

**West Ridge Wind Energy Project
2009 Special Status Plant Species Investigation
Harney County, Oregon**

Prepared for:

Columbia Energy Partners, LLC
317 Columbia Street
Vancouver, Washington 98660

Study Conducted by:

Rick Gerhardt, John Luginbuhl, and Leah King

Northwest Wildlife Consultants, Inc.
815 NW 4th St.
Pendleton, Oregon 97801



January 28, 2010

Table of Contents

1.0	INTRODUCTION	1
2.0	METHODS	1
2.1	Target Species and Pre-field Review	1
2.2	Field Surveys	1
3.0	RESULTS	2
3.1	Target Species and Pre-Field Review.....	2
3.2	Field Surveys	2
4.0	REFERENCES	2
5.0	APPENDICES	4

Appendices

Appendix A.	Oregon Natural Heritage Information Center response letter.	4
Appendix B.	United States Fish and Wildlife Service list of Federally Listed, Proposed, Candidate species, and Species of Concern potentially occurring within Harney County, Oregon.	5
Appendix C.	Rare and special status vascular plant species with potential for occurrence in the West Ridge Wind Energy Project area.	8
Appendix D.	Comprehensive list of plant taxa documented during special status plant surveys of the West Ridge Wind Energy Project, June 5-16 and July 20-24, 2009.	14

Figures

Figure 1.	West Ridge Special Status Vascular Plants.....	22
-----------	--	----

West Ridge Wind Energy Project 2009 Special Status Plant Species Investigation

1.0 INTRODUCTION

Northwest Wildlife Consultants, Inc. (NWC) based in Pendleton, Oregon was contracted by Columbia Energy Partners, LLC (CEP) to conduct a database search for existing information and to conduct surveys for special status plant species (including rare plant species tracked by Oregon Natural Heritage Information Center; for target list information see Section 2.1 below) on CEP's proposed West Ridge Wind Energy Project (Project). The Project is located on privately-owned lands on the northern end of the Steens Mountains in Harney County, Oregon. This report summarizes the methods and results of these investigations. Related habitat mapping (Gerhardt et al., 2008), raptor nest survey (Gerhardt and Gritski, 2010), special status wildlife species survey (Gerhardt and Gritski, 2009a), small-plot avian survey (Gerhardt and Gritski, 2009b), bat inventory survey (Gritski and Gerhardt, 2010), and avian use survey are or will be summarized in separate reports.

2.0 METHODS

2.1 Target Species and Pre-field Review

A list of documented occurrences of rare, Threatened, Endangered, or otherwise tracked wildlife and plant species, within a 5-mile radius from the West Ridge Wind Energy Project was requested from the Oregon Natural Heritage Information Center (ORNHIC) in December 2008. Results were received on December 3, 2008 and a copy of the ORNHIC response letter can be found in Appendix A.

The United States Fish and Wildlife Service (USFWS) maintains lists of Federally Endangered, Threatened, Proposed, and Candidate species, and Species of Concern potentially occurring within each County. The USFWS list for Harney County was accessed and provided in Appendix B.

Prior to the beginning of field surveys, a list of focal rare plant taxa with the greatest likelihood of occurrence on the Project was compiled (Appendix C). This list was developed by including the information gained from the ORNHIC request, the USFWS County list, and a list of all rare taxa known to occur in the general vicinity from existing data (Oregon Flora Project 2008). Additional taxa were added to this list after reviewing the distribution maps and habitat/ecology descriptions for rare plants documented as occurring on Steens Mountain (Mansfield 2000). This approach helped guide and prioritize survey efforts through specific knowledge of the vegetative associates and habitats for rare taxa likely to be encountered. The latest State and Federal listing statuses of plant species were obtained from the Oregon Natural Heritage Information Program (ORNHIC 2007; ORNHIC 2009).

2.2 Field Surveys

Special status plant surveys were conducted June 5-16 and July 20-24, 2009. These surveys covered corridors extending 400 meters to each side of proposed turbine strings and roads (Figure 1); search effort was concentrated on plant communities considered more likely to support the focal rare species identified in the pre-field review (Appendix C). In order to maximize the likelihood of detecting and accurately identifying rare plant species, survey dates were scheduled to coincide with known identification periods for as many focal rare plant taxa as possible (Appendix C).

Surveys were conducted by the experienced botanists who had performed the pre-field review. Surveyors carried handheld GPS units containing survey corridors, and used them to record the locations of all potential rare taxa encountered. Digital position data were later uploaded directly from field GPS devices and converted to ESRI[®] shapefiles using DNR Garmin (Minnesota Department of Natural Resources, 2008) and ArcMap[™] (ESRI, 2008) software. All vascular plant species encountered during surveys were identified to species, where possible (Appendix D). Potential rare taxa were definitively identified on site or, if necessary, collected and pressed for later identification in the office or through comparison to documented herbarium specimens. For plant identification, technical keys of Mansfield (2000), the Carex Working Group (2008), Hickman (1993), and Hitchcock and Cronquist (1973) were used, these being the accepted standard references for vascular plants in the Pacific Northwest region generally, and the Steens Mountain area specifically.

3.0 RESULTS

3.1 Target Species and Pre-Field Review

The Oregon Natural Heritage Information Center reported 20 plant records of nine different species: Rafinesque's pondweed (*Potamogeton diversifolius*), small saxifrage (*Saxifraga adscendens oregonensis*), rock milicgrass (*Melica stricta*), common moonwort (*Botrychium lunaria*), Cusick's giant-hyssop (*Agastache cusickii*), snowline cymopterus (*Cymopterus nivalis*), and three sedges, (*Carex abrupta*, *C. cordillerana*, and *C. vernacular*).

The USFWS list for Harney County shows no potential for occurrence of Threatened, Proposed, or Candidate species, but did list a single Endangered species as potentially occurring within the County, Malheur wire-lettuce (*Stephanomeria malheurensis*; Appendix B). The pre-field review process identified 57 special status vascular plant taxa with potential for occurrence on the Project and assigned each with low, moderate, or high likelihood of presence (Appendix C).

3.2 Field Surveys

The June and July survey dates were appropriate for identification of all potential rare species. Special status plant species surveys resulted in detection of 258 vascular plant species (Appendix D). None of these were Federal or Oregon Department of Agriculture listed species. Two ORNHIC tracked rare plants were documented. These included a population of about 20 plants of abruptbeak sedge (*Carex abrupta*), an ORNHIC List 2 species (Figure 1). List 2 includes species that may be threatened or endangered in Oregon but which are stable elsewhere. Also documented was sticky Indian paintbrush (*Castilleja viscidula*), which was found throughout the high-elevation (southern) half of the survey area (Figure 1), with population numbers estimated at 2,500 plants. This species is an ORNHIC List 3 species; List 3 includes species deemed rare in Oregon but for which more information is needed for status assessment.

4.0 REFERENCES

Carex Working Group (Wilson, B. L., R. Brainerd, D. Lytjen, B. Newhouse, and N. Otting), 2008. Field Guide to the Sedges of the Pacific Northwest. University of Oregon Press, Corvallis, Oregon.

ESRI[®]. 2008. ArcMap[™] Vers. 9.2. Redlands, California.

- Gerhardt, R., and B. Gritski. 2009a. West Ridge Wind Energy Project 2009 special status wildlife species investigation, Harney County, Oregon. Prepared for Columbia Energy Partners, LLC. Prepared by Northwest Wildlife Consultants, Inc., Pendleton, Oregon.
- Gerhardt, R., and B. Gritski. 2009b. West Ridge Wind Energy Project. 2009 small-plot avian survey, Harney County, Oregon. Prepared for Columbia Energy Partners, LLC. Prepared by Northwest Wildlife Consultants, Inc., Pendleton, Oregon.
- Gerhardt, R., and B. Gritski. 2010. West Ridge Wind Energy Project 2009 aerial raptor nest survey and preliminary raptor impact assessment, Harney County, Oregon. Prepared for Columbia Energy Partners, LLC. Prepared by Northwest Wildlife Consultants, Inc., Pendleton, Oregon.
- Gerhardt, R., B. Gritski, J. Luginbuhl. 2008. Biological study report, West Ridge Wind Energy Project. Prepared for West Ridge Wind, LLC. Prepared by Northwest Wildlife Consultants, Inc., Pendleton, Oregon.
- Gritski, B., and R. Gerhardt. 2010. West Ridge Wind Energy Project 2009 bat inventory surveys, Harney County, Oregon. Prepared for Columbia Energy Partners, LLC. Prepared by Northwest Wildlife Consultants, Inc., Pendleton, Oregon.
- Hickman, J. C. (Ed.), 1993. The Jepson Manual: Higher Plants of California. University of California Press, Berkeley and Los Angeles, California.
- Hitchcock, C. L., and A. Cronquist. 1973. Flora of the Pacific Northwest. University of Washington Press, Seattle, Washington. 730pp.
- Jepson 1993
- Mansfield, Donald H. 2000. Flora of Steens Mountain. Oregon State University Press; Corvallis, Oregon. 410pp.
- Minnesota Department of Natural Resources. 2008. DNR Garmin. Vers. 5.2.33. ArcMap extension. Minnesota Department of Natural Resources, St. Paul, Minnesota.
- Oregon Flora Project. 2008. Rare Plant Guide. Available online at:
<http://www.oregonflora.org/rareplants/index.php>
- Oregon Natural Heritage Information Program. 2007. Vascular Plant Rankings, 2007. Available online at: <http://oregonstate.edu/ornhic/data/vascular2007.html>
- Oregon Natural Heritage Information Center (ORNHIC). 2009. Vascular Plant Update to the March 2007 edition of "Rare, Threatened and Endangered Species of Oregon". March 2009. Available online at:
http://oregonstate.edu/ornhic/documents/Plants_Update_Sp09_final-Vascular.pdf

5.0 APPENDICES

Appendix A. Oregon Natural Heritage Information Center response letter.

OREGON NATURAL HERITAGE INFORMATION CENTER

Wednesday, December 03, 2008

Tamiko Ruhlen
Northwest Wildlife Consultants, Inc.
815 NW 4th St
Pendleton, OR 97801



Institute for Natural Resources
1322 SE Morrison Street
Portland, Oregon 97214-2423
503.731.3070
<http://oregonstate.edu/ornhic>

Dear Ms. Ruhlen:

Thank you for requesting information from the Oregon Natural Heritage Information Center (ORNHIC). We have conducted a data system search for rare, threatened and endangered plant and animal records for your West Ridge Wind Project at Steens Mountain area.

Twenty-seven (27) records total were noted within a five-mile radius of your project site and are included on the enclosed computer printouts.

Please remember that the lack of rare element information from a given area does not mean that there are no significant elements there, only that there is no information known to us from the site. To assure that there are no important elements present, you should inventory the site, at the appropriate season.

This data is confidential and for the specific purposes of your project and is **not to be distributed**. Please also note that as our database is continually updated, the data in this report should be considered current for one year from the date it was generated and should not be cited after **December 2009**.

Please forward the included invoice to the appropriate party in your organization.

If you need additional information or have any questions, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Lindsey Koepke".

Lindsey Koepke
Assistant Information Manager
lindsey_koepke@ornhiconline.edu
503.731.3070 x104

encl.: **invoice (H-120308-LAK2)**
computer printouts and data key

Appendix B. United States Fish and Wildlife Service list of Federally Listed, Proposed, Candidate species, and Species of Concern potentially occurring within Harney County, Oregon.

Last updated, November 9, 2009 Available at:
<http://www.fws.gov/oregonfwo/Species/Lists/Documents/County/HARNEY%20COUNTY.pdf>

**FEDERALLY LISTED, PROPOSED, CANDIDATE SPECIES
 AND SPECIES OF CONCERN
 UNDER THE JURISDICTION OF THE FISH AND WILDLIFE SERVICE
 WHICH MAY OCCUR WITHIN HARNEY COUNTY, OREGON**

LISTED SPECIES

Fish

Inland:

Borax Lake chub	<i>Gila boraxobius</i>	CH E
Lahontan cutthroat trout	<i>Oncorhynchus clarki henshawi</i>	T
Bull trout	<i>Salvelinus confluentus</i>	CH T

Plants

Malheur wire-lettuce	<i>Stephanomeria malheurensis</i>	CH E
----------------------	-----------------------------------	------

PROPOSED SPECIES

None

No Proposed Endangered Species		PE
No Proposed Threatened Species		PT

CANDIDATE SPECIES

Birds

Yellow-billed cuckoo	<i>Coccyzus americanus</i>
----------------------	----------------------------

Reptiles and Amphibians

Inland:

Columbia spotted frog	<i>Rana luteiventris</i>
-----------------------	--------------------------

SPECIES OF CONCERN

Mammals

Terrestrial:

Pygmy rabbit	<i>Brachylagus idahoensis</i>
Pallid bat	<i>Antrozous pallidus pacificus</i>
Townsend's western big-eared bat	<i>Corynorhinus townsendii townsendii</i>
Spotted bat	<i>Euderma maculatum</i>
California wolverine	<i>Gulo gulo luteus</i>
Silver-haired bat	<i>Lasionycteris noctivagans</i>
Small-footed myotis bat	<i>Myotis ciliolabrum</i>
Long-eared myotis bat	<i>Myotis evotis</i>
Fringed myotis bat	<i>Myotis thysanodes</i>
Long-legged myotis bat	<i>Myotis volans</i>
Yuma myotis bat	<i>Myotis yumanensis</i>
Preble's shrew	<i>Sorex preblei</i>

Birds

Northern goshawk	<i>Accipiter gentilis</i>
Western burrowing owl	<i>Athene cucularia hypugaea</i>

Last Updated November 9, 2009 (11:03:47 AM)
 U.S. Fish and Wildlife Service, Oregon Fish and Wildlife Office
 Page 1 of 3

**FEDERALLY LISTED, PROPOSED, CANDIDATE SPECIES
AND SPECIES OF CONCERN
UNDER THE JURISDICTION OF THE FISH AND WILDLIFE SERVICE
WHICH MAY OCCUR WITHIN HARNEY COUNTY, OREGON**

Ferruginous hawk
Greater sage-grouse
Black tern
Olive-sided flycatcher
Willow flycatcher
Yellow-breasted chat
Western least bitttern
Lewis' woodpecker
Mountain quail
White-headed woodpecker
White-faced ibis

Buteo regalis
Centrocercus urophasianus
Chlidonias niger
Contopus cooperi
Empidonax traillii adastus
Icteria virens
Ixobrychus exilis hesperis
Melanerpes lewis
Oreortyx pictus
Picoides albolarvatus
Plegadis chihi

Reptiles and Amphibians

Northern sagebrush lizard

Sceloporus graciosus graciosus

Fish

Malheur mottled sculpin
Alvord chub
Catlow tui chub
Great Basin redband trout
Catlow Valley redband trout

Cottus bairdi ssp.
Gila alvordensis
Gila bicolor ssp.
Oncorhynchus mykiss gibbsi
Oncorhynchus mykiss ssp.

Invertebrates

Flatworms and Roundworms:

Planarian

Kenkia rhynchida

Crustaceans:

Malheur Cave amphipod

Stygobromus hubbsi

Clams:

California floater mussel

Anodonta californiensis

Arachnids:

Malheur pseudoscorpion

Apochtonius malheuri

Plants

Bastard kentrophyta
Crenulate grape fern
Peck's mariposa lily
Dwarf evening-primrose
Slender wild cabbage
Golden buckwheat
Crosby's buckwheat
Cusick's buckwheat
Prostrate buckwheat
Green buckwheat
Shelly's ivesia
disappearing monkeyflower
Playa phacelia
Williams combleaf
Biennial stanleya
Howell's thelypody
Leiberg's clover

Astragalus tegetarioides
Botrychium crenulatum
Calochortus longebarbatus var. *peckii*
Camissonia pygmaea
Caulanthus major var. *nevadensis*
Eriogonum chrysops
Eriogonum crosbyae
Eriogonum cusickii
Eriogonum procidium
Eriogonum umbellatum var. *glaberrimum*
Ivesia rhypara var. *shellyi*
Mimulus evanescens
Phacelia inundata
Polyctenium williamsiae
Stanleya confertiflora
Thelypodium howellii ssp. *howellii*
Trifolium leibergii

DELISTED SPECIES

Last Updated November 9, 2009 (11:03:47 AM)
U.S. Fish and Wildlife Service, Oregon Fish and Wildlife Office
Page 2 of 3

**FEDERALLY LISTED, PROPOSED, CANDIDATE SPECIES
AND SPECIES OF CONCERN
UNDER THE JURISDICTION OF THE FISH AND WILDLIFE SERVICE
WHICH MAY OCCUR WITHIN HARNEY COUNTY, OREGON**

Birds

American Peregrine falcon
Bald eagle

Falco peregrinus anatum
Haliaeetus leucocephalus

Definitions:

Listed Species: An endangered species is one that is in danger of extinction throughout all or a significant portion of its range. A threatened species is one that is likely to become endangered in the foreseeable future.

Proposed Species: Taxa for which the Fish and Wildlife Service or National Marine Fisheries Service has published a proposal to list as endangered or threatened in the Federal Register.

Candidate Species: Taxa for which the Fish and Wildlife Service has sufficient biological information to support a proposal to list as endangered or threatened.

Species of Concern: Taxa whose conservation status is of concern to the U.S. Fish and Wildlife Service (many previously known as Category 2 candidates), but for which further information is still needed. Such species receive no legal protection and use of the term does not necessarily imply that a species will eventually be proposed for listing.

Delisted Species: A species that has been removed from the Federal list of endangered and threatened wildlife and plants.

Key:

E Endangered
T Threatened
CH Critical Habitat has been designated for this species
PE Proposed Endangered
PT Proposed Threatened
PCH Critical Habitat has been proposed for this species

Notes:

Marine & Anadromous Species: Please consult the National Marine Fisheries Service (NMFS) (<http://www.nmfs.noaa.gov/pr/species/>) for marine and anadromous species. The National Marine Fisheries Service (NMFS) manages mostly marine and anadromous species, while the U.S. Fish and Wildlife Service manages the remainder of the listed species, mostly terrestrial and freshwater species.

Last Updated November 9, 2009 (11:03:47 AM)
U.S. Fish and Wildlife Service, Oregon Fish and Wildlife Office
Page 3 of 3

Appendix C. Rare and special status vascular plant species with potential for occurrence in the West Ridge Wind Energy Project area.

NAME	STATUS	TYPICAL HABITAT	LIKELIHOOD OF OCCURRENCE	IDENTIFICATION PERIOD
<i>Agastache cusickii</i> Cusick's giant hyssop	OR Rank: G3G4S2 ORNHIC List: 2	On alpine rock outcrops or gravelly soils.	Low	July - August
<i>Allium bisceptrum</i> twin crest onion	OR Rank: G4G5S4 ORNHIC List: 4	Rare in moist meadows and aspen groves up to 2100m.	Moderate	May - July
<i>Botrychium lanceolatum</i> lanceleaf moonwort	OR Rank: G5S3 ORNHIC List: 4	In Steens, known only from high elevation site at S. Fork Willow cirque.	Low	July - August
<i>Botrychium lunaria</i> common moonwort	OR Rank: G5S2 ORNHIC List: 2	Along perennial streams, in open, moist rocky meadows. Not known from Steens. Elevation: 2300 to 7400 ft.	Low	July - September
<i>Botrychium minganense</i> Mingan moonwort	OR Rank: G4S3 ORNHIC List: 4	Rare in Little Blitzen and S. Fork Willow cirques above 8500 ft.	Low	July - September
<i>Botrychium pinnatum</i> northern moonwort	OR Rank: G4?S3 ORNHIC List: 4	Extremely rare in S. Fork Willow and possibly other cirques above 8200 ft.	Low	July - August
<i>Callitriche hermaphroditica</i> northern water starwort	OR Rank: G5SNR ORNHIC List: 3	Occasional in marshes and ponds below 2400m.	Moderate	July – September
<i>Camissonia boothii ssp. boothii</i> Booth's suncup	OR Rank: G5T4SNR ORNHIC List: 4	Occasional in alkaline desert scrub below 1300m.	Low	June – July
<i>Camissonia parvula</i> Lewis River suncup	OR Rank: G5SNR ORNHIC List: 3	Dry sagebrush flats below 1500m. Known from one collection s. of Frenchglen	Low	June – July
<i>Carex abrupta</i> abruptbeak sedge	OR Rank: G5S1 ORNHIC List: 2	Moist mountain meadows and slopes, 1400-3300m.	Moderate - High	July - August
<i>Carex atherodes</i> wheat sedge	OR Rank: G5S2? ORNHIC List: 3	Uncommon at marsh edges below 1400m.	Low - Moderate	June – August
<i>Carex capitata</i> capitate sedge	OR Rank: G5S2 ORNHIC List: 2	In Steens, uncommon on shaded rock ledges and moist, gravelly slopes above 7900 ft.	Moderate	July - August
<i>Carex haydeniana</i> cloud sedge	OR Rank: G4G5S4 ORNHIC List: 4	In moist to moderately dry places at high elevations, usually above timberline.	Low	June - August

NAME	STATUS	TYPICAL HABITAT	LIKELIHOOD OF OCCURRENCE	IDENTIFICATION PERIOD
<i>Carex pelocarpa</i> duskyseed sedge	OR Rank: G4G5S1 ORNHIC List: 2	Common in meadows and on moist, open slopes and stream banks at high elevations in the mountains, often above timberline. Not known from Steens.	Low	June - August
<i>Carex praeceptorum</i> early sedge	OR Rank: G4G5S3 ORNHIC List: 4	In Steens, uncommon in inundated seeps and boggy stream and lake margins above 7500 ft.	Moderate	July - August
<i>Carex subnigricans</i> nearlyblack sedge	OR Rank: G5S1 ORNHIC List: 2	On moist, rocky slopes and in meadows at high elevations in the mountains.	Moderate	June - August
<i>Carex vernacula</i> native sedge	OR Rank: G5S2 ORNHIC List: 2	In moist or wet places at high elevations especially at the edges of melting snowfields and in melt-water streams.	Low	June - August
<i>Castilleja viscidula</i> sticky Indian paintbrush	OR Rank: G4G5SNR ORNHIC List: 3	Uncommon but locally abundant on rocky slopes and benches above 2400m.	High	Late June – August
<i>Claytonia nevadensis</i> Sierra springbeauty	OR Rank: G4S3 ORNHIC List: 4	Occasional in alpine streams.	Low	April - Late July
<i>Cymopterus nivalis</i> snowline springparsley	OR Rank: G5S2 ORNHIC List: 2	In Steens, restricted to rock crevices on ridges near highest summits.	Low	July - August
<i>Draba cusickii</i> Cusick's draba	OR Rank: G4T3S2 ORNHIC List: 4	Common in rock outcrops above 6900 ft.	High	Late June - July
<i>Eatonella nivea</i> white false tickhead	OR Rank: G4G5S3 ORNHIC List: 4	Rare in sandy soils at the edge of vernal ponds and open barren soils below 2200m.	Low	May - June
<i>Ericameria discoidea</i> var. <i>discoidea</i> whitestem goldenbush	OR Rank: G4G5T4S3? ORNHIC List: 4	Dry, rocky outcrops above 8200 ft.	Low	August - Early September
<i>Festuca brachyphylla</i> alpine fescue	OR Rank: G5SNR ORNHIC List: 3	Moist rocky slopes, meadows and crevices above 7900 ft.	Low	June - August
<i>Gentiana prostrata</i> pygmy gentian	OR Rank: G4G5S2 ORNHIC List: 2	Cirque meadows above 8200 ft.	Low	July - August
<i>Gentianella tenella</i> Dane's dward gentian	OR Rank: G4G5T4S1 ORNHIC List: 2	Disturbed sites in sub-alpine to alpine meadows from 6800 to 7600 ft.	Moderate	July - August

NAME	STATUS	TYPICAL HABITAT	LIKELIHOOD OF OCCURRENCE	IDENTIFICATION PERIOD
<i>Ivesia rhypara</i> var. <i>rhypara</i> grimy mousetail	OR Rank: G2T1S1 ORNHIC List: 1 ODA: LE USFWS: SOC	Mostly on dry, relatively barren, yellowish or light-colored outcrops or badlands. Elevation ~5000 to 6500 ft.	Low	June - August
<i>Juncus bryoides</i> moss rush	OR Rank: G4SNR ORNHIC List: 3	Moist shallow depressions in sagebrush. In Steens, known only east of Fish Lake.	Moderate	July - August
<i>Juncus hemiendytus</i> var. <i>abjectus</i> Herman's dwarf rush	OR Rank: G5T4SNR ORNHIC List: 3	Seasonally wet depressions and gravels in sagebrush. In Steens, between 5250 and 7540 ft.	Moderate	July - August
<i>Kobresia bellardii</i> Bellardi bog sedge	OR Rank: G5S1 ORNHIC List: 2	In Steens, known only from high elevation cirque meadow.	Low	July - August
<i>Lepidium montanum</i> var. <i>nevadense</i> mountain pepperweed	OR Rank: G5?T1?SNR ORNHIC List: 3	Sandy or gravelly sites in basins.	Low	May – June
<i>Lilaea scilloides</i> awl-leaf lilaea	OR Rank: G5?S3? ORNHIC List: 4	Uncommon in drying mud of receding reservoirs and lakes below 1800m.	Low	June – August
<i>Limosella acaulis</i> Owyhee mudwort	OR Rank: G5SNR ORNHIC List: 3	Muddy shores of ponds or flooded sites at lower elevations.	Low - Moderate	June – August
<i>Lloydia serotina</i> common alpine lily	OR Rank: G5T5SNR ORNHIC List: 3	Gravelly ridges and in rock crevices high in the mountains.	Low	June – July
<i>Malacothrix glabrata</i> smooth desertdandelion	OR Rank: G5S4 ORNHIC List: 4	Uncommon in desert scrub below 1400m.	Low - Moderate	May – June
<i>Malacothrix torreyi</i> Torrey's desertdandelion	OR Rank: G4S4 ORNHIC List: 4	Occasional in desert scrub and on dry sagebrush dominated slopes below 1500m.	Moderate - High	May – June
<i>Melica stricta</i> rock milicgrass	OR Rank: G4S3 ORNHIC List: 2	Moist rocky crevices above 8200 ft.	Low	July - August
<i>Mimulus evanescens</i> disappearing mokeyflower	OR Rank: G2S2 ORNHIC List: 1 ODA: C USFWS: SOC	Dry watercourse. Extremely rare.	Low	May – August
<i>Myriophyllum sibiricum</i> shortspike watermilfoil	OR Rank: G5S3 ORNHIC List: 4	Marshes and lakes.	High	June - August

NAME	STATUS	TYPICAL HABITAT	LIKELIHOOD OF OCCURRENCE	IDENTIFICATION PERIOD
<i>Nama densus</i> var. <i>parviflorum</i> leafy fiddleleaf	OR Rank: G5T5SNR ORNHIC List: 3	Uncommon in gravels, cinders, or dry sagebrush below 1800m.	Moderate	May – July
<i>Navarretia leucocephala</i> ssp. <i>Leucocephala</i> whitehead navarretia	OR Rank: G4T4?S2 ORNHIC List: 2	Rare in moist meadows and vernal pools.	Low	June – August
<i>Oxytheca dendroidea</i> narrowleaf oxytheca	OR Rank: G4SNR ORNHIC List: 3	Uncommon in sandy flats below 1400m.	Low	June – August
<i>Penstemon davidsonii</i> var. <i>praeteritus</i> timberline beardtongue	OR Rank: G4G5T4S3 ORNHIC List: 4	Alpine rock outcrops or gravelly soils.	Moderate	June – August
<i>Penstemon pratensis</i> western whiteflower beardtongue	OR Rank: G4?SNR ORNHIC List: 3	Meadows and stream bank in high sagebrush valleys and aspen woods.	Moderate	July – August
<i>Penstemon seorsus</i> shortlobe penstemon	OR Rank: G4?S3 ORNHIC List: 4	Dry rocky places in the plains and foothills, often with sagebrush, from 4920 to 5575 ft in elevation.	Low	May – July
<i>Phacelia inundata</i> playa yellow phacelia	OR Rank: G2S1 ORNHIC List: 1 USFWS: SOC	Alkaline soils of playas and dry lakebeds.	Low	May - July
<i>Polemonium viscosum</i> sticky polemonium	OR Rank: G5S4 ORNHIC List: 4	In Steens, extremely rare on east rim of Kiger gorge.	Low - Moderate	July – August
<i>Polystichum kruckebergii</i> Kruckeberg's hollyfern	OR Rank: G4S4 ORNHIC List: 4	In Steens, extremely rare in moist, shady rock crevices above 8850 ft.	Low	June – September?
<i>Populus angustifolia</i> narrowleaf cottonwood	OR Rank: G5S4 ORNHIC List: 4	Stream banks; foothills and high plains.	Moderate - High	May - September
<i>Potamogeton foliosus</i> var. <i>fibrillosus</i> leafy pondweed	OR Rank: G5T2T4SH ORNHIC List: 2-ex	Standing to slow moving, generally shallow water.	Low - Moderate	Late June – August
<i>Potamogeton pusillus</i> ssp. <i>Tenuissimus</i> small pondweed	OR Rank: G5T5SNR ORNHIC List: 3	Shallow pools and streams.	Low - Moderate	July – August
<i>Rorippa columbiae</i> Columbia yellowcress	OR Rank: G3S3 ORNHIC List: 1 ODA: C	Rare; known only from Malheur lake area.	Low	May – August

NAME	STATUS	TYPICAL HABITAT	LIKELIHOOD OF OCCURRENCE	IDENTIFICATION PERIOD
<i>Rotala ramosior</i> lowland rotala	OR Rank: G5S2 ORNHIC List: 2	Rare at pond edges in diamond craters.	Low	June - August
<i>Salix brachycarpa</i> var. <i>brachycarpa</i> shortfruit willow	OR Rank: G5S4 ORNHIC List: 4	Known to occur at high elevations in the Steens (~8500 ft), often in wet meadows.	Low	April - May
<i>Salix drummondiana</i> Drummond's willow	OR Rank: G4G5S4 ORNHIC List: 4	In Steens, occasional near streams, seeps and ponds between 5575 and 8200 ft.	Moderate	May - June
<i>Salix orestera</i> Sierra willow	OR Rank: G5SNR ORNHIC List: 3	Common by streams and seeps above 2200m.	High	July - August
<i>Saxifraga adscendens</i> ssp. <i>oregonensis</i> small saxifrage	OR Rank: G5T4T5S1 ORNHIC List: 2	In Steens, very rare in wet, north-facing cliffs at the heads of Little Blitzen, Kiger and Big Indian gorges.	Low	July - August
<i>Sedum debile</i> orpine stonecrop	OR Rank: G4G5S4 ORNHIC List: 4	In Steens, uncommon in rocky outcrops above 7200 ft	Moderate	Late June – Early August

USFWS Federal Ranking Key:

- LE = Listed Endangered. Taxa in danger of Extinction throughout all or a significant portion of their range.
- LT = Listed Threatened. Taxa likely to be classified as Endangered within the foreseeable future throughout all or a significant portion of their range.
- PE = Proposed Endangered. Taxa proposed to be listed as Endangered (formal rulemaking in progress).
- PT = Proposed Threatened. Taxa proposed to be listed as Threatened (formal rulemaking in progress).
- SC = Candidate Species. Taxa for which sufficient threats exist to warrant a proposal to list the species/subtaxon as threatened or endangered.
- SOC = Species of Concern.

ODA (Oregon Department of Agriculture) Ranking Key:

- LE = Listed Endangered.
- LT = Listed Threatened.
- C = Candidate for listing as Threatened or Endangered.

Appendix C Footnotes Continued:

OR Rank (Oregon Natural Heritage Program) Categories Key:

- G = Global rank indicator; denotes rank based on range wide status.
- T = Trinomial rank indicator; denotes range wide status of infraspecific taxa.
- S = State rank indicator; denotes rank based on status within Oregon.
- 1 = Critically imperiled because of extreme rarity or some factor of its biology makes it especially vulnerable to extinction (typically 5 or fewer occurrences).
- 2 = Imperiled because of rarity or because other factors demonstrably make it very vulnerable to extinction (typically 6 to 20 occurrences).
- 3 = Rare or uncommon but not imperiled (typically 21 to 100 occurrences).
- 4 = Not rare and apparently secure, but with cause for long-term concern (usually more than 100 occurrences).
- 5 = Demonstrably widespread, abundant, and secure.
- H = Historical occurrence (i.e., formerly part of the native biota with the implied expectation that it might be rediscovered).
- ? = Not yet ranked.

ORNHC (Oregon Natural Heritage Information Center) Special Status Plant Lists Key:

- 1 = Taxa which are Endangered or Threatened throughout their range or are presumed extinct.
- 2 = Taxa which are Threatened, Endangered, or possibly extirpated from Oregon, but are more stable elsewhere.
- 3 = Taxa for which more info is needed before status can be determined, but may be Threatened or Endangered in Oregon or throughout their range.
- 4 = Contains taxa of concern which are not currently Threatened or Endangered
- EX = Thought to be extirpated from Oregon

Appendix D. Comprehensive list of plant taxa documented during special status plant surveys of the West Ridge Wind Energy Project area June 5-16 and July 20-24, 2009.

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Achillea millefolium</i>	common yarrow	<i>Asteraceae</i>	N	
<i>Achnatherum nelsonii</i> ssp. <i>dorei</i>	Dore's needlegrass	<i>Poaceae</i>	N	
<i>Achnatherum occidentale</i> ssp. <i>californicum</i>	California needlegrass	<i>Poaceae</i>	N	
<i>Aconitum columbianum</i>	Columbian monkshood	<i>Ranunculaceae</i>	N	
<i>Agastache urticifolia</i> var. <i>urticifolia</i>	nettleleaf giant hyssop	<i>Lamiaceae</i>	N	
<i>Agoseris glauca</i>	pale agoseris	<i>Asteraceae</i>	N	
<i>Agoseris grandiflora</i>	large flowered agoseris	<i>Asteraceae</i>	N	
<i>Agoseris heterophylla</i>	annual agoseris	<i>Asteraceae</i>	N	
<i>Agrostis stolonifera</i>	creeping bentgrass	<i>Poaceae</i>	N	
<i>Allium acuminatum</i>	tapertip onion	<i>Liliaceae</i>	N	
<i>Allium tolmiei</i> var. <i>tolmiei</i>	Tolmie's onion	<i>Liliaceae</i>	N	
<i>Alnus incana</i> var. <i>tenuifolia</i>	thinleaf alder	<i>Betulaceae</i>	N	
<i>Alopecurus aequalis</i>	shortawn foxtail	<i>Poaceae</i>	N	
<i>Alopecurus pratensis</i>	meadow foxtail	<i>Poaceae</i>	I	
<i>Alyssum alyssoides</i>	pale madwort	<i>Brassicaceae</i>	I	
<i>Amelanchier utahensis</i>	Utah serviceberry	<i>Roseaceae</i>	N	
<i>Amsinckia menziesii</i> var. <i>intermedia</i>	common fiddleneck	<i>Boraginaceae</i>	N	
<i>Antennaria anaphaloides</i>	pearly pussytoes	<i>Asteraceae</i>	N	
<i>Antennaria corymbosa</i>	flat-top pussytoes	<i>Asteraceae</i>	N	
<i>Antennaria dimorpha</i>	low pussytoes	<i>Asteraceae</i>	N	
<i>Antennaria rosea</i>	rosy pussytoes	<i>Asteraceae</i>	N	
<i>Aquilegia formosa</i>	western columbine	<i>Ranunculaceae</i>	N	
<i>Arenaria congesta</i> var. <i>congesta</i>	ballhead sandwort	<i>Caryophyllaceae</i>	N	
<i>Arenaria kingii</i> ssp. <i>compacta</i>	King's compact sandwort	<i>Caryophyllaceae</i>	N	
<i>Arnica cordifolia</i>	heart leaved arnica	<i>Asteraceae</i>	N	
<i>Arnica sororia</i>	twin arnica	<i>Asteraceae</i>	N	
<i>Artemisia arbuscula</i> ssp. <i>arbuscula</i>	little sagebrush	<i>Asteraceae</i>	N	
<i>Artemisia ludoviciana</i> ssp. <i>candicans</i>	white sagebrush	<i>Asteraceae</i>	N	
<i>Artemisia tridentata</i> ssp. <i>vaseyana</i>	mountain big sagebrush	<i>Asteraceae</i>	N	
<i>Artemisia tridentata</i> ssp. <i>wyomingensis</i>	Wyoming big sagebrush	<i>Asteraceae</i>	N	
<i>Aster scopulorum</i>	crag aster	<i>Asteraceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Astragalus conjunctus</i>	Idaho milkvetch	<i>Fabaceae</i>	N	
<i>Astragalus curvicaulus</i>	sickle milkvetch	<i>Fabaceae</i>	N	
<i>Astragalus filipes</i>	basalt milkvetch	<i>Fabaceae</i>	N	
<i>Astragalus lentiginosus</i> var. <i>chartaceus</i>	broadleaf milkvetch	<i>Fabaceae</i>	N	
<i>Astragalus purshii</i> var. <i>tinctus</i>	woollypod milkvetch	<i>Fabaceae</i>	N	
<i>Balsamorhiza serrata</i>	serrate balsamroot	<i>Asteraceae</i>	N	
<i>Barbarea orthoceras</i>	wintercress	<i>Brassicaceae</i>	I	
<i>Blepharipappus scaber</i>	rough eyelashweed	<i>Asteraceae</i>	N	
<i>Brickellia grandiflora</i>	tasselflower brickellbush	<i>Asteraceae</i>	N	
<i>Bromus carinatus</i>	California brome	<i>Poaceae</i>	N	
<i>Bromus hordeaceus</i>	soft brome	<i>Poaceae</i>	I	
<i>Bromus secalinus</i>	ryebrome	<i>Poaceae</i>	I	
<i>Bromus tectorum</i>	cheatgrass	<i>Poaceae</i>	I	
<i>Calochortus macrocarpus</i>	sagebrush mariposa lily	<i>Liliaceae</i>	N	
<i>Camelina microcarpa</i>	littlepod false flax	<i>Brassicaceae</i>	I	
<i>Camissonia breviflora</i>	fewflower evening primrose	<i>Onagraceae</i>	N	
<i>Carex abrupta</i>	abruptbeak sedge	<i>Cyperaceae</i>	N	ORNHIC List 2
<i>Carex aquatilis</i>	water sedge	<i>Cyperaceae</i>	N	
<i>Carex athrostachya</i>	slenderbeak sedge	<i>Cyperaceae</i>	N	
<i>Carex filifolia</i>	threadleaf sedge	<i>Cyperaceae</i>	N	
<i>Carex illota</i>	sheep sedge	<i>Cyperaceae</i>	N	
<i>Carex lenticularis</i> var. <i>lipocarpa</i>	Kellogg's sedge	<i>Cyperaceae</i>	N	
<i>Carex microptera</i>	smallwing sedge	<i>Cyperaceae</i>	N	
<i>Carex nebrascensis</i>	Nebraska sedge	<i>Cyperaceae</i>	N	
<i>Carex petasata</i>	Liddon sedge	<i>Cyperaceae</i>	N	
<i>Carex raynoldsii</i>	Raynolds' sedge	<i>Cyperaceae</i>	N	
<i>Carex stipata</i> var. <i>stipata</i>	saw-beak sedge	<i>Cyperaceae</i>	N	
<i>Carex vesicaria</i> var. <i>vesicaria</i>	blister sedge	<i>Cyperaceae</i>	N	
<i>Castilleja peckiana</i>	Peck's Indian paintbrush	<i>Scrophulariaceae</i>	N	
<i>Castilleja pilosa</i> var. <i>steenensis</i>	Steens Mountain paintbrush	<i>Scrophulariaceae</i>	N	
<i>Castilleja viscidula</i>	sticky Indian paintbrush	<i>Scrophulariaceae</i>	N	ORNHIC List 3
<i>Ceanothus velutinus</i> var. <i>velutinus</i>	snowbrush ceanothus	<i>Rhamnaceae</i>	N	
<i>Cerastium beeringianum</i> ssp. <i>earlei</i>	Bering chickweed	<i>Caryophyllaceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Cerastium fontanum ssp. vulgare</i>	big chickweed	<i>Caryophyllaceae</i>	I	
<i>Ceratocephala testiculata</i>	burr buttercup	<i>Ranunculaceae</i>	I	
<i>Cercocarpus ledifolius var. intercedens</i>	curl-leaf mountain mahogany	<i>Rosaceae</i>	N	
<i>Chamerion angustifolium ssp. angustifolium</i>	fireweed	<i>Onagraceae</i>	N	
<i>Chenopodium album</i>	lambsquarters	<i>Chenopodiaceae</i>	I	
<i>Chorispora tenella</i>	crossflower	<i>Brassicaceae</i>	I	
<i>Chrysothamnus viscidiflorus</i>	yellow rabbitbrush	<i>Asteraceae</i>	N	
<i>Cicuta douglasii</i>	western water hemlock	<i>Apiaceae</i>	N	
<i>Cirsium arvense</i>	Canada thistle	<i>Asteraceae</i>	I	
<i>Cirsium peckii</i>	Steens Mountain thistle	<i>Asteraceae</i>	N	
<i>Cirsium vulgare</i>	bull thistle	<i>Asteraceae</i>	I	
<i>Clarkia pulchella</i>	ragged robin	<i>Onagraceae</i>	N	
<i>Claytonia perfoliata var. intermontana</i>	Chambers minerslettuce	<i>Portulacaceae</i>	N	
<i>Collinsia parviflora</i>	maiden blue eyed Mary	<i>Scrophulariaceae</i>	N	
<i>Collomia grandiflora</i>	grand collomia	<i>Polemoniaceae</i>	N	
<i>Collomia linearis</i>	narrow-leaved collomia	<i>Polemoniaceae</i>	N	
<i>Cornus sericea var. sericea</i>	red-osier dogwood	<i>Cornaceae</i>	N	
<i>Crepis atribarba</i>	slender hawksbeard	<i>Asteraceae</i>	N	
<i>Crepis intermedia</i>	limestone hawksbeard	<i>Asteraceae</i>	N	
<i>Crepis occidentalis</i>	largeflower hawksbeard	<i>Asteraceae</i>	N	
<i>Cryptantha intermedia var. grandiflora</i>	common cryptantha	<i>Boraginaceae</i>	N	
<i>Cryptantha torreyana</i>	Torrey's cryptantha	<i>Boraginaceae</i>	N	
<i>Cystopteris fragilis</i>	brittle fern	<i>Dryopteridaceae</i>	N	
<i>Delphinium andersonii</i>	Anderson's larkspur	<i>Ranunculaceae</i>	N	
<i>Deschampsia elongata</i>	slender hairgrass	<i>Poaceae</i>	N	
<i>Draba verna</i>	spring draba	<i>Brassicaceae</i>	I	
<i>Eleocharis macrostachya</i>	pale spikerush	<i>Cyperaceae</i>	N	
<i>Elymus elymoides</i>	squirreltail	<i>Poaceae</i>	N	
<i>Elymus glaucus</i>	blue wildrye	<i>Poaceae</i>	N	
<i>Elymus trachycaulus ssp. trachycaulus</i>	slender wheatgrass	<i>Poaceae</i>	N	
<i>Epilobium brachycarpum</i>	tall annual willowherb	<i>Onagraceae</i>	N	
<i>Epilobium ciliatum ssp. glandulosum</i>	fringed willowherb	<i>Onagraceae</i>	N	
<i>Epilobium lactiflorum</i>	milkflower willowherb	<i>Onagraceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Epilobium minutum</i>	chaparral willowherb	<i>Onagraceae</i>	N	
<i>Equisetum arvense</i>	field horsetail	<i>Equisetaceae</i>	N	
<i>Ericameria nauseosa</i>	rubber rabbitbrush	<i>Asteraceae</i>	N	
<i>Erigeron bloomeri</i> var. <i>bloomeri</i>	scabland fleabane	<i>Asteraceae</i>	N	
<i>Erigeron corymbosus</i>	longleaf fleabane	<i>Asteraceae</i>	N	
<i>Erigeron filifolius</i> var. <i>filifolius</i>	threadleaf fleabane	<i>Asteraceae</i>	N	
<i>Erigeron linearis</i>	desert yellow fleabane	<i>Asteraceae</i>	N	
<i>Erigeron philadelphicus</i>	Philadelphia fleabane	<i>Asteraceae</i>	N	
<i>Erigeron speciosus</i> var. <i>speciosus</i>	aspen fleabane	<i>Asteraceae</i>	N	
<i>Eriogonum heracleoides</i> var. <i>heracleoides</i>	parsnipflower buckwheat	<i>Polygonaceae</i>	N	
<i>Eriogonum strictum</i> var. <i>anserinum</i>	strict buckwheat	<i>Polygonaceae</i>	N	
<i>Erodium cicutarium</i>	redstem stork's bill	<i>Geraniaceae</i>	I	
<i>Festuca idahoensis</i>	Idaho fescue	<i>Poaceae</i>	N	
<i>Floerkea proserpinacoides</i>	false mermaidweed	<i>Limnanthaceae</i>	N	
<i>Frasera speciosa</i>	elkweed	<i>Gentianaceae</i>	N	
<i>Galium aparine</i>	stickywilly	<i>Rubiaceae</i>	N	
<i>Galium aparine</i> var. <i>echinospermum</i>	stickywilly	<i>Rubiaceae</i>	N	
<i>Galium bifolium</i>	twinleaf bedstraw	<i>Rubiaceae</i>	N	
<i>Galium boreale</i>	northern bedstraw	<i>Rubiaceae</i>	N	
<i>Gayophytum heterozygum</i>	zigzag groundsmoke	<i>Onagraceae</i>	N	
<i>Gayophytum racemosum</i>	blackfoot groundsmoke	<i>Onagraceae</i>	N	
<i>Geranium richardsonii</i>	Richardson's geranium	<i>Geraniaceae</i>	N	
<i>Geum aleppicum</i>	yellow avens	<i>Rosaceae</i>	N	
<i>Geum macrophyllum</i>	largeleaf avens	<i>Rosaceae</i>	N	
<i>Geum triflorum</i> var. <i>ciliatum</i>	old man's whiskers	<i>Rosaceae</i>	N	
<i>Glyceria striata</i>	fowl mannagrass	<i>Poaceae</i>	N	
<i>Hackelia micrantha</i>	Jessica sticktight	<i>Boraginaceae</i>	N	
<i>Hesperostipa comata</i>	needle-and-thread grass	<i>Poaceae</i>	N	
<i>Holodiscus dumosus</i> var. <i>glabrescens</i>	desert spray	<i>Rosaceae</i>	N	
<i>Holosteum umbellatum</i>	jagged chickweed	<i>Caryophyllaceae</i>	I	
<i>Hordeum brachyantherum</i>	meadow barley	<i>Poaceae</i>	N	
<i>Hordeum jubatum</i>	foxtail barley	<i>Poaceae</i>	N	
<i>Horkelia fusca</i> ssp. <i>capitata</i>	bighead horkelia	<i>Rosaceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Hydrophyllum capitatum</i>	ballhead waterleaf	<i>Hydrophyllaceae</i>	N	
<i>Hymenoxys hoopesii</i>	owl's-claws	<i>Asteraceae</i>	N	
<i>Iliamna rivularis</i>	streambank wild hollyhock	<i>Malvaceae</i>	N	
<i>Juncus arcticus</i> ssp. <i>littoralis</i>	mountain rush	<i>Juncaceae</i>	N	
<i>Juncus confusus</i>	Colorado rush	<i>Juncaceae</i>	N	
<i>Juncus ensifolius</i>	swordleaf rush	<i>Juncaceae</i>	N	
<i>Juniperus occidentalis</i>	western juniper	<i>Cupressaceae</i>	N	
<i>Kelloggia galioides</i>	milk kelloggia	<i>Rubiaceae</i>	N	
<i>Koeleria macrantha</i>	prairie Junegrass	<i>Poaceae</i>	N	
<i>Lactuca serriola</i>	prickly lettuce	<i>Asteraceae</i>	I	
<i>Lemna minor</i>	common duckweed	<i>Lemnaceae</i>	N	
<i>Lepidium perfoliatum</i>	clasping pepperweed	<i>Brassicaceae</i>	I	
<i>Leptosiphon harknessii</i>	Harkness' flaxflower	<i>Polemoniaceae</i>	N	
<i>Leptosiphon nuttallii</i> ssp. <i>nuttallii</i>	Nuttall's linanthus	<i>Polemoniaceae</i>	N	
<i>Leucopoa kingii</i>	spike fescue	<i>Poaceae</i>	N	
<i>Leymus cinereus</i>	basin wildrye	<i>Poaceae</i>	N	
<i>Leymus triticoides</i>	beardless wildrye	<i>Poaceae</i>	N	
<i>Linum perenne</i>	blue flax	<i>Linaceae</i>	N	
<i>Lithophragma parviflorum</i>	smallflower woodland-star	<i>Saxifragaceae</i>	N	
<i>Lomatium cous</i>	cous biscuitroot	<i>Apiaceae</i>	N	
<i>Lupinus brevicaulis</i>	shortstem lupine	<i>Fabaceae</i>	N	
<i>Lupinus caudatus</i> ssp. <i>caudatus</i>	tailcup lupine	<i>Fabaceae</i>	N	
<i>Lupinus leucophyllus</i>	velvet lupine	<i>Fabaceae</i>	N	
<i>Lupinus sericeus</i> ssp. <i>sericeus</i> var. <i>sericeus</i>	silky lupine	<i>Fabaceae</i>	N	
<i>Luzula comosa</i>	Pacific woodrush	<i>Juncaceae</i>	N	
<i>Mahonia repens</i>	creeping barberry	<i>Berberidaceae</i>	N	
<i>Marrubium vulgare</i>	horehound	<i>Lamiaceae</i>	I	
<i>Melica fugax</i>	little oniongrass	<i>Poaceae</i>	N	
<i>Mentha arvensis</i>	wild mint	<i>Lamiaceae</i>	N	
<i>Mentzelia dispersa</i>	small flowered mentzelia	<i>Loasaceae</i>	N	
<i>Mertensia oblongifolia</i>	oblongleaf bluebells	<i>Boraginaceae</i>	N	
<i>Microseris nutans</i>	nodding microceris	<i>Asteraceae</i>	N	
<i>Microsteris gracilis</i> var. <i>humilor</i>	slender phlox	<i>Polemoniaceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Mimulus guttatus</i>	seep monkeyflower	<i>Scrophulariaceae</i>	N	
<i>Mimulus lewisii</i>	purple monkeyflower	<i>Scrophulariaceae</i>	N	
<i>Mimulus tilingii</i>	subalpine monkeyflower	<i>Scrophulariaceae</i>	N	
<i>Moehringia lateriflora</i>	Bluntleaf sandwort	<i>Caryophyllaceae</i>	N	
<i>Montia chamissoi</i>	water minerslettuce	<i>Portulacaceae</i>	N	
<i>Montia fontana</i>	annual water minerslettuce	<i>Portulacaceae</i>	N	
<i>Montia linearis</i>	narrowleaf minerslettuce	<i>Portulacaceae</i>	N	
<i>Myosotis stricta</i>	strict forget-me-not	<i>Boraginaceae</i>	I	
<i>Navarretia breweri</i>	Brewer's navarretia	<i>Polemoniaceae</i>	N	
<i>Navarretia intertexta</i> ssp. <i>propinqua</i>	near navarretia	<i>Polemoniaceae</i>	N	
<i>Nemophila pedunculata</i>	littlefoot nemophila	<i>Hydrophyllaceae</i>	N	
<i>Nepeta cataria</i>	catnip	<i>Lamiaceae</i>	I	
<i>Orobanche fasciculata</i>	cluster broomrape	<i>Orobanchaceae</i>	N	
<i>Orthocarpus cuspidatus</i> ssp. <i>cryptantha</i>	cryptantha owl's-clover	<i>Scrophulariaceae</i>	N	
<i>Orthocarpus luteus</i>	yellow owl's-clover	<i>Scrophulariaceae</i>	N	
<i>Osmorhiza occidentalis</i>	western sweetroot	<i>Apiaceae</i>	N	
<i>Packera cana</i>	woolly groundsel	<i>Asteraceae</i>	N	
<i>Paeonia brownii</i>	Brown's peony	<i>Paeoniaceae</i>	N	
<i>Penstemon deustus</i> var. <i>pedicellatus</i>	hot rock penstemon	<i>Scrophulariaceae</i>	N	
<i>Penstemon rydbergii</i> var. <i>rydbergii</i>	Rydberg's penstemon	<i>Scrophulariaceae</i>	N	
<i>Perideridia bolanderi</i>	Bolander's yampah	<i>Apiaceae</i>	N	
<i>Perideridia gairdneri</i> ssp. <i>borealis</i>	common yampah	<i>Apiaceae</i>	N	
<i>Phacelia hastata</i> var. <i>hastata</i>	silverleaf phacelia	<i>Hydrophyllaceae</i>	N	
<i>Phacelia heterophylla</i> ssp. <i>heterophylla</i>	varileaf phacelia	<i>Hydrophyllaceae</i>	N	
<i>Phacelia linearis</i>	threadleaf phacelia	<i>Hydrophyllaceae</i>	N	
<i>Phalaris arundinaceae</i>	reed canarygrass	<i>Poaceae</i>	N	
<i>Phleum alpinum</i>	alpine timothy	<i>Poaceae</i>	N	
<i>Phlox hoodii</i> var. <i>canescens</i>	hood's phlox	<i>Polemoniaceae</i>	N	
<i>Plagiobothrys leptocladus</i>	finebranched popcornflower	<i>Boraginaceae</i>	N	
<i>Plagiobothrys scouleri</i> var. <i>hispidulus</i>	sleeping popcornflower	<i>Boraginaceae</i>	N	
<i>Plectritis macrocera</i>	Longhorn plectritis	<i>Valerianaceae</i>	N	
<i>Pleiacanthus spinosus</i>	thorn skeletonweed	<i>Asteraceae</i>	N	
<i>Poa bulbosa</i>	bulbous bluegrass	<i>Poaceae</i>	I	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Poa cusickii</i> var. <i>cusickii</i>	Cusick's bluegrass	<i>Poaceae</i>	N	
<i>Poa pratensis</i>	Kentucky bluegrass	<i>Poaceae</i>	I	
<i>Poa secunda</i>	Sandberg bluegrass	<i>Poaceae</i>	N	
<i>Polemonium micranthum</i>	annual polemonium	<i>Polemoniaceae</i>	N	
<i>Polygonum aviculare</i>	prostrate knotweed	<i>Polygonaceae</i>	I	
<i>Polygonum bistortoides</i>	American bistort	<i>Polygonaceae</i>	N	
<i>Polygonum douglasii</i> ssp. <i>douglasii</i>	Douglas' knotweed	<i>Polygonaceae</i>	N	
<i>Polygonum polygaloides</i> ssp. <i>kelloggii</i>	Kellogg's knotweed	<i>Polygonaceae</i>	N	
<i>Populus balsamifera</i> ssp. <i>trichocarpa</i>	black cottonwood	<i>Salicaceae</i>	N	
<i>Populus tremuloides</i>	quaking aspen	<i>Salicaceae</i>	N	
<i>Potamogeton gramineus</i>	variableleaf pondweed	<i>Potamogetonaceae</i>	N	
<i>Potentilla gracilis</i> var. <i>fastigiata</i>	slender cinquefoil	<i>Rosaceae</i>	N	
<i>Potentilla newberryi</i>	Newberry's cinquefoil	<i>Rosaceae</i>	N	
<i>Prunus emarginata</i>	bitter cherry	<i>Rosaceae</i>	N	
<i>Prunus virginiana</i> var. <i>melanocarpa</i>	black chokecherry	<i>Rosaceae</i>	N	
<i>Pseudoroegneria spicata</i>	bluebunch wheatgrass	<i>Poaceae</i>	N	
<i>Pyrrocoma carthamoides</i> var. <i>cusickii</i>	largeflower goldenweed	<i>Asteraceae</i>	N	
<i>Ranunculus flammula</i>	creeping buttercup	<i>Ranunculaceae</i>	N	
<i>Ranunculus uncinatus</i> var. <i>uncinatus</i>	woodland buttercup	<i>Ranunculaceae</i>	N	
<i>Rheum rhabarbarum</i>	garden rhubarb	<i>Polygonaceae</i>	I	
<i>Ribes cereum</i>	wax currant	<i>Grossulariaceae</i>	N	
<i>Rosa woodsii</i> var. <i>ultramontana</i>	Woods' rose	<i>Rosaceae</i>	N	
<i>Rumex crispus</i>	curly dock	<i>Polygonaceae</i>	I	
<i>Rumex salicifolius</i> var. <i>mexicanus</i>	Mexican dock	<i>Polygonaceae</i>	N	
<i>Salix lemmonii</i>	Lemmon's willow	<i>Salicaceae</i>	N	
<i>Salix lucida</i> ssp. <i>caudata</i>	greenleaf willow	<i>Salicaceae</i>	N	
<i>Salix lutea</i>	yellow willow	<i>Salicaceae</i>	N	
<i>Salvia dorrii</i>	purple sage	<i>Lamiaceae</i>	N	
<i>Sambucus nigra</i>	European black elderberry	<i>Caprifoliaceae</i>	N	
<i>Sedum lanceolatum</i>	spearleaf stonecrop	<i>Crassulaceae</i>	N	
<i>Senecio integerrimus</i> var. <i>exaltatus</i>	tall western groundsel	<i>Asteraceae</i>	N	
<i>Senecio serra</i> var. <i>serra</i>	tall ragwort	<i>Asteraceae</i>	N	
<i>Sidalcea oregana</i> ssp. <i>spicata</i>	Oregon checkerbloom	<i>Malvaceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Silene douglasii</i>	Douglas' catchfly	<i>Caryophyllaceae</i>	N	
<i>Silene menziesii</i>	Menzies' silene	<i>Caryophyllaceae</i>	N	
<i>Silene scaposa</i>	scapose silene	<i>Caryophyllaceae</i>	N	
<i>Sisymbrium altissimum</i>	tall tumbled mustard	<i>Brassicaceae</i>	I	
<i>Sisyrinchium idahoense</i>	blue-eyed grass	<i>Iridaceae</i>	N	
<i>Solidago canadensis</i> var. <i>salebrosa</i>	salebrosa goldenrod	<i>Asteraceae</i>	N	
<i>Symphoricarpos oreophilus</i>	mountain snowberry	<i>Caprifoliaceae</i>	N	
<i>Symphoricarpos rotundifolius</i> var. <i>rotundifolius</i>	roundleaf snowberry	<i>Caprifoliaceae</i>	N	
<i>Symphyotrichum foliaceum</i> var. <i>parryi</i>	Parry's aster	<i>Asteraceae</i>	N	
<i>Symphyotrichum spathulatum</i> var. <i>spathulatum</i>	western mountain aster	<i>Asteraceae</i>	N	
<i>Taraxacum officinale</i>	common dandelion	<i>Asteraceae</i>	I	
<i>Thalictrum fendleri</i>	Fendler's meadow-rue	<i>Ranunculaceae</i>	N	
<i>Thalictrum venulosum</i>	veiny meadow-rue	<i>Ranunculaceae</i>	N	
<i>Thelypodium milleflorum</i>	manyflower thelypod	<i>Brassicaceae</i>	N	
<i>Thermopsis montana</i> var. <i>montana</i>	mountain goldenbanner	<i>Fabaceae</i>	N	
<i>Thlaspi arvense</i>	field pennycress	<i>Brassicaceae</i>	I	
<i>Tragopogon dubius</i>	yellow salsify	<i>Asteraceae</i>	I	
<i>Trifolium repens</i>	white clover	<i>Fabaceae</i>	I	
<i>Trifolium wormskioldii</i>	cows clover	<i>Fabaceae</i>	N	
<i>Urtica dioica</i> ssp. <i>gracilis</i>	California nettle	<i>Urticaceae</i>	N	
<i>Verbascum thapsus</i>	common mullein	<i>Scrophulariaceae</i>	I	
<i>Veronica americana</i>	American speedwell	<i>Scrophulariaceae</i>	N	
<i>Veronica peregrina</i> ssp. <i>xalapensis</i>	hairy purslane speedwell	<i>Scrophulariaceae</i>	N	
<i>Vicia americana</i>	American vetch	<i>Fabaceae</i>	N	
<i>Viola adunca</i> var. <i>bellidifolia</i>	early blue violet	<i>Violaceae</i>	N	
<i>Viola purpurea</i> var. <i>venosa</i>	goosefoot violet	<i>Violaceae</i>	N	
<i>Woodsia oregana</i>	Oregon cliff fern	<i>Dryopteridaceae</i>	N	
<i>Zigadenus paniculatus</i>	foothill deathcamas	<i>Liliaceae</i>	N	
<i>Zigadenus venenosus</i>	meadow deathcamas	<i>Liliaceae</i>	N	

[†]N = Native, I = Introduced

[‡] Special status from Oregon Natural Heritage Information Center (ORNHC) 2007, 2009. Taxonomic status and nomenclature from USDA 2009

