

**Echanis Transmission Line (West Alternate)
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 at the proposed West Alternate Echanis Wind Energy Project Transmission Line.....	8
Appendix D.	Comprehensive list of plant taxa documented during special status plant surveys of the Echanis Transmission Line (west alternate) corridor, June 5-16 and July 20-24, 2009.	14

Figures

Figure 1.	West Alternate Echanis Transmission Line Special Status Plants.....	24
-----------	---	----

Echanis Transmission Line (West Alternate) 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) for a proposed transmission line (west alternate) for the Echanis Wind Energy Project (Project). The Project and transmission line are located 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 and Luginbuhl, 2010), raptor nest survey (Gerhardt and Gritski, 2010), special status wildlife species survey (Gerhardt and Gritski, 2009), 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 Alternate Echanis Wind Project transmission line was requested from the Oregon Natural Heritage Information Center (ORNHIC) in early May 2009. Results were received on May 8, 2009 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 at the Echanis Transmission Line (west alternate) 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 most likely to be encountered. The latest State and Federal listing status 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 400-ft wide corridors centered on the proposed transmission line (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

Oregon Natural Heritage Information Center reported three plant records within the search area. These included one each of Federal Species of Concern playa phacelia (*Phacelia inudata*), Rafinesque's pondweed (*Potamogeton diversifolius*), and toothcup (*Rotala ramosior*).

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 and assigned each with low, moderate, or high likelihood of presence at the Project site (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 300 vascular plant species (Appendix D). None of these were Federal or Oregon Department of Agriculture listed species. Two ORNHIC List 3 species were detected; List 3 species are species believed to be rare but for which insufficient data are available to determine status. There were two small populations (of 10 and 30 plants) of wheat sedge (*Carex atherodes*) and a smaller population (3 plants) of western whiteflower beardtongue (*Penstemon pratensis*) documented; both of these were in wetlands administered by the USFWS where the proposed transmission line crosses the Malheur National Wildlife Refuge near the line's western terminus (Figure 1).

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.

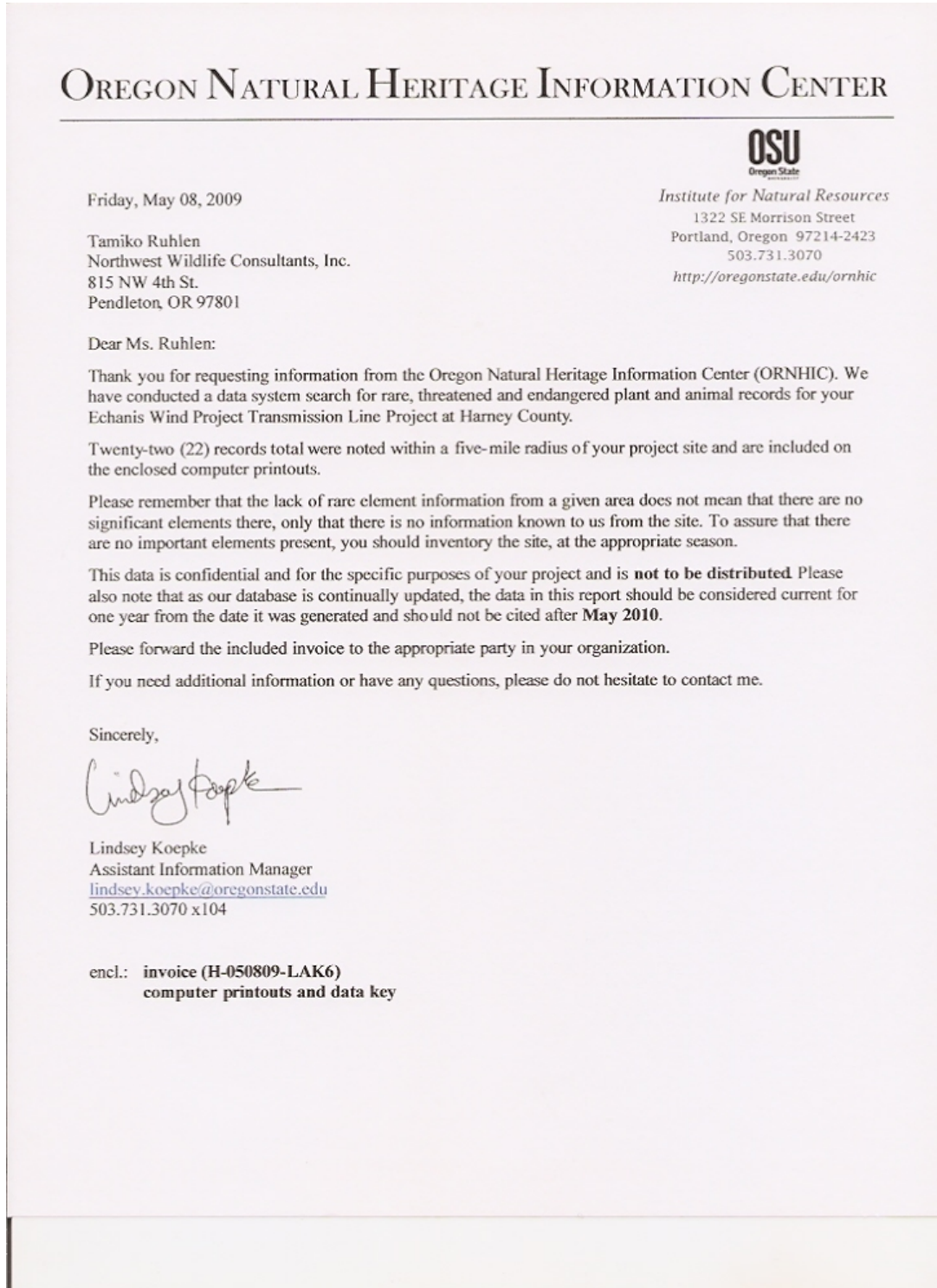
ESRI[®]. 2008. ArcMap[™] Vers. 9.2. Redlands, California.

Gerhardt, R., and B. Gritski. 2009. Echanis Transmission Line (West Alternate) 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. 2010. Echanis Transmission Line (West Alternate) 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., and J. Luginbuhl. 2010. Echanis Transmission Line (West Alternate) wildlife habitat mapping, 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.
- 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.



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 bittern
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 prociduum
Eriogonum umbellatum var. *glaberrimum*
Ivesia rhypara var. *shellyi*
Mimulus evanescens
Phacelia inundata
Polycytenium 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 at the proposed West Alternate Echanis Wind Energy Project Transmission Line.

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 Echanis Transmission Line (west alternate) corridor, 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 hymenoides</i>	Indian ricegrass	<i>Poaceae</i>	N	
<i>Achnatherum nelsonii ssp.dorei</i>	Dore's needlegrass	<i>Poaceae</i>	N	
<i>Achnatherum occidentale ssp.californicum</i>	California needlegrass	<i>Poaceae</i>	N	
<i>Achnatherum thurberianum</i>	Thurber's needlegrass	<i>Poaceae</i>	N	
<i>Agastache urticifolia var.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>Agropyron cristatum</i>	crested wheatgrass	<i>Poaceae</i>	I	
<i>Agrostis stolonifera</i>	creeping bentgrass	<i>Poaceae</i>	N	
<i>Alisma plantago-aquatica</i>	European water plantain	<i>Alismataceae</i>	I	
<i>Allium acuminatum</i>	tapertip onion	<i>Liliaceae</i>	N	
<i>Allium anceps</i>	twingleaf onion	<i>Liliaceae</i>	N	
<i>Alnus incana var.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>Alyssum desertorum</i>	desert madwort	<i>Brassicaceae</i>	I	
<i>Amsinckia menziesii var.intermedia</i>	common fiddleneck	<i>Boraginaceae</i>	N	
<i>Amsinckia menziesii var.menziesii</i>	Menzies' fiddleneck	<i>Boraginaceae</i>	N	
<i>Antennaria anaphaloides</i>	pearly 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 capillaris ssp.americana</i>	fescue sandwort	<i>Caryophyllaceae</i>	N	
<i>Arenaria congesta var.congesta</i>	ballhead sandwort	<i>Caryophyllaceae</i>	N	
<i>Arenaria kingii ssp.compacta</i>	King's compact sandwort	<i>Caryophyllaceae</i>	N	
<i>Arnica cordifolia</i>	heart leaved arnica	<i>Asteraceae</i>	N	
<i>Artemisia arbuscula ssp.arbuscula</i>	little sagebrush	<i>Asteraceae</i>	N	
<i>Artemisia ludoviciana ssp.candicans</i>	white sagebrush	<i>Asteraceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Artemisia tridentata ssp.vaseyana</i>	mountain big sagebrush	<i>Asteraceae</i>	N	
<i>Artemisia tridentata ssp.wyomingensis</i>	Wyoming big sagebrush	<i>Asteraceae</i>	N	
<i>Astragalus curvicaarpus</i>	sickle milkvetch	<i>Fabaceae</i>	N	
<i>Astragalus filipes</i>	basalt milkvetch	<i>Fabaceae</i>	N	
<i>Astragalus lentiginosus var.chartaceus</i>	broadleaf milkvetch	<i>Fabaceae</i>	N	
<i>Astragalus obscures</i>	arcane milkvetch	<i>Fabaceae</i>	N	
<i>Astragalus purshii var.tinctus</i>	woollypod milkvetch	<i>Fabaceae</i>	N	
<i>Atriplex confertifolia</i>	shadscale saltbush	<i>Chenopodiaceae</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>	tasseflower brickellbush	<i>Asteraceae</i>	N	
<i>Brickellia microphylla</i>	littleleaf brickellbush	<i>Asteraceae</i>	N	
<i>Bromus arvensis</i>	field brome	<i>Poaceae</i>	I	
<i>Bromus carinatus</i>	California brome	<i>Poaceae</i>	N	
<i>Bromus hordeaceus</i>	soft brome	<i>Poaceae</i>	I	
<i>Bromus inermis ssp.inermis</i>	smooth brome	<i>Poaceae</i>	I	
<i>Bromus secalinus</i>	Ryebrome	<i>Poaceae</i>	I	
<i>Bromus tectorum</i>	Cheatgrass	<i>Poaceae</i>	I	
<i>Callitriche palustris</i>	vernal water-starwort	<i>Callitrichaceae</i>	N	
<i>Calochortus macrocarpus</i>	sagebrush mariposa lily	<i>Liliaceae</i>	N	
<i>Camelina microcarpa</i>	littlepod false flax	<i>Brassicaceae</i>	I	
<i>Cardaria pubescens</i>	hairy whitetop	<i>Brassicaceae</i>	I	
<i>Carex aquatilis</i>	water sedge	<i>Cyperaceae</i>	N	
<i>Carex atherodes</i>	wheat sedge	<i>Cyperaceae</i>	N	ORNHIC List 3
<i>Carex athrostachya</i>	slenderbeak sedge	<i>Cyperaceae</i>	N	
<i>Carex douglasii</i>	Douglas' sedge	<i>Cyperaceae</i>	N	
<i>Carex illota</i>	sheep sedge	<i>Cyperaceae</i>	N	
<i>Carex lenticularis var.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 phaeocephala</i>	dunhead sedge	<i>Cyperaceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Carex praegracilis</i>	clustered field sedge	<i>Cyperaceae</i>	N	
<i>Carex simulate</i>	short beaked sedge	<i>Cyperaceae</i>	N	
<i>Carex stipata</i> var. <i>stipata</i>	saw-beak sedge	<i>Cyperaceae</i>	N	
<i>Carex utriculata</i>	Northwest Territory sedge	<i>Cyperaceae</i>	N	
<i>Carex vesicaria</i> var. <i>vesicaria</i>	blister sedge	<i>Cyperaceae</i>	N	
<i>Castilleja angustifolia</i> var. <i>dubia</i>	desert Indian paintbrush	<i>Scrophulariaceae</i>	N	
<i>Castilleja applegatei</i> ssp. <i>Pinetorum</i>	wavyleaf Indian paintbrush	<i>Scrophulariaceae</i>	N	
<i>Castilleja peckiana</i>	Peck's Indian paintbrush	<i>Scrophulariaceae</i>	N	
<i>Castilleja pilosa</i> var. <i>pilosa</i>	parrothead Indian paintbrush	<i>Scrophulariaceae</i>	N	
<i>Castilleja pilosa</i> var. <i>steenensis</i>	Steens Mountain paintbrush	<i>Scrophulariaceae</i>	N	
<i>Castilleja tenuis</i>	hairy Indian paintbrush	<i>Scrophulariaceae</i>	N	
<i>Ceanothus velutinus</i> var. <i>velutinus</i>	snowbrush ceanothus	<i>Rhamnaceae</i>	N	
<i>Cerastium fontanum</i> ssp. <i>vulgare</i>	big chickweed	<i>Caryophyllaceae</i>	I	
<i>Ceratocephala testiculata</i>	burr buttercup	<i>Ranunculaceae</i>	I	
<i>Cercocarpus ledifolius</i> var. <i>intercedens</i>	curl-leaf mountain mahogany	<i>Rosaceae</i>	N	
<i>Chaenactis</i> sp.	chaenactis	<i>Asteraceae</i>	N	
<i>Chamerion angustifolium</i> ssp. <i>angustifolium</i>	fireweed	<i>Onagraceae</i>	N	
<i>Chenopodium album</i>	lambsquarters	<i>Chenopodiaceae</i>	I	
<i>Chenopodium rubrum</i>	red goosefoot	<i>Chenopodiaceae</i>	N	
<i>Chorispora tenella</i>	crossflower	<i>Brassicaceae</i>	I	
<i>Chrysothamnus viscidiflorus</i>	yellow rabbitbrush	<i>Asteraceae</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</i> var. <i>intermontana</i>	Chambers minerslettuce	<i>Portulacaceae</i>	N	
<i>Clematis ligusticifolia</i>	western white clematis	<i>Ranunculaceae</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>Cornus sericea</i> var. <i>sericea</i>	red-osier dogwood	<i>Cornaceae</i>	N	
<i>Crepis acuminata</i>	tapertip hawksbeard	<i>Asteraceae</i>	N	
<i>Crepis aribarba</i>	slender hawksbeard	<i>Asteraceae</i>	N	
<i>Crepis intermedia</i>	limestone hawksbeard	<i>Asteraceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Crepis occidentalis</i>	largeflower hawkbeard	<i>Asteraceae</i>	N	
<i>Cryptantha circumscissa</i>	cushion cryptantha	<i>Boraginaceae</i>	N	
<i>Cryptantha intermedia</i> var. <i>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>Damasonium californicum</i>	California damasonium	<i>Alismataceae</i>	N	
<i>Deschampsia danthonioides</i>	annual hairgrass	<i>Poaceae</i>	N	
<i>Deschampsia elongate</i>	slender hairgrass	<i>Poaceae</i>	N	
<i>Descurainia pinnata</i> ssp. <i>filipes</i>	western tansymustard	<i>Brassicaceae</i>	N	
<i>Descurainia Sophia</i>	herb sophia	<i>Brassicaceae</i>	I	
<i>Distichlis spicata</i>	saltgrass	<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</i> ssp. <i>trachycaulus</i>	slender wheatgrass	<i>Poaceae</i>	N	
<i>Epilobium brachycarpum</i>	tall annual willowherb	<i>Onagraceae</i>	N	
<i>Epilobium ciliatum</i> ssp. <i>glandulosum</i>	fringed willowherb	<i>Onagraceae</i>	N	
<i>Epilobium lactiflorum</i>	milkflower willowherb	<i>Onagraceae</i>	N	
<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 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	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Galium aparine</i>	stickywilly	Rubiaceae	N	
<i>Galium aparine</i> var. <i>echinospermum</i>	stickywilly	Rubiaceae	N	
<i>Galium bifolium</i>	twinleaf bedstraw	Rubiaceae	N	
<i>Galium boreale</i>	northern bedstraw	Rubiaceae	N	
<i>Gayophytum heterozygum</i>	zigzag groundsmoke	Onagraceae	N	
<i>Gayophytum racemosum</i>	blackfoot groundsmoke	Onagraceae	N	
<i>Geranium richardsonii</i>	Richardson's geranium	Geraniaceae	N	
<i>Geranium viscosissimum</i>	sticky geranium	Geraniaceae	N	
<i>Geum macrophyllum</i>	largeleaf avens	Rosaceae	N	
<i>Geum triflorum</i> var. <i>ciliatum</i>	old man's whiskers	Rosaceae	N	
<i>Glyceria striata</i>	fowl mannagrass	Poaceae	N	
<i>Grayia spinosa</i>	spiny hopsage	Chenopodiaceae	N	
<i>Hackelia micrantha</i>	Jessica sticktight	Boraginaceae	N	
<i>Heracleum maximum</i>	common cowparsnip	Apiaceae	N	
<i>Holodiscus dumosus</i> var. <i>glabrescens</i>	desert spray	Rosaceae	N	
<i>Holosteum umbellatum</i>	jagged chickweed	Caryophyllaceae	I	
<i>Hordeum brachyantherum</i>	meadow barley	Poaceae	N	
<i>Hordeum jubatum</i>	foxtail barley	Poaceae	N	
<i>Horkelia fusca</i> ssp. <i>capitata</i>	bighead horkelia	Rosaceae	N	
<i>Hydrophyllum capitatum</i>	ballhead waterleaf	Hydrophyllaceae	N	
<i>Hymenoxys hoopesii</i>	owl's-claws	Asteraceae	N	
<i>Iliamna rivularis</i>	streambank wild hollyhock	Malvaceae	N	
<i>Iva axillaris</i>	povertyweed	Asteraceae	N	
<i>Juncus arcticus</i> ssp. <i>littoralis</i>	mountain rush	Juncaceae	N	
<i>Juncus bufonius</i>	toad rush	Juncaceae	N	
<i>Juncus confusus</i>	Colorado rush	Juncaceae	N	
<i>Juncus ensifolius</i>	swordleaf rush	Juncaceae	N	
<i>Juniperus occidentalis</i>	western juniper	Cupressaceae	N	
<i>Kelloggia galioides</i>	milk kelloggia	Rubiaceae	N	
<i>Kochia scoparia</i>	burningbush	Chenopodiaceae	I	
<i>Koeleria macrantha</i>	prairie Junegrass	Poaceae	N	
<i>Lactuca serriola</i>	prickly lettuce	Asteraceae	I	
<i>Layia glandulosa</i>	white Layia	Asteraceae	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Lemna minor</i>	common duckweed	<i>Lemnaceae</i>	N	
<i>Lepidium latifolium</i>	broadleaf pepperweed	<i>Brassicaceae</i>	I	
<i>Lepidium perfoliatum</i>	clasping pepperweed	<i>Brassicaceae</i>	I	
<i>Leptosiphon harknessii</i>	Harkness' flaxflower	<i>Polemoniaceae</i>	N	
<i>Leptosiphon nuttallii ssp. nuttallii</i>	Nuttall's linanthus	<i>Polemoniaceae</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>Lupinus brevicaulis</i>	shortstem lupine	<i>Fabaceae</i>	N	
<i>Lupinus caudatus ssp. caudatus</i>	tailcup lupine	<i>Fabaceae</i>	N	
<i>Lupinus leucophyllus</i>	velvet lupine	<i>Fabaceae</i>	N	
<i>Lupinus sericeus ssp. var. sericeus</i>	silky lupine	<i>Fabaceae</i>	N	
<i>Luzula comosa</i>	Pacific woodrush	<i>Juncaceae</i>	N	
<i>Machaeranthera canescens</i>	hoary tansyaster	<i>Asteraceae</i>	N	
<i>Mahonia repens</i>	creeping barberry	<i>Berberidaceae</i>	N	
<i>Malva neglecta</i>	common mallow	<i>Malvaceae</i>	I	
<i>Marrubium vulgare</i>	horehound	<i>Lamiaceae</i>	I	
<i>Mellilotus officinalis</i>	yellow sweetclover	<i>Fabaceae</i>	I	
<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 var. humilior</i>	slender phlox	<i>Polemoniaceae</i>	N	
<i>Mimulus guttatus</i>	seep monkeyflower	<i>Scrophulariaceae</i>	N	
<i>Mimulus lewisii</i>	purple monkeyflower	<i>Scrophulariaceae</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>Nemophila pedunculata</i>	littlefoot nemophila	<i>Hydrophyllaceae</i>	N	
<i>Nepeta cataria</i>	catnip	<i>Lamiaceae</i>	I	
<i>Nuphar lutea ssp. polysepala</i>	Rocky Mountain pond-lily	<i>Nymphaeaceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Orthocarpus cuspidatus ssp.cryptantha</i>	cryptantha owl's-clover	Scrophulariaceae	N	
<i>Orthocarpus luteus</i>	yellow owl's-clover	Scrophulariaceae	N	
<i>Osmorhiza occidentalis</i>	western sweetroot	Apiaceae	N	
<i>Packera cana</i>	woolly groundsel	Asteraceae	N	
<i>Paeonia brownie</i>	Brown's peony	Paeoniaceae	N	
<i>Penstemon deustus var.pedicellatus</i>	hot rock penstemon	Scrophulariaceae	N	
<i>Penstemon humilis</i>	low penstemon	Scrophulariaceae	N	
<i>Penstemon pratensis</i>	western whiteflower beardtongue	Scrophulariaceae	N	ORNHIC List 3
<i>Penstemon rydbergii var.rydbergii</i>	Rydberg's penstemon	Scrophulariaceae	N	
<i>Penstemon speciosus</i>	showy penstemon	Scrophulariaceae	N	
<i>Perideridia bolanderi</i>	Bolander's yampah	Apiaceae	N	
<i>Phacelia hastata var.hastata</i>	silverleaf phacelia	Hydrophyllaceae	N	
<i>Phacelia heterophylla ssp.heterophylla</i>	varileaf phacelia	Hydrophyllaceae	N	
<i>Phacelia linearis</i>	threadleaf phacelia	Hydrophyllaceae	N	
<i>Phalaris arundinaceae</i>	reed canarygrass	Poaceae	N	
<i>Phleum alpinum</i>	alpine timothy	Poaceae	N	
<i>Phleum pretense</i>	timothy	Poaceae	I	
<i>Phlox hoodii var.canescens</i>	hood's phlox	Polemoniaceae	N	
<i>Phoenicaulis cheiranthoides</i>	wallflower phoenicaulis	Brassicaceae	N	
<i>Plagiobothrys leptocladus</i>	finebranched popcornflower	Boraginaceae	N	
<i>Plagiobothrys scouleri var.hispidulus</i>	sleeping popcornflower	Boraginaceae	N	
<i>Plectritis macrocera</i>	Longhorn plectritis	Valerianaceae	N	
<i>Poa bulbosa</i>	bulbous bluegrass	Poaceae	I	
<i>Poa cusickii var.cusickii</i>	Cusick's bluegrass	Poaceae	N	
<i>Poa pratensis</i>	Kentucky bluegrass	Poaceae	I	
<i>Poa secunda</i>	Sandberg bluegrass	Poaceae	N	
<i>Polemonium micranthum</i>	annual polemonium	Polemoniaceae	N	
<i>Polygonum aviculare</i>	prostrate knotweed	Polygonaceae	I	
<i>Polygonum douglasii ssp.douglasii</i>	Douglas' knotweed	Polygonaceae	N	
<i>Polygonum polygaloides ssp.kelloggii</i>	Kellogg's knotweed	Polygonaceae	N	
<i>Populus balsamifera ssp.trichocarpa</i>	black cottonwood	Salicaceae	N	
<i>Populus nigra var.italic</i>	Lombardy poplar	Salicaceae	I	
<i>Populus tremuloides</i>	quaking aspen	Salicaceae	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Potamogeton nodosus</i>	longleaf pondweed	<i>Potamogetonaceae</i>	N	
<i>Potentilla arguta ssp.convalleria</i>	cream cinquefoil	<i>Rosaceae</i>	N	
<i>Potentilla gracilis var.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 var.melanocarpa</i>	black chokecherry	<i>Rosaceae</i>	N	
<i>Pseudoroegneria spicata</i>	bluebunch wheatgrass	<i>Poaceae</i>	N	
<i>Puccinellia lemmonii</i>	Lemmon's alkaligrass	<i>Poaceae</i>	N	
<i>Pyrrocoma lanceolata var.lanceolata</i>	lanceleaf goldenweed	<i>Asteraceae</i>	N	
<i>Ranunculus flammula</i>	creeping buttercup	<i>Ranunculaceae</i>	N	
<i>Ranunculus orthorhynchus var.orthorhynchus</i>	straightbeak buttercup	<i>Ranunculaceae</i>	N	
<i>Ranunculus trichophyllus var.trichophyllus</i>	threadleaf crowfoot	<i>Ranunculaceae</i>	N	
<i>Ranunculus uncinatus var.uncinatus</i>	woodland buttercup	<i>Ranunculaceae</i>	N	
<i>Rheum rhabarbarum</i>	garden rhubarb	<i>Polygonaceae</i>	I	
<i>Ribes aureum</i>	golden currant	<i>Grossulariaceae</i>	N	
<i>Ribes cereum</i>	wax currant	<i>Grossulariaceae</i>	N	
<i>Ribes hudsonianum var.petiolare</i>	stinking currant	<i>Grossulariaceae</i>	N	
<i>Rosa woodsii var.ultramontane</i>	Woods' rose	<i>Rosaceae</i>	N	
<i>Rumex crispus</i>	curly dock	<i>Polygonaceae</i>	I	
<i>Rumex salicifolius var.mexicanus</i>	Mexican dock	<i>Polygonaceae</i>	N	
<i>Sagittaria cuneata</i>	arumleaf arrowhead	<i>Alismataceae</i>	N	
<i>Salix exigua</i>	narrow leaved willow	<i>Salicaceae</i>	N	
<i>Salix lemmonii</i>	Lemmon's willow	<i>Salicaceae</i>	N	
<i>Salix lucida ssp.caudate</i>	greenleaf willow	<i>Salicaceae</i>	N	
<i>Salix lutea</i>	yellow willow	<i>Salicaceae</i>	N	
<i>Salix prolix</i>	Mackenzie's willow	<i>Salicaceae</i>	N	
<i>Salsola tragus</i>	prickly Russian thistle	<i>Chenopodiaceae</i>	I	
<i>Salvia dorrii</i>	purple sage	<i>Lamiaceae</i>	N	
<i>Sambucus nigra</i>	European black elderberry	<i>Caprifoliaceae</i>	N	
<i>Sarcobatus vermiculatus</i>	greasewood	<i>Chenopodiaceae</i>	N	
<i>Schoenoplectus acutus var.occidentalis</i>	tule	<i>Cyperaceae</i>	N	
<i>Scirpus microcarpus</i>	panicked bulrush	<i>Cyperaceae</i>	N	
<i>Scirpus nevadensis</i>	Nevada bulrush	<i>Cyperaceae</i>	N	

Scientific Name	Common Name	Family	Nativity [†]	Status [‡]
<i>Scutellaria antirrhinoides</i>	snapdragon skullcap	Lamiaceae	N	
<i>Scutellaria nana</i>	dwarf skullcap	Lamiaceae	N	
<i>Sedum lanceolatum</i>	spearleaf stonecrop	Crassulaceae	N	
<i>Senecio hydrophilus</i>	water ragwort	Asteraceae	N	
<i>Senecio integerrimus</i> var. <i>exaltatus</i>	tall western groundsel	Asteraceae	N	
<i>Senecio serra</i> var. <i>serra</i>	tall ragwort	Asteraceae	N	
<i>Sidalcea oregana</i> ssp. <i>spicata</i>	Oregon checkerbloom	Malvaceae	N	
<i>Silene noctiflora</i>	nightflowering silene	Caryophyllaceae	I	
<i>Sisymbrium altissimum</i>	tall tumbled mustard	Brassicaceae	I	
<i>Smilacina racemosa</i>	western soloman's seal	Liliaceae	N	
<i>Stellaria longipes</i> var. <i>longipes</i>	longstalk chickweed	Caryophyllaceae	N	
<i>Symphoricarpos oreophilus</i>	mountain snowberry	Caprifoliaceae	N	
<i>Symphoricarpos rotundifolius</i> var. <i>rotundifolius</i>	roundleaf snowberry	Caprifoliaceae	N	
<i>Symphotrichum foliaceum</i> var. <i>parryi</i>	Parry's aster	Asteraceae	N	
<i>Symphotrichum spathulatum</i> var. <i>spathulatum</i>	western mountain aster	Asteraceae	N	
<i>Taraxacum officinale</i>	common dandelion	Asteraceae	I	
<i>Tetradymia canescens</i>	spineless horsebrush	Asteraceae	N	
<i>Thelypodium milleflorum</i>	manyflower thelypody	Brassicaceae	N	
<i>Thermopsis montana</i> var. <i>montana</i>	mountain goldenbanner	Fabaceae	N	
<i>Thlaspi arvense</i>	field pennycress	Brassicaceae	I	
<i>Tragopogon dubius</i>	yellow salsify	Asteraceae	I	
<i>Trifolium hybridum</i>	alsike clover	Fabaceae	I	
<i>Trifolium pretense</i>	red clover	Fabaceae	I	
<i>Trifolium repens</i>	white clover	Fabaceae	I	
<i>Trifolium wormskioldii</i>	cows clover	Fabaceae	N	
<i>Typha latifolia</i>	broadleaf cat-tail	Typhaceae	N	
<i>Urtica dioica</i> ssp. <i>gracilis</i>	California nettle	Urticaceae	N	
<i>Veratrum californicum</i>	false hellebore	Liliaceae	N	
<i>Verbascum thapsus</i>	common mullein	Scrophulariaceae	I	
<i>Veronica americana</i>	American speedwell	Scrophulariaceae	N	
<i>Veronica anagallis-aquatica</i>	water speedwell	Scrophulariaceae	N	
<i>Veronica peregrina</i> ssp. <i>xalapensis</i>	hairy purslane speedwell	Scrophulariaceae	N	
<i>Vicia americana</i>	American vetch	Fabaceae	N	

Scientific Name	Common Name	Family	Nativity[†]	Status[‡]
<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 oregano</i>	Oregon cliff fern	<i>Dryopteridaceae</i>	N	
<i>Xanthium strumarium</i> var. <i>canadense</i>	Canada cocklebur	<i>Asteraceae</i>	N	
<i>Zigadenus paniculatus</i>	foothill deathcamus	<i>Liliaceae</i>	N	

[†]N = Native, I = Introduced

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

