present in Park	Non-Native	FAC	
Veronica serpyllifolia ssp. serpyllifolia	thyme-leaved speedwell	Present in Park	Non-Native	FAC	
Veronica serpyllifolia var. humifusa		Probably Present	Native	FAC	
Veronica wormskjoldii	American alpine speedwell	Present in Park	Native	FAC*	
Vicia americana ssp. americana	American vetch	Present in Park	Native	FAC*	
Vicia cracca	bird vetch	Present in Park	Non-Native	UPL	

Appendix B. Checklist of forbs in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Vicia hirsuta	hairy vetch	Present in Park	Non-Native	UPL	
Vicia nigricans ssp. gigantea	giant vetch	Present in Park	Native	UPL	
Vicia sativa ssp. nigra	common vetch	Present in Park	Non-Native	UPL	
Vicia sativa ssp. sativa	common vetch	Present in Park	Non-Native	UPL	
Vicia tetrasperma	slender vetch	Present in Park	Non-Native	UPL	
Vicia villosa	hairy vetch	Present in Park	Non-Native	UPL	
Viola adunca var. adunca	hook-spur violet	Present in Park	Native	FACU/FAC W	
Viola arvensis	wild pansy	Present in Park	Non-Native	FACU*	
Viola glabella	pioneer violet	Present in Park	Native	FACW+	
Viola howellii	Howell's violet	Present in Park	Native	UPL	
Viola macloskeyi ssp. macloskeyi	Macloskey's violet	Present in Park	Native	OBL	
Viola macloskeyi var. pallens	small white violet	Probably Present	Native	OBL	
Viola nephrophylla var. nephrophylla	northern bog violet	Present in Park	Native	FACW	
Viola orbiculata	darkwoods violet	Present in Park	Native	UPL	
Viola palustris	marsh violet	Present in Park	Native	OBL	
Viola palustris var. palustris	marsh violet	Present in Park	Native	OBL	
Viola sempervirens	evergreen violet	Present in Park	Native	UPL	
Viola sheltonii	Shelton violet	Present in Park	Native	UPL	
Vinca major	periwinkle	Present in Park	Non-Native	UPL	
Zigadenus venenosus	death camas	Present in Park	Native	FACU*	
Zigadenus venenosus var. gramineus	deathcamas	Present in Park	Native	FACU*	
Zigadenus venenosus var. venenosus	meadow deathcamas	Present in Park	Native	FACU*	

¹Explanation of abbreviations is found in Appendix G.

Appendix C. Checklist of ferns and fern allies in North Cascades National Park Service Complex.

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Adiantum aleuticum	five-finger fern	Present in Park	Native	UPL	
Adiantum pedatum	maidenhair fern	Present in Park	Native	UPL	
Aspidotis densa	Indian's dream	Present in Park	Native	UPL	
Asplenium trichomanes	maidenhair spleenwort	Present in Park	Native	UPL	
Asplenium trichomanes- ramosum	green spleenwort	Probably Present	Native	UPL	
Athyrium americanum	alpine ladyfern	Present in Park	Native	FAC	
Athyrium distentifolium var. americanum		Present in Park	Native	UPL	
Athyrium filix-femina	common ladyfern	Present in Park	Native	UPL	
Blechnum spicant	deer fern	Present in Park	Native	UPL	
Botrychium lanceolatum	lance-leaf moonwort	Present in Park	Native	FACW	Watch
Botrychium Iunaria	common moonwort	Present in Park	Native	FAC	Watch
Botrychium minganense	Mingan moonwort	Present in Park	Native	NL	Watch
Botrychium montanum	mountain moonwort	Present in Park	Native	NL	
Botrychium multifidum	leathery grapefern	Present in Park	Native	FAC	
Botrychium paradoxum	peculiar moonwort	Probably Present	Native	NL	Threatened
Botrychium pedunculosum	stalked moonwort	Present in Park	Native	NL	Sensitive
Botrychium pinnatum	northern moonwort	Present in Park	Native	NL	Watch
Botrychium virginianum	rattlesnake fern	Present in Park	Native	FAC*	
Cheilanthes gracillima	lace lipfern	Present in Park	Native	UPL	
Cryptogramma acrostichoides	American rockbrake	Present in Park	Native	UPL	
Cryptogramma cascadensis	Cascade rockbrake	Present in Park	Native	UPL	
Cryptogramma crispa	parsley fern	Present in Park	Native	UPL	
Cryptogramma crispa ssp. acrostichoides	parsley fern	Present in Park	Native	UPL	
Cystopteris fragilis	fragile fern	Present in Park	Native	UPL	
Dryopteris arguta	coastal wood fern	Probably Present	Native	NL	
Dryopteris campyloptera	mountain woodfern	Present in Park	Native	NL	
Dryopteris expansa	spreading woodfern	Present in Park	Native	FACW	
Dryopteris filix-mas	male woodfern	Present in Park	Native	NL	

Appendix C. Checklist of ferns and fern allies in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Equisetum arvense	field horsetail	Present in Park	Native	FAC	
Equisetum fluviatile	water horsetail	Present in Park	Native	OBL	
Equisetum hyemale	scouring horsetail	Present in Park	Native	FACW	
Equisetum hyemale var. affine	stout scouringrush	Present in Park	Native	FACW	
Equisetum palustre	marsh horsetail	Present in Park	Native	FACW	
Equisetum telmateia var. braunii	giant horsetail	Present in Park	Native	FACW	
Equisetum variegatum var. variegatum	variegated scouringrush	Probably Present	Native	FACW	
Gymnocarpium disjunctum	Pacific oak fern	Present in Park	Native	UPL	
Gymnocarpium dryopteris	western oak fern	Present in Park	Native	FAC*	
Huperzia haleakalae	Pacific clubmoss	Present in Park	Native	NL	
Huperzia occidentalis	western clubmoss	Present in Park	Native	UPL	
Huperzia selago var. selago		Present in Park	Native	UPL	
Isoetes lacustris	lake quillwort	Probably Present	Native	OBL	
Isoetes tenella	spiny-spore quillwort	Probably Present	Native	OBL	
Isoetes bolanderi	Bolander quillwort	Probably Present	Native	OBL	
Lycopodiella inundata	inundated clubmoss	Present in Park	Native	OBL	Sensitive
Lycopodium alpinum	alpine clubmoss	Present in Park	Native	FAC	
Lycopodium annotinum	stiff clubmoss	Present in Park	Native	FAC	
Lycopodium clavatum	running clubmoss	Present in Park	Native	UPL	
Lycopodium complanatum	groundcedar	Present in Park	Native	UPL	
Lycopodium dendroideum	treelike clubmoss	Present in Park	Native	FACU*	Sensitive
Lycopodium sitchense	Sitka clubmoss	Present in Park	Native	UPL	
Pellaea brachyptera	Sierra cliffbrake	Present in Park	Native	UPL	Sensitive
Phegopteris connectilis	long beechfern	Present in Park	Native	UPL	
Polypodium glycyrrhiza	licorice fern	Present in Park	Native	UPL	
Polypodium hesperium	western polypody	Present in Park	Native	UPL	
Polystichum andersonii	Anderson's hollyfern	Present in Park	Native	UPL	
Polystichum imbricans	narrowleaf swordfern	Probably Present	Native	UPL	
Polystichum imbricans ssp. imbricans	narrowleaf swordfern	Present in Park	Native	UPL	
Polystichum kruckebergii	Kruckeberg's hollyfern	Present in Park	Native	UPL	

Appendix C. Checklist of ferns and fern allies in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Polystichum lemmonii	Lemmon's hollyfern	Present in Park	Native	UPL	
Polystichum lonchitis	northern hollyfern	Present in Park	Native	UPL	
Polystichum munitum	western swordfern	Present in Park	Native	UPL	
Pteridium aquilinum	bracken fern	Present in Park	Native	FACU*	
Pteridium aquilinum var. pubescens	bracken fern	Present in Park	Native	FACU*	
Selaginella densa var. scopulorum	Rocky Mountain clubmoss	Present in Park	Native	UPL	
Selaginella wallacei	Wallace's spikemoss	Present in Park	Native	UPL	
Thelypteris quelpaertensis	queen's-veil maiden fern	Probably Present	Native	NL	
Woodsia oregana	Oregon woodsia	Probably Present	Native	UPL	
Woodsia scopulina	Rocky Mountain woodsia	Present in Park	Native	UPL	

¹Explanation of abbreviations is found in Appendix G.

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex.

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Achnatherum lemmonii var. lemmonii	Lemon's needlegrass	Native	UPL		
Achnatherum nelsonii ssp. dorei	Columbia needlegrass	Present in Park	Native	UPL	
Achnatherum thurberianum	Thurber's needlegrass	Present in Park	Native	UPL	
Agropyron cristatum	crested wheatgrass	Probably Present	Non- Native	UPL	
Agropyron dasystachyum		Probably Present	Native	UPL	
Agrostis capillaris	colonial bentgrass	Present in Park	Non- Native	FAC	
Agrostis exarata	spike bentgrass	Present in Park	Native	FACW	
Agrostis exarata var. exarata	spike bentgrass	Present in Park	Native	FACW	
Agrostis gigantea	redtop	Present in Park	Non- Native	NI	
Agrostis humilis	alpine bentgrass	Present in Park	Native	FACW	
Agrostis idahoensis	Idaho redtop	Present in Park	Native	FACW-	
Agrostis oregonensis	Oregon redtop	Present in Park	Native	FAC	
Agrostis scabra	ticklegrass	Present in Park	Native	FAC	
Agrostis stolonifera		Present in Park	Non- Native	FAC*	
Agrostis variabilis	mountain bentgrass	Present in Park	Native	NI	
Aira caryophyllea	silver hairgrass	Present in Park	Non- Native	UPL	
Aira praecox	little hairgrass	Probably Present	Non- Native	UPL	
Alopecurus aequalis	shortawn foxtail	Present in Park	Native	OBL	
Alopecurus geniculatus	water foxtail	Present in Park	Native	OBL	
Alopecurus pratensis	meadow foxtail	Present in Park	Non- Native	FACW	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Anthoxanthum odoratum	sweet vernalgrass	Probably Present	Non- Native	UPL	
Bromus carinatus	California brome	Present in Park	Native	UPL	
Bromus hordeaceus ssp. hordeaceus	soft brome	Present in Park	Non- Native	UPL	
Bromus inermis	smooth brome	Present in Park	Non- Native	UPL	
Bromus inermis ssp. inermis	smooth brome	Present in Park	Non- Native	UPL	
Bromus japonicus	field brome	Present in Park	Non- Native	UPL	
Bromus marginatus	mountain brome	Present in Park	Native	UPL	
Bromus pacificus	Pacific brome	Present in Park	Native	UPL	
Bromus sitchensis var. sitchensis	Sitka brome	Present in Park	Native	UPL	
Bromus tectorum	cheat grass	Present in Park	Non- Native	UPL	
Bromus vulgaris	Columbia brome	Present in Park	Native	UPL	
Calamagrostis canadensis	bluejoint reedgrass	Present in Park	Native	FACW+	
Calamagrostis canadensis var. canadensis	bluejoint reedgrass	Present in Park	Native	FACW	
Calamagrostis inexpansa		Probably Present	Native	UPL	
Calamagrostis neglecta		Present in Park	Native	UPL	
Calamagrostis purpurascens	purple reedgrass	Present in Park	Native	UPL	
Calamagrostis rubescens	pinegrass	Present in Park	Native	UPL	
Calamagrostis stricta ssp. inexpansa	northern reedgrass	Present in Park	Native	OBL	
Calamagrostis tweedyi	Tweedy's reedgrass	Present in Park	Native	UPL	
Carex albonigra	black-and-white sedge	Probably Present	Native	UPL	
Carex amplifolia	bigleaf sedge	Probably Present	Native	UPL	
Carex aperta	Columbian sedge	Present in Park	Native	UPL	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Carex aquatilis	water sedge	Present in Park	Native	OBL	
Carex aquatilis var. aquatilis	water sedge	Present in Park	Native	OBL	
Carex aquatilis var. dives	Sitka sedge	Present in Park	Native	OBL	
Carex arcta	northern cluster sedge	Present in Park	Native	OBL	
Carex athrostachya	slender-beak sedge	Probably Present	Native	FACW	Review Group 2
Carex atrata var. atrosquama	blackened sedge	Probably Present	Native	UPL	
Carex aurea	golden-fruit sedge	Present in Park	Native	FACW+	
Carex backii	Rocky Mountain sedge	Probably Present	Native	UPL	
Carex bebbii	Bebb's sedge	Probably Present	Native	OBL	
Carex breweri	Brewer's sedge	Present in Park	Native	NI	
Carex brunnescens	brownish sedge	Present in Park	Native	OBL	
Carex buxbaumii	Buxbaum's sedge	Present in Park	Native	OBL	Watch
Carex canescens	silver sedge	Present in Park	Native	FACW+	
Carex capillaris	hair-like sedge	Present in Park	Native	FACW	Threatened
Carex capitata	arctic sedge	Probably Present	Native	FAC	Rare 1
Carex concinnoides	northwestern sedge	Present in Park	Native	UPL	
Carex cusickii	Cusick's sedge	Present in Park	Native	OBL	
Carex deweyana	Dewey sedge	Present in Park	Native	FACU*	
Carex diandra	lesser tussock sedge	Present in Park	Native	OBL	
Carex disperma	softleaf sedge	Present in Park	Native	FACW	
Carex echinata spp. echinata	star sedge	Present in Park	Native		
Carex echinata ssp. phyllomanica	star sedge	Present in Park	Native	OBL	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Carex engelmannii	Engelmann's sedge	Probably Present	Native	UPL	
Carex exsiccata	western inflated sedge	Present in Park	Native	OBL	
Carex feta	greensheathed sedge	Probably Present	Native	FACW	
Carex fracta	fragile sheath sedge	Present in Park	Native	UPL	
Carex geyeri	elk sedge	Probably Present	Native	UPL	
Carex hendersonii	Henderson's sedge	Probably Present	Native	FAC	
Carex heteroneura var. epapillosa	different nerve sedge	Probably Present	Native	FAC	Review Group 2
Carex hoodii	Hood's sedge	Present in Park	Native	FAC	
Carex illota	sheep sedge	Probably Present	Native	FAC	
Carex inops	long stolon sedge	Present in Park	Native	NI	
Carex interior	inland sedge	Probably Present	Native	FACW-	
Carex interrupta	greenfruit sedge	Probably Present	Native	OBL	
Carex jonesii	Jones sedge	Probably Present	Native	UPL	
Carex laeviculmis	smoothstem sedge	Present in Park	Native	FACW	
Carex lasiocarpa var. americana	slender sedge	Present in Park	Native	OBL	
Carex lenticularis	shore sedge	Present in Park	Native	FACW+	
Carex lenticularis var. impressa	fewrib sedge	Probably Present	Native	FACW+	
Carex lenticularis var. Ienticularis	lakeshore sedge	Present in Park	Native	FACW+	
Carex lenticularis var. lipocarpa	Kellogg's sedge	Present in Paark	Native	FACW+	
Carex leptalea	bristly-stalk sedge	Present in Park	Native	OBL	
Carex limosa	mud sedge	Present in Park	Native	OBL	
Carex luzulina	woodrush sedge	Present in Park	Native	OBL	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Carex macrochaeta	longawn sedge	Present in Park	Native	FACW-	
Carex mertensii	Mertens' sedge	Present in Park	Native	FAC	
Carex microptera	ovalhead sedge	Present in Park	Native	FACW	
Carex multicostata	many-ribbed sedge	Present in Park	Native	UPL	
Carex muricata	rough sedge	Present in Park	Native	UPL	
Carex nardina	spike sedge	Present in Park	Native	FACU*	
Carex nebrascensis	Nebraska sedge	Present in Park	Native	OBL	
Carex neurophora	alpine nerved sedge	Probably Present	Native	FACW	
Carex nigricans	black alpine sedge	Present in Park	Native	FACW	
Carex nudata	torrent sedge	Probably Present	Native	FACW	
Carex obnupta	slough sedge	Probably Present	Native	OBL	
Carex ormantha		Present in Park	Native	UPL	
Carex ovalis	eggbract sedge	Probably Present	Native	FACW	
Carex pachystachya	thickhead sedge	Present in Park	Native	FAC	
Carex paupercula		Present in Park	Native	UPL	
Carex pellita	woolly sedge	Present in Park	Native	OBL	
Carex pensylvanica	Pennsylvania sedge	Present in Park	Native	UPL	
Carex petasata	Liddon's sedge	Probably Present	Native	UPL	
Carex phaeocephala	dunehead sedge	Present in Park	Native	FACU	
Carex pluriflora	manyflower sedge	Present in Park	Native	OBL	
Carex praeceptorium	early sedge	Present in Park	Native	FACW+	
Carex praticola	northern meadow sedge	Present in Park	Native	FACW	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Carex presllii	Presl's sedge	Present in Park	Native	FACU	
Carex pseudoscirpoidea	western singlespike sedge	Present in Park	Native	UPL	
Carex pyrenaica	Pyrenean sedge	Present in Park	Native	FAC	
Carex raynoldsii	Raynold's sedgee	Present in Park	Native	FACU	
Carex retrorsa	retrorse sedge	Probably Present	Native	FAC	
Carex rossii	Ross' sedge	Present in Park	Native	UPL	
Carex rostrata	beaked sedge	Present in Park	Native	OBL	
Carex saxatilis var. major		Present in Park	Native	FACW+	Watch
Carex scirpoidea	northern singlespike sedge	Present in Park	Native	FACW+	
Carex scopulorum	Holm's Rocky Mountain sedge	Probably Present	Native	FACW	
Carex sitchensis		Present in Park	Native	OBL	
Carex spectabilis	showy sedge	Present in Park	Native	FACW*	
Carex stipata	owlfruit sedge	Present in Park	Native	OBL	
Carex straminiformis	Shasta sedge	Probably Present	Native	UPL	
Carex unilateralis	one-sided sedge	Probably Present	Native	FACW	
Carex utriculata	Northwest Territory sedge	Present in Park	Native	OBL	
Carex vesicaria	inflated sedge	Present in Park	Native	OBL	
Carex vesicaria var. vesicaria	lesser bladder sedge	Present in Park	Native	OBL	
Carex viridula ssp. viridula	little green sedge	Present in Park	Native	FACW+	
Cinna latifolia	slender wood-reed	Present in Park	Native	FACW	
Dactylis glomerata	orchard grass	Present in Park	Non- Native	FACU	
Danthonia californica	California oatgrass	Present in Park	Native	FACU*	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Danthonia intermedia	timber oatgrass	Present in Park	Native	FACU+	
Danthonia spicata	poverty oatgrass	Present in Park	Native	UPL	
Danthonia unispicata	onespike oatgrass	Present in Park	Native	UPL	
Deschampsia atropurpurea var. latifolia		Present in Park	Native	FACW	
Deschampsia cespitosa ssp. cespitosa	tufted hairgrass	Probably Present	Native	UPL	
Deschampsia danthonioides	annual hairgrass	Present in Park	Native	UPL	
Deschampsia elongata	slender hairgrass	Present in Park	Native	UPL	
Dichanthelium acuminatum var. fasciculatum	western panic grass	Present in Park	Native	FACW	
Dulichium arundinaceum	threeway sedge	Present in Park	Native	NL	
Echinochloa crus-galli		Present in Park	Native	FACW	
Eleocharis acicularis	needle spike-rush	Probably Present	Native	OBL	
Eleocharis ovata	ovoid spike-rush	Probably Present	Native	OBL	
Eleocharis palustris	common spikerush	Present in Park	Native	OBL	
Eleocharis quinqueflora	few-flower spikerush	Present in Park	Native	NI	
Eleocharis suksdorfiana	Suksdorf's spike rush	Present in Park	Native	NI	
Elymus canadensis	Canada wildrye	Present in Park	Native	FAC	
Elymus elymoides ssp. californicus	squirreltail	Present in Park	Native	NI	
Elymus elymoides ssp. elymoides	squirreltail	Present in Park	Native	FACU-	
Elymus glaucus	blue wildrye	Present in Park	Native	FACU	
Elymus glaucus ssp. glaucus	blue wildrye	Present in Park	Native	FACU	
Elymus glaucus var. breviaristatus		Present in Park	Native	FACU	
Elymus glaucus var. jepsonii		Present in Park	Native	FACU	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Elymus hirsutus	hairy wildrye	Present in Park	Native	UPL	
Elymus repens	quackgrass	Present in Park	Non- Native	FAC-	
Elymus trachycaulus ssp. trachycaulus	slender wheatgrass	Present in Park	Native	FAC	
Eriophorum chamissonis	Chamisso's cottongrass	Probably Present	Native	OBL	
Eriophorum angustifolium ssp.angustifolium	tall cottongrass	Present in Park	Native	OBL	
Eriophorum gracile	slender cottongrass	Present in Park	Native	OBL	
Eriophorum polystachion		Present in Park	Native	OBL	
Eriophorum viridicarinatum	tassel cotton-grass	Present in Park	Native	OBL	Sensitive
Festuca brachyphylla	alpine fescue	Present in Park	Native	FACU*	
Festuca brachyphylla ssp. brachyphylla	alpine fescue	Present in Park	Native	FACU*	
Festuca idahoensis var. idahoensis	Idaho fescue	Present in Park	Native	UPL	
Festuca idahoensis var. oregona		Present in Park	Native	UPL	
Festuca occidentalis	western fescue	Present in Park	Native	NI	
Festuca octoflora		Present in Park	Native	UPL	
Festuca rubra ssp. rubra	red fescue	Present in Park	Native	FAC+	
Festuca saximontana var. saximontana	Rocky Mountain fescue	Present in Park	Native	UPL	
Festuca subulata	bearded fescue	Present in Park	Native	FACU+	
Festuca viridula	greenleaf fescue	Present in Park	Native	UPL	
Glyceria borealis	northern mannagrass	Present in Park	Native	OBL	
Glyceria grandis	American mannagrass	Present in Park	Native	NL	
Glyceria striata	fowl manna grass	Present in Park	Native	OBL	
Glyceria striata var. stricta	fowl manna grass	Probably Present	Native	OBL	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Holcus lanatus	velvet grass	Present in Park	Non- Native	FAC	
Hordeum brachyantherum	meadow barley	Present in Park	Native	FACW*	
Hordeum jubatum	foxtail barley	Present in Park	Native	FAC	
Hordeum vulgare	common barely	Present in Park	Native	UPL	
luncus acuminatus	sharp-fruit rush	Probably Present	Native	OBL	
luncus alpinus		Present in Park	Native	UPL	
luncus articulatus	jointed rush	Present in Park	Native	NL	
luncus balticus	Baltic rush	Present in Park	Native	FACW+	
luncus balticus var. balticus	Baltic rush	Probably Present	Native	FACW+	
uncus balticus var. vallicola	Baltic rush	Probably Present	Native	FACW+	
luncus bolanderi	Bolander's rush	Probably Present	Native	OBL	
luncus brachyphyllus	tuftedstem rush	Present in Park	Native	NL	
luncus bufonius	toad rush	Present in Park	Native	OBL	
luncus confusus	Colorado rush	Present in Park	Native	FAC	
luncus covillei	Coville's rush	Probably Present	Native	FACW-	
luncus drummondii var. ubtriflorus	threeflower rush	Present in Park	Native	FACW	
luncus effusus var. conglomeratus	common rush	Present in Park	Non- Native	FACW	
uncus effusus var. gracilis	lamp rush	Probably Present	Native	FACW	
luncus effusus var. pacificus	Pacific rush	Present in Park	Native	FACW	
luncus ensifolius	swordleaf rush	Present in Park	Native	FACW	
luncus ensifolius var. nontanus		Present in Park	Native	FACW	
luncus filiformis	thread rush	Present in Park	Native	FACW+	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Juncus mertensianus	Merten's rush	Present in Park	Native	OBL	
Juncus nodosus	jointed rush	Probably Present	Native	OBL	
Juncus parryi	Parry's rush	Present in Park	Native	FAC+	
Juncus regelii	Regel's rush	Present in Park	Native	FACW	
Juncus supiniformis	hairyleaf rush	Present in Park	Native	FACW	
Juncus tenuis	field rush	Present in Park	Native	FACW-	
Juncus tenuis var. tenuis	poverty rush	Present in Park	Native	FACW-	
Juncus torreyi	Torrey's rush	Probably Present	Native	FACW	
Koeleria macrantha	junegrass	Present in Park	Native	UPL	
Lolium arundinaceum	tall fescue	Present in Park	Non- Native	UPL	
Lolium multiflorum	Italian rye-grass	Present in Park	Non- Native	UPL	
Lolium perenne	rye-grass	Present in Park	Non- Native	FACU	
Lolium temulentum	darnel	Present in Park	Non- Native	UPL	
Luzula arcuata	curved woodrush	Present in Park	Native	UPL	
Luzula campestris	field woodrush	Present in Park	Native	UPL	
Luzula campestris var. congesta		Present in Park	Native	UPL	
Luzula campestris var. frigida		Probably Present	Native	UPL	
Luzula hitchcockii		Present in Park	Native	UPL	
Luzula multiflora var. frigida	common woodrush	Present in Park	Native	FACU	
Luzula multiflora var. multiflora	common woodrush	Present in Park	Native	FACU	
Luzula parviflora	smallflowered woodrush	Present in Park	Native	FAC-	
Luzula piperi	Piper's woodrush	Present in Park	Native	UPL	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Luzula spicata	spiked woodrush	Present in Park	Native	FACU	
Melica bulbosa var. bulbosa		Present in Park	Native	FACU	
Melica harfordii	Harford's oniongrass	Present in Park	Native	UPL	
Melica smithii	Smith's melica	Probably Present	Native	UPL	
Melica spectabilis	purple oniongrass	Present in Park	Native	FAC	
Melica subulata var. subulata	Alaska oniongrass	Probably Present	Native	UPL	
Muhlenbergia filiformis	pullup muhly	Probably Present	Native	FACW-	
Panicum capillare	common panic grass	Present in Park	Native	FACW	
Panicum miliaceum	broomcorn panic	Present in Park	Non- Native	UPL	
Phalaris arundinacea	reed canarygrass	Present in Park	Native	FACW	
Phleum alpinum	alpine timothy	Present in Park	Native	FACW	
Phleum pratense	common timothy	Present in Park	Non- Native	FAC-	
Piptatherum exiguum	little ricegrass	Present in Park	Native	UPL	
Pleuropogon refractus	nodding semaphoregrass	Probably Present	Native	OBL	
Poa abbreviata ssp. pattersonii	Patterson's bluegrass	Present in Park	Native	FACU	
Poa alpina	alpine bluegrass	Present in Park	Native	FAC	
Poa annua	annual bluegrass	Present in Park	Non- Native	FAC	
Poa bulbosa	bulbous blue-grass	Present in Park	Non- Native	UPL	
Poa compressa	flat-stem blue grass	Present in Park	Native	FACU+	
Poa curtifolia	little mountain bluegrass	Present in Park	Native	UPL	
Poa cusickii	Cusick's bluegrass	Probably Present	Native	UPL	
Poa cusickii ssp. epilis	Cusick's bluegrass	Present in Park	Native	UPL	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Poa cusickii ssp. purpurascens	bluegrass	Probably Present	Native	UPL	
Poa grayana		Present in Park	Native	UPL	
Poa interior	inland bluegrass	Present in Park	Native	UPL	
Poa leptocoma ssp. leptocoma	bog bluegrass	Probably Present	Native	FACW+	
Poa leptocoma var. paucispicula		Present in Park	Native	FACW+	
Poa lettermanii	Letterman's bluegrass	Present in Park	Native	UPL	
Poa nervosa var. nervosa	nerved bluegrass	Present in Park	Native	FACU-	
Poa nervosa var. wheeleri		Probably Present	Native	FACU-	
Poa palustris	fowl bluegrass	Present in Park	Non- Native	FAC	
Poa pratensis	Kentucky blue-grass	Present in Park	Non- Native	FAC	
Poa rupicola		Present in Park	Native	UPL	
Poa sandbergi		Present in Park	Native	UPL	
Poa secunda	Sandberg's bluegrass	Present in Park	Native	FACU	
Poa stenantha	northern bluegrass	Present in Park	Native	FACU	
Poa trivialis	rough bluegrass	Present in Park	Non- Native	FACW	
Poa wheeleri	Wheeler's bluegrass	Probably Present	Native	UPL	
Pseudoroegneria spicata	bluebunch wheatgrass	Present in Park	Native	UPL	
Rhynchospora alba	white beaksedge	Present in Park	Native	OBL	
Schoenoplectus acutus var. acutus	hardstem bulrush	Present in Park	Native	OBL	
Scirpus microcarpus	smallfruit bulrush	Present in Park	Native	OBL	
Setaria viridis	green bristlegrass	Present in Park	Non- Native	UPL	
Sporobolus cryptandrus	sand dropseed	Present in Park	Native	FACU-	

Appendix D. Checklist of graminoids in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Stipa occidentalis var. occidentalis	western needlegrass	Present in Park	Native	UPL	
Trichophorum caespitosum	tufted bullrush	Present in Park	Native	OBL	
Thinopyrum intermedium	intermediate wheatgrass	Probably Present	Non- Native	UPL	
Torreyochloa pallida var. pauciflora	pale false mannagrass	Present in Park	Native	OBL	
Trisetum canescens	tall trisetum	Present in Park	Native	UPL	
Trisetum spicatum	spike trisetum	Present in Park	Native	UPL	
Vahlodea atropurpurea	mountain hairgrass	Present in Park	Native	FAC+	
Vulpia microstachys var. microstachys	desert fescue	Present in Park	Non- Native	UPL	
Vulpia microstachys var. pauciflora	Pacific fescue	Present in Park	Non- Native	UPL	

¹Explanation of abbreviations is found in Appendix G.

Appendix E. Checklist of shrubs and vines in North Cascades National Park Service Complex.

				Wetland	State
Scientific Name	Common Name	Occurrence	Origin	Rating ¹	Status
Acer circinatum	vine maple	Present in Park	Native		
Acer negundo	box elder	Present in Park	Non-Native	FAC+	
Alnus sinuata	slide alder	Present in Park	Native	FACW	
Amelanchier alnifolia	Pacific serviceberry	Present in Park	Native	FACU	
Amelanchier alnifolia var. alnifolia	Saskatoon serviceberry	Present in Park	Native	FACU	
Amelanchier alnifolia var. cusickii	Cusick's serviceberry	Present in Park	Native	FACU	
Amelanchier alnifolia var. humptulipensis	Saskatoon serviceberry	Present in Park	Native	FACU	
Amelanchier alnifolia var. semiintegrifolia	Pacific serviceberry	Present in Park	Native	FACU	
Arctostaphylos nevadensis	pinemat manzanita	Present in Park	Native	UPL	
Arctostaphylos uva-ursi	kinnikinnick	Present in Park	Native	UPL	
Aruncus dioicus var. vulgaris	bride's feathers	Present in Park	Native	FACU+	
Buddleja davidii	butterfly bush	Present in Park	Non-Native	NL	
Berberis chinensis		Present in Park	Non-Native	UPL	
Cassiope mertensiana var. mertensiana	western moss heather	Present in Park	Native	FACU+	
Cassiope tetragona var. saximontana	white mountain heather	Present in Park	Native	FACU+	
Ceanothus sanguineus	redstem ceanothus	Present in Park	Native	UPL	
Ceanothus velutinus	snowbush	Present in Park	Native	UPL	
Ceanothus velutinus var. hookeri	Hooker's ceanothus	Present in Park	Native	UPL	
Ceanothus velutinus var. velutinus	snowbrush ceanothus	Present in Park	Native	UPL	
Clematis ligusticifolia	virgins bower	Present in Park	Native	FAC-	

Appendix E. Checklist of shrubs and vines in North Cascades National Park Service Complex (continued).

				Wetland	State
Scientific Name	Common Name	Occurrence	Origin	Rating ¹	Status
Clematis vitalba	travelers-joy	Present in Park	Non-Native	UPL	
Cornus sericea ssp. occidentalis	western dogwood	Present in Park	Native	FACW	
Cornus sericea ssp. sericea	redosier dogwood	Present in Park	Native	FACW	
Corylus cornuta var. californica	California hazel	Present in Park	Native	FACU	
Crataegus columbiana var. columbiana	Columbian hawthorn	Probably Present	Native	UPL	
Crataegus douglasii	black hawthorn	Present in Park	Native	FAC	
Crataegus douglasii var. douglasii	black hawthorn	Probably Present	Native	FAC	
Crataegus monogyna	singleseed hawthorn	Present in Park	Non-Native	FACU+	
Crataegus suksdorfii	Suksdorf's hawthorn	Present in Park	Native	NL	
Cytisus scoparius	Scotch broom	Present in Park	Non-Native	UPL	
Cytisus scoparius var. andreanus	Scotch-broom	Present in Park	Non-Native	UPL	
Cytisus scoparius var. scoparius	Scotch-broom	Present in Park	Non-Native	UPL	
Dasiphora floribunda	shrubby cinquefoil	Present in Park	Native	UPL	
Dryas octopetala var. hookeriana	Hooker's mountain- avens	Probably Present	Native	UPL	
Elliottia pyroliflorus	copperbush	Present in Park	Native	UPL	
Empetrum nigrum	black crowberry	Present in Park	Native	FAC	
Frangula purshiana	cascara buckthorn	Present in Park	Native	FAC-	
Gaultheria humifusa	western wintergreen	Present in Park	Native	FACW	
Gaultheria ovatifolia	western teaberry	Present in Park	Native	FAC	
Gaultheria shallon	salal	Present in Park	Native	FACU*	
Harrimanella stelleriana	Alaska bellheather	Present in Park	Native	FACU	
Hedera helix	English ivy	Present in Park	Non-Native	UPL	

Appendix E. Checklist of shrubs and vines in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Holodiscus discolor	oceanspray	Present in Park	Native	UPL	
Kalmia microphylla	alpine bog laurel	Present in Park	Native	FACW+	
Ledum glandulosum var. glandulosum	Labrador tea	Present in Park	Native	OBL	
Loiseleuria procumbens	alpine azalea	Probably Present	Native	NL	
Lonicera involucrata	twinberry honeysuckle	Present in Park	Native	FAC+	
Lonicera involucrata var. involucrata	black twin-berry	Present in Park	Native	FAC+	
Luetkea pectinata	partridgefoot	Present in Park	Native	UPL	
Mahonia aquifolium	hollyleaved barberry	Present in Park	Native	UPL	
Mahonia nervosa	Cascade barberry	Present in Park	Native	UPL	
Mahonia repens	Oregon grape	Present in Park	Native	UPL	
Malus fusca	Oregon crabapple	Present in Park	Native	FACW	
Melilotus alba	white sweet-clover	Present in Park	Non-Native	FACU	
Melilotus officinalis	yellow sweet-clover	Present in Park	Non-Native	FACU	
Menziesia ferruginea	rusty menziesia	Present in Park	Native	FACU+	
Myrica gale	sweetgale	Probably Present	Native	OBL	
Oemleria cerasiformis	Indian plum	Present in Park	Native	FACU	
Oplopanax horridus	devilsclub	Present in Park	Native	FAC+	
Paxistima myrsinites	Oregon boxleaf	Present in Park	Native	UPL	
Philadelphus lewisii	Lewis' mock orange	Present in Park	Native	UPL	
Phyllodoce empetriformis	pink mountain heather	Present in Park	Native	FACU*	
Phyllodoce glanduliflora	yellow mountain heather	Present in Park	Native	FACU*	
Phyllodoce X intermedia	hybrid mountain heather	Present in Park	Native	NL	

Appendix E. Checklist of shrubs and vines in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Physocarpus capitatus	Pacific ninebark	Present in Park	Native	FACW-	
Prunus emarginata	bittercherry	Present in Park	Native	FACU	
Prunus emarginata var. emarginata	bittercherry	Present in Park	Native	FACU	
Prunus emarginata var, melanocarpa	bittercherry	Present in Park	Native	FACU	
Prunus emarginata var. mollis	bitter cherry	Present in Park	Native	FACU	
Prunus virginiana var. demissa	western chokecherry	Present in Park	Native	FACU	
Pyrus communis	common pear	Present in Park	Non-Native	UPL	
Rhododendron albiflorum	Cascade azalea	Present in Park	Native	FACU	
Ribes acerifolium	mapleleaf currant	Present in Park	Native	NI	
Ribes bracteosum	stink currant	Present in Park	Native	FAC	
Ribes divaricatum	spreading gooseberry	Present in Park	Native	FAC*	
Ribes hudsonianum var. petiolare	western black currant	Present in Park	Native	FACW	
Ribes lacustre	prickly currant	Present in Park	Native	FAC+	
Ribes laxiflorum	trailing black currant	Present in Park	Native	NL	
Ribes sanguineum	redflower currant	Present in Park	Native	UPL	
Ribes triste	swamp red currant	Present in Park	Native	FAC	
Ribes viscosissimum var. viscosissimum	sticky currant	Present in Park	Native	FACW*	
Ribes watsonianum	spring gooseberry	Present in Park	Native	UPL	
Rosa gymnocarpa	dwarf rose	Present in Park	Native	FACW*	
Rosa nutkana	Nootka rose	Present in Park	Native	FAC	
Rosa nutkana var. hispida	bristly Nootka rose	Present in Park	Native	FAC	
Rosa nutkana var. nutkana	Nootka rose	Present in Park	Native	FAC	

Appendix E. Checklist of shrubs and vines in North Cascades National Park Service Complex (continued).

				Wetland	State
Scientific Name	Common Name	Occurrence	Origin	Rating ¹	Status
Rubus discolor	Himalaya blackberry	Present in Park	Non-Native	FACU	
Rubus idaeus ssp. strigosus	common red raspberry	Present in Park	Native	FACU	
Rubus laciniatus	evergreen blackberry	Present in Park	Non-Native	FACU+	
Rubus lasiococcus	roughfruit berry	Present in Park	Native	UPL	
Rubus leucodermis	western raspberry	Present in Park	Native	UPL	
Rubus parviflorus	thimbleberry	Present in Park	Native	FAC-	
Rubus parviflorus var. parviflorus	thimbleberry	Present in Park	Native	FAC-	
Rubus spectabilis	salmonberry	Present in Park	Native	FAC+	
Rubus ursinus	California blackberry	Present in Park	Native	FACU	
Rubus ursinus ssp. macropetalus	California blackberry	Present in Park	Native	FACU	
Salix barclayi	Barclay's willow	Present in Park	Native	FAC	
Salix bebbiana	Bebb's willow	Present in Park	Native	FACW	
Salix boothii	Booth's willow	Present in Park	Native	FACW	
Salix cascadensis	Cascade willow	Present in Park	Native	NL	
Salix commutata	undergreen willow	Present in Park	Native	OBL	
Salix lasiandra	Pacific willow	Present in Park	Native	FACW+	
Salix lucida ssp. caudata	shining willow	Present in Park	Native	FACW+	
Salix melanopsis	dusky willow	Present in Park	Native	OBL	
Salix monticola	park willow	Present in Park	Native	OBL	
Salix nivalis	snow willow	Present in Park	Native	NL	
Salix petrophila	alpine willow	Present in Park	Native	NL	
Salix planifolia	diamondleaf willow	Probably Present	Native	OBL	

Appendix E. Checklist of shrubs and vines in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Salix prolixa	MacKenzie's willow	Present in Park	Native	NL	
Salix scouleriana	Scouler's willow	Present in Park	Native	FAC	
Salix sitchensis	Sitka willow	Present in Park	Native	FACW	
Salix vestita var. erecta	rock willow	Probably Present	Native	FAC	
Sambucus cerulea var. cerulea	blue elderberry	Present in Park	Native	FACU	
Sambucus racemosa var. racemosa	red elderberry	Present in Park	Native	FACU	
Shepherdia canadensis	russet buffalo-berry	Present in Park	Native	NI	
Sorbus aucuparia	European mountainash	Present in Park	Non-Native	NL	
Sorbus scopulina var. cascadensis	Cascade mountain ash	Present in Park	Native	FACU	
Sorbus scopulina var. scopulina	Cascade mountain ash	Present in Park	Native	FACU	
Sorbus sitchensis var. grayi	western mountain ash	Present in Park	Native	FACU	
Sorbus sitchensis var. sitchensis	Sitka mountain ash	Present in Park	Native	FACU	
Spiraea betulifolia	white spirea	Present in Park	Native	UPL	
Spiraea betulifolia var. lucida	shinyleaf spirea	Present in Park	Native	UPL	
Spiraea douglasii	rose spirea	Present in Park	Native	FACW	
Spiraea douglasii var. douglasii	rose spirea	Present in Park	Native	FACW	
Spiraea douglasii var. menziesii	Menzies' spirea	Present in Park	Native	FACW	
Spiraea splendens var. splendens	Sierra spirea	Present in Park	Native	FACU	
Spiraea X pyramidata	pyramid spirea	Present in Park	Native	NL	
Symphoricarpos albus	common snowberry	Present in Park	Native	FACU	
Symphoricarpos albus var. albus	common snowberry	Present in Park	Native	FACU	
Symphoricarpos albus var. laevigatus	common snowberry	Present in Park	Native	FACU	

Appendix E. Checklist of shrubs and vines in North Cascades National Park Service Complex (continued).

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Vaccinium caespitosum	dwarf bilberry	Present in Park	Native	FACU+	
Vaccinium deliciosum	Cascade bilberry	Present in Park	Native	UPL	
Vaccinium membranaceum	thinleaf huckleberry	Present in Park	Native	FACU+	
Vaccinium ovalifolium	oval-leaf blueberry	Present in Park	Native	UPL	
Vaccinium parvifolium	red huckleberry	Present in Park	Native	UPL	
Vaccinium scoparium	grouseberry	Present in Park	Native	UPL	
Vaccinium uliginosum	Bog blueberry	Present in Park	Native	FAC+	
Viburnum edule	squashberry	Present in Park	Native	FACW	
Viburnum opulus var. americanum	American cranberrybush	Present in Park	Native	FACW-	

¹Explanation of abbreviations is found in Appendix G.

Appendix F. Checklist of trees in North Cascades National Park Service Complex

Scientific Name	Common Name	Occurrence	Origin	Wetland Rating ¹	State Status
Abies amabilis	Pacific silver fir	Present in Park	Native	FACU	
Abies grandis	grand fir	Present in Park	Native	FACU-*	
Abies lasiocarpa	subalpine fir	Present in Park	Native	FACU	
Acer glabrum var. douglasii	Douglas maple	Present in Park	Native	FAC-	
Acer macrophyllum	Big-leaf maple	Present in Park	Native	FACU	
Alnus incana ssp. tenuifolia	mountain alder	Probably Present	Native	FACW	
Alnus rubra	red alder	Present in Park	Native	FAC	
Betula occidentalis	water birch	Present in Park	Native	FACW	
Betula papyrifera var. commutata	western paper birch	Present in Park	Native	FAC*	
Castanea crenata	Japanese chestnut	Present in Park	Non-Native	UPL	
Chamaecyparis nootkatensis	Alaska yellow- cedar	Present in Park	Native	UPL	
Cornus nuttallii	Pacific dogwood	Present in Park	Native	UPL	
llex aquifolium	English holly	Probably Present	Non-Native	UPL	
Juglans cinerea	butternut	Present in Park	Non-Native	UPL	
Juniperus communis var communis	common juniper	Probably Present	Native	UPL	
Juniperus communis var. depressa	common juniper	Probably Present	Native	UPL	
Juniperus communis var. montana	common juniper	Present in Park	Native	UPL	
Juniperus scopulorum	Rocky Mountain juniper	Present in Park	Native	UPL	
Larix Iyallii	subalpine larch	Present in Park	Native	UPL	
Larix occidentalis	mountain larch	Probably Present	Native	FACU+	
Picea engelmannii	Engelmann spruce	Present in Park	Native	FAC	
Pinus albicaulis	whitebark pine	Present in Park	Native	UPL	
Pinus contorta	lodgepole pine	Present in Park	Native	FAC	
Pinus contorta var. latifolia	lodgepole pine	Present in Park	Native	FAC	
Pinus monticola	western white pine	Present in Park	Native	FACU	
Pinus ponderosa	ponderosa pine	Present in Park	Native	FACU-	

Appendix F. Checklist of trees in North Cascades National Park Service Complex (continued).

0: 46 N	Common			Wetland	State
Scientific Name	Name	Occurrence	Origin	Rating ¹	Status
Populus balsamifera ssp. trichocarpa	black cottonwood	Present in Park	Native	FAC	
Populus tremuloides	quaking aspen	Present in Park	Native	UPL	
Populus trichocarpa	black cottonwood	Present in Park	Native	FAC	
Pseudotsuga menziesii	Douglas-fir	Present in Park	Native	FACU*	
Pseudotsuga menziesii var. menziesii	Douglas-fir	Present in Park	Native	FACU*	
Quercus robur	English oak	Present in Park	Non-Native	UPL	
Robinia hispida	Robinia	Present in Park	Non-Native	UPL	
Robinia pseudo-acacia	false acacia	Present in Park	Non-Native	FACU	
Taxus brevifolia	Pacific yew	Present in Park	Native	NI	
Thuja plicata	western red cedar	Present in Park	Native	FAC	
Tsuga heterophylla	western hemlock	Present in Park	Native	FACU-	
Tsuga mertensiana	mountain hemlock	Present in Park	Native	FACU	

¹Explanation of abbreviations is found in Appendix G.

Appendix G. Guide to abbreviations used to describe wetland indicator status.

Indicator	Wetland	
Code	Туре	Comment
OBL	Obligate Wetland	Occurs almost always (estimated probability 99%) under natural conditions in wetlands.
FACW	Facultative Wetland	Usually occurs in wetlands (estimated probability 67%–99%), but occasionally found in non-wetlands.
FAC	Facultative	Equally likely to occur in wetlands or non-wetlands (estimated probability 34%–66%).
FACU	Facultative Upland	Usually occurs in non-wetlands (estimated probability 67%–99%), but occasionally found on wetlands (estimated probability 1%–33%).
UPL	Obligate Upland	Occurs in wetlands in another region, but occurs almost always (estimated probability 99%) under natural conditions in non-wetlands in the regions specified. If a species does not occur in wetlands in any region, it is not on the National List.
NI	No indicator	Insufficient information was available to determine an indicator status.
NL	Not Listed	Species that were not included within the USFWS list and were not known to be UPL species

Note: This list was derived from the those species entered in NPSpecies The Wetland Indicator Status for each species is data gathered from USFWS lists of vascular plant species that occur in wetlands. The indicator codes are explained below. The NOCA list also includes a denotation of NL, Not Listed; this code was used for wetland species that were not included in the USFWS list and were not known to be obligate upland plants (UPL).



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