



Vascular Plant Inventory of Mount Rainier National Park

Natural Resource Technical Report NPS/NCCN/NRTR—2010/347



ON THE COVER

Mount Rainier and meadow courtesy of 2007 Mount Rainier National Park Vegetation Crew

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Contents

	Page
Figures.....	iv
Tables.....	v
Abstract.....	vi
Introduction.....	1
Methods.....	3
Data mining	3
Field based survey approaches	3
<i>Sensitive plant species surveys</i>	3
<i>Under-surveyed areas</i>	3
Results.....	5
Data mining	5
Field based survey approaches	7
<i>Sensitive plant species surveys</i>	7
<i>Under-surveyed areas</i>	7
Discussion.....	9
Literature Cited	11
Appendix A. Checklist of ferns and fern allies in Mount Rainier National Park	13
Appendix B. Checklist of Forbs of Mount Rainier National Park.....	17
Appendix C. Checklist of grasses, sedges, and rushes of Mount Rainier National Park.....	35
Appendix D. Checklist of shrubs and vines of Mount Rainier National Park.....	41
Appendix E. Checklist of Trees of Mount Rainier National Park	44
Appendix F. Guide to abbreviations used to describe wetland indicator status ¹	46
Appendix G. Plant species or herbarium specimens in need of further documentation	47

Figures

	Page
Figure 1. Locations of seven parks within the North Coast and Cascades Network of Parks.....	2
Figure 2. Map illustrating locations of plant collections in Mount Rainier National Park.....	4
Figure 3. Herbarium specimen of <i>Castilleja oreopola</i> collected in Mount Rainier NP by O.D. Allen in 1897 and stored in a collection at Harvard University,.....	6
Figure 4. Peter Del Zotto and Arnie Peterson pressing specimens in the Tatoosh Range (photo by Ben Legler, UW)	7
Figure 5. Map illustrating locations of Botany Forays.	8

Tables

	Page
Table 1. Sensitive species targeted for field surveys.	5
Table 2. Summary of species verification by stage of inventory	6
Table 3. Summary of new verifications for vascular species in Mount Rainier National Park	9
Table 4. Summary of plant species in Mount Rainier by growth form and origin	9

Abstract

The vascular plant inventory for Mount Rainier National Park was conducted between 2000 and 2007. Initially, the park had a vascular plant species list of 959 species, 56% of which were verified by herbarium specimens, 39% were documented by scientific studies, and the remaining 5% were unverified but were on the list based on species ranges. Our objectives for the vascular plant inventory were: 1) improve the quality of the species verification by increasing the number voucher specimens and 2) to verify the presence of sensitive plants that were listed as occurring within the park. Data mining was the first step of the project and involved in-person and on-line searches of 9 collections. Data mining located 1,099 specimens which increased the voucher-based verifications by 14%. Field inventories of undersurveyed areas and likely habitats of sensitive species were conducted from 2004 to 2007 in partnership with the University of Washington. These Botany Forays resulted in a final vascular plant species list of 973 species, verified at the 97% level: 74% by vouchers, 23% by scientific studies, and only 3% are unverified.

Acknowledgments

I would like to thank Laurie Kurth for planning and coordinating all field surveys. Data mining was conducted by Katherine Beirne, Ronald Holmes, Brenda Cunningham, Sharon Rodman, Josh Seerup, Catherine Bruno, Arnie Peterson, and Jason Lovelady. Dr. David Giblin supervised the Botany Forays, recruiting volunteers, identifying and preparing herbarium specimens, entering all data into databases, and developing the NPS Botany Foray website. Peter Del Zotto and Ben Legler assisted in leading many of the forays and foray participants included: Arnie Peterson, Jessica Waite, Judy Runge, Megan Jensen, Richard Ramsden, Vicki Weafer, Dan Paquette, Sharon Rodman, LaraMassey, Lindsey Kopeke, Lucia Harrison, Karen Larson, Monica Delmartinii, Sarah Gage, Cindy Gentry, Erin Younger, Navina Leibow, Deanna Goldy, and Don Knoke. Lise Grace, Ronald Holmes, and Bret Christoe entered the data into the NPSpecies database. Anne Braaten and Lise Grace developed the maps used in this report, Joe Oelfke assisted with compiling the tables, and Lise Grace and Ronald Holmes assisted with the formatting of this report.

Introduction

The National Park Service's primary mission is to conserve unimpaired the natural and cultural resources and values of the national park system for the enjoyment of this and future generations. Currently, the Service is unable to attain its mission in many parks, owing to a serious lack of scientific information about the nature and condition of resources in those parks, especially biological resources. In 1992, the National Park Service's (NPS) Inventory and Monitoring Program identified a list of candidate elements and processes for initial inventory in all natural resource parks, proposed the establishment of prototype inventory and monitoring parks, and outlined national implementation guidelines. The National Parks Omnibus Management Act of 1998 recognized the need for good scientific information to manage parks. The act mandated a "program of inventory and monitoring of National Park System resources to establish baseline information and to provide information on the long-term trends in the condition of National Park System resources". Funding acquired through the Natural Resource Challenge (1999) provided the financial resources for National Park Service to initiate Species Inventory Programs focusing on vertebrates and vascular plants. The basic goal of this program is to provide park managers with comprehensive, scientifically-based information about the nature and status of selected biological resources occurring within park boundaries in a format that increases its accessibility and utility for making management decisions, for scientific research, and to share this information with the public.

Inventory and monitoring programs were funded and designed within 32 networks of parks across the National Park Service. The North Coast and Cascade Network (NCCN) includes: Ebey's Landing National Historical Reserve (EBLA), Fort Clatsop National Memorial (FOCL), Fort Vancouver National Historic Site (FOVA), North Cascades National Park Service Complex (NOCA), Mount Rainier National Park (MORA), Olympic National Park (OLYM), and San Juan National Historic Park (SAJH) (Figure 1). The basic goal of the inventory program was to compile species lists of vascular plants and vertebrates, for each park, and verify these lists at the 90% level. Verification was defined as documentation by voucher specimens, scientific studies, written observations, or photographs. Summaries of existing data revealed a wide range in volume and quality of existing information on species presence in the NCCN parks (Rochefort et al 2009).

Mount Rainier National Park was established on March 2, 1899 encompassing 95,354 ha on the west-side of the Cascade Range, about 100 kilometers (50 miles) southeast of the Seattle-Tacoma metropolitan area (Figure 1). At 4,394 m (14,411 ft), Mount Rainier is the most prominent peak in the Cascade Range. Vegetation is diverse, reflecting the varied climatic and environmental conditions encountered across the park's 3,902 m (12,800 ft) elevation gradient. Approximately 58 percent of the park is forested, 23 percent is subalpine parkland, and the remainder is alpine, half of which is vegetated and the other half consists of permanent snow and ice. Forest ages range from less than 100 years old on burned areas and moraines left by receding glaciers to old-growth stands 1,000 or more years old. Some alpine heather communities have persisted in the park for up to 10,000 years. There is a long history of plant studies and collecting in MORA (Biek, 2000). However, as we began to compile existing data and develop objectives for individual parks, we were surprised to find that the vascular plants of MORA were already documented at the 95% level (56% by vouchers). In fact, there were over 400 herbarium specimens that had been collected between 1893 and 1899. Our objectives for the

Mount Rainier vascular plant inventory were: 1) improve the quality of our verification by increasing the number of species documented by voucher specimens and 2) to verify the presence of sensitive plants that were listed as occurring within the park.

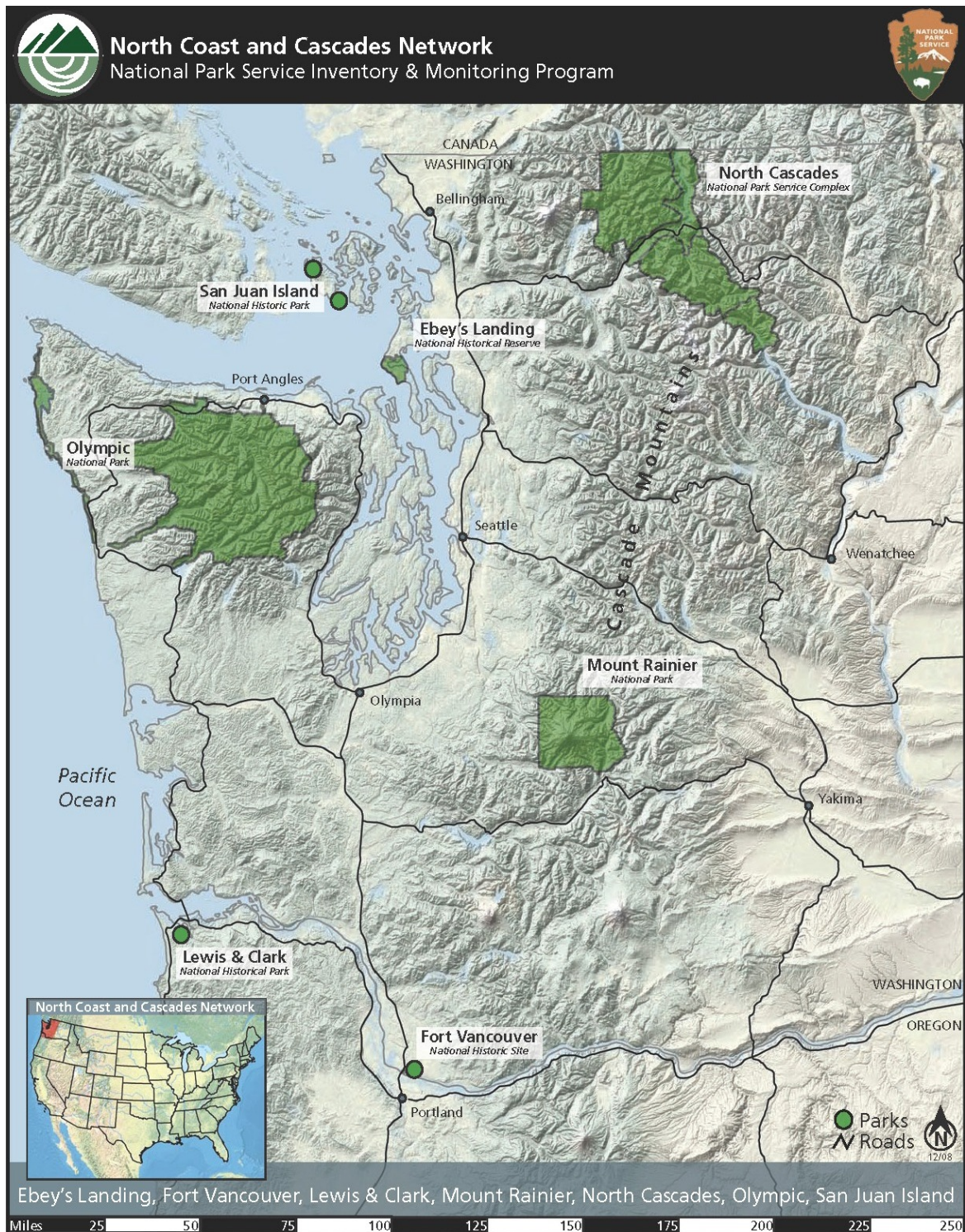


Figure 1. Locations of seven parks within the North Coast and Cascades Network of Parks.

Methods

This project used two approaches, data mining and field based surveys, to improve and update the quality of our species verification. Data mining occurred between 2000 and 2002 and field surveys were conducted between 2001 and 2007. Data mining methods included literature searches, inventories of the collections in local herbaria, and on-line searches of herbaria in other states. The second approach was to conduct field surveys that focused on habitat for sensitive plant species and under-surveyed areas in the park.

Data mining

During the first two years of this project, we visited local university herbaria and searched on-line collection databases for specimens that had been collected in MORA. We also conducted literature searches to locate observation records of vascular plant species in both published and unpublished plant studies. All observation records and herbarium specimens were entered into the NPSpecies database (2001). During the data mining, we also geo-referenced all herbarium specimens so that we could determine if there were “under-surveyed” areas in the park where we should focus our field surveys (Figure 2). The data mining phase resulted in a preliminary species list for MORA with 959 species, 95% of which had been verified, 56% verified by voucher and 39% by observation.

Field based survey approaches

Sensitive plant species surveys

During the data mining phase, we developed a potential list of 15 state or federally listed species (Table 1) that might occur in the park. Several of these species had historic records within the park or were placed on the list based on the availability of suitable habitat within the park. We targeted these species for field surveys based on their documented past locations and also kept an eye out for them during surveys in “under-surveyed” areas.

Under-surveyed areas

In order to increase the number of species that were documented by vouchers and to look for new species that might not be on our draft species list, we focused our field surveys on the “under-surveyed” areas that we had identified when we geo-referenced specimens found in the various collections. We worked with Dr. David Giblin and Dr. Richard Olmsted of the University of Washington to conduct “Botany Forays” during the field seasons of 2004-2007. During “Botany Forays,” Dr. Giblin recruited 6-10 volunteers to search a geographic area and collect all vascular plant species that were in sufficient abundance (over 20 individual plants per population) and were identifiable to species level (ie. flowers or fruits present). Our volunteer crew was a diverse crew of people including self-taught, experienced botanists; students; and professional plant taxonomists. If possible, 3 specimens of each plant were made. One specimen was deposited in the MORA herbarium, one specimen was deposited in the University of Washington Herbarium (WTU), and the third was sent to the University of British Columbia herbarium in Vancouver, British Columbia. Once specimens were collected, Dr. Giblin brought them back to WTU where they were identified, curated, and accessioned into the designated herbaria.

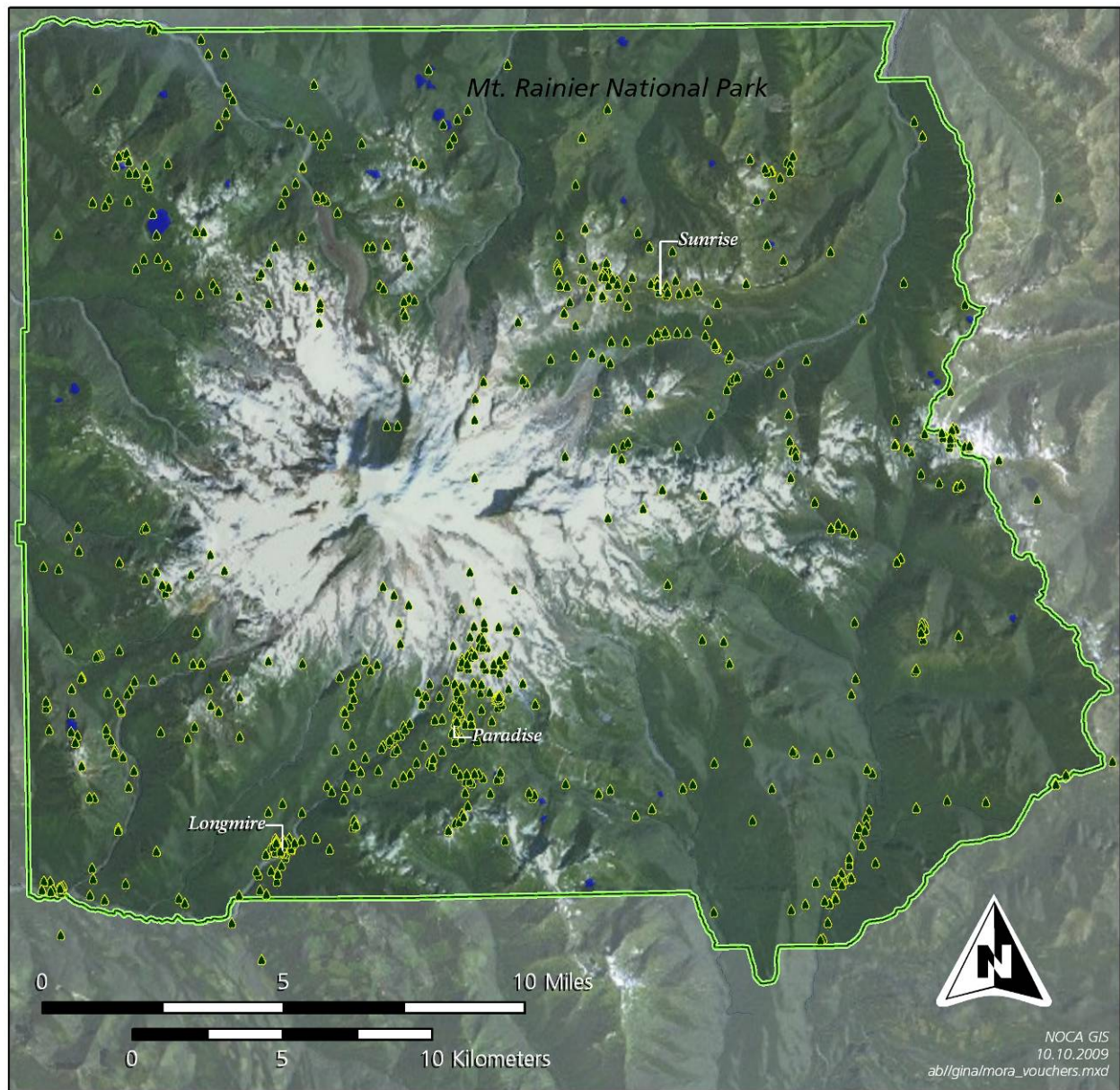


Figure 2. Map illustrating locations of plant collections in Mount Rainier National Park

Table1. Sensitive species targeted for field surveys.

Scientific Name	Status ¹ 2001	Collection Locations	Date last documented prior to 2001	Relocated Y/N
<i>Agoseris elata</i>	S	no records		N
<i>Botrychium lanceolatum</i>	S	Paradise	1998	Y
<i>Botrychium lunaria</i>	S	Herbarium specimen, University of Puget Sound, no location	no date	N
<i>Botrychium pinnatum</i>	S	Cited by Brockman , no location	1947	Y
<i>Botrychium simplex</i>	S	Cited by Brockman , no location	1947	Y
<i>Carex atrata</i> var. <i>atrosquama</i>	S	no records		N
<i>Castilleja cryptantha</i>	S	27 known locations, locally	1997	Y
	FSC	abundant		
<i>Dryopteris cristata</i>	S	no records		N
<i>Galium kamtschaticum</i>	S	Goat Island Mountain	1992	N
<i>Luzula arcuata</i>	S	no records		N
<i>Microseris borealis</i>	S	Mowich Lake	1931	Y
<i>Pedicularis rainierensis</i>	S	abundant throughout subalpine meadows	1988	Y
<i>Poa nervosa</i>	S	no records		N
<i>Polemonium viscosum</i>	S	Goat Island Mountain	1996	N
<i>Saxifraga debilis</i>	S	St. Elmo's pass	1912	N

¹S = sensitive species, FSC federal species of concern

Results

Data mining

We located herbariums specimens during site visits to the University of Puget Sound (31), University of Washington (721), and Skagit Valley College (47). We also located specimens by conducting on-line searches of collections at Oregon State University (7), University of Minnesota (1), Harvard University (17), University of British Columbia (102), and Washington State University (134) (Figure 3). These specimens were entered into the NPSpecies database in addition to the 2,580 that were already in the Mount Rainier National Park collection and the 39 specimens from the New York Botanical Garden that had been entered by the NPS National I&M Office. In total, these specimens increased the number of species documented by vouchers by 143 (Table 2). However, the data mining did not increase the number of species on the preliminary list, which remained at 959 (Table 2).



Figure 3. Herbarium specimen of *Castilleja oreopola* collected in Mount Rainier NP by O.D. Allen in 1897 and stored in a collection at Harvard University.

Table 2. Summary of species verification by stage of inventory.

Stage	Total species	Vouchers	References or Observations	No verification	Total verified
Pre-inventory	959	531 (56%)	376 (39%)	52 (5%)	95%
After Data mining	959	674 (70%)	252 (26%)	33 (4%)	96%
2007 after forays	973	719 (74%)	222 (23%)	32 (3%)	97%

Field based survey approaches

Sensitive plant species surveys

Sensitive species were documented in 34 locations; 12 were revisits of known locations and 22 were areas where potential habitat was identified. Six of our 15 targeted species were documented (Table 1). Two ferns (*Botrychium pinnatum* and *B. simplex*) were located; previously, they had been only been cited by Brockman (1947) as occurring in the park, but without specific locations.

Under-surveyed areas

Botany Forays were conducted in seven subalpine and alpine areas between 2002 and 2007 (Figure 4, 5; Table 3). Foray participants collected 864 collections representing 307 taxa including first-time vouchers for 45 species. Thirty-one vouchers represented new specimens for species that were on our preliminary plant list based on references or observations. Fourteen species or subspecies were added to our preliminary list based on these surveys.



Figure 4. Peter Del Zotto and Arnie Peterson pressing specimens in the Tatoosh Range (photo by Ben Legler, UW).

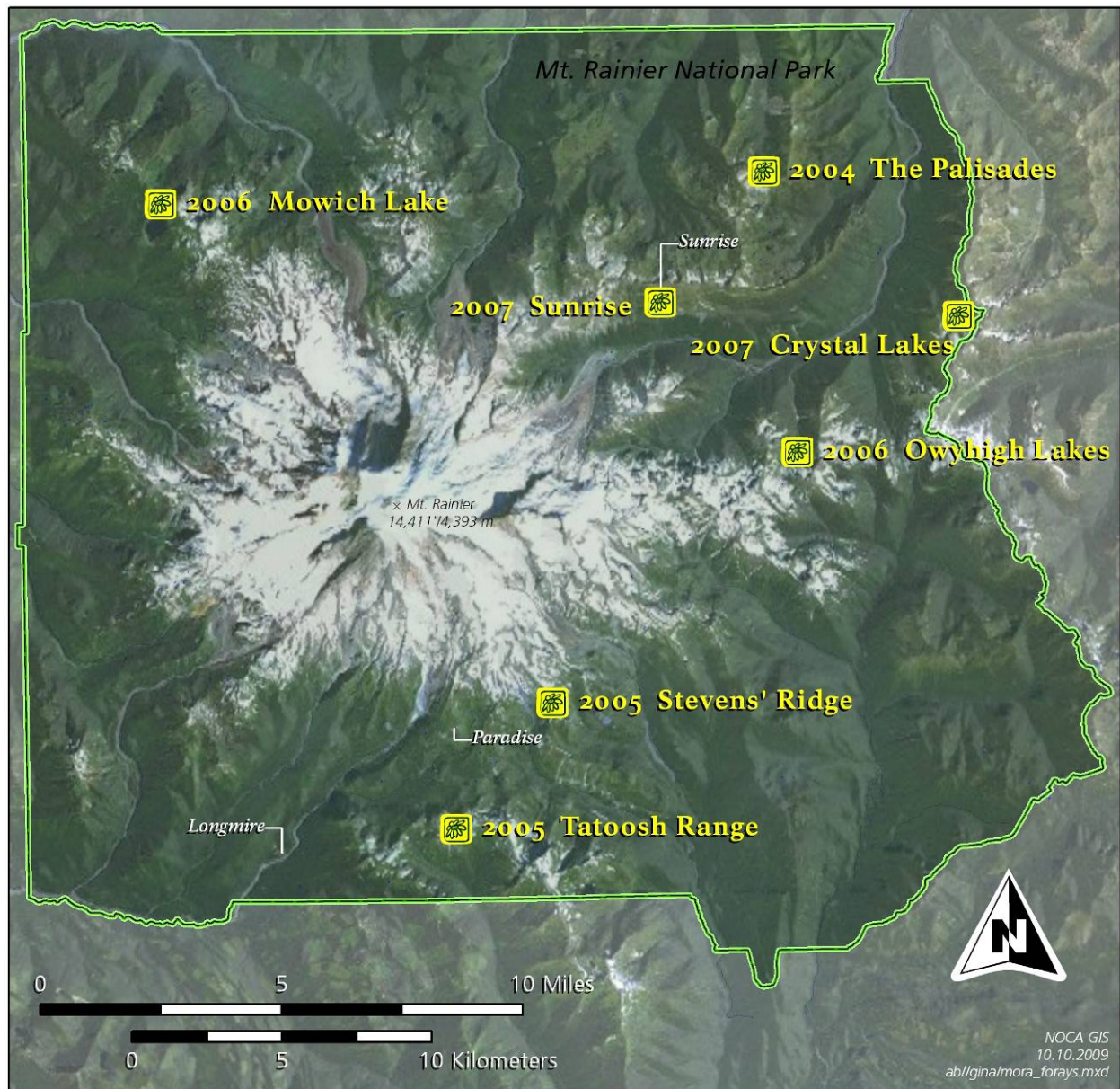


Figure 5. Map illustrating locations of Botany Forays.

Table 3. Summary of new voucher verifications for vascular species in Mount Rainier National Park.

Year: Survey area	First voucher for species on preliminary list¹	Vouchers for new additions to the list
2004: Palisades	9	3
2005: Tatoosh Range & Steven's Ridge	2	
2006: Mowich Lake	11	6
2006: Owyhigh Lakes	9	3
2007: Sunrise and Crystal Lakes	0	2
Total	31	14

¹These species were previously documented by observations or scientific study.

Discussion

Data mining and field surveys resulted in a final vascular plant list of 973 taxa for Mount Rainier National Park. Our first study objective was to increase the quality of our species verifications; we accomplished this by increasing our rate of voucher verification from 56% to 74% (Table 2). Approximately 16% of species on the plant list are non-native species (Table 4) and 11 species are listed as sensitive by either the Washington Natural Heritage Office (2009) or the USFWS (Appendices A-F).

Table 4. Summary of plant species in Mount Rainier by growth form and origin.

Growth Form	Total Taxa	Native Taxa (%)	Exotic Taxa (%)
Forbs	613	492 (80%)	121 (20%)
Ferns and fern allies	53	53	0
Grasses, sedges, and rushes	178	150 (82%)	28 (18%)
Shrubs and vines	86	83 (96%)	3 (4%)
Trees	43	43 (100%)	0
Total	973	821 (84%)	152 (16%)

As previously mentioned, over 400 specimens were collected in the park prior to 1900. The benefit was that we started this project at a high rate of verification. However, there was a significant drawback that must be discussed. One of the most difficult components of the Mount Rainier inventory was data mining and the resolution of plant names. Many of these specimens represented taxa that had undergone name changes over the last 100 years. In most cases, we could track the changes and assign a currently accepted name to the specimen. However, these name assignments are often our best guess and there was no examination or annotation of the specimen (Appendix G). For this reason, it is recommended that annotation of Mount Rainier's herbarium specimens is a high priority for the inventory and monitoring program. Additionally, many of the species on the park list are based on specimens that were last collected in the early 1900s. These specimens may be important for tracking phenotypic changes in the species, but updated specimens are needed.

Our second objective was to verify the presence of sensitive species that were on the park species list. We relocated and documented six species, of the fifteen, that we had targeted for this component of the study. Surveys for sensitive species and surveys of under-surveyed areas of the park were conducted by park staff and with the assistance of the University of Washington through the Botany Forays program. The Botany Forays were an important component of the

inventory. They provided an important education/outreach opportunity while also documenting 45 species that were previously on the park list based on observations. Also, the Foray volunteers updated collections of species that had not been collected for decades. In examining the spatial distribution of existing collections and the recent forays, there are still areas within Mount Rainier that have not been surveyed either by scientific studies or collections (Figure 2). Future Forays are being planned to focus on these areas and in light of climate change, it will be important to document locations of species in these zones, especially in the subalpine and alpine habitats within them.

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Appendix A. Checklist of ferns and fern allies in Mount Rainier National Park.

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status ²	Federal Status ³
Aspleniaceae	<i>Asplenium trichomanes</i> ssp. <i>trichomanes</i>	Maidenhair Spleenwort		Native		
Aspleniaceae	<i>Asplenium trichomanes-ramosum</i>	Brightgreen Spleenwort	FACU	Native		
Blechnaceae	<i>Blechnum spicant</i>	Deer Fern	FAC+	Native		
Dennstaedtiaceae	<i>Pteridium aquilinum</i> var. <i>pubescens</i>	Hairy Brackenfern		Native		
Dryopteridaceae	<i>Athyrium americanum</i>	Alpine Lady-Fern	FAC	Native		
Dryopteridaceae	<i>Athyrium distentifolium</i>	Alpine Lady-Fern		Native		
Dryopteridaceae	<i>Athyrium filix-femina</i>	Common Ladyfern	FAC	Native		
Dryopteridaceae	<i>Cystopteris fragilis</i>	Brittle Bladderfern	FACU	Native		
Dryopteridaceae	<i>Dryopteris expansa</i>	Spreading Woodfern		Native		
Dryopteridaceae	<i>Dryopteris filix-mas</i>	Male Fern		Native		
Dryopteridaceae	<i>Gymnocarpium disjunctum</i>	Pacific Oakfern		Native		
Dryopteridaceae	<i>Gymnocarpium dryopteris</i>	Western Oakfern	FAC*	Native		
Dryopteridaceae	<i>Polystichum andersonii</i>	Anderson's Hollyfern		Native		
Dryopteridaceae	<i>Polystichum imbricans</i> ssp. <i>imbricans</i>	Narrowleaf Swordfern		Native		
Dryopteridaceae	<i>Polystichum kruckebergii</i>	Kruckeberg's Hollyfern		Native		
Dryopteridaceae	<i>Polystichum lonchitis</i>	Northern Hollyfern	FACU	Native		
Dryopteridaceae	<i>Polystichum munitum</i>	Western Swordfern	FACU	Native		
Dryopteridaceae	<i>Woodsia oregana</i>	Oregon Cliff Fern		Native		
Dryopteridaceae	<i>Woodsia scopulina</i>	Rocky Mountain Woodsia		Native		
Equisetaceae	<i>Equisetum arvense</i>	Field Horsetail	FAC	Native		
Equisetaceae	<i>Equisetum fluviatile</i>	Water Horsetail	OBL	Native		
Equisetaceae	<i>Equisetum hyemale</i>	Scouringrush Horsetail	FACW	Native		
Equisetaceae	<i>Equisetum palustre</i>	Marsh Horsetail	FACW	Native		

Appendix A. Checklist of ferns and fern allies in Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status ²	Federal Status ³
Equisetaceae	<i>Equisetum telmateia</i>	Giant Horsetail	FACW	Native		
Equisetaceae	<i>Equisetum variegatum</i>	Variegated Scouringrush	FACW	Native		
Isoetaceae	<i>Isoetes bolanderi</i>	Bolander's Quillwort	OBL	Native		
Lycopodiaceae	<i>Huperzia chinensis</i>	Chinese Clubmoss		Native		
Lycopodiaceae	<i>Huperzia haleakalae</i>	Pacific Clubmoss		Native		
Lycopodiaceae	<i>Huperzia occidentalis</i>	Western Clubmoss		Native		
Lycopodiaceae	<i>Huperzia selago</i> var. <i>selago</i>	Fir Clubmoss		Native		
Lycopodiaceae	<i>Lycopodium alpinum</i>	Alpine Clubmoss	FAC	Native		
Lycopodiaceae	<i>Lycopodium alpinum</i> x <i>Lycopodium sitchense</i>			Native		
Lycopodiaceae	<i>Lycopodium annotinum</i>	Stiff Clubmoss	FAC	Native		
Lycopodiaceae	<i>Lycopodium clavatum</i>	Running Clubmoss	FAC	Native		
Lycopodiaceae	<i>Lycopodium complanatum</i>	Groundcedar	FAC	Native		
Lycopodiaceae	<i>Lycopodium sitchense</i>	Sitka Clubmoss		Native		
Ophioglossaceae	<i>Botrychium lanceolatum</i>	Lanceleaf Grapefern	FACW	Native		
Ophioglossaceae	<i>Botrychium lunaria</i>	Common Moonwort	FAC	Native		
Ophioglossaceae	<i>Botrychium minganense</i>	Mingan Moonwort		Native		
Ophioglossaceae	<i>Botrychium multifidum</i>	Leathery Grapefern	FAC	Native		
Ophioglossaceae	<i>Botrychium pinnatum</i>	Northern Moonwort		Native		
Ophioglossaceae	<i>Botrychium simplex</i>	Little Grapefern	FAC*	Native		
Polypodiaceae	<i>Polypodium amorphum</i>	Irregular Polypody		Native		
Polypodiaceae	<i>Polypodium glycyrrhiza</i>	Licorice Fern		Native		
Polypodiaceae	<i>Polypodium hesperium</i>	Western Polypody		Native		
Pteridaceae	<i>Adiantum aleuticum</i>	Aleutian Maidenhair		Native		
Pteridaceae	<i>Cheilanthes gracillima</i>	Lace Lipfern		Native		
Pteridaceae	<i>Cryptogramma acrostichoides</i>	American Rockbrake		Native		
Pteridaceae	<i>Cryptogramma cascadiensis</i>	Cascade Rockbrake		Native		

Appendix A. Checklist of ferns and fern allies in Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status ²	Federal Status ³
Pteridaceae	<i>Pentagramma triangularis</i> ssp. <i>triangularis</i>	Goldback Fern		Native		
Selaginellaceae	<i>Selaginella densa</i> var. <i>scopulorum</i>	Rocky Mountain Spikemoss		Native		
Selaginellaceae	<i>Selaginella wallacei</i>	Wallace's Spikemoss		Native		
Thelypteridaceae	<i>Thelypteris nevadensis</i>	Sierra Marsh Fern	NI	Native		

¹ See Appendix F. Guide to abbreviations used to describe wetland indicator status.

² State status: T= threatened, S= sensitive, R1 = review list 1

³ Federal status: SC candidate

Appendix B. Checklist of Forbs of Mount Rainier National Park

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Apiaceae	<i>Angelica arguta</i>	Lyall's Angelica	FACW	Native		
Apiaceae	<i>Angelica genuflexa</i>	Kneeling Angelica	FACW	Native		
Apiaceae	<i>Cicuta douglasii</i>	Western Water Hemlock	OBL	Native		
Apiaceae	<i>Heracleum mantegazzianum</i>	Giant Hogweed		Non-Native		
Apiaceae	<i>Heracleum maximum</i>	Common Cowparsnip	FAC+	Native		
Apiaceae	<i>Ligusticum canbyi</i>	Canby's Licorice-Root	FAC	Native		
Apiaceae	<i>Ligusticum grayi</i>	Gray's Licorice-Root	FAC	Native		
Apiaceae	<i>Lomatium martindalei</i>	Cascade Desertparsely		Native		
Apiaceae	<i>Lomatium triternatum</i>	Nineleaf Biscuitroot		Native		
Apiaceae	<i>Oenanthe sarmentosa</i>	Water Parsely	OBL	Native		
Apiaceae	<i>Osmorhiza berteroi</i>	Sweet cicely		Native		
Apiaceae	<i>Osmorhiza chilensis</i>	common sweet cicely		Native		
Apiaceae	<i>Osmorhiza occidentalis</i>	Western Sweetroot		Native		
Apiaceae	<i>Osmorhiza purpurea</i>	Sweet Cicely	FAC+	Native		
Apiaceae	<i>Sanicula graveolens</i>	Northern Sanicle		Native		
Apiaceae	<i>Tauschia stricklandii</i>	Strickland's Umbrellawort		Native		
Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading Dogbane		Native		
Apocynaceae	<i>Vinca minor</i>	Common Periwinkle		Non-Native		
Araceae	<i>Lysichiton americanus</i>	American Skunkcabbage	OBL	Native		
Aristolochiaceae	<i>Asarum caudatum</i>	British Colombia Wildginger	FACU*	Native		
Asteraceae	<i>Achillea millefolium</i> var. <i>alpicola</i>	Common Yarrow		Native		
Asteraceae	<i>Achillea millefolium</i> var. <i>occidentalis</i>	Western Yarrow		Native		
Asteraceae	<i>Adenocaulon bicolor</i>	American Trail Plant		Native		
Asteraceae	<i>Agoseris aurantiaca</i> var. <i>aurantiaca</i>	Orange Agoseris		Native		
Asteraceae	<i>Agoseris glauca</i> var. <i>dasycephala</i>	Pale Agoseris		Native		
Asteraceae	<i>Agoseris grandiflora</i>	Bigflower Agoseris		Native		
Asteraceae	<i>Agoseris heterophylla</i> var. <i>heterophylla</i>	Annual Agoseris		Native		
Asteraceae	<i>Anaphalis margaritacea</i>	Western Pearly Everlasting		Native		
Asteraceae	<i>Antennaria alpina</i>	Alpine Pussytoes		Native		
Asteraceae	<i>Antennaria howellii</i>	Howell's Pussytoes		Native		
Asteraceae	<i>Antennaria lanata</i>	Woolly Pussytoes		Native		
Asteraceae	<i>Antennaria media</i>	Rocky Mountain Pussytoes		Native		
Asteraceae	<i>Antennaria microphylla</i>	Littleleaf Pussytoes		Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Asteraceae	<i>Antennaria neglecta</i>	Field Pussytoes		Native		
Asteraceae	<i>Antennaria racemosa</i>	Raceme Pussytoes		Native		
Asteraceae	<i>Antennaria rosea</i>	Rosy Pussytoes		Native		
Asteraceae	<i>Antennaria umbrinella</i>	Umber Pussytoes	FACU	Native		
Asteraceae	<i>Anthemis arvensis</i>	Corn Chamomile		Non-Native		
Asteraceae	<i>Anthemis cotula</i>	Stinking Chamomile	FACU	Non-Native		
Asteraceae	<i>Arctium minus</i>	Lesser Burdock		Non-Native		
Asteraceae	<i>Arnica alpina</i>	Alpine Arnica		Native		
Asteraceae	<i>Arnica amplexicaulis</i>	Clasping Arnica	FACW	Native		
Asteraceae	<i>Arnica chamissonis</i>	Chamisso Arnica	FACW	Native		
Asteraceae	<i>Arnica cordifolia</i>	Heartleaf Arnica		Native		
Asteraceae	<i>Arnica gracilis</i>	Smallhead Arnica		Native		
Asteraceae	<i>Arnica latifolia</i>	Broadleaf Arnica	FAC-	Native		
Asteraceae	<i>Arnica longifolia</i>	Spearleaf Arnica	FACW	Native		
Asteraceae	<i>Arnica mollis</i>	Hairy Arnica	FAC	Native		
Asteraceae	<i>Arnica ovata</i>	stidky leaf arnica		Native		
Asteraceae	<i>Arnica parryi</i> ssp. <i>parryi</i>	Parry's Arnica		Native		
Asteraceae	<i>Arnica rydbergii</i>	Rydberg's Arnica		Native		
Asteraceae	<i>Arnica X diversifolia</i>	Curtis Churchmouse	FACW	Native		
Asteraceae	<i>Artemisia absinthium</i>	Threeawn Absinthium		Native		
Asteraceae	<i>Artemisia arctica</i> ssp. <i>arctica</i>	Boreal Sagebrush		Native		
Asteraceae	<i>Artemisia campestris</i>	Field Sagewort		Native		
Asteraceae	<i>Artemisia douglasiana</i>	Douglas' Sagewort	FACW	Native		
Asteraceae	<i>Artemisia furcata</i> var. <i>furcata</i>	Forked Wormwood		Native		
Asteraceae	<i>Artemisia ludoviciana</i> ssp. <i>candicans</i>	White Sagebrush		Native		
Asteraceae	<i>Artemisia norvegica</i>	Norway Sagewort		Native		
Asteraceae	<i>Artemisia tilesii</i>	Tilesius' Wormwood		Native		
Asteraceae	<i>Artemisia vulgaris</i>	Common Wormwood		Native		
Asteraceae	<i>Aster foliaceus</i> var. <i>foliaceus</i>	Alpine Leafybract Aster		Native		
Asteraceae	<i>Aster subspicatus</i> var. <i>subspicatus</i>	Leafybract Aster		Native		
Asteraceae	<i>Bellis perennis</i>	Lawndaisy		Non-Native		
Asteraceae	<i>Bidens frondosa</i>	Devil's Beggartick	FACW+	Native		
Asteraceae	<i>Canadanthus modestus</i>	Giant Mountain Aster	FAC+	Native		
Asteraceae	<i>Centaurea biebersteinii</i>	Spotted Knapweed		Non-Native		
Asteraceae	<i>Centaurea cyanus</i>	Garden Cornflower		Non-Native		
Asteraceae	<i>Centaurea diffusa</i>	Diffuse Knapweed		Non-Native		
Asteraceae	<i>Centaurea nigra</i>	Lesser Knapweed		Non-Native		
Asteraceae	<i>Cichorium intybus</i>	Chicory		Non-Native		
Asteraceae	<i>Cirsium arvense</i>	Canada Thistle	FACU+	Non-Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Asteraceae	<i>Cirsium brevistylum</i>	Clustered Thistle		Native		
Asteraceae	<i>Cirsium edule</i>	Edible Thistle	FAC	Native		
Asteraceae	<i>Cirsium vulgare</i>	Bull Thistle	FACU	Non-Native		
Asteraceae	<i>Conyza canadensis</i>	Canadian Horseweed	FACU	Non-Native		
Asteraceae	<i>Crepis capillaris</i>	Smooth Hawksbeard	FACU*	Non-Native		
Asteraceae	<i>Erigeron acris ssp. debilis</i>	Bitter Fleabane		Native		
Asteraceae	<i>Erigeron acris ssp. politus</i>	Bitter Fleabane		Native		
Asteraceae	<i>Erigeron aureus</i>	Alpine Yellow Fleabane		Native		
Asteraceae	<i>Erigeron compositus</i>	Cutleaf Daisy		Native		
Asteraceae	<i>Erigeron peregrinus ssp. callianthemus</i>	Subalpine Fleabane		Native		
Asteraceae	<i>Erigeron peregrinus var. peregrinus</i>	Subalpine Fleabane		Native		
Asteraceae	<i>Erigeron philadelphicus</i>	Philadelphia Fleabane	FACU	Non-Native		
Asteraceae	<i>Erigeron speciosus</i>	Aspen Fleabane		Native		
Asteraceae	<i>Erigeron strigosus var. strigosus</i>	Prarie Fleabane		Native		
Asteraceae	<i>Erigeron subtrinervis var. conspicuus</i>	Threenerve Fleabane		Native		
Asteraceae	<i>Eriophyllum lanatum</i>	Common Woolly Sunflower		Native		
Asteraceae	<i>Eucephalus ledophyllus var. ledophyllus</i>	Cascade Aster		Native		
Asteraceae	<i>Gamochaeta ustulata</i>	Featherweed		Native		
Asteraceae	<i>Hieracium albiflorum</i>	White Hawkweed		Native		
Asteraceae	<i>Hieracium atratum</i>	Polar Hawkweed		Non-Native		
Asteraceae	<i>Hieracium aurantiacum</i>	Orange Hawkweed		Non-Native		
Asteraceae	<i>Hieracium caespitosum</i>	Meadow Hawkweed		Non-Native		
Asteraceae	<i>Hieracium cynoglossoides</i>	Houndstongue Hawkweed		Native		
Asteraceae	<i>Hieracium gracile</i>	Slender Hawkweed		Native		
Asteraceae	<i>Hieracium scouleri var. scouleri</i>	Scouler's Woollyweed		Native		
Asteraceae	<i>Hulsea nana</i>	Dwarf Alpinegold		Native	R1	
Asteraceae	<i>Hypochaeris radicata</i>	Hairy Cat's Ear	FACU*	Non-Native		
Asteraceae	<i>Lactuca biennis</i>	Tall Blue Lettuce	FAC	Native		
Asteraceae	<i>Lactuca serriola</i>	Prickly Lettuce	FACU	Non-Native		
Asteraceae	<i>Lapsana communis</i>	Common Nipplewort		Non-Native		
Asteraceae	<i>Leucanthemum vulgare</i>	Oxeye Daisy		Non-Native		
Asteraceae	<i>Luina hypoleuca</i>	Littleleaf Silverback		Native		
Asteraceae	<i>Madia exigua</i>	Small Tarweed		Native		
Asteraceae	<i>Madia gracilis</i>	Grassy Tarweed		Native		
Asteraceae	<i>Matricaria discoidea</i>	Disc Mayweed	FACU	Non-Native		
Asteraceae	<i>Microseris borealis</i>	Northern Microseris	OBL	Native	S	

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Asteraceae	<i>Mycelis muralis</i>	Wall-Lettuce		Non-Native		
Asteraceae	<i>Nothocalais alpestris</i>	Alpine Lake False Dandelion		Native		
Asteraceae	<i>Oreostemma alpigenum</i> var. <i>alpigenum</i>	Tundra Aster		Native		
Asteraceae	<i>Packera cymbalarioides</i>	Rocky Mountain Groundsel		Native		
Asteraceae	<i>Packera flettii</i>	Flett's Ragwort		Native		
Asteraceae	<i>Packera streptanthifolia</i>	Rocky Mountain Groundsel	FACU	Native		
Asteraceae	<i>Petasites frigidus</i> var. <i>frigidus</i>	Arctic Sweet Coltsfoot		Native		
Asteraceae	<i>Petasites frigidus</i> var. <i>nivalis</i>	Arctic Sweet Coltsfoot		Native		
Asteraceae	<i>Petasites frigidus</i> var. <i>palmatius</i>	Arctic Sweet Coltsfoot	FACW+	Native		
Asteraceae	<i>Prenanthes alata</i>	Western Rattlesnakeroot		Native		
Asteraceae	<i>Pseudognaphalium canescens</i> ssp. <i>microcephalum</i>	Wright's Cudweed		Native		
Asteraceae	<i>Pseudognaphalium viscosum</i>	Winged Cudweed		Native		
Asteraceae	<i>Rainiera stricta</i>	False Silverback		Native		
Asteraceae	<i>Saussurea americana</i>	American Saw-Wort		Native		
Asteraceae	<i>Senecio elmeri</i>	Elmer's Ragwort		Native		
Asteraceae	<i>Senecio fremontii</i> var. <i>fremontii</i>	Dwarf Mountain Ragwort		Native		
Asteraceae	<i>Senecio integerrimus</i> var. <i>exaltatus</i>	Columbia Ragwort		Native		
Asteraceae	<i>Senecio integerrimus</i> var. <i>ochroleucus</i>	Paleyellow Ragwort		Native		
Asteraceae	<i>Senecio jacobaea</i>	Stinking Willie	FACU*	Non-Native		
Asteraceae	<i>Senecio streptanthifolius</i> var. <i>streptanthifolius</i>	Cleftleaf Groundsel		Native		
Asteraceae	<i>Senecio sylvaticus</i>	Woodland Ragwort		Non-Native		
Asteraceae	<i>Senecio triangularis</i>	Arrowleaf Ragwort	FACW+	Native		
Asteraceae	<i>Senecio vulgaris</i>	Old-Man-In-The-Spring	FACU	Non-Native		
Asteraceae	<i>Solidago canadensis</i> var. <i>salebrosa</i>	Rough Canada Goldenrod	FAC-	Native		
Asteraceae	<i>Solidago multiradiata</i> var. <i>scopulorum</i>	Manyray Goldenrod		Native		
Asteraceae	<i>Solidago simplex</i> var. <i>nana</i>	Dwarf Goldenrod		Native		
Asteraceae	<i>Solidago simplex</i> var. <i>simplex</i>	Mt. Albert Goldenrod		Native		
Asteraceae	<i>Solidago simplex</i> var. <i>spathulata</i>	Mt. Albert Goldenrod		Native		
Asteraceae	<i>Sonchus asper</i>	Spiny Sowthistle	FAC-	Non-Native		
Asteraceae	<i>Sonchus oleraceus</i>	Common Sowthistle	UPL	Non-Native		
Asteraceae	<i>Symphyotrichum</i>	Parry's Aster		Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Asteraceae	<i>foliaceum</i> var. <i>parryi</i> <i>Tanacetum parthenium</i>	Feverfew		Non-Native		
Asteraceae	<i>Tanacetum vulgare</i>	Common Tansy	NI	Non-Native		
Asteraceae	<i>Taraxacum officinale</i>	Common Dandelion	FACU	Non-Native		
Asteraceae	<i>Tonestus lyallii</i>	Lyall's Goldenweed		Native		
Asteraceae	<i>Tragopogon dubius</i>	Yellow Salsify		Non-Native		
Asteraceae	<i>Tragopogon porrifolius</i>	Salsify		Non-Native		
Asteraceae	<i>Xanthium strumarium</i> var. <i>canadense</i>	Canada Cocklebur		Native		
Berberidaceae	<i>Achlys californica</i>	Deer's Foot		Native		
Berberidaceae	<i>Achlys triphylla</i>	Sweet After Death		Native		
Berberidaceae	<i>Vancouveria hexandra</i>	White Insideout Flower		Native		
Boraginaceae	<i>Amsinckia menziesii</i>	Menzies' Fiddleneck		Native		
Boraginaceae	<i>Asperugo procumbens</i>	German-Madwort		Non-Native		
Boraginaceae	<i>Cryptantha affinis</i>	Quill Cryptantha		Native		
Boraginaceae	<i>Cryptantha ambigua</i>	Basin Cryptantha		Native		
Boraginaceae	<i>Cryptantha intermedia</i>	Clearwater Cryptantha		Native		
Boraginaceae	<i>Cryptantha simulans</i>	Pinewoods Cryptantha		Native		
Boraginaceae	<i>Mertensia paniculata</i>	Tall Bluebells	FACW-	Native		
Boraginaceae	<i>Myosotis arvensis</i>	Field Forget-Me-Not	FAC	Non-Native		
Boraginaceae	<i>Myosotis stricta</i>	Strict Forget-Me-Not		Non-Native		
Boraginaceae	<i>Myosotis sylvatica</i>	Woodland Forget-Me-Not	FAC	Non-Native		
Brassicaceae	<i>Arabidopsis thaliana</i>	Mouseear Cress		Non-Native		
Brassicaceae	<i>Arabis drummondii</i>	Drummond's Rockcress	FACU	Native		
Brassicaceae	<i>Arabis furcata</i>	Columbia Gorge Rockcress		Native		
Brassicaceae	<i>Arabis glabra</i>	Tower Rockcress		Native		
Brassicaceae	<i>Arabis hirsuta</i>	Hairy Rockcress	FACU	Native		
Brassicaceae	<i>Arabis holboellii</i> var. <i>retrofracta</i>	Second Rockcress		Native		
Brassicaceae	<i>Arabis lyallii</i>	Lyall's Rockcress		Native		
Brassicaceae	<i>Barbarea orthoceras</i>	American Yellowrocket	FACW+	Native		
Brassicaceae	<i>Brassica nigra</i>	Black Mustard		Non-Native		
Brassicaceae	<i>Brassica rapa</i> var. <i>rapa</i>	Field Mustard		Non-Native		
Brassicaceae	<i>Capsella bursa-pastoris</i>	Shepherd's Purse	FACU	Non-Native		
Brassicaceae	<i>Cardamine angulata</i>	Seaside Bittercress	FACW	Native		
Brassicaceae	<i>Cardamine bellidifolia</i>	Alpine Bittercress	NI	Native		
Brassicaceae	<i>Cardamine breweri</i>	Brewer's Bittercress	FACW+	Native		
Brassicaceae	<i>Cardamine hirsuta</i>	Hairy Bittercress		Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Brassicaceae	<i>Cardamine nuttallii</i> var. <i>gemmata</i>	Nuttall's Toothwort	FACW+	Native		
Brassicaceae	<i>Cardamine nuttallii</i> var. <i>nuttallii</i>	Palmate Toothwort		Native		
Brassicaceae	<i>Cardamine occidentalis</i>	Big Western Bittercress	FACW+	Native		
Brassicaceae	<i>Cardamine oligosperma</i> var. <i>kamtschatica</i>	Umbel Bittercress		Native		
Brassicaceae	<i>Cardamine oligosperma</i> var. <i>oligosperma</i>	Little Western Bittercress		Native		
Brassicaceae	<i>Cardamine pensylvanica</i>	Pennsylvania Bittercress	FACW	Native		
Brassicaceae	<i>Cusickiella douglasii</i>	Alkali Cusickiella		Native	T	
Brassicaceae	<i>Descurainia incana</i>	Mountain Tansymustard		Native		
Brassicaceae	<i>Descurainia sophia</i>	Herb Sophia		Non-Native		
Brassicaceae	<i>Draba aureola</i>	Mt. Lassen Draba		Native		
Brassicaceae	<i>Draba incerta</i>	Yellowstone Draba		Native		
Brassicaceae	<i>Draba lonchocarpa</i>	Lancepod Draba		Native		
Brassicaceae	<i>Draba oligosperma</i>	Fewseed Draba		Native		
Brassicaceae	<i>Draba paysonii</i>	Payson's Draba		Native		
Brassicaceae	<i>Draba ruaxes</i>	Rainier Draba		Native		
Brassicaceae	<i>Draba verna</i>	Spring Draba		Native		
Brassicaceae	<i>Erysimum arenicola</i> var. <i>torulosum</i>	Cascade Wallflower		Native		
Brassicaceae	<i>Erysimum capitatum</i> var. <i>capitatum</i>	Sanddune Wallflower		Native		
Brassicaceae	<i>Lepidium campestre</i>	Field Pepperweed		Non-Native		
Brassicaceae	<i>Lepidium perfoliatum</i>	Clasping Pepperweed	FACU+	Non-Native		
Brassicaceae	<i>Physaria alpestris</i>	Washington Twinpod		Native		
Brassicaceae	<i>Rorippa curvisiliqua</i>	Curvepod Yellowcress	OBL	Native		
Brassicaceae	<i>Sinapis arvensis</i>	Charlock Mustard		Non-Native		
Brassicaceae	<i>Sisymbrium altissimum</i>	Tall Tumblemustard	FACU-	Non-Native		
Brassicaceae	<i>Sisymbrium officinale</i>	Hedgemustard		Non-Native		
Brassicaceae	<i>Smelowskia calycina</i>	Alpine Smelowskia		Native		
Brassicaceae	<i>Smelowskia ovalis</i>	Alpine False Candytuft		Native		
Brassicaceae	<i>Teesdalia nudicaulis</i>	Barestem Teesdalia		Non-Native		
Brassicaceae	<i>Thlaspi arvense</i>	Field Pennycress	NI	Non-Native		
Brassicaceae	<i>Thlaspi montanum</i> var. <i>montanum</i>	Alpine Pennycress		Native		
Callitrichaceae	<i>Callitriche hermaphrodita</i>	Northern Water-Starwort	OBL	Native		
Callitrichaceae	<i>Callitriche heterophylla</i> ssp. <i>bolanderi</i>	Bolander's Water-Starwort		Native		
Callitrichaceae	<i>Callitriche palustris</i>	Vernal Water-Starwort	OBL	Native		
Campanulaceae	<i>Campanula persicifolia</i>	Peachleaf Bellflower		Non-Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Campanulaceae	<i>Campanula rotundifolia</i>	Bluebell Bellflower	FACU+	Native		
Campanulaceae	<i>Campanula scouleri</i>	Pale Bellflower		Native		
Campanulaceae	<i>Campanula uniflora</i>	Arctic Bellflower		Native		
Caprifoliaceae	<i>Linnaea borealis</i> ssp. <i>longiflora</i>	Longtube Twinflower		Native		
Caryophyllaceae	<i>Arenaria capillaris</i> ssp. <i>americana</i>	Fescue Sandwort		Native		
Caryophyllaceae	<i>Arenaria serpyllifolia</i> ssp. <i>serpyllifolia</i>	Thymeleaf Sandwort		Non-Native		
Caryophyllaceae	<i>Cerastium arvense</i>	Field Chickweed	FACU	Native		
Caryophyllaceae	<i>Cerastium fontanum</i> ssp. <i>vulgare</i>	Big Chickweed	FACU	Non-Native		
Caryophyllaceae	<i>Cerastium glomeratum</i>	Sticky Chickweed	UPL	Non-Native		
Caryophyllaceae	<i>Dianthus armeria</i>	Deptford Pink		Non-Native		
Caryophyllaceae	<i>Dianthus barbatus</i>	Sweetwilliam		Non-Native		
Caryophyllaceae	<i>Minuartia nuttallii</i> ssp. <i>nuttallii</i>	Nuttall's Sandwort		Native		
Caryophyllaceae	<i>Minuartia obtusiloba</i>	Twinflower Sandwort	FACU-	Native		
Caryophyllaceae	<i>Minuartia rubella</i>	Beautiful Sandwort	FACU-	Native		
Caryophyllaceae	<i>Moehringia macrophylla</i>	Largeleaf Sandwort		Native		
Caryophyllaceae	<i>Pseudostellaria jamesiana</i>	Tuber Starwort		Native		
Caryophyllaceae	<i>Sagina decumbens</i> ssp. <i>occidentalis</i>	Western Pearlwort		Native		
Caryophyllaceae	<i>Sagina procumbens</i>	Birdeye Pearlwort	FAC	Non-Native		
Caryophyllaceae	<i>Sagina saginoides</i>	Arctic Pearlwort	FACW-	Native		
Caryophyllaceae	<i>Silene acaulis</i> var. <i>exscapa</i>	Moss Champion		Native		
Caryophyllaceae	<i>Silene antirrhina</i>	Sleepy Silene		Non-Native		
Caryophyllaceae	<i>Silene douglasii</i> var. <i>douglasii</i>	Douglas's Catchfly		Native		
Caryophyllaceae	<i>Silene latifolia</i> ssp. <i>alba</i>	Bladder Champion		Non-Native		
Caryophyllaceae	<i>Silene menziesii</i>	Menzie's Champion	FAC	Native		
Caryophyllaceae	<i>Silene noctiflora</i>	Nightflowering Silene		Non-Native		
Caryophyllaceae	<i>Silene oregana</i>	Oregon Silene		Native		
Caryophyllaceae	<i>Silene parryi</i>	Parry's Silene		Native		
Caryophyllaceae	<i>Silene scouleri</i> ssp. <i>scouleri</i>	Simple Champion		Native		
Caryophyllaceae	<i>Silene suksdorfii</i>	Suksdorf's Silene		Native		
Caryophyllaceae	<i>Silene vulgaris</i>	Maidenstears		Non-Native		
Caryophyllaceae	<i>Spergula arvensis</i>	Corn Spurry		Non-Native		
Caryophyllaceae	<i>Spergularia diandra</i>	Alkali Sandspurry	FACW	Non-Native		
Caryophyllaceae	<i>Spergularia rubra</i>	Red Sandspurry	FAC-	Non-Native		
Caryophyllaceae	<i>Stellaria borealis</i> ssp. <i>borealis</i>	Boreal Starwort		Native		
Caryophyllaceae	<i>Stellaria borealis</i> ssp. <i>sitchana</i>	Sitka Starwort	FACW-	Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Caryophyllaceae	<i>Stellaria calycantha</i>	Northern Starwort	FACW+	Native		
Caryophyllaceae	<i>Stellaria crispa</i>	Curled Starwort	FAC+	Native		
Caryophyllaceae	<i>Stellaria graminea</i>	Grass-Like Starwort	FAC-	Non-Native		
Caryophyllaceae	<i>Stellaria media</i>	Common Chickweed	FACU	Non-Native		
Caryophyllaceae	<i>Stellaria nitens</i>	Shiny Chickweed		Native		
Caryophyllaceae	<i>Stellaria obtusa</i>	Rocky Mountain Chickweed	FACW	Native		
Caryophyllaceae	<i>Vaccaria hispanica</i>	Cow Soapwort		Non-Native		
Chenopodiaceae	<i>Chenopodium album</i>	Lambsquarters	FAC	Non-Native		
Clusiaceae	<i>Hypericum anagalloides</i>	Tinker's Penny	OBL	Native		
Clusiaceae	<i>Hypericum perforatum</i>	Common St. Johnswort		Non-Native		
Cornaceae	<i>Cornus unalaschkensis</i>	Western Cordilleran Bunchberry	FACW	Native		
Crassulaceae	<i>Rhodiola integrifolia</i> ssp. <i>integrifolia</i>	Ledge Stonecrop		Native		
Crassulaceae	<i>Rhodiola rosea</i>	Roseroot Stonecrop		Native		
Crassulaceae	<i>Sedum divergens</i>	Pacific Stonecrop		Native		
Crassulaceae	<i>Sedum oreganum</i>	Oregon Stonecrop		Native		
Crassulaceae	<i>Sedum rupicola</i>	Curvedleaf Stonecrop		Native		
Droseraceae	<i>Drosera rotundifolia</i>	Roundleaf Sundew	OBL	Native		
Fabaceae	<i>Astragalus alpinus</i>	Alpine Milkvetch	FAC-	Native		
Fabaceae	<i>Lathyrus latifolius</i>	Perennial Pea		Non-Native		
Fabaceae	<i>Lathyrus nevadensis</i>	Sierra Pea		Native		
Fabaceae	<i>Lathyrus pauciflorus</i>	Fewflower Pea		Native		
Fabaceae	<i>Lathyrus polyphyllus</i>	Leafy Pea		Native		
Fabaceae	<i>Lathyrus sylvestris</i>	Flat Pea		Non-Native		
Fabaceae	<i>Lotus corniculatus</i>	Bird's-Foot Trefoil	FAC	Non-Native		
Fabaceae	<i>Lotus micranthus</i>	Desert Deervetch		Native		
Fabaceae	<i>Lotus unifoliolatus</i> var. <i>unifoliolatus</i>	American Bird's-Foot Trefoil		Native		
Fabaceae	<i>Lupinus arcticus</i> ssp. <i>subalpinus</i>	Subalpine Lupine		Native		
Fabaceae	<i>Lupinus latifolius</i> ssp. <i>latifolius</i>	Broad-Leaf Lupine		Native		
Fabaceae	<i>Lupinus lepidus</i>	Pacific Lupine		Native		
Fabaceae	<i>Lupinus lyallii</i>	Dwarf Mountain Lupine		Native		
Fabaceae	<i>Lupinus polycarpus</i>	Smallflower Lupine		Native		
Fabaceae	<i>Lupinus rivularis</i>	Riverbank Lupine	FACU	Native		
Fabaceae	<i>Lupinus sericeus</i>	Silky Lupine		Native		
Fabaceae	<i>Medicago lupulina</i>	Black Medick	FAC	Non-Native		
Fabaceae	<i>Medicago sativa</i>	Alfalfa		Non-Native		
Fabaceae	<i>Melilotus alba</i>	Yellow Sweetclover		Non-Native		
Fabaceae	<i>Melilotus indicus</i>	Annual Yellow Sweetclover	FACU	Non-Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Fabaceae	<i>Oxytropis monticola</i>	Yellowflower		Non-Native		
Fabaceae	<i>Trifolium dubium</i>	Locoweed	UPL	Non-Native		
Fabaceae	<i>Trifolium hybridum</i>	Suckling Clover	FAC	Non-Native		
Fabaceae	<i>Trifolium pratense</i>	Alsike Clover	FACU	Non-Native		
Fabaceae	<i>Trifolium repens</i> var. <i>repens</i>	Red Clover		Non-Native		
Fabaceae	<i>Vicia americana</i> ssp. <i>americana</i>	White Clover		Native		
Fabaceae	<i>Vicia americana</i> ssp. <i>minor</i>	American Vetch		Native		
Fabaceae	<i>Vicia sativa</i> ssp. <i>nigra</i>	Mat Vetch		Non-Native		
Fabaceae	<i>Vicia tetrasperma</i>	Garden Vetch		Non-Native		
Fumariaceae	<i>Corydalis scouleri</i>	Lentil Vetch		Native		
Fumariaceae	<i>Dicentra formosa</i>	Scouler's Fumewort	FAC+	Native		
Fumariaceae	<i>Dicentra uniflora</i>	Pacific Bleeding Heart	FACW-	Native		
Gentianaceae	<i>Gentiana calycosa</i>	Longhorn Steer's-Head		Native		
Geraniaceae	<i>Erodium cicutarium</i>	Ranier Pleated Gentian	FACW-	Native		
Geraniaceae	<i>Geranium molle</i>	Redstem Stork's Bell		Non-Native		
Geraniaceae	<i>Geranium pusillum</i>	Dovefoot Geranium		Non-Native		
Geraniaceae	<i>Geranium robertianum</i>	Small Geranium		Non-Native		
Hippuridaceae	<i>Hippuris montana</i>	Robert Geranium		Native		
Hippuridaceae	<i>Hippuris vulgaris</i>	Mountain Mare's-Tail	FACW+	Native		
Hydrophyllaceae	<i>Hydrophyllum fendleri</i>	Common Mare's-Tail	OBL	Native		
Hydrophyllaceae	<i>Hydrophyllum tenuipes</i>	Fendler's Waterleaf	FAC	Native		
Hydrophyllaceae	<i>Nemophila parviflora</i>	Pacific Waterleaf		Native		
Hydrophyllaceae	<i>Phacelia hastata</i>	Smallflower Nemophila		Native		
Hydrophyllaceae	<i>Phacelia heterophylla</i>	Silverleaf Phacelia	FACU	Native		
Hydrophyllaceae	<i>Phacelia leptosepala</i>	Varileaf Phacelia		Native		
Hydrophyllaceae	<i>Phacelia mutabilis</i>	Narrowsepal Phacelia		Native		
Hydrophyllaceae	<i>Phacelia nemoralis</i>	Changeable Phacelia		Native		
Hydrophyllaceae	<i>Phacelia sericea</i>	Shade Phacelia		Native		
Hydrophyllaceae	<i>Romanzoffia sitchensis</i>	Silky Phacelia	FACW-	Native		
Iridaceae	<i>Sisyrinchium idahoense</i> var. <i>macounii</i>	Sitka Mistmaiden		Native		
Lamiaceae	<i>Clinopodium douglasii</i>	Macoun's Blue-Eyed Grass		Native		
Lamiaceae	<i>Glechoma hederacea</i>	Yerba Buena	FACU+	Non-Native		
Lamiaceae	<i>Lamium amplexicaule</i>	Ground Ivy		Non-Native		
Lamiaceae	<i>Lycopus uniflorus</i>	Henbit Nettle		Native		
Lamiaceae		Northern	OBL	Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Lamiaceae	<i>Mentha aquatica</i>	Bugleweed Water Mint	NO	Non-Native		
Lamiaceae	<i>Mentha arvensis</i>	Wild Mint	FACW-	Native		
Lamiaceae	<i>Monardella odoratissima</i>	Mountain Monardella	FACU-	Native		
Lamiaceae	<i>Nepeta cataria</i>	Catnip	FAC	Non-Native		
Lamiaceae	<i>Prunella vulgaris</i> ssp. <i>lanceolata</i>	Lance Selfheal		Native		
Lamiaceae	<i>Prunella vulgaris</i> ssp. <i>vulgaris</i>	Common Selfheal		Non-Native		
Lamiaceae	<i>Stachys chamissonis</i> var. <i>cooleyae</i>	Coastal Hedgenettle	FACW	Native		
Lamiaceae	<i>Thymus praecox</i> ssp. <i>arcticus</i>	Creeping Thyme		Non-Native		
Lemnaceae	<i>Lemna minor</i>	Common Duckweed	OBL	Native		
Lentibulariaceae	<i>Pinguicula vulgaris</i>	Common Butterwort		Native		
Liliaceae	<i>Allium cernuum</i>	Nodding Onion		Native		
Liliaceae	<i>Allium validum</i>	Pacific Onion	OBL	Native		
Liliaceae	<i>Clintonia uniflora</i>	Bride's Bonnet		Native		
Liliaceae	<i>Disporum hookeri</i>	Drops Of Gold		Native		
Liliaceae	<i>Disporum smithii</i>	Largeflower Fairybells		Native		
Liliaceae	<i>Erythronium grandiflorum</i>	Yellow Avalanche-Lily	FACU	Native		
Liliaceae	<i>Erythronium montanum</i>	White Avalanche-Lily		Native		
Liliaceae	<i>Fritillaria affinis</i> var. <i>affinis</i>	Checker Lily		Native		
Liliaceae	<i>Lilium columbianum</i>	Columbia Lily		Native		
Liliaceae	<i>Lloydia serotina</i>	Common Alplily	FACU	Native		
Liliaceae	<i>Maianthemum dilatatum</i>	False Lily Of The Valley	FAC	Native		
Liliaceae	<i>Maianthemum racemosum</i> ssp. <i>amplexicaule</i>	Feathery False Lily Of The Valley		Native		
Liliaceae	<i>Maianthemum racemosum</i> ssp. <i>racemosum</i>	Feathery False Lily Of The Valley		Native		
Liliaceae	<i>Maianthemum stellatum</i>	Starry False Lily Of The Valley	FAC-	Native		
Liliaceae	<i>Stenanthium occidentale</i>	Western Featherbells	FAC*	Native		
Liliaceae	<i>Streptopus amplexifolius</i>	Claspedleaf Twistedstalk	FAC-	Native		
Liliaceae	<i>Streptopus lanceolatus</i> var. <i>curvipes</i>	Twistedstalk		Native		
Liliaceae	<i>Streptopus lanceolatus</i> var. <i>roseus</i>	Twistedstalk		Native		
Liliaceae	<i>Streptopus streptopoides</i>	Small Twistedstalk		Native		
Liliaceae	<i>Tofieldia glutinosa</i> ssp. <i>brevistyla</i>	Sticky Tofieldia		Native		
Liliaceae	<i>Trillium ovatum</i>	Pacific Trillium	FACU*	Native		
Liliaceae	<i>Triteleia hyacinthina</i>	White Brodiaea	FACU	Native		
Liliaceae	<i>Veratrum californicum</i>	Cascade False	OBL	Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Liliaceae	<i>var. caudatum</i> <i>Veratrum viride</i>	Hellebore Green False Hellebore	FACW	Native		
Liliaceae	<i>Xerophyllum tenax</i>	Common Beargrass		Native		
Liliaceae	<i>Zigadenus venenosus</i> <i>var. venenosus</i>	Meadow Deathcamas		Native		
Malvaceae	<i>Malva neglecta</i>	Common Mallow		Non- Native		
Malvaceae	<i>Malva parviflora</i>	Cheeseweed Mallow		Non- Native		
Menyanthaceae	<i>Menyanthes trifoliata</i>	Buckbean	OBL	Native		
Monotropaceae	<i>Allotropa virgata</i>	Sugarstick		Native		
Monotropaceae	<i>Hemitomes congestum</i>	Coneplant		Native		
Monotropaceae	<i>Monotropa hypopithys</i>	Pinesap		Native		
Monotropaceae	<i>Monotropa uniflora</i>	Indianpipe	FACU	Native		
Monotropaceae	<i>Pleuricospora fimbriolata</i>	Fringed Pinesap		Native		
Monotropaceae	<i>Pterospora andromedea</i>	Woodland Pinedrops		Native		
Nymphaeaceae	<i>Nuphar lutea</i> ssp. <i>polysepala</i>	Rocky Mountain Pond-Lily		Native		
Onagraceae	<i>Circaea alpina</i>	Small Enchanter's Nightshade	FAC+	Native		
Onagraceae	<i>Epilobium anagallidifolium</i>	Pimpernel Willowherb	FACU-	Native		
Onagraceae	<i>Epilobium angustifolium</i>	Fireweed		Native		
Onagraceae	<i>Epilobium brachycarpum</i>	Tall Annual Willowherb	UPL	Native		
Onagraceae	<i>Epilobium ciliatum</i> ssp. <i>ciliatum</i>	Fringed Willowherb		Native		
Onagraceae	<i>Epilobium ciliatum</i> ssp. <i>glandulosum</i>	Fringed Willowherb		Native		
Onagraceae	<i>Epilobium ciliatum</i> ssp. <i>watsonii</i>	Fringed Willowherb		Native		
Onagraceae	<i>Epilobium clavatum</i>	Talus Willowherb	FACU+	Native		
Onagraceae	<i>Epilobium densiflorum</i>	Denseflower Willowherd	FACW-	Native		
Onagraceae	<i>Epilobium glaberrimum</i> ssp. <i>fastigiatum</i>	Glaucus Willowherb		Native		
Onagraceae	<i>Epilobium glaberrimum</i> ssp. <i>glaberrimum</i>	Glaucus Willowherb		Native		
Onagraceae	<i>Epilobium halleianum</i>	Glandular Willowherb	FACW	Native		
Onagraceae	<i>Epilobium halleianum</i>	Glandular Willowherb	FACW	Native		
Onagraceae	<i>Epilobium lactiflorum</i>	Milkflower Willowherb	FACW	Native		
Onagraceae	<i>Epilobium latifolium</i>	Dwarf Fireweed	FACW	Native		
Onagraceae	<i>Epilobium luteum</i>	Yellow Willowherb	FACW	Native		
Onagraceae	<i>Epilobium minutum</i>	Chaparral Willowherb		Native		
Onagraceae	<i>Epilobium oregonense</i>	Oregon Willowherb	FACW	Native		
Onagraceae	<i>Epilobium X pulchrum</i>	Epilobium Pulchrum		Native		
Onagraceae	<i>Gayophytum ramosissimum</i>	Pinyon Groundsmoke		Native		
Orchidaceae	<i>Calypso bulbosa</i>	Fairy Slipper	FAC+	Native		
Orchidaceae	<i>Cephalanthera</i>	Phantom Orchid		Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Orchidaceae	<i>austiniae</i>					
Orchidaceae	<i>Corallorrhiza maculata</i>	Summer Coralroot	UPL	Native		
Orchidaceae	<i>Corallorrhiza mertensiana</i>	Pacific Coralroot		Native		
Orchidaceae	<i>Corallorrhiza striata</i> var. <i>striata</i>	Hooded Coralroot		Native		
Orchidaceae	<i>Corallorrhiza trifida</i>	Yellow Coralroot	FAC	Native		
Orchidaceae	<i>Goodyera oblongifolia</i>	Western Rattlesnake Plantain	FACU-	Native		
Orchidaceae	<i>Listera caurina</i>	Northwestern Twayblade	FACU	Native		
Orchidaceae	<i>Listera convallarioides</i>	Broadlipped Twayblade	FACU	Native		
Orchidaceae	<i>Listera cordata</i>	Heartleaf Twayblade	FACU*	Native		
Orchidaceae	<i>Piperia elegans</i> ssp. <i>elegans</i>	Elegant Piperia		Native		
Orchidaceae	<i>Piperia unalascensis</i>	Slender-Spine Orchid	NI	Native		
Orchidaceae	<i>Platanthera dilatata</i>	Scentbottle	FACW+	Native		
Orchidaceae	<i>Platanthera leucostachys</i>	Sierra Bog Orchid		Native		
Orchidaceae	<i>Platanthera stricta</i>	Slender Bog Orchid	FACW+	Native		
Orchidaceae	<i>Spiranthes romanzoffiana</i>	Hooded Lady's Tresses	FACW	Native		
Orobanchaceae	<i>Orobanche uniflora</i>	Oneflowered Broomrape	FACU	Native		
Oxalidaceae	<i>Oxalis oregana</i>	Redwood-Sorrel		Native		
Oxalidaceae	<i>Oxalis trillifolia</i>	Threeleaf Woodsorrel	FAC+	Native		
Plantaginaceae	<i>Plantago lanceolata</i>	Narrowleaf Plantain	FAC	Non-Native		
Plantaginaceae	<i>Plantago major</i> var. <i>major</i>	Common Plantain		Non-Native		
Polemoniaceae	<i>Collomia heterophylla</i>	Variableleaf Collomia		Native		
Polemoniaceae	<i>Collomia larsenii</i>	Talus Collomia		Native		
Polemoniaceae	<i>Collomia linearis</i>	Tiny Trumpet	FACU	Native		
Polemoniaceae	<i>Gilia capillaris</i>	Miniature Gilia		Native		
Polemoniaceae	<i>Gilia capitata</i> ssp. <i>capitata</i>	Bluehead Gilia		Native		
Polemoniaceae	<i>Linanthus nuttallii</i> ssp. <i>nuttallii</i>	Nuttall's Linanthus		Native		
Polemoniaceae	<i>Phlox gracilis</i> ssp. <i>gracilis</i>	Slender Phlox		Native		
Polemoniaceae	<i>Polemonium californicum</i>	Moving Polemonium		Native		
Polemoniaceae	<i>Polemonium elegans</i>	Elegant Jacob's Ladder		Native		
Polemoniaceae	<i>Polemonium pulcherrimum</i> ssp. <i>lindleyi</i>	Jacob's-Ladder		Native		
Polemoniaceae	<i>Polemonium pulcherrimum</i> ssp. <i>pulcherrimum</i>	Jacob's-Ladder		Native		
Polygonaceae	<i>Eriogonum compositum</i> var. <i>compositum</i>	Arrowleaf Buckwheat		Native		
Polygonaceae	<i>Eriogonum ovalifolium</i>	Cushion		Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Polygonaceae	<i>var. nivale</i> <i>Eriogonum pyrolifolium</i>	Buckwheat Shasta Buckwheat		Native		
Polygonaceae	<i>var. coryphaeum</i> <i>Eriogonum umbellatum</i>	Sulphur-Flower Buckwheat		Native		
Polygonaceae	<i>var. majus</i> <i>Oxyria digyna</i>	Alpine Mountainsorrel	FACU-	Native		
Polygonaceae	<i>Polygonum aviculare</i>	Prostrate Knotweed	FACW-	Non-Native		
Polygonaceae	<i>Polygonum bistortoides</i>	American Bistort	FACW*	Native		
Polygonaceae	<i>Polygonum convolvulus</i>	Black Bindweed		Non-Native		
Polygonaceae	<i>var. convolvulus</i> <i>Polygonum cuspidatum</i>	Japonesse Knotweed	FACU*	Non-Native		
Polygonaceae	<i>Polygonum davisiae</i>	Davis' Knotweed		Native		
Polygonaceae	<i>Polygonum douglasii</i>	Douglas' Knotweed		Native		
Polygonaceae	<i>ssp. douglasii</i> <i>Polygonum hydropiper</i>	Marshpepper Knotweed	OBL	Non-Native		
Polygonaceae	<i>Polygonum lapathifolium</i>	Curlytop Knotweed	FACW	Non-Native		
Polygonaceae	<i>Polygonum minimum</i>	Broadleaf Knotweed	FACU+	Native		
Polygonaceae	<i>Polygonum polygaloides</i> ssp. <i>kelloggii</i>	Kellogg's Knotweed	FAC	Native		
Polygonaceae	<i>Rumex acetosella</i>	Common Sheepsorrel	FACU+	Non-Native		
Polygonaceae	<i>Rumex conglomeratus</i>	Clustered Dock	FACW	Non-Native		
Polygonaceae	<i>Rumex crispus</i>	Curly Dock	FAC+	Non-Native		
Polygonaceae	<i>Rumex obtusifolius</i>	Bitter Dock	FAC	Non-Native		
Polygonaceae	<i>Rumex salicifolius</i> var. <i>denticulatus</i>	Toothed Willow Dock		Native		
Portulacaceae	<i>Cistanthe umbellata</i> var. <i>caudicifera</i>	Mt. Hood Pussypaws		Native		
Portulacaceae	<i>Cistanthe umbellata</i> var. <i>umbellata</i>	Mt. Hood Pussypaws		Native		
Portulacaceae	<i>Claytonia cordifolia</i>	Heartleaf Springbeauty	FAC	Native		
Portulacaceae	<i>Claytonia lanceolata</i>	Lanceleaf		Native		
Portulacaceae	var. <i>chrysantha</i> <i>Claytonia lanceolata</i>	Springbeauty Lanceleaf		Native		
Portulacaceae	var. <i>lanceolata</i> <i>Claytonia parviflora</i>	Springbeauty Streambank		Native		
Portulacaceae	<i>Claytonia perfoliata</i> ssp. <i>perfoliata</i>	Springbeauty Miner's Lettuce		Native		
Portulacaceae	<i>Claytonia rubra</i> ssp. <i>rubra</i>	Redstem Springbeauty		Native		
Portulacaceae	<i>Claytonia sibirica</i> var. <i>sibirica</i>	Siberian Springbeauty		Native		
Portulacaceae	<i>Lewisia columbiana</i> var. <i>rupicola</i>	Columbian Lewisia		Native		
Portulacaceae	<i>Lewisia pygmaea</i>	Alpine Lewisia		Native		
Portulacaceae	<i>pygmaea</i> <i>Lewisia triphylla</i>	Threeleaf Lewisia	UPL	Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Portulacaceae	<i>Montia fontana</i>	Annual Water Minerslettuce	OBL	Native		
Portulacaceae	<i>Montia linearis</i>	Narrowleaf Minerslettuce		Native		
Portulacaceae	<i>Montia parvifolia</i> ssp. <i>flagellaris</i>	Littleleaf Minerslettuce		Native		
Portulacaceae	<i>Montia parvifolia</i> ssp. <i>parvifolia</i>	Littleleaf Minerslettuce		Native		
Potamogetonaceae	<i>Potamogeton natans</i>	Floating Pondweed	OBL	Native		
Primulaceae	<i>Dodecatheon jeffreyi</i> ssp. <i>jeffreyi</i>	Sierra Shooting Star		Native		
Primulaceae	<i>Dodecatheon meadia</i>	Pride Of Ohio		Native		
Primulaceae	<i>Douglasia laevigata</i> var. <i>ciliolata</i>	Cliff Dwarf-Primrose		Native		
Primulaceae	<i>Trientalis borealis</i> ssp. <i>latifolia</i>	Broadleaf Starflower	FAC-	Native		
Primulaceae	<i>Trientalis europaea</i> ssp. <i>arctica</i>	Arctic Starflower	OBL	Native		
Pyrolaceae	<i>Chimaphila menziesii</i>	Little Prince's Pine		Native		
Pyrolaceae	<i>Chimaphila umbellata</i> ssp. <i>occidentalis</i>	Pipissewa		Native		
Pyrolaceae	<i>Moneses uniflora</i>	Single Delight		Native		
Pyrolaceae	<i>Orthilia secunda</i>	Sidebells Wintergreen		Native		
Pyrolaceae	<i>Pyrola asarifolia</i> ssp. <i>asarifolia</i>	Liverleaf Wintergreen	FACW-	Native		
Pyrolaceae	<i>Pyrola asarifolia</i> ssp. <i>bracteata</i>	Pink Wintergreen		Native		
Pyrolaceae	<i>Pyrola chlorantha</i>	Greenflowered Wintergreen	FAC	Native		
Pyrolaceae	<i>Pyrola minor</i>	Snowline Wintergreen	FACU+	Native		
Pyrolaceae	<i>Pyrola picta</i>	Whiteveined Wintergreen		Native		
Ranunculaceae	<i>Aconitum columbianum</i> var. <i>columbianum</i>	Columbian Monkflower		Native		
Ranunculaceae	<i>Actaea rubra</i>	Red Baneberry		Native		
Ranunculaceae	<i>Anemone deltoidea</i>	Columbian Windflower		Native		
Ranunculaceae	<i>Anemone drummondii</i> ssp. <i>drummondii</i>	Drummond's Anemone		Native		
Ranunculaceae	<i>Anemone multifida</i>	Pacific Anemone		Native		
Ranunculaceae	<i>Anemone multifida</i> var. <i>saxicola</i>	red windflower		Native		
Ranunculaceae	<i>Anemone occidentalis</i>	White Pasqueflower		Native		
Ranunculaceae	<i>Aquilegia formosa</i>	Western Columbine	FAC	Native		
Ranunculaceae	<i>Caltha leptosepala</i> ssp. <i>howellii</i>	Howell's Marsh Marigold		Native		
Ranunculaceae	<i>Caltha leptosepala</i> var. <i>leptosepala</i>	White Marsh Marigold		Native		
Ranunculaceae	<i>Delphinium bicolor</i>	Little Larkspur		Native		
Ranunculaceae	<i>Delphinium glareosum</i>	Olympic Larkspur		Native		
Ranunculaceae	<i>Delphinium glaucum</i>	Sierra Larkspur	FACW	Native		
Ranunculaceae	<i>Ranunculus acris</i> var. <i>acris</i>	Showy Buttercup		Non-Native		
Ranunculaceae	<i>Ranunculus alismifolius</i>	Plantainleaf Buttercup	FACW	Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Ranunculaceae	<i>Ranunculus aquatilis</i>	White Water Crowfoot	OBL	Native		
Ranunculaceae	<i>Ranunculus eschscholtzii</i> var. <i>eschscholtzii</i>	Eschscholtz's Buttercup		Native		
Ranunculaceae	<i>Ranunculus occidentalis</i>	Western Buttercup	FAC	Native		
Ranunculaceae	<i>Ranunculus repens</i>	Creeping Buttercup	FACW	Non-Native		
Ranunculaceae	<i>Ranunculus suksdorfii</i>	Suksdorf's Buttercup		Native		
Ranunculaceae	<i>Ranunculus uncinatus</i> var. <i>parviflorus</i>	Idaho Buttercup		Native		
Ranunculaceae	<i>Ranunculus verecundus</i>	Wetslope Buttercup	FAC*	Native		
Ranunculaceae	<i>Thalictrum occidentale</i>	Western Meadow-Rue	FACU*	Native		
Ranunculaceae	<i>Trautvetteria caroliniensis</i> var. <i>occidentalis</i>	Western Bugbane		Native		
Ranunculaceae	<i>Trollius laxus</i> ssp. <i>albiflorus</i>	American Globeflower		Native		
Rosaceae	<i>Aruncus dioicus</i> var. <i>acuminatus</i>	Bride's Feathers		Native		
Rosaceae	<i>Comarum palustre</i>	Purple Marshlocks		Native		
Rosaceae	<i>Dasiphora floribunda</i>	Shrubby Cinquefoil		Native		
Rosaceae	<i>Fragaria chiloensis</i>	Beach Strawberry		Native		
Rosaceae	<i>Fragaria crinita</i>	Pacific Strawberry		Native		
Rosaceae	<i>Fragaria vesca</i> ssp. <i>bracteata</i>	Woodland Strawberry		Native		
Rosaceae	<i>Fragaria virginiana</i> ssp. <i>platypetala</i>	Virginia Strawberry		Native		
Rosaceae	<i>Geum macrophyllum</i> var. <i>macrophyllum</i>	Largeleaf Avens		Native		
Rosaceae	<i>Ivesia tweedyi</i>	Tweedy's Ivesia		Native		
Rosaceae	<i>Luetkea pectinata</i>	Partridgefoot	FACU-	Native		
Rosaceae	<i>Potentilla biennis</i>	Biennial Cinquefoil	FACW	Native		
Rosaceae	<i>Potentilla diversifolia</i> var. <i>diversifolia</i>	Varileaf Cinquefoil		Native		
Rosaceae	<i>Potentilla drummondii</i> ssp. <i>drummondii</i>	Drummond's Cinquefoil		Native		
Rosaceae	<i>Potentilla flabellifolia</i>	High Mountain Cinquefoil		Native		
Rosaceae	<i>Potentilla glandulosa</i> ssp. <i>glandulosa</i>	Sticky Cinquefoil		Native		
Rosaceae	<i>Potentilla gracilis</i> var. <i>gracilis</i>	Graceful Cinquefoil		Native		
Rosaceae	<i>Potentilla norvegica</i> ssp. <i>monspeliensis</i>	Norwegian Cinquefoil		Non-Native		
Rosaceae	<i>Potentilla rivalis</i> var. <i>millegrana</i>	Brook Cinquefoil	FAC+	Native		
Rosaceae	<i>Potentilla villosa</i>	Villous Cinquefoil		Native		
Rosaceae	<i>Sanguisorba canadensis</i>	Canadian Burnet	FACW	Native		
Rosaceae	<i>Sibbaldia procumbens</i>	Creeping Sibbaldia		Native		
Rubiaceae	<i>Galium aparine</i>	Stickywilly	FACU	Native		
Rubiaceae	<i>Galium kamtschaticum</i>	Boreal Bedstraw		Native		
Rubiaceae	<i>Galium oreganum</i>	Oregon Bedstraw		Native		
Rubiaceae	<i>Galium trifidum</i> ssp. <i>columbianum</i>	Threepetal Bedstraw		Native		
Rubiaceae	<i>Galium triflorum</i>	Fragrant Bedstraw	FACU	Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Rubiaceae	<i>Galium verum</i>	Yellow Spring Bedstraw		Non-Native		
Saxifragaceae	<i>Boykinia occidentalis</i>	Coastal Brookfoam	FAC	Native		
Saxifragaceae	<i>Chrysosplenium glechomifolium</i>	Pacific Golden Saxifrage	OBL	Native		
Saxifragaceae	<i>Elmera racemosa</i> var. <i>racemosa</i>	Yellow Coralbells		Native		
Saxifragaceae	<i>Heuchera glabra</i>	Alpine Heuchera		Native		
Saxifragaceae	<i>Heuchera micrantha</i> var. <i>diversifolia</i>	Crevice Alumroot		Native		
Saxifragaceae	<i>Heuchera micrantha</i> var. <i>micrantha</i>	Crevice Alumroot		Native		
Saxifragaceae	<i>Leptarrhena pyrolifolia</i>	Fireleaf Leptarrhena	FACW	Native		
Saxifragaceae	<i>Mitella breweri</i>	Brewer's Miterwort	FAC*	Native		
Saxifragaceae	<i>Mitella caulescens</i>	Slightstemmed Miterwort		Native		
Saxifragaceae	<i>Mitella pentandra</i>	Fivestamen Miterwort	FAC*	Native		
Saxifragaceae	<i>Mitella trifida</i> var. <i>trifida</i>	Threeparted Miterwort		Native		
Saxifragaceae	<i>Parnassia fimbriata</i> var. <i>fimbriata</i>	Fringed Grass Of Parnassus		Native		
Saxifragaceae	<i>Saxifraga bronchialis</i> ssp. <i>austromontana</i>	Matted Saxifrage		Native		
Saxifragaceae	<i>Saxifraga bronchialis</i> ssp. <i>vespertina</i>	Yellowdot Saxifrage		Native		
Saxifragaceae	<i>Saxifraga caespitosa</i> ssp. <i>caespitosa</i>	Tufted Alpine Saxifrage		Native		
Saxifragaceae	<i>Saxifraga ferruginea</i> var. <i>ferruginea</i>	Russthair Saxifrage		Native		
Saxifragaceae	<i>Saxifraga ferruginea</i> var. <i>vreelandii</i>	Vreeland's Saxifrage		Native		
Saxifragaceae	<i>Saxifraga mertensiana</i>	Wood Saxifrage	FACW	Native		
Saxifragaceae	<i>Saxifraga nelsoniana</i> ssp. <i>cascadensis</i>	Heartleaf Saxifrage		Native		
Saxifragaceae	<i>Saxifraga nelsoniana</i> ssp. <i>nelsoniana</i>	Heartleaf Saxifrage		Native		
Saxifragaceae	<i>Saxifraga nivalis</i>	Alpine Saxifrage		Native		
Saxifragaceae	<i>Saxifraga occidentalis</i>	Alberta Saxifrage	FAC	Native		
Saxifragaceae	<i>Saxifraga odontoloma</i>	Brook Saxifrage		Native		
Saxifragaceae	<i>Saxifraga oppositifolia</i>	Purple Mountain Saxifrage	FACU-	Native		
Saxifragaceae	<i>Saxifraga rivularis</i>	Weak Saxifrage	FAC+	Native	S	
Saxifragaceae	<i>Saxifraga stellaris</i>	Starry Saxifrage		Native		
Saxifragaceae	<i>Saxifraga tolmiei</i>	Tolmie's Saxifrage		Native		
Saxifragaceae	<i>Suksdorfia ranunculifolia</i>	Buttercup Suksdorfia	FAC	Native		
Saxifragaceae	<i>Tellima grandiflora</i>	Bigflower Tellima		Native		
Saxifragaceae	<i>Tiarella trifoliata</i> var. <i>trifoliata</i>	Threeleaf Foamflower		Native		
Saxifragaceae	<i>Tiarella trifoliata</i> var. <i>unifoliata</i>	Oneleaf Foamflower		Native		
Saxifragaceae	<i>Tolmiea menziesii</i>	Youth On Age	FAC*	Native		
Scrophulariaceae	<i>Castilleja cryptantha</i>	Obscure Indian Paintbrush		Native	S	SC
Scrophulariaceae	<i>Castilleja hispida</i> var. <i>hispida</i>	Harsh Indian Paintbrush		Native		
Scrophulariaceae	<i>Castilleja miniata</i> var. <i>miniata</i>	Green Indain		Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Scrophulariaceae	<i>miniata</i>	Paintbrush				
Scrophulariaceae	<i>Castilleja parviflora</i> var. <i>oreopola</i>	Henry Indian Paintbrush		Native		
Scrophulariaceae	<i>Castilleja rupicola</i>	Cliff Indian Paintbrush		Native		
Scrophulariaceae	<i>Collinsia grandiflora</i>	Giant Blue Eyed Mary		Native		
Scrophulariaceae	<i>Collinsia parviflora</i>	Maiden Blue Eyed Mary		Native		
Scrophulariaceae	<i>Digitalis purpurea</i> var. <i>purpurea</i>	Purple Foxglove		Non-Native		
Scrophulariaceae	<i>Euphrasia nemorosa</i>	Common Eyebright		Non-Native		
Scrophulariaceae	<i>Linaria dalmatica</i>	Dalmation Toadflax		Non-Native		
Scrophulariaceae	<i>Linaria vulgaris</i>	Butter and Eggs		Non-Native		
Scrophulariaceae	<i>Mimulus alsinoides</i>	Wingstem	OBL	Native		
Scrophulariaceae	<i>Mimulus breweri</i>	Monkeyflower				
Scrophulariaceae	<i>Mimulus guttatus</i>	Brewer's Monkeyflower		Native		
Scrophulariaceae	<i>Mimulus lewisii</i>	Seep Monkeyflower	OBL	Native		
Scrophulariaceae	<i>Mimulus moschatus</i> var. <i>moschatus</i>	Purple Monkeyflower	FACW+	Native		
Scrophulariaceae	<i>Mimulus moschatus</i> var. <i>sessilifolius</i>	Muskflower		Native		
Scrophulariaceae	<i>Mimulus tilingii</i> var. <i>caespitosus</i>	Muskflower		Native		
Scrophulariaceae	<i>Mimulus tilingii</i> var. <i>tilingii</i>	Subalpine Monkeyflower		Native		
Scrophulariaceae	<i>Nothochelone nemorosa</i>	Tiling's Monkeyflower		Native		
Scrophulariaceae	<i>Pedicularis bracteosa</i> var. <i>flavida</i>	Woodland Beardtongue		Native		
Scrophulariaceae	<i>Pedicularis bracteosa</i> var. <i>latifolia</i>	Towering Lousewort		Native		
Scrophulariaceae	<i>Pedicularis contorta</i> var. <i>contorta</i>	Widepetal Lousewort		Native		
Scrophulariaceae	<i>Pedicularis groenlandica</i>	Coiled Lousewort		Native		
Scrophulariaceae	<i>Pedicularis ornithorhyncha</i>	Elephanthead Lousewort	OBL	Native		
Scrophulariaceae	<i>Pedicularis racemosa</i> ssp. <i>alba</i>	Ducksbill Lousewort		Native		
Scrophulariaceae	<i>Pedicularis racemosa</i> ssp. <i>racemosa</i>	Sickletop Lousewort		Native		
Scrophulariaceae	<i>Pedicularis rainierensis</i>	Mt. Rainier Lousewort		Native	S	
Scrophulariaceae	<i>Penstemon barrettiae</i>	Barret's Beardtongue		Native	T	SC
Scrophulariaceae	<i>Penstemon confertus</i>	Yellow Penstemon		Native		
Scrophulariaceae	<i>Penstemon davidsonii</i> var. <i>davidsonii</i>	Davidson's Penstemon		Native		
Scrophulariaceae	<i>Penstemon davidsonii</i> var. <i>menziesii</i>	Menzies' Penstemon		Native		
Scrophulariaceae	<i>Penstemon fruticosus</i> var. <i>fruticosus</i>	Bush Penstemon		Native		

Appendix B. Checklist of forbs of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Scrophulariaceae	<i>Penstemon ovatus</i>	Eggleaf		Native		
Scrophulariaceae	<i>Penstemon procerus</i>	Beardtongue		Native		
Scrophulariaceae	<i>Penstemon procerus</i> var. <i>procerus</i>	Pincushion		Native		
Scrophulariaceae	<i>Penstemon procerus</i> var. <i>tolmiei</i>	Beardtongue		Native		
Scrophulariaceae	<i>Penstemon rupicola</i>	Tolmie's		Native		
Scrophulariaceae	<i>Penstemon serrulatus</i>	Penstemon		Native		
Scrophulariaceae	<i>Rhinanthus minor</i> ssp. <i>minor</i>	Cliff Beardtongue		Native		
Scrophulariaceae	<i>Verbasicum thapsus</i>	Serrulate	FACU*	Native		
Scrophulariaceae	<i>Veronica americana</i>	Penstemon		Native		
Scrophulariaceae	<i>Veronica arvensis</i>	Little Yellow Rattle		Native		
Scrophulariaceae	<i>Veronica chamaedrys</i>	Common Mullein		Non-Native		
Scrophulariaceae	<i>Veronica cusickii</i>	American	OBL	Native		
Scrophulariaceae	<i>Veronica officinalis</i> var. <i>officinalis</i>	Speedwell		Native		
Scrophulariaceae	<i>Veronica peregrina</i> ssp. <i>xalapensis</i>	Corn Speedwell	FACU*	Non-Native		
Scrophulariaceae	<i>Veronica serpyllifolia</i> ssp. <i>humifusa</i>	Germander		Non-Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Speedwell		Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Cusick's Speedwell	FAC*	Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Common		Non-Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Gypsyweed		Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Hairy Purslane		Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Speedwell		Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Skullcap	OBL	Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Speedwell		Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Brightblue		Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Speedwell		Non-Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Thymeleaf		Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	Speedwell		Native		
Scrophulariaceae	<i>Veronica wormskjoldii</i>	American Alpine	FAC*	Native		
Solanaceae	<i>Solanum physalifolium</i>	Speedwell		Non-Native		
Sparganiaceae	<i>Sparganium angustifolium</i>	Hoe Nightshade		Native		
Sparganiaceae	<i>Sparganium natans</i>	Narrowleaf Bur-Reed	OBL	Native		
Typhaceae	<i>Typha latifolia</i>	Small Bur-Reed	OBL	Native		
Urticaceae	<i>Urtica dioica</i> ssp. <i>gracilis</i>	Broadleaf Cattail	OBL	Native		
Valerianaceae	<i>Valeriana scouleri</i>	California Nettle		Native		
Valerianaceae	<i>Valeriana sitchensis</i>	Scouler's Valerian	FAC	Native		
Violaceae	<i>Viola adunca</i> var. <i>adunca</i>	Sitka Valerian	FAC	Native		
Violaceae	<i>Viola glabella</i>	Hookedspur Violet		Native		
Violaceae	<i>Viola howellii</i>	Pioneer Violet	FACW+	Native		
Violaceae	<i>Viola langsdorfii</i>	Howell's Violet		Native		
Violaceae	<i>Viola macloskeyi</i> ssp. <i>pallens</i>	Aleutian Violet	FACW	Native		
Violaceae	<i>Viola orbiculata</i>	Smooth White Violet	OBL	Native		
Violaceae	<i>Viola palustris</i> var. <i>palustris</i>	Darkwoods Violet		Native		
Violaceae	<i>Viola purpurea</i> ssp. <i>venosa</i>	Marsh Violet		Native		
Violaceae	<i>Viola sempervirens</i>	Goosefoot Violet		Native		
Violaceae	<i>Viola sempervirens</i>	Evergreen Violet		Native		

¹ See Appendix F. Guide to abbreviations used to describe wetland indicator status.

Appendix C. Checklist of grasses, sedges, and rushes of Mount Rainier National Park.

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Cyperaceae	<i>Carex albonigra</i>	Black and white Sedge	FACU	Native		
Cyperaceae	<i>Carex amplifolia</i>	Bigleaf Sedge	FACW+	Native		
Cyperaceae	<i>Carex aperta</i>	Columbian Sedge	FACW	Native		
Cyperaceae	<i>Carex aquatilis</i> var. <i>aquatilis</i>	Water Sedge		Native		
Cyperaceae	<i>Carex arcta</i>	Northern Cluster Sedge	OBL	Native		
Cyperaceae	<i>Carex aurea</i>	Golden Sedge	FACW+	Native		
Cyperaceae	<i>Carex bolanderi</i>	Bolander's Sedge	FAC	Native		
Cyperaceae	<i>Carex breweri</i>	Brewer's Sedge		Native		
Cyperaceae	<i>Carex brunnescens</i> ssp. <i>brunnescens</i>	Brownish Sedge		Native		
Cyperaceae	<i>Carex canescens</i>	Silvery Sedge	FACW+	Native		
Cyperaceae	<i>Carex cusickii</i>	Cusick's Sedge	OBL	Native		
Cyperaceae	<i>Carex deweyana</i>	Dewey Sedge	FACU*	Native		
Cyperaceae	<i>Carex echinata</i> ssp. <i>echinata</i>	Star Sedge	OBL	Native		
Cyperaceae	<i>Carex engelmannii</i>	Engelmann's Sedge		Native		
Cyperaceae	<i>Carex epapillosa</i>	Different-Nerve Sedge		Native		
Cyperaceae	<i>Carex exsiccata</i>	Western Inflated Sedge	OBL	Native		
Cyperaceae	<i>Carex geyeri</i>	Geyer's Sedge		Native		
Cyperaceae	<i>Carex globosa</i>	Roundfruit Sedge		Native		
Cyperaceae	<i>Carex halliana</i>	Hall's Sedge		Native		
Cyperaceae	<i>Carex hendersonii</i>	Henderson's Sedge	FAC	Native		
Cyperaceae	<i>Carex hoodii</i>	Hood's Sedge	FAC	Native		
Cyperaceae	<i>Carex illota</i>	Sheep Sedge	FAC	Native		
Cyperaceae	<i>Carex laeviculmis</i>	Smoothstem Sedge	FACW	Native		
Cyperaceae	<i>Carex lenticularis</i> var. <i>lenticularis</i>	Lakeshore Sedge		Native		
Cyperaceae	<i>Carex lenticularis</i> var. <i>lipocarpa</i>	Kellogg's Sedge	FACW+	Native		
Cyperaceae	<i>Carex leporinella</i>	Sierra Hare Sedge		Native		
Cyperaceae	<i>Carex leptalea</i>	Bristlystalked Sedge	OBL	Native		
Cyperaceae	<i>Carex limosa</i>	Mud Sedge	OBL	Native		
Cyperaceae	<i>Carex luzulina</i>	Woodrush Sedge	OBL	Native		
Cyperaceae	<i>Carex mertensii</i>	Merten's Sedge	FAC	Native		
Cyperaceae	<i>Carex microptera</i>	Smallwing Sedge	FAC	Native		
Cyperaceae	<i>Carex nardina</i> var. <i>hepburnii</i>	Hepburn's Sedge		Native		
Cyperaceae	<i>Carex neurophora</i>	Alpine Nerve Sedge	FACW	Native		
Cyperaceae	<i>Carex nigricans</i>	Black Alpine Sedge	FACW	Native		
Cyperaceae	<i>Carex nudata</i>	Naked Sedge	FACW	Native		
Cyperaceae	<i>Carex pachystachya</i>	Chamisso Sedge	FAC	Native		
Cyperaceae	<i>Carex paysonis</i>	Payson's Sedge	FACU	Native		
Cyperaceae	<i>Carex peltita</i>	Woolly Sedge	OBL	Native		
Cyperaceae	<i>Carex phaeocephala</i>	Dunhead Sedge	FACU	Native		
Cyperaceae	<i>Carex praegracilis</i>	Clustered Field Sedge	FACW	Native		
Cyperaceae	<i>Carex praticola</i>	Meadow Sedge	FACW	Native		
Cyperaceae	<i>Carex preslii</i>	Presl's Sedge	FACU	Native		
Cyperaceae	<i>Carex proposita</i>	Great Smoky Mountain Sedge		Native	T	

Appendix C. Checklist of grasses, sedges and rushes of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Cyperaceae	<i>Carex pyrenaica</i>	Pyrenean Sedge	FAC	Native		
Cyperaceae	<i>Carex raynoldsii</i>	Raynold's Sedge	FACU	Native		
Cyperaceae	<i>Carex rossii</i>	Ross' Sedge		Native		
Cyperaceae	<i>Carex scirpoidea</i> ssp. <i>stenochlaena</i>	Northern Singlespike Sedge	FAC*	Native		
Cyperaceae	<i>Carex scirpoidea</i> ssp. <i>stenochlaena</i>	Alaska single spike sedge	FAC*	Native		
Cyperaceae	<i>Carex scopulorum</i> var. <i>bracteosa</i>	Mountain Sedge	FACW	Native		
Cyperaceae	<i>Carex spectabilis</i>	Showy Sedge	FACW*	Native		
Cyperaceae	<i>Carex stipata</i>	Awlfruit Sedge	OBL	Native		
Cyperaceae	<i>Carex utriculata</i>	Northwest Territory Sedge	OBL	Native		
Cyperaceae	<i>Eleocharis obtusa</i>	Blunt Spikerush	OBL	Native		
Cyperaceae	<i>Eleocharis ovata</i>	Ovate Spikerush	OBL	Native		
Cyperaceae	<i>Eleocharis quinqueflora</i>	Fewflower Spikerush	OBL	Native		
Cyperaceae	<i>Eriophorum angustifolium</i> ssp. <i>angustifolium</i>	Tall Cottongrass		Native		
Cyperaceae	<i>Eriophorum angustifolium</i> ssp. <i>scabriusculum</i>	Tall Cottongrass		Native		
Cyperaceae	<i>Eriophorum chamissonis</i>	Chamisso's Cottongrass	OBL	Native		
Cyperaceae	<i>Eriophorum gracile</i>	Slender Cottongrass	OBL	Native		
Cyperaceae	<i>Scirpus microcarpus</i>	Panicled Bulrush	OBL	Native		
Cyperaceae	<i>Trichophorum caespitosum</i>	Tufted Bulrush		Native		
Isoetaceae	<i>Isoetes tenella</i>	Spiny-Spore Quillwort		Native		
Juncaceae	<i>Juncus balticus</i>	Baltic Rush	FACW+	Native		
Juncaceae	<i>Juncus bufonius</i>	Toad Rush	FACW	Native		
Juncaceae	<i>Juncus covillei</i> var. <i>obtusatus</i>	Coville's Rush		Native		
Juncaceae	<i>Juncus drummondii</i> var. <i>drummondii</i>	Drummond's Rush		Native		
Juncaceae	<i>Juncus drummondii</i> var. <i>subtriflorus</i>	Threeflower Rush		Native		
Juncaceae	<i>Juncus effusus</i> var. <i>gracilis</i>	Lamp Rush		Native		
Juncaceae	<i>Juncus filiformis</i>	Thread Rush	FACW+	Native		
Juncaceae	<i>Juncus mertensianus</i>	Merten's Rush	OBL	Native		
Juncaceae	<i>Juncus parryi</i>	Parry's Rush	FAC+	Native		
Juncaceae	<i>Juncus regelii</i>	Regel's Rush	FACW	Native		
Juncaceae	<i>Juncus tenuis</i>	Poverty Rush	FACW-	Native		
Juncaceae	<i>Juncus xiphioides</i>	Irisleaf Rush		Native		
Juncaceae	<i>Luzula arcuata</i> ssp. <i>unalaschensis</i>	Alaska Curved Rush		Native	S	
Juncaceae	<i>Luzula comosa</i>	Pacific Woodrush	FAC*	Native		
Juncaceae	<i>Luzula divaricata</i>	Forked Woodrush		Native		
Juncaceae	<i>Luzula glabrata</i> var. <i>hitchcockii</i>	Hitchcock's Smooth Woodrush		Native		
Juncaceae	<i>Luzula multiflora</i> ssp. <i>multiflora</i>	Common Woodrush		Native		
Juncaceae	<i>Luzula parviflora</i>	Smallflowered Woodrush	FAC-	Native		
Juncaceae	<i>Luzula piperi</i>	Piper's Woodrush		Native		
Juncaceae	<i>Luzula spicata</i>	Spiked Woodrush	FACU	Native		
Poaceae	<i>Achnatherum occidentale</i> ssp. <i>occidentale</i>	Western Needlegrass		Native		
Poaceae	<i>Agrostis aequivalvis</i>	Arctic Bentgrass	OBL	Native		
Poaceae	<i>Agrostis capillaris</i>	Colonial Bentgrass	FAC	Non-		

Appendix C. Checklist of grasses, sedges and rushes of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Poaceae	<i>Agrostis exarata</i>	Spike Bentgrass	FACW	Native		
Poaceae	<i>Agrostis gigantea</i>	Redtop	NI	Non-Native		
Poaceae	<i>Agrostis humilis</i>	Alpine Bentgrass	FACW	Native		
Poaceae	<i>Agrostis idahoensis</i>	Idaho Bentgrass	FACW-	Native		
Poaceae	<i>Agrostis oregonensis</i>	Oregon Bentgrass	FAC	Native		
Poaceae	<i>Agrostis pallens</i>	Seashore Bentgrass		Native		
Poaceae	<i>Agrostis scabra</i>	Rough Bentgrass	FAC	Native		
Poaceae	<i>Agrostis variabilis</i>	Mountain Bentgrass	NI	Native		
Poaceae	<i>Aira caryophyllea</i>	Silver Hairgrass		Non-Native		
Poaceae	<i>Aira praecox</i>	Yellow Hairgrass		Non-Native		
Poaceae	<i>Anthoxanthum odoratum</i>	Sweet Vernalgrass	FACU	Non-Native		
Poaceae	<i>Avena fatua</i>	Wild Oat		Non-Native		
Poaceae	<i>Bromus carinatus</i>	California Brome		Native		
Poaceae	<i>Bromus commutatus</i>	Bald Brome		Non-Native		
Poaceae	<i>Bromus hordeaceus</i> ssp. <i>hordeaceus</i>	Soft Brome	UPL	Non-Native		
Poaceae	<i>Bromus orcuttianus</i>	Orcutt's Brome		Native		
Poaceae	<i>Bromus sitchensis</i> var. <i>sitchensis</i>	Sitka Brome		Native		
Poaceae	<i>Bromus tectorum</i>	Cheatgrass		Non-Native		
Poaceae	<i>Bromus vulgaris</i>	Columbia Brome	UPL	Native		
Poaceae	<i>Calamagrostis canadensis</i> var. <i>canadensis</i>	Bluejoint	FACW	Native		
Poaceae	<i>Calamagrostis canadensis</i> var. <i>langsdoeffii</i>	Bluejoint		Native		
Poaceae	<i>Calamagrostis purpurascens</i>	Purple Reedgrass		Native		
Poaceae	<i>Calamagrostis sesquiflora</i>	One And A Half Flowered Reedgrass		Native		
Poaceae	<i>Cinna latifolia</i>	Drooping Woodreed	FACW	Native		
Poaceae	<i>Cynosurus cristatus</i>	Crested Dogstail Grass	UPL	Non-Native		
Poaceae	<i>Dactylis glomerata</i>	Orchardgrass	FACU	Non-Native		
Poaceae	<i>Danthonia intermedia</i>	Timber Oatgrass	FACU+	Native		
Poaceae	<i>Deschampsia caespitosa</i>	Tufted Hairgrass	FACW	Native		
Poaceae	<i>Deschampsia danthonioides</i>	Annual Hairgrass	FACW-	Native		
Poaceae	<i>Deschampsia elongata</i>	Slender Hairgrass	FACW-	Native		
Poaceae	<i>Elymus alaskanus</i> ssp. <i>latiglumis</i>	Alaskan Wheatgrass		Native		
Poaceae	<i>Elymus canadensis</i>	Canada Wildrye	FAC	Native		
Poaceae	<i>Elymus elymoides</i> ssp. <i>elymoides</i>	Squirreltail	FACU-	Native		
Poaceae	<i>Elymus glaucus</i> ssp. <i>glaucus</i>	Blue Wildrye		Native		
Poaceae	<i>Elymus glaucus</i> ssp. <i>virescens</i>	Blue Wildrye		Native		
Poaceae	<i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i>	Slender Wheatgrass	FAC	Native		
Poaceae	<i>Elymus X hansenii</i>	Hansen's Squirreltail		Native		
Poaceae	<i>Elytrigia repens</i> var. <i>repens</i>	Quackgrass	FAC-	Non-		

Appendix C. Checklist of grasses, sedges and rushes of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Poaceae	<i>Festuca brachyphylla</i> ssp. <i>brachyphylla</i>	Alpine Fescue	FACU*	Native		
Poaceae	<i>Festuca heteromalla</i>	Varioushair Fescue		Non-Native		
Poaceae	<i>Festuca occidentalis</i>	Western Fescue		Native		
Poaceae	<i>Festuca ovina</i>	Sheep Fescue		Native		
Poaceae	<i>Festuca roemerii</i>	Roemer's fescue		Native		
Poaceae	<i>Festuca rubra</i> ssp. <i>rubra</i>	Red Fescue		Native		
Poaceae	<i>Festuca subulata</i>	Bearded Fescue	FACU+	Native		
Poaceae	<i>Festuca viridula</i>	Greenleaf Fescue		Native		
Poaceae	<i>Glyceria borealis</i>	Small Floating Mannagrass	OBL	Native		
Poaceae	<i>Glyceria grandis</i> var. <i>grandis</i>	American Mannagrass		Native		
Poaceae	<i>Glyceria leptostachya</i>	Davy Mannagrass	OBL	Native		
Poaceae	<i>Glyceria striata</i>	Fowl Mannagrass	OBL	Native		
Poaceae	<i>Holcus lanatus</i>	Common Velvetgrass	FAC	Non-Native		
Poaceae	<i>Hordeum brachyantherum</i> ssp. <i>brachyantherum</i>	Meadow Barley		Native		
Poaceae	<i>Hordeum jubatum</i>	Foxtail Barley	FAC	Native		
Poaceae	<i>Hordeum vulgare</i>	Common Barley		Non-Native		
Poaceae	<i>Lolium perenne</i> ssp. <i>multiflorum</i>	Italian Ryegrass		Non-Native		
Poaceae	<i>Lolium perenne</i> ssp. <i>perenne</i>	Perennial Ryegrass		Non-Native		
Poaceae	<i>Lolium pratense</i>	Meadow Fescue		Non-Native		
Poaceae	<i>Melica subulata</i> var. <i>subulata</i>	Alaska Oniongrass		Native		
Poaceae	<i>Muhlenbergia filiformis</i>	Pullup Muhly	FACW-	Native		
Poaceae	<i>Pascopyrum smithii</i>	Western Wheatgrass	FACU	Native		
Poaceae	<i>Phalaris arundinacea</i>	Reed Canarygrass	FACW	Non-Native		
Poaceae	<i>Phleum alpinum</i>	Alpine Timothy	FACW	Native		
Poaceae	<i>Phleum pratense</i>	Timothy	FAC-	Non-Native		
Poaceae	<i>Pleuropogon refractus</i>	Nodding Semaphoregrass	OBL	Native		
Poaceae	<i>Poa annua</i>	Annual Bluegrass	FAC	Non-Native		
Poaceae	<i>Poa arctica</i> ssp. <i>grayana</i>	Arctic Bluegrass		Native		
Poaceae	<i>Poa bulbosa</i>	Bulbous Bluegrass		Non-Native		
Poaceae	<i>Poa compressa</i>	Canada Bluegrass	FACU+	Non-Native		
Poaceae	<i>Poa cusickii</i> ssp. <i>epilis</i>	Cusick's Bluegrass		Native		
Poaceae	<i>Poa cusickii</i> ssp. <i>purpurascens</i>	Cusick's Bluegrass		Native		
Poaceae	<i>Poa fendleriana</i> ssp. <i>fendleriana</i>	Muttongrass		Native		
Poaceae	<i>Poa laxa</i>	Mt. Washington Bluegrass		Native		
Poaceae	<i>Poa leptocoma</i>	Marsh Bluegrass	FACW+	Native		
Poaceae	<i>Poa lettermanii</i>	Letterman's		Native		

Appendix C. Checklist of grasses, sedges and rushes of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Poaceae	<i>Poa nervosa</i>	Bluegrass				
Poaceae	<i>Poa palustris</i>	Wheeler Bluegrass	FACU-	Native	S	
		Fowl Bluegrass	FAC	Non-Native		
Poaceae	<i>Poa paucispicula</i>	Alaska Bluegrass		Native		
Poaceae	<i>Poa pratensis</i>	Kentucky Bluegrass	FAC	Non-Native		
Poaceae	<i>Poa pringlei</i>	Pringle's Bluegrass		Native		
Poaceae	<i>Poa secunda</i>	Sandberg Bluegrass		Native		
Poaceae	<i>Poa stenantha</i>	Northern Bluegrass	FACU	Native		
Poaceae	<i>Poa suksdorfii</i>	Western Bluegrass		Native		
Poaceae	<i>Poa trivialis</i>	Rough Bluegrass	FACW	Non-Native		
Poaceae	<i>Poa wheeleri</i>	Wheeler's Bluegrass		Native		
Poaceae	<i>Polypogon monspeliensis</i>	Annual Rabbitsfoot Grass	FACW	Non-Native		
Poaceae	<i>Puccinellia distans</i>	Weeping Alkaligrass	FACW+	Native		
Poaceae	<i>Setaria viridis</i>	Green Bristlegrass		Non-Native		
Poaceae	<i>Torreyochloa pallida</i> var. <i>pauciflora</i>	Pale False Mannagrass	OBL	Native		
Poaceae	<i>Trisetum canescens</i>	Tall Trisetum	FACU	Native		
Poaceae	<i>Trisetum cernuum</i> var. <i>cernuum</i>	Nodding Oatgrass		Native		
Poaceae	<i>Trisetum spicatum</i>	Spike Trisetum	UPL	Native		
Poaceae	<i>Vahlodea atropurpurea</i>	Mountain Hairgrass	FACW	Native		
Poaceae	<i>Vulpia microstachys</i> var. <i>microstachys</i>	Desert Fescue		Native		

¹ See Appendix F. Guide to abbreviations used to describe wetland indicator status.

Appendix D. Checklist of shrubs and vines of Mount Rainier National Park.

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Araliaceae	<i>Oplopanax horridus</i>	Devils Club	FAC+	Native		
Berberidaceae	<i>Mahonia aquifolium</i>	Hollyleaved Barberry		Native		
Berberidaceae	<i>Mahonia nervosa</i>	Cascade Barberry		Native		
Caprifoliaceae	<i>Lonicera ciliosa</i>	Orange Honeysuckle		Native		
Caprifoliaceae	<i>Lonicera conjugialis</i>	Purpleflower Honeysuckle	FAC	Native		
Caprifoliaceae	<i>Lonicera involucrata</i>	Twinberry Honeysuckle	FAC+*	Native		
Caprifoliaceae	<i>Sambucus cerulea</i> var. <i>cerulea</i>	Blue Elderberry		Native		
Caprifoliaceae	<i>Symphoricarpos albus</i>	Common Snowberry	FACU	Native		
Caprifoliaceae	<i>Symphoricarpos hesperius</i>	Trailing Snowberry		Native		
Caprifoliaceae	<i>Viburnum edule</i>	Squashberry	FACW	Native		
Celastraceae	<i>Paxistima myrsinites</i>	Oregon Boxleaf		Native		
Cornaceae	<i>Cornus sericea</i> ssp. <i>sericea</i>	Redosier Dogwood		Native		
Empetraceae	<i>Empetrum nigrum</i>	Black Crowberry	FAC	Native		
Ericaceae	<i>Arctostaphylos nevadensis</i>	Pinemat Manzanita		Native		
Ericaceae	<i>Arctostaphylos uva-ursi</i>	Kinnikinnick	FACU-	Native		
Ericaceae	<i>Arctostaphylos columbiana</i>	Hairy Manzanita		Native		
Ericaceae	<i>Cassiope mertensiana</i>	Western Moss Heather	FACU+	Native		
Ericaceae	<i>Gaultheria humifusa</i>	Alpiine Spicywintergreen	FAC+	Native		
Ericaceae	<i>Gaultheria ovatifolia</i>	Western Teaberry	FAC	Native		
Ericaceae	<i>Gaultheria shallon</i>	Salal	FACU*	Native		
Ericaceae	<i>Harrimanella stelleriana</i>	Alaska Bellheather	FACU	Native		
Ericaceae	<i>Kalmia microphylla</i>	Alpine Laurel	FACW+	Native		
Ericaceae	<i>Kalmia polifolia</i>	Bog Laurel		Native		
Ericaceae	<i>Ledum groenlandicum</i>	Bog Labrador Tea	OBL	Native		
Ericaceae	<i>Menziesia ferruginea</i>	Rusty Menziesia	FACU+	Native		
Ericaceae	<i>Phyllodoce empetriiformis</i>	Pink Mountainheath	FACU*	Native		
Ericaceae	<i>Phyllodoce glanduliflora</i>	Yellow Mountainheath	FACU*	Native		
Ericaceae	<i>Rhododendron albiflorum</i>	Cascade Azalea	FACU	Native		
Ericaceae	<i>Vaccinium alaskaense</i>	Alaska Blueberry	NI	Native		
Ericaceae	<i>Vaccinium caespitosum</i> var. <i>paludicola</i>	Dwarf Bilberry		Native		
Ericaceae	<i>Vaccinium deliciosum</i>	Cascade Bilberry		Native		
Ericaceae	<i>Vaccinium membranaceum</i>	Thinleaf Huckleberry	FACU+	Native		
Ericaceae	<i>Vaccinium myrtilloides</i>	Velvetleaf Huckleberry	FACU	Native	S	
Ericaceae	<i>Vaccinium myrtillos</i>	Whortleberry	NI	Native		
Ericaceae	<i>Vaccinium ovalifolium</i>	Oval-Leaf Blueberry	UPL	Native		

Appendix D. Checklist of shrubs and vines of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Ericaceae	<i>Vaccinium ovatum</i>	California Huckleberry		Native		
Ericaceae	<i>Vaccinium parvifolium</i>	Red Huckleberry		Native		
Ericaceae	<i>Vaccinium scoparium</i>	Grouse Whortleberry	FACU-	Native		
Fabaceae	<i>Cytisus scoparius</i>	Scotch Broom		Non-Native		
Grossulariaceae	<i>Ribes acerifolium</i>	Mapleleaf Currant	NI	Native		
Grossulariaceae	<i>Ribes bracteosum</i>	Stink Currant	FAC	Native		
Grossulariaceae	<i>Ribes divaricatum</i>	Spreading Gooseberry	FAC*	Native		
Grossulariaceae	<i>Ribes lacustre</i>	Prickly Currant	FAC+	Native		
Grossulariaceae	<i>Ribes laxiflorum</i>	Trailing Black Currant		Native		
Grossulariaceae	<i>Ribes lobbii</i>	Gummy Gooseberry		Native		
Grossulariaceae	<i>Ribes sanguineum</i>	Redflower Currant		Native		
Grossulariaceae	<i>Ribes triste</i>	Red Currant	FAC	Native		
Grossulariaceae	<i>Ribes viscosissimum</i>	Sticky Currant	FAC	Native		
Grossulariaceae	<i>Ribes watsonianum</i>	Spring Gooseberry		Native		
Hydrangeaceae	<i>Philadelphus confusus</i>	Piper's Mock Orange		Native		
Hydrangeaceae	<i>Philadelphus lewisii</i>	Lewis' Mock Orange		Native		
Hydrangeaceae	<i>Whipplea modesta</i>	Common Whipplea		Native	R1	
Polemoniaceae	<i>Phlox caespitosa</i>	Tufted Phlox		Native		
Polemoniaceae	<i>Phlox diffusa</i> ssp. <i>longistylis</i>	Spreading Phlox		Native		
Rhamnaceae	<i>Ceanothus sanguineus</i>	Redstem Ceanothus	UPL	Native		
Rhamnaceae	<i>Ceanothus velutinus</i> var. <i>hookeri</i>	Hooker's Ceanothus		Native		
Rosaceae	<i>Dryas octopetala</i>	Eightpetal Mountain-Avens	FACU	Native		
Rosaceae	<i>Holodiscus discolor</i>	Oceanspray		Native		
Rosaceae	<i>Oemleria cerasiformis</i>	Indian Plum	FACU	Native		
Rosaceae	<i>Physocarpus capitatus</i>	Pacific Ninebark	FACW-	Native		
Rosaceae	<i>Rosa gymnocarpa</i> var. <i>gymnocarpa</i>	Wood Rose		Native		
Rosaceae	<i>Rosa nutkana</i> var. <i>hispida</i>	Bristly Nootka Rose		Native		
Rosaceae	<i>Rosa pisocarpa</i>	Cluster Rose	FAC	Native		
Rosaceae	<i>Rubus idaeus</i> ssp. <i>strigosus</i>	Grayleaf Red Raspberry	FAC-	Native		
Rosaceae	<i>Rubus laciniatus</i>	Cutleaf Blackberry	FACU+	Non-Native		
Rosaceae	<i>Rubus lasiococcus</i>	Roughfruit Berry		Native		
Rosaceae	<i>Rubus leucodermis</i> var. <i>leucodermis</i>	Whitebark Raspberry		Native		
Rosaceae	<i>Rubus nivalis</i>	Snow Raspberry		Native		
Rosaceae	<i>Rubus parviflorus</i> var. <i>parviflorus</i>	Thimbleberry		Native		
Rosaceae	<i>Rubus pedatus</i>	Strawberryleaf Raspberry	FAC-	Native		
Rosaceae	<i>Rubus spectabilis</i> var. <i>spectabilis</i>	Salmonberry		Native		
Rosaceae	<i>Rubus ursinus</i> ssp. <i>macropetalus</i>	California Blackberry		Native		
Rosaceae	<i>Spiraea betulifolia</i> var. <i>lucida</i>	Shinyleaf Spirea		Native		

Appendix D. Checklist of shrubs and vines of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Rosaceae	<i>Spiraea densiflora</i> var. <i>densiflora</i>			Native		
Rosaceae	<i>Spiraea douglasii</i> var. <i>douglasii</i>	Rose Spirea		Native		
Rosaceae	<i>Spiraea douglasii</i> var. <i>menziesii</i>	Menzies' Spirea		Native		
Rosaceae	<i>Spiraea splendens</i> var. <i>splendens</i>	Rose Meadowsweet		Native		
Rosaceae	<i>Spiraea x hitchcockii</i>	Spirea hybrid		Native		
Salicaceae	<i>Salix boothii</i>	Booth's Willow	OBL	Native		
Salicaceae	<i>Salix cascadiensis</i>	Cascade Willow		Native		
Salicaceae	<i>Salix commutata</i>	Undergreen Willow	OBL	Native		
Salicaceae	<i>Salix nivalis</i>	Snow Willow		Native		
Solanaceae	<i>Solanum nigrum</i>	Black Nightshade	FACU	Non-Native		
Viscaceae	<i>Arceuthobium abietinum</i>	Fir Dwarf Mistletoe		Native		
Viscaceae	<i>Arceuthobium douglasii</i>	Douglas-Fir Dwarf Mistletoe		Native		
Viscaceae	<i>Arceuthobium tsugense</i> ssp. <i>tsugense</i>	Hemlock Dwarf Mistletoe		Native		

¹ See Appendix F. Guide to abbreviations used to describe wetland indicator status.

Appendix E. Checklist of Trees of Mount Rainier National Park

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Aceraceae	<i>Acer circinatum</i>	Vine Maple	FAC-	Native		
Aceraceae	<i>Acer glabrum</i> var. <i>douglasii</i>	Douglas Maple		Native		
Aceraceae	<i>Acer macrophyllum</i>	Bigleaf Maple	FACU	Native		
Betulaceae	<i>Alnus rubra</i>	Red Alder	FAC	Native		
Betulaceae	<i>Alnus viridis</i> ssp. <i>sinuata</i>	Sitka Alder	FACW	Native		
Betulaceae	<i>Corylus cornuta</i> var. <i>californica</i>	California Hazelnut		Native		
Caprifoliaceae	<i>Sambucus racemosa</i> var. <i>racemosa</i>	Red Elderberry		Native		
Cornaceae	<i>Cornus nuttallii</i>	Pacific Dogwood		Native		
Cupressaceae	<i>Chamaecyparis nootkatensis</i>	Alaska Cedar		Native		
Cupressaceae	<i>Juniperus communis</i> var. <i>montana</i>	Common Juniper		Native		
Cupressaceae	<i>Thuja plicata</i>	Western Red Cedar	FAC	Native		
Pinaceae	<i>Abies amabilis</i>	Pacific Silver Fir	FACU	Native		
Pinaceae	<i>Abies grandis</i>	Grand Fir	FACU-*	Native		
Pinaceae	<i>Abies lasiocarpa</i>	Subalpine Fir	FACU	Native		
Pinaceae	<i>Abies procera</i>	Noble Fir		Native		
Pinaceae	<i>Picea engelmannii</i>	Engelmann Spruce	FAC	Native		
Pinaceae	<i>Picea sitchensis</i>	Sitka Spruce	FAC	Native		
Pinaceae	<i>Pinus albicaulis</i>	Whitebark Pine		Native		
Pinaceae	<i>Pinus contorta</i> var. <i>latifolia</i>	Lodgepole Pine		Native		
Pinaceae	<i>Pinus monticola</i>	Western White Pine	FACU	Native		
Pinaceae	<i>Pinus ponderosa</i>	Ponderosa Pine	FACU-	Native		
Pinaceae	<i>Pseudotsuga menziesii</i>	Douglas Fir	FACU*	Native		
Pinaceae	<i>Tsuga heterophylla</i>	Western Hemlock	FACU-	Native		
Pinaceae	<i>Tsuga mertensiana</i>	Mountain Hemlock	FACU	Native		
Rhamnaceae	<i>Frangula purshiana</i>	Cascara Buckthorn	FAC-	Native		
Rosaceae	<i>Amelanchier alnifolia</i> var. <i>semiintegrifolia</i>	Saskatoon Serviceberry		Native		
Rosaceae	<i>Malus fusca</i>	Oregon Crabapple	FACW	Native		
Rosaceae	<i>Prunus emarginata</i> var. <i>mollis</i>	Bitter Cherry		Native		
Rosaceae	<i>Prunus virginiana</i> var. <i>melanocarpa</i>	Black Chokecherry		Native		
Rosaceae	<i>Sorbus scopulina</i> var. <i>cascadensis</i>	Cascade Mountain Ash		Native		
Rosaceae	<i>Sorbus sitchensis</i> var. <i>grayi</i>	Western Mountain Ash		Native		
Rosaceae	<i>Sorbus sitchensis</i> var. <i>sitchensis</i>	Sitka Mountain Ash		Native		
Salicaceae	<i>Populus balsamifera</i> ssp. <i>trichocarpa</i>	Black Cottonwood		Native		
Salicaceae	<i>Salix barclayi</i>	Barclay's Willow	FACW	Native		
Salicaceae	<i>Salix geyeriana</i>	Greyer Willow		Native		
Salicaceae	<i>Salix hookeriana</i>	Dune Willow	FACW-	Native		

Appendix D. Checklist of trees of Mount Rainier National Park (continued).

Family	Scientific Name	Common Name	Wetland Status (R9) ¹	Origin	State Status	Federal Status
Salicaceae	<i>Salix lasiolepis</i>	Arroyo Willow	FACW	Native		
Salicaceae	<i>Salix lucida ssp. lasiandra</i>	Pacific Willow	FACW+	Native		
Salicaceae	<i>Salix planifolia ssp. planifolia</i>	Diamondleaf Willow		Native		
Salicaceae	<i>Salix prolixa</i>	MacKenzie's Willow		Native		
Salicaceae	<i>Salix scouleriana</i>	Scouler's Willow	FAC	Native		
Salicaceae	<i>Salix sitchensis</i>	Sitka Willow	FACW	Native		
Taxaceae	<i>Taxus brevifolia</i>	Pacific Yew	NI	Native		

¹ See Appendix F. Guide to abbreviations used to describe wetland indicator status.

Appendix F. Guide to abbreviations used to describe wetland indicator status¹

Indicator Code	Wetland Type	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

¹ 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 above. The MORA 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).

Appendix G. Plant species or herbarium specimens in need of further documentation

Species	Annotation	Needs Voucher	Notes
<i>Penstemon barretiae</i>	X		herbarium specimen from HW Bailey, 7/25/1911, Goat Rock; species is threatened in park, habitat seems unlikely in park
<i>Mimulus tilingii</i> var. <i>tilingii</i>	X	X	Biek mentions collections made by J.R. Slater for 2 locations : Lee Creek near Mowich and Cayuse Pass, it would be nice to document where these are and find new specimens.
<i>Collinsia grandiflora</i>	X	X	Goat Island Mountain collection by O.D. Allen June 30, 1896, alpine – it would be nice to check specimen and then conduct other field surveys.
<i>Mimulus alsinoides</i>		X	no herbarium specimen, just Biek's notes of locations: 3500' on Rampart Ridge Trail, 1.5 miles up Westside road, mossy rocks where the road crosses Cowlitz Divide, main road south of Tumtum
<i>Penstemon procerus</i> var. <i>procerus</i>		X	on the list but no herbarium specimens or literature other than Dunwiddie
<i>Selaginella densa</i> var. <i>scopulorum</i>		X	needs specimen, one listed in Biek from Irene Creso on rocks at Klapatchee & Gobbler's Knob
<i>Selaginella rupestris</i>		X	not in Biek, specimen at UPS only has ¼ mile north of Carbon glacier for location, no author, and no date, removed from list.
<i>Selaginella wallacei</i>		X	needs specimen, Biek mentions specimens at Longmire, but there's one from 1936 & Jones at Tipsoo Lake
<i>Solanum nigrum</i>	X		need to check FA Warren specimen at WTU to determine if it is <i>nigrum</i> or <i>americanum</i>
<i>Solanum americanum</i>	X	X	Not included on plant list; Biek states it is an infrequent weed and he feels that the specimen collected by F.A. Warren may be misidentified as <i>S. nigrum</i> but he did not key it out.
<i>Solanum sarrachoides</i>		X	originally on Jones 1938 plant list – need to check, entered as <i>S. physalifolium</i>
<i>Sparganium erectum</i>		X	listed in Biek but no evidence other than so taken off the plant list, states uncommon at low and middle elevations; probably <i>S. eurycarpum</i>
<i>Sparganium simplex</i>		X	not put on the list, listed in Brockman 1947 but no locations, may be <i>S. emersum</i>
<i>Saxifraga nelsoniana</i> ssp. <i>cascadensis</i>		X	new name of <i>Saxifraga punctata</i> var. <i>cascadensis</i> , observations by Biek no specimens
<i>S. nelsoniana</i> ssp. <i>nelsoniana</i>	X	X	<i>S. nelsoniana</i> ssp. <i>nelsoniana</i>
<i>S. nelsoniana</i> ssp. <i>nelsoniana</i>		X	Most species not represented in the herbarium
<i>S. lasiolepis</i>	X		3 specimens by Brockman in herbarium, Biek did not examine them but assumed he confused it with <i>S. lucida</i> ssp. <i>lasiandra</i>
<i>Populus tremuloides</i>		X	Biek states that Jones listed it but no other evidence, deleted from potential list

Appendix G. Plant species or herbarium specimens in need of further documentation (continued).

Species	Annotation	Needs Voucher	Notes
<i>Galium kamtschaticum</i>	X		O.D. Allen specimen from Goat Island Mtn should be checked; Biek calls this <i>G. oregonum</i> , but does not mention of checking specimen; left on list a <i>G. kamtschaticum</i>
<i>Pyrus sambucifolia</i>	X		specimens collected by O.D. Allen in 1896 on Goat Island Mtn and Bear Prairie Trail should be checked to determine if really <i>Sorbus sitchensis</i> var. <i>sitchensis</i>
<i>Potentilla dissecta</i>	X		Need to check the specimen by OD Allen to see if it is <i>P. drummondii</i> ssp <i>drummondii</i>
<i>Fragaria chiloensis</i>	X		specimen probably misidentified and needs to be checked to see it is <i>F. crinita</i>
<i>Ranunculus occidentalis</i>	X		left on list as unconfirmed because Biek states it is <i>R. uncinatus</i> , but no one has annotated the 1894 herbarium specimen collected by O.D. Allen
<i>R. aquatilis</i> , <i>R. alismifolius</i>		X	left on without varieties because there are no herbarium records to determine the variety
<i>Delphinium bicolor</i>	X		3 specimens need to be annotated, unlikely that species is in park
<i>Anemone multifida</i>	X		collected by O.D. Allen on Goat Island Mtn, should be checked to see if it is var. <i>saxicola</i> or <i>A. hudsoniana</i> (Brockman)
<i>Anemone lyalii</i>		X	Biek lists as being in Ohana, needs to be checked. Deleted since it is a coastal plant
<i>Dodecatheon meadia</i>	X		Collected by O.D. Allen needs to be reviewed probably misidentified since species is from Midwest US
<i>Polypodium vulgare</i>	X		O.D.Allen specimen needs to be checked to determine if it is <i>P. hesperium</i> or <i>P. glycyrrhiza</i>
<i>Gilia heterophylla</i>	X		Specimen collected by O .D. Allen in MORA herbarium; no ITIS name for this. Biek says it is <i>Collomia heterophylla</i> but he did not annotate the specimen and did not record how he made his determination.
<i>Poa laxa</i>	X		specimen by O.D. Allen, species only listed as occurring in OR, not WA state
<i>Melica bromoides</i> var. <i>howellii</i>	X		O.D. Allen specimen needs to be checked. No name in IT IS and very old name, no easily found synonym
<i>Glyceria fluitans</i>	X		Biek states this OD Allen specimen is <i>G. leptostachya</i>
<i>Festuca jonesii</i>	X		O.D. Allen 1893 specimen, Biek states it is probably <i>F. subulata</i>
<i>F. howellii</i>	X		1895 O.D. Allen specimen, Biek states it is probably <i>F. viridula</i>
<i>Delphiniums</i>		X	–need collections. <i>D. glareosum</i> ssp <i>glareosum</i> – Biked says it is widespread in the park, but there are no specimens
<i>Montia parviflora</i>	X		O.D. Allen specimen should be checked to determine if its is a <i>Montia</i> or <i>Claytonia parviflora</i> ssp <i>parviflora</i>
<i>Bromus orcuttianus</i>	X		O.D. Allen specimen should be checked , Biek says it is probably <i>B. sitchensis</i> var <i>sitchensis</i>
<i>Agrostis varians</i>	X		specimen of OD Allen should be annotated to see if it is <i>A.rossiae</i>
<i>Pinus contorta</i> var. <i>contorta</i>	X		specimens of OD Allen should be checked to see if they are really <i>latifolia</i> (or now <i>murrayana</i>)

Appendix G. Plant species or herbarium specimens in need of further documentation (continued).

Species	Annotation	Needs Voucher	Notes
<i>Habenaria gracilis</i>	X		O.D. Allen specimen should be checked to determine if it is <i>Platanthera stricta</i> as Biek states
<i>Cephalanthera oregana</i>	X		specimen by O.D. Allen needs annotation
<i>Botrychium ternatum</i>	X		O.D. Allen specimen should be annotated – probably is <i>B. multifidum</i>
<i>Epilobium x pulchrum</i>		X	hybrid mentioned by Brockman and Biek, needs to be confirmed, no specimens
<i>Epilobium glaberrimum</i> var. <i>latifolium</i>	X		1895 O. D. Allen specimen needs to be annotated since var. is not and accepted name; Biek suggests it is probably it is ssp <i>fastigiatum</i>
<i>Epilobium densiflorum</i>		X	Needs verification, observed by J. B. Flett around 1901 (cited in Biek)
<i>Luzula spadicea</i>	X		O.D. Allen specimen should be annotated to see if it is <i>L. piperi</i> as Biek surmises
<i>Luzula major</i>	X		Check 1938 specimen by Smith to determine if it is <i>L. piperi</i>
<i>Juncus xiphioides</i>		X	Biek states it is common but no herbarium specimens
<i>Lupinus rivularis</i> , <i>L. lyallii</i> , <i>L. sericeus</i>	X		Need to check O.D. Allen specimens
<i>Vaccinium myrtilloides</i>	X		O.D. Allen specimen, Biek states is really <i>V. membranaceum</i>
<i>Carex sterilis</i>	X		eastern US species; the 1895 O.D. Allen voucher actually has var <i>excelsior</i> and Looking in IPNI a synonym is <i>Carex echinata</i> which is in WA, Bieks list as <i>ssp echinata</i> . The <i>Carex</i> working group lists two ssp and although <i>ssp phyllomanica</i> has not been reported away from the coast, we should annotate it to ssp
<i>Carex rostrata</i>		X	Listed by Brockman, but probably misapplied to <i>C. utriculata</i> , need specimen
<i>C. scirpoidea</i> var. <i>stenochlaena</i>			Need to go with <i>Carex</i> working group name not ITIS since it does not recognize spp.
<i>C. rigida</i> ssp <i>inferalpina</i>	X		1897 O.D. Allen specimen, Biek states is misapplied to <i>C. scopulorum</i> var <i>bracteosa</i> , so this specimen is used as evidence for the latter but specimen needs to be annotated
<i>C. muricata</i>	X		1935 Thompson specimen from Ohana , but the species is an eastern introduced sedge, Biek says it was misapplied to and should be <i>C. echinata</i> ssp <i>echinata</i>
<i>Carex halliana</i>	X		F.A. Warren specimen in UW herbarium, perhaps should be checked
<i>C. globosa</i>	X		1895 O.D. Allen specimen should be annotated since species is not known from WA
<i>C. aurea</i>		X	
<i>C. atratiformis</i>	X		
<i>C. aperta</i>		X	although Biek says probably not in park based on his examination of an Irene Creso specimen, he appears not to have been aware of the 2 specimens at UBC that were originally under the name of <i>C. accedens</i> so it should stay on the list
<i>Hypericum mutilum</i>	X		O.D. Allen specimen
<i>Lonicera conjugialis</i>	X		1935 H.E. Bailey specimen and this species is not listed as occurring in WA
<i>Campanula uniflora</i>	X		old specimen in UBC, this species does not occur in WA, probably needs annotating
<i>Physaria alpestris</i>		X	Biek lists as above 7,000', no specific observation

Appendix G. Plant species or herbarium specimens in need of further documentation (continued).

Species	Annotation	Needs Voucher	Notes
<i>Draba glacialis</i>	X		Old name on 1937 J. Hoverson specimen, needs annotation
<i>Draba douglasii</i>	X		1937 specimen needs annotation to determine if it is <i>Cusickiella dougalsii</i>
<i>Cryptantha ambigua</i>	X		1933 specimen by F.A. Warren, Biek states is clearly incorrect, needs annotation
<i>Troximon</i>	X		Specimens of 4 species collected by O.D. Allen need to be annotated since they are probably all <i>Agoseris</i> species or <i>Microseris</i>
<i>Aster foliaceus</i> v. <i>gray</i>	X		1897 O.D. Allen specimen

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