

Attachment B – Conservation Measures for Special Status Species

Introduction

These Conservation Measures were displayed in Appendix 5 of the Final EIS. They are the product of the PEIS Biological Assessment and adopted by U.S. Fish and Wildlife Service and National Marine Fisheries Service Consultation, and apply to listed and proposed species as described in those consultation documents. These do not apply where a No Effect determination can be made without them, or where site-specific consultation identifies alternative ways to achieve appropriate protection. PEIS Mitigation Measures adopted by this Record of Decision also require implementation of certain of these conservation measures “When necessary to protect Special Status plant/fish and other aquatic organisms/wildlife species...” (see Attachment A).

Conservation Measures for Birds

Conservation Measures for the California Brown Pelican

Although treatment activities are unlikely to negatively affect the brown pelican or its habitat, extra steps could be taken by the BLM to ensure that herbicide treatments conducted in brown pelican wintering habitat did not result in negative effects to the species:

- If feasible, conduct vegetation treatments in brown pelican wintering habitat outside the period when pelicans are likely to be present.
- If herbicide treatments in brown pelican habitats must be conducted during the wintering period:
 - Do not use 2,4-D in pelican wintering habitat.
 - Prior to conducting herbicide treatments on pelican wintering habitat, survey the area for pelicans. Wait for pelicans to leave the area before spraying.
 - Do not broadcast spray clopyralid, glyphosate, hexazinone, picloram, or triclopyr in pelican wintering habitats.
 - If broadcast spraying imazapyr or metsulfuron methyl in pelican wintering habitats, use the typical rather than the maximum application rate.
 - If conducting manual spot applications of glyphosate, hexazinone, or triclopyr to vegetation in brown pelican wintering habitat, utilize the typical, rather than the maximum, application rate.

Conservation Measures for the Western Snowy Plover

The following conservation measures are the minimum steps required of the BLM to ensure that treatment methods would be unlikely to negatively affect TEP species. Survey for western snowy plovers (and their nests) in suitable areas on proposed treatment areas, prior to developing treatment plans.

- Do not treat vegetation in nesting areas during the breeding season (as determined by a qualified biologist).
- Do not allow human (or domestic animal) disturbance within ¼ mile of nest sites during the nesting period.
- Ensure that nest sites are at least 1 mile from downwind smoke effects during the nesting period.
- Conduct beachgrass treatments during the plant’s flowering stage, during periods of active growth.
- Closely follow all application instructions and use restrictions on herbicide labels; in wetland habitats use only those herbicides that are approved for use in wetlands.
- Do not use 2,4-D in western snowy plover habitats; do not broadcast spray 2,4-D within ¼ mile of western snowy plover habitat.

- Where feasible, avoid use of the following herbicides in western snowy plover habitat: clopyralid, diuron, glyphosate, hexazinone, imazapyr, metsulfuron methyl, picloram, and triclopyr.
- Do not broadcast spray clopyralid, diuron, glyphosate, hexazinone, picloram, or triclopyr in western snowy plover habitat; do not broadcast spray these herbicides in areas adjacent to western snowy plover habitat under conditions when spray drift onto the habitat is likely.
- If broadcast spraying imazapyr or metsulfuron methyl in or adjacent to western snowy plover habitat, apply at the typical, rather than the maximum, application rate.
- If conducting manual spot applications of glyphosate, hexazinone, or triclopyr to vegetation in western snowy plover habitat, utilize the typical, rather than the maximum, application rate.

Additional, project-specific conservation measures would be developed at the local level, as appropriate.

Conservation Measures for the Northern Spotted Owl and Marbled Murrelet

The following programmatic-level conservation measures are the minimum steps required of the BLM to ensure that treatment methods would be unlikely to negatively affect the marbled murrelet or northern spotted owl.

- Survey for marbled murrelets and northern spotted owls (and their nests) on suitable proposed treatment areas, prior to developing treatment plans.
- Delineate a 100-acre buffer around nests prior to mechanical treatments or prescribed burns.
- Do not allow human disturbance within ¼ mile of nest sites during the nesting period (as determined by a local biologist).
- Ensure that nest sites are at least 1 mile from downwind smoke effects during the nesting period.
- Protect and retain the structural components of known or suspected nest sites during treatments; evaluate each nest site prior to treatment and protect it in the most appropriate manner.
- Maintain sufficient dead and down material during treatments to support spotted owl prey species (minimums would depend on forest types, and should be determined by a wildlife biologist).
- Do not conduct treatments that alter forest structure in old-growth stands.
- Do not use 2,4-D in marbled murrelet or northern spotted owl habitats; do not broadcast spray 2,4-D within ¼ mile of marbled murrelet or northern spotted owl habitat.
- Where feasible, avoid use of the following herbicides in northern spotted owl habitat: bromacil, clopyralid, diuron, glyphosate, hexazinone, imazapyr, metsulfuron methyl, picloram, and triclopyr.
- Where feasible, avoid use of the following herbicides in marbled murrelet habitat: clopyralid, glyphosate, hexazinone, imazapyr, metsulfuron methyl, picloram, and triclopyr.
- Do not broadcast spray clopyralid, glyphosate, hexazinone, picloram, or triclopyr in marbled murrelet or northern spotted owl habitat; do not broadcast spray these herbicides in areas adjacent to marbled murrelet or northern spotted owl habitat under conditions when spray drift onto the habitat is likely.
- Do not broadcast spray diuron in northern spotted owl habitat; do not broadcast spray these herbicides in areas adjacent to northern spotted owl habitat under conditions when spray drift onto the habitat is likely.
- If broadcast spraying imazapyr or metsulfuron methyl in or adjacent to marbled murrelet or northern spotted owl habitat, apply at the typical, rather than the maximum, application rate.
- If broadcast spraying bromacil in or adjacent to northern spotted owl habitat, apply at the typical, rather than the maximum, application rate.
- If conducting manual spot applications of glyphosate, hexazinone, or triclopyr to vegetation in marbled murrelet or northern spotted owl habitat, utilize the typical, rather than the maximum, application rate.
- Follow all instructions and Standard Operating Procedures to avoid spill and direct spray scenarios into aquatic habitats, particularly marine habitats where murrelets forage for prey.

Additional conservation measures would be developed, as necessary, at the project level to fine-tune protection of these species.

Conservation Measures for Aquatic Animals

Many local BLM offices already have management plans in place that ensure the protection of these species, and have completed formal or informal consultations on similar treatment activities. These consultations have identified protection zones alongside aquatic habitats that support these species. The conservation measures discussed below are probable steps required of the BLM to ensure that vegetation treatments would minimize impacts to TEP species. These conservation measures are intended as broad guidance at the programmatic level; further analysis of treatment programs and species habitats at the local level is required to better reduce potential impacts from proposed vegetation treatments. Completion of consultation at the local level will fine-tune conservation measures associated with treatment activities and ensure consistency of the treatments with ESA requirements.

The aquatic TEP species considered in the programmatic BA for the PEIS (and applicable to the Oregon Record of Decision) occur in varied habitats, over a large geographic area. The conservation measures guidance presented below is intended to apply broadly to aquatic species and habitats over the entire region covered by this BA, based on the common features found in nearly all aquatic and riparian habitats. Some species with alternate or unusual habitat requirements may require additional conservation measures to ensure a Not Likely to Adversely Affect determination at the local level. Such additional conservation measures are outside the scope of this BA, and will be completed at the local level.

Some local BLM plans have delineated protected riparian areas, or portions of watersheds where riparian-dependent resources receive primary emphasis, and management activities are subject to specific standards and guidelines (USDA Forest Service 1995). These protected riparian areas include traditional riparian corridors, wetlands, intermittent streams, and other areas that help maintain the integrity of aquatic ecosystems by 1) influencing the delivery of coarse sediment, organic matter, and woody debris to streams; 2) providing root strength for channel stability; 3) shading the stream; and 4) protecting water quality. Examples of protected riparian areas are the BLM's Riparian Reserves of the Pacific Northwest and the Interior Columbia Basin, as described in the Aquatic Conservation Strategy (USDA Forest Service and USDI BLM 1994). The term "riparian areas," as used in the conservation measures guidance below, refers to riparian protected areas, wherever such designations apply. However, since not all local BLM plans have made such designations, "riparian areas," when the above-mentioned use is not applicable, generally refers to: 1) for streams, the stream channel and the extent of the 100-year floodplain; and 2) for wetlands, ponds, and lakes, and other aquatic habitats, the area extending to the edges of the riparian vegetation, provided it is no less than the minimum buffer distance for a given site established by local BLM biologists.

Conservation Measures for Site Access and Fueling/Equipment Maintenance

For treatments occurring in watersheds with TEP species or designated or undesignated critical habitat (i.e., unoccupied habitat critical to species recovery):

- Where feasible, access work site only on existing roads, and limit all travel on roads when damage to the road surface will result or is occurring.
- Where TEP aquatic species occur, consider ground-disturbing activities on a case by case basis, and implement Standard Operating Procedures to ensure minimal erosion or impact to the aquatic habitat.
- Within riparian areas, do not use vehicle equipment off of established roads.
- Outside of riparian areas, allow driving off of established roads only on slopes of 20% or less.

- Except in emergencies, land helicopters outside of riparian areas.
- Within 150 feet of wetlands or riparian areas, do not fuel/refuel equipment, store fuel, or perform equipment maintenance (locate all fueling and fuel storage areas, as well as service landings outside of protected riparian areas).
- Prior to helicopter fueling operations prepare a transportation, storage, and emergency spill plan and obtain the appropriate approvals; for other heavy equipment fueling operations use a slip-tank not greater than 250 gallons; Prepare spill containment and cleanup provisions for maintenance operations.

Conservation Measures Related to Revegetation Treatments

- Outside riparian areas, avoid hydro-mulching within buffer zones established at the local level. This precaution will limit adding sediments and nutrients and increasing water turbidity.
- Within riparian areas, engage in consultation at the local level to ensure that revegetation activities incorporate knowledge of site-specific conditions and project design.

Conservation Measures Related to Herbicide Treatments

The complexity of this action within riparian areas requires local consultation, which will be based on herbicide risk assessments.

Possible Conservation Measures:

- Maintain equipment used for transportation, storage, or application of chemicals in a leak proof condition.
- Do not store or mix herbicides, or conduct post-application cleaning within riparian areas.
- Ensure that trained personnel monitor weather conditions at spray times during application.
- Strictly enforce all herbicide labels.
- Do not broadcast spray within 100 feet of open water when wind velocity exceeds 5 mph.
- Do not broadcast spray when wind velocity exceeds 10 mph.
- Do not spray if precipitation is occurring or is imminent (within 24 hours).
- Do not spray if air turbulence is sufficient to affect the normal spray pattern.
- Do not broadcast spray herbicides in riparian areas that provide habitat for TEP aquatic species. Appropriate buffer distances should be determined at the local level to ensure that overhanging vegetation that provides habitat for TEP species is not removed from the site. Buffer distances provided as conservation measures in the assessment of effects to plants (Chapter 4 of this BA) and fish and aquatic invertebrates should be consulted as guidance (Table A2-3). (Note: the Forest Service did not determine appropriate buffer distances for TEP fish and aquatic invertebrates when evaluating herbicides in Forest Service Environmental Risk Assessments; buffer distances were only determined for non-TEP species.)
- Do not use fluridone, terrestrial formulations of glyphosate, or triclopyr BEE, to treat aquatic vegetation in habitats where aquatic TEP species occur or may potentially occur.
- Avoid using glyphosate formulations that include R-11¹ in the future, and either avoid using any formulations with POEA, or seek to use the formulation with the lowest amount of POEA available, to reduce risks to aquatic organisms.
- Follow all instructions and Standard Operating Procedures to avoid spill and direct spray scenarios into aquatic habitats. Special care should be followed when transporting and applying 2,4-D, bromacil, clopyralid, diuron, glyphosate, hexazinone, imazapyr, metsulfuron methyl, picloram, tebuthiuron, and triclopyr.
- Do not broadcast spray diuron, glyphosate, picloram, or triclopyr BEE in upland habitats adjacent to

¹ The BLM does not use R-11.

aquatic habitats that support (or may potentially support) aquatic TEP species under conditions that would likely result in off-site drift.

- In watersheds that support TEP species or their habitat, do not apply bromacil, diuron, tebuthiuron, or triclopyr BEE in upland habitats within ½ mile upslope of aquatic habitats that support aquatic TEP species under conditions that would likely result in surface runoff.

Numerous conservation measures were developed from information provided in ERAs. The measures listed below would apply to TEP fish and other aquatic species at the programmatic level in all 17 western states. However, local BLM field offices could use interactive spreadsheets and other information contained in the ERAs to develop more site-specific conservation measures and management plans based on local conditions (soil type, rainfall, vegetation type, and herbicide treatment method). It is possible that conservation measures would be less restrictive than those listed below if local site conditions were evaluated using the ERAs when developing project-level conservation measures.

Local BLM offices should design conservation measures for treatment plans using the above conservation measures as guidance, but altering it as needed based on local conditions and the habitat needs of the particular TEP aquatic species that could be affected by the treatments. Locally-focused conservation measures would be necessary to reduce or avoid potential impacts such that a Not Likely to Adversely Affect determination would be reached during the local-level consultation process.

Conservation Measures for Butterflies and Moths

Many local BLM offices already have management plans in place that ensure the protection of these species during activities on public lands. The following conservation measures are the minimum steps required of the BLM to ensure that treatment methods would be unlikely to negatively affect TEP species.

Each local BLM office is required to draw up management plans related to treatment activities that identify any TEP butterfly or moth species or their critical habitat that are present in the proposed treatment areas, as well as the measures that will be taken to protect these species.

Management plans should, at a minimum, follow this general guidance:

- Use an integrated pest management approach when designing programs for managing pest outbreaks.
- Survey treatment areas for TEP butterflies/moths and their host/nectar plants (suitable habitat) at the appropriate times of year.
- Minimize the disturbance area with a pre-treatment survey to determine the best access routes. Areas with butterfly/moth host plants and/or nectar plants should be avoided.
- Minimize mechanical treatments and OHV activities on sites that support host and/or nectar plants.
- Carry out vegetation removal in small areas, creating openings of 5 acres or less in size.
- Avoid burning all of a species' habitat in any 1 year. Limit area burned in butterfly/moth habitat in such a manner that the unburned units are of sufficient size to provide a refuge for the population until the burned unit is suitable for recolonization. Burn only a small portion of the habitat at any one time, and stagger timing so that there is a minimum 2-year recovery period before an adjacent parcel is burned.
- Where feasible, mow or wet around patches of larval host plants within the burn unit to reduce impacts to larvae.
- In TEP butterfly/moth habitat, burn while butterflies and/or moths of concern are in the larval stage, when the organisms would receive some thermal protection.
- Wash equipment before it is brought into the treatment area.
- Use a seed mix that contains host and/or nectar plant seeds for road/site reclamation.

- To protect host and nectar plants from herbicide treatments, follow recommended buffer zones and other conservation measures for TEP plants species when conducting herbicide treatments in areas where populations of host and nectar plants occur.
- Do not broadcast spray herbicides in habitats occupied by TEP butterflies or moths; do not broadcast spray herbicides in areas adjacent to TEP butterfly/moth habitat under conditions when spray drift onto the habitat is likely.
- Do not use 2,4-D in TEP butterfly/moth habitat.
- When conducting herbicide treatments in or near habitat used by TEP butterflies or moths, avoid use of the following herbicides, where feasible: bromacil, clopyralid, diuron, glyphosate, hexazinone, imazapyr, picloram, tebuthiuron, and triclopyr.
- If conducting manual spot applications of diuron, glyphosate, hexazinone, tebuthiuron, or triclopyr to vegetation in TEP butterfly or moth habitat, utilize the typical, rather than the maximum, application rate.

Conservation Measures for Mammals

Conservation Measures for the Gray Wolf

Although the proposed vegetation treatments would not be likely to have negative effects on wolves or their habitat, the following programmatic-level conservation measures are recommended to ensure protection of the species. Additional or more specific guidance would also be provided at the project level, as appropriate.

- Avoid human disturbance and/or associated activities within 1 mile of a den site during the breeding period (as determined by a qualified biologist).
- Avoid human disturbance and/or associated activities within 1 mile of a rendezvous site during the breeding period (as determined by a qualified biologist).
- Do not use 2,4-D in areas where gray wolves are known to occur; do not broadcast spray within ¼ mile of areas where gray wolves are known to occur.
- Where feasible, avoid use of the following herbicides in gray wolf habitat: bromacil, clopyralid, diuron, glyphosate, hexazinone, imazapyr, metsulfuron methyl, picloram, and triclopyr.
- Do not broadcast spray clopyralid, diuron, glyphosate, hexazinone, picloram, or triclopyr in gray wolf habitat; do not broadcast spray these herbicides in areas adjacent to gray wolf habitat under conditions when spray drift onto the habitat is likely.
- If broadcast spraying bromacil, imazapyr, or metsulfuron methyl in or near gray wolf habitat, apply at the typical, rather than the maximum, application rate.
- If conducting manual spot applications of glyphosate, hexazinone, or triclopyr to vegetation in gray wolf habitat, utilize the typical, rather than the maximum, application rate.

Conservation Measures for the Columbian white-tailed deer (listed populations suspected on Salem District only)

The projected short-term negative effects of vegetation treatments on the Columbian white-tailed deer could be avoided by implementing the following programmatic-level conservation measures.

- Prior to treatments, survey for evidence of white-tailed deer use of areas in which treatments are proposed to occur.
- Address the protection of Columbian white-tailed deer in local management plans developed in association with treatment programs.
- In areas that are likely to support Columbian white-tailed deer, protect riparian areas from degradation by avoiding them altogether, or utilizing Standard Operating Procedures. Consult Chapter 5 for appropriate conservation measures to be used in protected riparian areas.
- In habitats used by deer, conduct treatments that use domestic animals during the plant growing season,

and remove the animals after clearing has been achieved.

- Do not use domestic animals to control weeds in woodland habitats utilized by Columbian white-tailed deer.
- In areas where Columbian white-tailed deer occur, or may possibly occur, avoid the use of fences to keep domestic animals out of sensitive habitats or to otherwise restrict their movement (fence accidents are associated with deer mortality).
- Avoid burning in deer habitats during the fawning season.
- Closely follow all application instructions and use restrictions on herbicide labels; in riparian habitats use only those herbicides that are approved for use in riparian areas.
- Avoid broadcast spray treatments in areas where Columbian white-tailed deer are known to forage.
- Do not use 2,4-D in Columbian white-tailed deer habitats; do not broadcast spray 2,4-D within ¼ mile of Columbian white-tailed deer habitat.
- Where feasible, avoid use of the following herbicides in Columbian white-tailed deer habitat: bromacil, clopyralid, diuron, glyphosate, hexazinone, imazapyr, metsulfuron methyl, Overdrive®, picloram, tebuthiuron, and triclopyr.
- Do not broadcast spray bromacil, clopyralid, diuron, glyphosate, hexazinone, Overdrive®, picloram, or triclopyr in Columbian white-tailed deer habitat; do not broadcast spray these herbicides in areas adjacent to Columbian white-tailed deer habitat under conditions when spray drift onto the habitat is likely.
- If broadcast spraying imazapyr, metsulfuron methyl, or tebuthiuron in or near Columbian white-tailed deer habitat, apply at the typical, rather than the maximum, application rate.
- If conducting manual spot applications of glyphosate, hexazinone, imazapyr, metsulfuron methyl, tebuthiuron, or triclopyr to vegetation in Columbian white-tailed deer habitat, utilize the typical, rather than the maximum, application rate.

In addition, site-specific and project specific conservation measures would need to be developed by local BLM offices to ensure complete protection of the Columbian white-tailed deer.

Conservation Measures for Plants

As dictated in BLM Manual 6840 (Special Status Species Management), local BLM offices are required to develop and implement management plans and programs that will conserve listed species and their habitats. In addition, NEPA documentation related to treatment activities (i.e., projects) will be prepared that identify any TEP plant species or their critical habitat that are present in the proposed treatment areas, and that list the measures that will be taken to protect them.

Many local BLM offices already have management plans in place that ensure the protection of these plant species during activities on public land. However, a discussion of these existing plans is outside the scope of the programmatic BA for the PEIS. The following general guidance applies to all management plans developed at the local level.

Required steps include the following:

- A survey of all proposed action areas within potential habitat by a botanically qualified biologist, botanist, or ecologist to determine the presence/absence of the species.
- Establishment of site-specific no activity buffers by a qualified botanist, biologist, or ecologist in areas of occupied habitat within the proposed project area. To protect occupied habitat, treatment activities would not occur within these buffers.
- Collection of baseline information on the existing condition of TEP plant species and their habitats in the proposed project area.

- Establishment of pre-treatment monitoring programs to track the size and vigor of TEP populations and the state of their habitats. These monitoring programs would help in anticipating the future effects of vegetation treatments on TEP plant species.
- Assessment of the need for site revegetation post treatment to minimize the opportunity for noxious weed invasion and establishment.

At a minimum, the following must be included in all management plans:

- Given the high risk for damage to TEP plants and their habitat from burning, mechanical treatments, and use of domestic animals to contain weeds, none of these treatment methods should be utilized within 330 feet of sensitive plant populations UNLESS the treatments are specifically designed to maintain or improve the existing population.
- Off-highway use of motorized vehicles associated with treatments should be avoided in suitable or occupied habitat.
- Biological control agents (except for domestic animals) that affect target plants in the same genus as TEP species must not be used to control target species occurring within the dispersal distance of the agent.
- Prior to use of biological control agents that affect target plants in the same family as TEP species, the specificity of the agent with respect to factors such as physiology and morphology should be evaluated, and a determination as to risks to the TEP species made.
- Post-treatment monitoring should be conducted to determine the effectiveness of the project.

In addition, the following guidance must be considered in all management plans in which herbicide treatments are proposed to minimize or avoid risks to TEP species. The exact conservation measures to be included in management plans would depend on the herbicide that would be used, the desired mode of application, and the conditions of the site. Given the potential for off-site drift and surface runoff, populations of TEP species on lands not administered by the BLM would need to be considered if they are located near proposed herbicide treatment sites.

- Herbicide treatments should not be conducted in areas where TEP plant species may be subject to direct spray by herbicides during treatments.
- Applicators should review, understand, and conform to the “Environmental Hazards” section on herbicide labels (this section warns of known pesticide risks and provides practical ways to avoid harm to organisms or the environment).
- To avoid negative effects to TEP plant species from off-site drift, surface runoff, and/or wind erosion, suitable buffer zones should be established between treatment sites and populations (confirmed or suspected) of TEP plant species, and site-specific precautions should be taken (refer to the guidance provided below).
- Follow all instructions and Standard Operating Procedures to avoid spill and direct spray scenarios into aquatic habitats that support TEP plant species.
- Follow all BLM operating procedures for avoiding herbicide treatments during climatic conditions that would increase the likelihood of spray drift or surface runoff.

The following conservation measures refer to sites where broadcast spraying of herbicides, either by ground or aerial methods, is desired. Manual spot treatment of undesirable vegetation can occur within the listed buffer zones if it is determined by local biologists that this method of herbicide application would not pose risks to TEP plant species in the vicinity. Additional precautions during spot treatments of vegetation within habitats where TEP plant species occur should be considered while planning local treatment programs, and should be included as conservation measures in local-level NEPA documentation.

The buffer distances provided below are conservative estimates, based on the information provided by ERAs, and are designed to provide protection to TEP plants. Some ERAs used regression analysis to predict the smallest buffer distance to ensure no risks to TEP plants. In most cases, where regression analyses were not performed, suggested buffers extend out to the first modeled distance from the application site for which no risks were predicted. In some instances the jump between modeled distances was quite large (e.g., 100 feet to 900 feet). Regression analyses could be completed at the local level using the interactive spreadsheets developed for the ERAs, using information in ERAs and for local site conditions (e.g., soil type, annual precipitation, vegetation type, and treatment method), to calculate more precise, and possibly smaller buffers for some herbicides.

2,4-D

- Because the risks associated with this herbicide were not assessed, do not spray within ½ mile of terrestrial plant species or aquatic habitats where TEP aquatic plant species occur.
- Do not use aquatic formulations in aquatic habitats where TEP aquatic plant species occur.
- Assess local site conditions when evaluating the risks from surface water runoff to TEP plants located within ½ mile downgradient from the treatment area.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Bromacil

- Do not apply within 1,200 feet of terrestrial TEP plant species.
- If using a low boom at the typical application rate, do not apply within 100 feet of an aquatic habitat in which TEP plant species occur.
- If using a low boom at the maximum application rate or a high boom, do not apply within 900 feet of an aquatic habitat in which TEP plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Chlorsulfuron

- Do not apply by ground methods within 1,200 feet of terrestrial TEP species.
- Do not apply by aerial methods within 1,500 feet of terrestrial TEP species.
- Do not apply by ground methods within 25 feet of aquatic habitats where TEP plant species occur.
- Do not apply by aerial methods at the maximum application rate within 300 feet of aquatic habitats where TEP plant species occur.
- Do not apply by aerial methods at the typical application rate within 100 feet of aquatic habitats where TEP plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Clopyralid

- Since the risks associated with using a high boom are unknown, use only a low boom during ground applications of this herbicide within ½ mile of terrestrial TEP plant species or aquatic habitats in which TEP plant species occur.
- Do not apply by ground methods at the typical application rate within 900 of terrestrial TEP species.
- Do not apply by ground methods at the typical application rate within ½ mile of terrestrial TEP species.
- Do not apply by aerial methods within ½ mile of terrestrial TEP species.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Dicamba

- If using a low boom at the typical application rate, do not apply within 1,050 feet of terrestrial TEP plant species.
- If using a low boom at the maximum application rate, do not apply within 1,050 feet of terrestrial TEP plant species.
- If using a high boom, do not apply within 1,050 feet of terrestrial TEP plant species.
- Do not apply within 25 feet of aquatic habitats where TEP plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Diflufenzopyr

- If using a low boom at the typical application rate, do not apply within 100 feet of terrestrial TEP plant species.
- If using a high boom, or a low boom at the maximum application rate, do not apply within 900 feet of terrestrial TEP plant species.
- If using a high boom, do not apply within 500 feet of terrestrial TEP plant species.
- Do not apply within 25 feet of aquatic habitats where TEP plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Diuron

- Do not apply within 1,100 feet of terrestrial TEP species.
- If using a low boom at the typical application rate, do not apply within 900 feet of aquatic habitats where TEP aquatic plant species occur.
- If using a high boom, or a low boom at the maximum application rate, do not apply within 1,100 feet of aquatic habitats where TEP aquatic plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Fluridone

- Since effects on terrestrial TEP plant species are unknown, do not apply within ½ mile of terrestrial TEP species.

Glyphosate

- Since the risks associated with using a high boom are unknown, use only a low boom during ground applications of this herbicide within ½ mile of terrestrial TEP plant species.
- Do not apply by ground methods at the typical application rate within 50 feet of terrestrial TEP plant species.
- Do not apply by ground methods at the maximum application rate within 300 feet of terrestrial TEP plant species.
- Do not apply by aerial methods within 300 feet of terrestrial TEP plant species.

Hexazinone

- Since the risks associated with using a high boom or an aerial application are unknown, only apply this herbicide by ground methods using a low boom within ½ mile of terrestrial TEP plant species and aquatic habitats that support aquatic TEP species.
- Do not apply by ground methods at the typical application rate within 300 feet of terrestrial TEP plant species or aquatic habitats that support aquatic TEP plant species.
- Do not apply by ground methods at the maximum application rate within 900 feet of terrestrial TEP plant species or aquatic habitats that support aquatic TEP plant species.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Imazapic

- Do not apply by ground methods within 25 feet of terrestrial TEP species or aquatic habitats where TEP plant species occur.
- Do not apply by helicopter at the typical application rate within 25 feet of terrestrial TEP plant species.
- Do not apply by helicopter at the maximum application rate, or by plane at the typical application rate, within 300 feet of terrestrial TEP plant species.
- Do not apply by plane at the maximum application rate within 900 feet of terrestrial TEP species.
- Do not apply by aerial methods at the maximum application rate within 300 feet of aquatic TEP species.
- Do not apply by aerial methods at the typical application rate within 100 feet of aquatic TEP species.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Imazapyr

- Since the risks associated with using a high boom are unknown, use only a low boom for ground applications of this herbicide within ½ mile of terrestrial TEP plant species or aquatic habitats in which TEP plant species occur.
- Do not apply at the typical application rate, by ground or aerial methods, within 900 feet of terrestrial TEP plant species or aquatic habitats in which aquatic TEP species occur.
- Do not apply at the maximum application rate, by ground or aerial methods, within ½ mile of terrestrial TEP plant species or aquatic habitats in which aquatic TEP species occur.
- Do not use aquatic formulations in aquatic habitats where TEP aquatic plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Metsulfuron Methyl

- Since the risks associated with using a high boom are unknown, use only a low boom for ground applications of this herbicide within ½ mile of terrestrial TEP plant species or aquatic habitats in which TEP plant species occur.
- Do not apply at the typical application rate, by ground or aerial methods, within 900 feet of terrestrial TEP plant species or aquatic habitats in which aquatic TEP species occur.
- Do not apply at the maximum application rate, by ground or aerial methods, within ½ mile of terrestrial TEP plant species or aquatic habitats in which aquatic TEP species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Overdrive® (Diflufenzopyr + Dicamba)

- If using a low boom at the typical application rate, do not apply within 100 feet of terrestrial TEP plant species.
- If using a low boom at the maximum application rate, do not apply within 900 feet of terrestrial TEP plant species.
- If using a high boom, do not apply within 900 feet of terrestrial TEP plant species.
- Do not apply within 25 feet of aquatic habitats where TEP plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Picloram

- Do not apply by ground or aerial methods, at any application rate, within ½ mile of terrestrial TEP plant species.
- Assess local site conditions when evaluating the risks from surface water runoff to TEP plants located within ½ mile downgradient from the treatment area.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Sulfometuron Methyl

- Do not apply by ground or aerial methods within 1,500 feet of terrestrial TEP species.
- Do not apply by ground methods within 900 feet of aquatic habitats where TEP plant species occur, or by aerial methods within 1,500 feet of aquatic habitats where TEP plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Tebuthiuron

- If using a low boom at the typical application rate, do not apply within 25 feet of terrestrial TEP plant species.
- If using a low boom at the maximum application rate or a high boom at the typical application rate, do not apply within 50 feet of terrestrial TEP plant species.
- If using a high boom at the maximum application rate, do not apply within 900 feet of terrestrial TEP plant species.
- Do not apply within 25 feet of aquatic habitats where TEP plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Triclopyr Acid

- Since the risks associated with using a high boom are unknown, use only a low boom during ground applications of this herbicide within ½ mile of terrestrial TEP plant species.
- Since the risks associated with using a high boom are unknown, use only a low boom during ground applications at the maximum application rate of this herbicide within ½ mile of aquatic habitats in which TEP plant species occur.
- Do not apply by ground methods at the typical application rate within 300 feet of terrestrial TEP plant species.
- Do not apply by aerial methods at the typical application rate within 500 feet of terrestrial TEP plant species.
- Do not apply by ground or aerial methods at the maximum application rate within ½ mile of terrestrial TEP plant species or aquatic habitats in which TEP plant species occur.
- If applying to aquatic habitats in which aquatic TEP plant species occur, do not exceed the targeted water concentration on the product label.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

Triclopyr BEE

- Since the risks associated with using a high boom are unknown, use only a low boom for ground applications of this herbicide within ½ mile of terrestrial TEP plant species or aquatic habitats in which TEP plant species occur.
- Do not apply by ground methods at the typical application rate within 300 feet of terrestrial TEP plant species or aquatic habitats in which TEP plant species occur.
- Do not apply by aerial methods at the typical application rate within 500 feet of terrestrial TEP plant species or aquatic habitats in which TEP plant species occur.
- Do not apply by ground or aerial methods at the maximum application rate within ½ mile of terrestrial TEP plant species or aquatic habitats in which TEP plant species occur.
- Do not use aquatic formulations in aquatic habitats where TEP aquatic plant species occur.
- In areas where wind erosion is likely, do not apply within ½ mile of TEP plant species.

At the local level, the BLM must make a determination as to the suitability of vegetation treatments for the populations of TEP species that are managed by local offices. The following information should be considered: the timing of the treatment in relation to the phenology of the TEP plant species; the intensity of the treatment; the duration of the treatment; and the tolerance of the TEP species to the particular type of treatment to be used. When

information about species tolerance is unavailable or is inconclusive, local offices must assume a negative effect to plant populations, and protect those populations from direct exposure to the treatment in question.

Treatment plans must also address the presence of and expected impacts on noxious weeds on the project site. These plans must be coordinated with BLM weed experts and/or appropriate county weed supervisors to minimize the spread of weeds. In order to prevent the spread of noxious weeds and other unwanted vegetation in occupied or suitable habitat, the following precautions should be taken:

- Cleared areas that are prone to downy brome or other noxious weed invasions should be seeded with an appropriate seed mixture to reduce the probability of noxious weeds or other undesirable plants becoming established on the site.
- Where seeding is warranted, bare sites should be seeded as soon as appropriate after treatment, and at a time of year when it is likely to be successful.
- In suitable habitat for TEP species, non-native species should not be used for revegetation.
- Certified noxious weed seed free seed must be used in suitable habitat, and preference should be given to seeding appropriate plant species when rehabilitation is appropriate.
- Straw and hay bales used for erosion control in suitable habitat must be certified weed- and seed-free.
- Vehicles and heavy equipment used during treatment activities should be washed prior to arriving at a new location to avoid the transfer of noxious weeds.

When BAs are drafted at the local level for treatment programs, additional conservation measures may be added to this list. Where BLM plans that consider the effects of vegetation treatments on TEP plant species already exist, these plans should be consulted, and incorporated (e.g., any guidance or conservation measures they provide) into local level BAs for vegetation treatments.

TABLE A5-1. STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – FEDERALLY THREATENED, ENDANGERED, OR PROPOSED, OREGON JANUARY 2008

Scientific Name	Common Name	Listed	Critical Habitat	Recovery Plan
Birds				
Endangered				
<i>Pelecanus occidentalis californicus</i>	California brown pelican	1970	None	Final 1983
Threatened				
<i>Brachyramphus marmoratus</i>	Marbled murrelet	1992	Designated 1996	Final 1997
<i>Charadrius alexandrinus nivosus</i>	Western snowy plover (Pacific Coastal population)	1993	Designated 2005	Final 2007
<i>Strix occidentalis caurina</i>	Northern spotted owl	1990	Designated 1992	Draft 2007
Fish				
Endangered				
<i>Catostomus microps</i>	Modoc sucker	1985	Designated 1985	None
<i>Chasmistes brevirostris</i>	Shortnose sucker	1988	Proposed 1994	Final 1993
<i>Deltistes luxatus</i>	Lost river sucker	1988	Proposed 1994	Final 1993
<i>Gila boraxobius</i>	Borax lake chub	1980	Final 1982	Final 1987
<i>Oncorhynchus mykiss</i>	Steelhead (Upper Columbia River)	1997	Designated 2005	Final 2007
<i>Oncorhynchus tshawytscha</i>	Chinook salmon (Upper Columbia River Spring run)	1999	Designated 2005	Final 2007
Threatened				
<i>Catostomus warnerensis</i>	Warner sucker	1985	Designated 1985	Final 1998
<i>Gila bicolor</i> ssp.	Hutton tui chub	1985	None	Final 1998
<i>Oncorhynchus clarki henshawi</i>	Lahontan cutthroat trout	1970	None	Final 1995
<i>Oncorhynchus kisutch</i>	Coho salmon (Lower Columbia River)	2005	None	None
	(Northern CA / Southern Oregon Coast)	1997	Designated 1999	None
<i>Oncorhynchus mykiss</i>	Steelhead (Lower Columbia River)	1998	Designated 2005	None
	(Middle Columbia River)	1999	Designated 2005	None
	(Upper Willamette River)	1999	Designated 2005	None
	(Snake River Basin)	1997	Designated 2005	None
	(Lower Columbia River)	1999	Designated 2005	None
	(Upper Willamette River)	1999	Designated 2005	None
	(Snake River – Fall/Spring/Summer runs)	1992	Designated 1993	None
<i>Rhinichthys osculus</i> ssp.	Foskett speckled dace	1985	None	Final 1998
<i>Salvelinus confluentus</i>	Bull trout (Columbia River)	1998	Final 2005	Draft 2002
	(Klamath River)	1998	Final 2005	Draft 2002
	(Coastal / Puget Sound)	1999	Final 2005	Draft 2004

TABLE A5-1. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – FEDERALLY THREATENED, ENDANGERED, OR PROPOSED, OREGON JANUARY 2008

Scientific Name	Common Name	Listed	Critical Habitat	Recovery Plan
Invertebrates				
Endangered				
<i>Plebejus icarioides fenderi</i>	Fender's blue butterfly	2000	Proposed 2005	None
Threatened				
<i>Branchinecta lynchi</i>	Vernal pool fairy shrimp	1994	Designated 2003	Final 2005
<i>Speyeria zerene hippolyta</i>	Oregon silverspot butterfly	1980	Designated 1980	Final 2001
Mammals				
Endangered				
<i>Canis lupus</i>	Gray wolf	2003	None in OR or WA	Final 1987
<i>Odocoileus virginianus leucurus</i>	Columbian white-tailed deer (<i>Columbia River population</i>)	1967	None	Final 1983
Threatened				
<i>Lynx canadensis</i>	Canada lynx	2000	Designated 2006	None
Vascular Plants				
Endangered				
<i>Arabis macdonaldiana</i>	Macdonald's rock-cress	1978	None	Final 1984
<i>Arenaria paludicola</i>	Marsh sandwort	1993	None	Final 1998
<i>Astragalus applegatei</i>	Applegate's milk-vetch	1993	None	Final 1998
<i>Erigeron decumbens</i> var. <i>decumbens</i>	Willamette valley daisy	2000	Proposed 2005	None
<i>Fritillaria gentneri</i>	Gentner's fritillary	1999	None	Final 2003
<i>Lilium occidentale</i>	Western lily	1994	None	Final 1998
<i>Limnanthes floccosa</i> ssp. <i>grandiflora</i>	Large-flowered woolly meadowfoam	2002	None	Draft 2006
<i>Lomatium bradshawii</i>	Bradshaw's desertparsley	1988	None	Final 1993
<i>Lomatium cookii</i>	Cook's lomatium	2002	None	Draft 2006
<i>Plagiobothrys hirtus</i>	Rough popcorn flower	2001	None	Final 2003
<i>Stephanomeria malheurensis</i>	Malheur wire-lettuce	1982	Final 1982	Final 1991
Threatened				
<i>Castilleja levisecta</i>	Golden paintbrush	1997	None	Final 2000
<i>Howellia aquatilis</i>	Water howellia	1994	None	Draft 1996
<i>Lupinus sulphureus</i> ssp. <i>kincaidii</i>	Kincaid's lupine	2000	Designated 2006	None
<i>Mirabilis macfarlanei</i>	Macfarlane's four o'clock	1979	None	Final 2000
<i>Sidalcea nelsoniana</i>	Nelson's checkermallow	1993	None	Final 1998
<i>Silene spaldingii</i>	Spalding's catchfly	2001	None	Final 2007
<i>Thelypodium howellii</i> ssp. <i>spectabilis</i>	Howell's spectacular thelypody	1999	None	Final 2002

TABLE A5-2. STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
Amphibians	
<i>Aneides flavipunctatus</i>	Black salamander
<i>Ascaphus montanus</i>	Inland tailed frog
<i>Batrachoseps attenuatus</i>	California slender salamander
<i>Batrachoseps wrightorum</i>	Oregon slender salamander
<i>Bufo woodhousii</i>	Woodhouse's toad
<i>Dicamptodon copei</i>	Cope's giant salamander
<i>Plethodon larselli</i>	Larch mountain salamander
<i>Plethodon stormi</i>	Siskiyou mountains salamander
<i>Rana boylei</i>	Foothill yellow-legged frog
<i>Rana luteiventris</i>	Columbia spotted frog (Great Basin population)
<i>Rana pipiens</i>	Northern leopard frog
<i>Rana pretiosa</i>	Oregon spotted frog
Birds	
<i>Agelaius tricolor</i>	Tricolored blackbird
<i>Ammodramus savannarum</i>	Grasshopper sparrow
<i>Bartramia longicauda</i>	Upland sandpiper
<i>Branta canadensis occidentalis</i>	Dusky canada goose
<i>Branta hutchinsii leucopareia</i>	Aleutian canada goose
<i>Bucephala albeola</i>	Bufflehead
<i>Centrocercus urophasianus</i>	Greater sage-grouse
<i>Charadrius alexandrinus nivosus</i>	Western snowy plover (outside Pacific Coastal population)
<i>Coccyzus americanus</i>	Yellow-billed cuckoo
<i>Coturnicops noveboracensis</i>	Yellow rail
<i>Cygnus buccinator</i>	Trumpeter swan
<i>Cypseloides niger</i>	Black swift
<i>Dolichonyx oryzivorus</i>	Bobolink
<i>Egretta thula</i>	Snowy egret
<i>Elanus leucurus</i>	White-tailed kite
<i>Eremophila alpestris strigata</i>	Streaked horned lark
<i>Falco peregrinus anatum</i>	American peregrine falcon
<i>Fratercula cirrhata</i>	Tufted puffin
<i>Haliaeetus leucocephalus</i>	Bald eagle
<i>Histrionicus histrionicus</i>	Harlequin duck
<i>Larus pipixcan</i>	Franklin's gull
<i>Leucosticte atrata</i>	Black rosy finch
<i>Melanerpes lewis</i>	Lewis' woodpecker
<i>Pelecanus erythrorhynchos</i>	American white pelican
<i>Picoides albolarvatus</i>	White-headed woodpecker
<i>Podiceps auritus</i>	Horned grebe
<i>Podiceps grisegena</i>	Red-necked grebe
<i>Poocetes gramineus affinis</i>	Oregon vesper sparrow
<i>Progne subis</i>	Purple martin
<i>Seiurus noveboracensis</i>	Northern waterthrush
<i>Tympanuchus phasianellus columbianus</i>	Columbian sharp-tailed grouse

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
Fish	
<i>Catostomus tahoensis</i>	Tahoe sucker
<i>Cottus pitensis</i>	Pit sculpin
<i>Gila alvordensis</i>	Alvord chub
<i>Gila bicolor eurysoma</i>	Sheldon tui chub
<i>Gila bicolor oregonensis</i>	Oregon lakes tui chub
<i>Gila bicolor</i> ssp.	Summer basin tui chub
<i>Gila bicolor</i> ssp.	Catlow tui chub
<i>Gila bicolor thalassina</i>	Goose lake tui chub
<i>Lampetra minima</i>	Miller lake lamprey
<i>Lampetra tridentata</i> ssp.	Goose lake lamprey
<i>Lavinia symmetricus mitrulus</i>	Pit roach
<i>Oncorhynchus clarki lewisi</i>	Westslope cutthroat trout
<i>Oncorhynchus clarkii</i>	Coastal cutthroat trout (Columbia River / SW Washington)
<i>Oncorhynchus keta</i>	Chum salmon (Pacific Coast)
<i>Oncorhynchus kisutch</i>	Coho Salmon (Oregon Coast)
<i>Oncorhynchus mykiss</i>	Steelhead (Klamath Mountains Province)
<i>Oncorhynchus mykiss</i>	Steelhead (Oregon Coast)
<i>Oncorhynchus mykiss</i>	Inland redband trout
<i>Oncorhynchus tshawytscha</i>	Chinook salmon (Southern Oregon / N. California Coast)
<i>Oregonichthys kalawatseti</i>	Umpqua chub
<i>Rhinichthys cataractae</i> ssp.	Millicoma dace
<i>Richardsonius egregius</i>	Lahontan redband shiner
Mammals	
<i>Antrozous pallidus</i>	Pallid bat
<i>Arborimus longicaudus</i>	Oregon red tree vole (NW Oregon, North of Hwy. 20)
<i>Brachylagus idahoensis</i>	Pygmy rabbit (outside Columbia Basin population)
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat
<i>Enhydra lutris</i>	Sea otter
<i>Euderma maculatum</i>	Spotted bat
<i>Gulo gulo luteus</i>	California wolverine
<i>Martes pennanti</i>	Fisher
<i>Myotis thysanodes</i>	Fringed myotis
<i>Odocoileus virginianus leucurus</i>	Columbian white-tailed deer (Douglas County population)
<i>Spermophilus washingtoni</i>	Washington ground squirrel
<i>Vulpes macrotis</i>	Kit fox

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
Invertebrates	
<i>Algamorda newcombiana</i>	Newcomb's littorine snail
<i>Allomyia scotti</i>	Scott's apatanian caddisfly
<i>Boloria bellona</i>	Meadow fritillary
<i>Boloria selene</i>	Silver-bordered fritillary
<i>Bombus franklini</i>	Franklin's bumblebee
<i>Callophrys johnsoni</i>	Johnson's hairstreak
<i>Callophrys polios maritima</i>	Hoary elfin
<i>Chloealtis aspasma</i>	Siskiyou short-horned grasshopper
<i>Cicindela hirticollis siuslawensis</i>	Siuslaw sand tiger beetle
<i>Colligyus</i> sp. nov. 1	Columbia duskysnail
<i>Cryptomastix devia</i>	Puget oregonian
<i>Cryptomastix populi</i>	Hells canyon land snail
<i>Deroceras hesperium</i>	Evening fieldslug
<i>Euphydryas editha taylori</i>	Taylor's checkerspot
<i>Fluminicola insolitus</i>	Donner und blitzen pebblesnail
<i>Fluminicola</i> sp. nov. 11	Nerite pebblesnail
<i>Fluminicola</i> sp. nov. 3	Klamath rim pebblesnail
<i>Gliabates oregonius</i>	Salamander slug
<i>Gonidea angulata</i>	Western ridged mussel
<i>Helisoma newberryi newberryi</i>	Great basin ramshorn
<i>Helminthoglypta hertleini</i>	Oregon shoulderband
<i>Hemphillia glandulosa</i>	Warty jumping-slug
<i>Hesperarion mariae</i>	Tillamook westernslug
<i>Juga hemphilli dallesensis</i>	Dalles juga
<i>Juga hemphilli hemphilli</i>	Barren juga
<i>Juga hemphilli maupinensis</i>	Purple-lipped juga
<i>Lanx klamathensis</i>	Scale lanx
<i>Lanx subrotunda</i>	Rotund lanx
<i>Lygus oregonae</i>	Oregon plant bug
<i>Micracanthia fennica</i>	Harney hot spring shore bug
<i>Monadenia chaceana</i>	Chase sideband
<i>Monadenia fidelis beryllica</i>	Green sideband
<i>Monadenia fidelis celeuthia</i>	Travelling sideband
<i>Monadenia fidelis</i> ssp. nov.	Deschutes sideband
<i>Monadenia fidelis</i> ssp. nov.	Modoc rim sideband
<i>Ochlodes yuma</i>	Yuma skipper
<i>Oreohelix variabilis</i> sp. nov.	Deschutes mountainsnail
<i>Pisidium ultramontanum</i>	Montane peaclam
<i>Plebejus saepiolus littoralis</i>	Insular blue butterfly
<i>Polites mardon</i>	Mardon skipper
<i>Pomatiopsis binneyi</i>	Robust walker
<i>Pomatiopsis californica</i>	Pacific walker
<i>Pristiloma arcticum crateris</i>	Crater lake tightcoil
<i>Pristiloma pilsbryi</i>	Crowned tightcoil
<i>Prophysaon vanattaie pardalis</i>	Spotted tail-dropper

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Pterostichus rothi</i>	Roth's blind ground beetle
<i>Pyrgulopsis intermedia</i>	Crooked creek springsnail
<i>Pyrgulopsis robusta</i>	Jackson lake springsnail
<i>Rhyacophila chandleri</i>	A caddisfly
<i>Rhyacophila haddocki</i>	Haddock's rhyacophilan caddisfly
<i>Saldula villosa</i>	Hairy shore bug
<i>Speyeria coronis coronis</i>	Coronis fritillary
<i>Vespericola sierranus</i>	Siskiyou hesperian
Reptiles	
<i>Actinemys marmorata marmorata</i>	Northwestern pond turtle
<i>Chrysemys picta</i>	Painted turtle
Vascular plants	
<i>Abronia turbinata</i>	Trans montane abronia
<i>Abronia umbellata</i> ssp. <i>breviflora</i>	Pink sand-verbena
<i>Achnatherum hendersonii</i>	Henderson's ricegrass
<i>Achnatherum speciosum</i>	Desert needlegrass
<i>Achnatherum wallowaensis</i>	Wallowa ricegrass
<i>Adiantum jordanii</i>	California maiden-hair
<i>Agastache cusickii</i>	Cusick's giant-hyssop
<i>Agoseris elata</i>	Tall agoseris
<i>Agrostis howellii</i>	Howell's bentgrass
<i>Allenrolfea occidentalis</i>	Iodine bush
<i>Allium geyeri</i> var. <i>geyeri</i>	Geyer's onion
<i>Amsinckia carinata</i>	Malheur valley fiddleneck
<i>Anemone oregana</i> var. <i>felix</i>	Bog anemone
<i>Arabis koehleri</i> var. <i>koehleri</i>	Koehler's rockcress
<i>Arabis sparsiflora</i> var. <i>atrorubens</i>	Sickle-pod rockcress
<i>Arctostaphylos hispidula</i>	Hairy manzanita
<i>Argemone munita</i>	Prickly-poppy
<i>Arnica viscosa</i>	Shasta arnica
<i>Artemisia arbuscula</i> ssp. <i>longicaulis</i>	Lahontan sagebrush
<i>Artemisia campestris</i> ssp. <i>borealis</i> var. <i>wormskioldii</i>	Northern wormwood
<i>Artemisia papposa</i>	Owyhee sagebrush
<i>Artemisia pycnocephala</i>	Coastal sagewort
<i>Asplenium septentrionale</i>	Grass-fern
<i>Asplenium trichomanes-ramosum</i>	Green spleenwort
<i>Astragalus californicus</i>	California milk-vetch
<i>Astragalus calycosus</i>	King's rattleweed
<i>Astragalus collinus</i> var. <i>laurentii</i>	Laurence's milk-vetch
<i>Astragalus cusickii</i> var. <i>sterilis</i>	Sterile milk-vetch
<i>Astragalus diaphanus</i> var. <i>diurnus</i>	South fork john day milk-vetch
<i>Astragalus gambelianus</i>	Gambel milk-vetch
<i>Astragalus geyeri</i> var. <i>geyeri</i>	Geyer's milk-vetch
<i>Astragalus mulfordiae</i>	Mulford's milk-vetch
<i>Astragalus peckii</i>	Peck's milk-vetch
<i>Astragalus platytropis</i>	Broad-keeled milk-vetch
<i>Astragalus tegetarioides</i>	Bastard kentrophyta

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Astragalus tyghensis</i>	Tygh valley milk-vetch
<i>Bensoniella oregana</i>	Bensonia
<i>Botrychium ascendens</i>	Upward-lobed moonwort
<i>Botrychium campestre</i>	Prairie moonwort
<i>Botrychium crenulatum</i>	Crenulate moonwort
<i>Botrychium lineare</i>	Slender moonwort
<i>Botrychium lunaria</i>	Moonwort
<i>Botrychium minganense</i>	Gray moonwort
<i>Botrychium montanum</i>	Mountain grape-fern
<i>Botrychium paradoxum</i>	Twin-spiked moonwort
<i>Botrychium pedunculosum</i>	Stalked moonwort
<i>Botrychium pumicola</i>	Pumice grape-fern
<i>Brodiaea terrestris</i>	Dwarf brodiaea
<i>Bupleurum americanum</i>	Bupleurum
<i>Calamagrostis breweri</i>	Brewer's reedgrass
<i>Callitriche marginata</i>	Winged water-starwort
<i>Calochortus coxii</i>	Crinite mariposa-lily
<i>Calochortus greenei</i>	Greene's mariposa-lily
<i>Calochortus howellii</i>	Howell's mariposa-lily
<i>Calochortus indecorus</i>	Sexton mt. Mariposa-lily
<i>Calochortus longebarbatus</i> var. <i>peckii</i>	Peck's mariposa-lily
<i>Calochortus macrocarpus</i> var. <i>maculosus</i>	Green-band mariposa-lily
<i>Calochortus monophyllus</i>	One-leaved mariposa-lily
<i>Calochortus nitidus</i>	Broad-fruit mariposa-lily
<i>Calochortus persistens</i>	Siskiyou mariposa-lily
<i>Calochortus umpquaensis</i>	Umpqua mariposa-lily
<i>Calyptidium roseum</i>	Rosy pussypaws
<i>Camassia howellii</i>	Howell's camas
<i>Camissonia graciliflora</i>	Slender-flowered evening-primrose
<i>Camissonia pygmaea</i>	Dwarf evening-primrose
<i>Cardamine pattersonii</i>	Saddle mountain bittercress
<i>Carex abrupta</i>	Abrupt-beaked sedge
<i>Carex atrosquama</i>	Blackened sedge
<i>Carex brevicaulis</i>	Short stemmed sedge
<i>Carex capillaris</i>	Hairlike sedge
<i>Carex capitata</i>	Capitate sedge
<i>Carex comosa</i>	Bristly sedge
<i>Carex constanceana</i>	Constances's sedge
<i>Carex cordillerana</i>	Cordilleran sedge
<i>Carex crawfordii</i>	Crawford's sedge
<i>Carex diandra</i>	Lesser panicled sedge
<i>Carex dioica</i> var. <i>gynocrates</i>	Yellow bog sedge
<i>Carex gynodynama</i>	Hairy sedge
<i>Carex idahoa</i>	Idaho sedge
<i>Carex klamathensis</i> sp. nov.	A sedge
<i>Carex lasiocarpa</i> var. <i>americana</i>	Slender sedge

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Carex livida</i>	Pale sedge
<i>Carex macrochaeta</i>	Large-awn sedge
<i>Carex media</i>	Intermediate sedge
<i>Carex nardina</i>	Spikenard sedge
<i>Carex nervina</i>	Sierra nerved sedge
<i>Carex pelocarpa</i>	New sedge
<i>Carex pyrenaica</i> ssp. <i>micropoda</i>	Pyrenaean sedge
<i>Carex retrorsa</i>	Retorse sedge
<i>Carex scabriuscula</i>	Siskiyou sedge
<i>Carex scirpoidea</i> var. <i>stenochlaena</i>	Alaskan single-spiked sedge
<i>Carex serratodens</i>	Saw-tooth sedge
<i>Carex subnigricans</i>	Dark alpine sedge
<i>Carex vernacula</i>	Native sedge
<i>Castilleja chlorotica</i>	Green-tinged paintbrush
<i>Castilleja fraterna</i>	Fraternal paintbrush
<i>Castilleja mendocinensis</i>	Mendocino coast indian paintbrush
<i>Castilleja rubida</i>	Purple alpine paintbrush
<i>Castilleja thompsonii</i>	Thompson's paintbrush
<i>Caulanthus crassicaulis</i> var. <i>glaber</i>	Smooth wild cabbage
<i>Caulanthus major</i> var. <i>gevadensis</i>	Slender wild cabbage
<i>Chaenactis xantiana</i>	Desert chaenactis
<i>Chaetadelpa wheeleri</i>	Wheeler's skeleton-weed
<i>Cheilanthes covillei</i>	Coville's lip-fern
<i>Cheilanthes feei</i>	Fee's lip-fern
<i>Cheilanthes intertexta</i>	Coastal lipfern
<i>Chlorogalum angustifolium</i>	Narrow-leaved amole
<i>Cicendia quadrangularis</i>	Timwort
<i>Cimicifuga elata</i> var. <i>elata</i>	Tall bugbane
<i>Collomia mazama</i>	Mt. Mazama collomia
<i>Coptis trifolia</i>	Three-leaf goldthread
<i>Cordylanthus maritimus</i> ssp. <i>palustris</i>	Point reyes bird's beak
<i>Corydalis aquae-gelidae</i>	Cold-water corydalis
<i>Cryptantha leiocarpa</i>	Seaside cryptantha
<i>Cryptantha milo-bakeri</i>	Milo baker's cryptantha
<i>Cryptogramma stelleri</i>	Steller's rockbrake
<i>Cupressus bakeri</i>	Baker's cypress
<i>Cymopterus acaulis</i> var. <i>greeleyorum</i>	Greeley's cymopterus
<i>Cymopterus longipes</i> ssp. <i>ibapensis</i>	Ibapah wavewing
<i>Cymopterus nivalis</i>	Snowline spring-parsley
<i>Cymopterus purpurascens</i>	Purple cymopterus
<i>Cyperus acuminatus</i>	Short-pointed cyperus
<i>Cyperus lupulinus</i> ssp. <i>lupulinus</i>	A cyperus
<i>Cypripedium fasciculatum</i>	Clustered lady's-slipper
<i>Delphinium bicolor</i>	Flathead larkspur
<i>Delphinium leucophaeum</i>	White rock larkspur
<i>Delphinium nudicaule</i>	Red larkspur

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Delphinium nuttallii</i>	Nuttall's larkspur
<i>Delphinium pavonaceum</i>	Peacock larkspur
<i>Dicentra pauciflora</i>	Few-flowered bleedingheart
<i>Dodecatheon austrofrigidum</i>	Frigid shootingstar
<i>Dodecatheon pulchellum</i> var. <i>shoshonense</i>	Darkthroat shootingstar
<i>Draba howellii</i>	Howell's whitlow-grass
<i>Elatine brachysperma</i>	Short seeded waterwort
<i>Eleocharis bolanderi</i>	Bolander's spikerush
<i>Epilobium oregonum</i>	Oregon willow-herb
<i>Ericameria arborescens</i>	Golden fleece
<i>Erigeron cervinus</i>	Siskiyou daisy
<i>Erigeron disparipilus</i>	White cushion erigeron
<i>Erigeron engelmannii</i> var. <i>davisii</i>	Engelmann's daisy
<i>Erigeron howellii</i>	Howell's daisy
<i>Erigeron latus</i>	Broad fleabane
<i>Erigeron oregonus</i>	Oregon daisy
<i>Eriogonum brachyanthum</i>	Short-flowered eriogonum
<i>Eriogonum chrysops</i>	Golden buckwheat
<i>Eriogonum crosbyae</i>	Crosby's buckwheat
<i>Eriogonum cusickii</i>	Cusick's buckwheat
<i>Eriogonum hookeri</i>	Hooker's wild buckwheat
<i>Eriogonum lobbii</i>	Lobb's buckwheat
<i>Eriogonum prociduum</i>	Prostrate buckwheat
<i>Eriogonum salicornioides</i>	Playa buckwheat
<i>Eriogonum umbellatum</i> var. <i>glaberrimum</i>	Green buckwheat
<i>Eriophorum chamissonis</i>	Russet cotton-grass
<i>Erythronium elegans</i>	Coast range fawn-lily
<i>Erythronium howellii</i>	Howell's adder's-tongue
<i>Eschscholzia caespitosa</i>	Gold poppy
<i>Eucephalus gormanii</i>	Gorman's aster
<i>Eucephalus vialis</i>	Wayside aster
<i>Filipendula occidentalis</i>	Queen-of-the-forest
<i>Fritillaria camschatcensis</i>	Black lily
<i>Galium serpenticum</i> ssp. <i>warnerense</i>	Warner mt. Bedstraw
<i>Gentiana newberryi</i>	Newberry's gentian
<i>Gentiana plurisetosa</i>	Elegant gentian
<i>Gentiana prostrata</i>	Moss gentian
<i>Gentiana setigera</i>	Waldo gentian
<i>Gentianella tenella</i> ssp. <i>tenella</i>	Slender gentian
<i>Geum rossii</i> var. <i>turbinatum</i>	Slender-stemmed avens
<i>Gilia millefoliata</i>	Seaside gilia
<i>Gratiola heterosepala</i>	Boggs lake hedge-hyssop
<i>Hackelia bella</i>	Beautiful stickseed
<i>Hackelia cronquistii</i>	Cronquist's stickseed
<i>Hackelia ophiobia</i>	Three forks stickseed
<i>Hastingsia bracteosa</i> var. <i>atropurpurea</i>	Purple-flowered rush-lily

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Hastingsia bracteosa</i> var. <i>bracteosa</i>	Large-flowered rush-lily
<i>Heliotropium curassavicum</i>	Salt heliotrope
<i>Hieracium horridum</i>	Shaggy hawkweed
<i>Horkelia congesta</i> ssp. <i>congesta</i>	Shaggy horkelia
<i>Horkelia tridentata</i> ssp. <i>tridentata</i>	Three-toothed horkelia
<i>Hydrocotyle verticillata</i>	Whorled marsh-pennywort
<i>Hymenoxys lemmonii</i>	Cooper's goldflower
<i>Iliamna latibracteata</i>	California globe-mallow
<i>Iris tenax</i> var. <i>gormanii</i>	Gorman's iris
<i>Ivesia rhypara</i> var. <i>shypara</i>	Grimy ivesia
<i>Ivesia rhypara</i> var. <i>shellyi</i>	Shelly's ivesia
<i>Ivesia shockleyi</i>	Shockley's ivesia
<i>Juncus triglumis</i> var. <i>albescens</i>	Three-flowered rush
<i>Kalmiopsis fragrans</i>	Fragrant kalmiopsis
<i>Keckiella lemmonii</i>	Bush beardtongue
<i>Kobresia bellardii</i>	Bellard's kobresia
<i>Kobresia simpliciuscula</i>	Simple kobresia
<i>Lasthenia ornduffii</i>	Large-flowered goldfields
<i>Lathyrus holochlorus</i>	Thin-leaved peavine
<i>Lepidium davisii</i>	Davis' peppergrass
<i>Lewisia columbiana</i> var. <i>columbiana</i>	Columbia lewisia
<i>Lewisia leana</i>	Lee's lewisia
<i>Limnanthes floccosa</i> ssp. <i>bellingeriana</i>	Bellinger's meadow-foam
<i>Limnanthes floccosa</i> ssp. <i>pumila</i>	Dwarf meadow-foam
<i>Limnanthes gracilis</i> var. <i>gracilis</i>	Slender meadow-foam
<i>Limonium californicum</i>	Western marsh-rosemary
<i>Lipocarpha aristulata</i>	Aristulate lipocarpha
<i>Listera borealis</i>	Northern twayblade
<i>Lobelia dortmanna</i>	Water lobelia
<i>Lomatium engelmannii</i>	Englemann's desert-parsley
<i>Lomatium erythrocarpum</i>	Red-fruited lomatium
<i>Lomatium foeniculaceum</i> ssp. <i>fimbriatum</i>	Fringed desert-parsley
<i>Lomatium ochocense</i>	Ochoco lomatium
<i>Lomatium ravenii</i>	Raven's lomatium
<i>Lomatium suksdorfii</i>	Suksdorf's desert parsley
<i>Lomatium watsonii</i>	Watson's desert parsley
<i>Lotus stipularis</i>	Stipuled trefoil
<i>Luina serpentina</i>	Colonial luina
<i>Lupinus lepidus</i> var. <i>cusickii</i>	Cusick's lupine
<i>Lupinus nevadensis</i>	Nevada lupine
<i>Lupinus tracyi</i>	Tracy's lupine
<i>Lycopodiella inundata</i>	Bog club-moss
<i>Lycopodium complanatum</i>	Ground cedar
<i>Malacothrix sonchoides</i>	Lyrate malacothrix
<i>Meconella oregana</i>	White fairypoppy
<i>Mentzelia congesta</i>	United blazingstar

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Mentzelia mollis</i>	Smooth mentzelia
<i>Mentzelia packardiae</i>	Packard's mentzelia
<i>Microseris bigelovii</i>	Coast microseris
<i>Microseris howellii</i>	Howell's microseris
<i>Mimulus bolanderi</i>	Bolander's monkeyflower
<i>Mimulus congdonii</i>	Congdon's monkeyflower
<i>Mimulus evanescens</i>	Disappearing monkeyflower
<i>Mimulus hymenophyllus</i>	Membrane-leaved monkeyflower
<i>Mimulus latidens</i>	Broad-toothed monkeyflower
<i>Mimulus tricolor</i>	Three-colored monkey-flower
<i>Muhlenbergia minutissima</i>	Annual dropseed
<i>Navarretia leucocephala</i> ssp. <i>leucocephala</i>	White-flowered navarretia
<i>Nemacladus capillaries</i>	Slender nemacladus
<i>Oenothera wolfii</i>	Wolf's evening-primrose
<i>Ophioglossum pusillum</i>	Adder's-tongue
<i>Oxytropis sericea</i> var. <i>sericea</i>	White locoweed
<i>Pellaea andromedifolia</i>	Coffee fern
<i>Pellaea bridgesii</i>	Bridges' cliff-brake
<i>Pellaea mucronata</i> ssp. <i>mucronata</i>	Bird's-foot fern
<i>Penstemon barrettiae</i>	Barrett's penstemon
<i>Penstemon glaucinus</i>	Blue-leaved penstemon
<i>Penstemon peckii</i>	Peck's penstemon
<i>Perideridia erythrorhiza</i>	Red-rooted yampah
<i>Phacelia argentea</i>	Silvery phacelia
<i>Phacelia gymnoclada</i>	Naked-stemmed phacelia
<i>Phacelia inundata</i>	Playa phacelia
<i>Phacelia leonis</i>	Siskiyou phacelia
<i>Phacelia lutea</i> var. <i>mackenzieorum</i>	Mackenzie's phacelia
<i>Phacelia minutissima</i>	Dwarf phacelia
<i>Phlox hendersonii</i>	Henderson's phlox
<i>Phlox multiflora</i>	Many-flowered phlox
<i>Physaria chambersii</i>	Chambers' twinpod
<i>Pilularia americana</i>	American pillwort
<i>Plagiobothrys austini</i>	Austin's plagiobothrys
<i>Plagiobothrys figuratus</i> ssp. <i>corallicarpus</i>	Coral seeded allocarya
<i>Plagiobothrys greenei</i>	Greene's popcorn flower
<i>Plagiobothrys lamprocarpus</i>	Shiny-fruited popcorn flower
<i>Plagiobothrys salsus</i>	Desert allocarya
<i>Platanthera obtusata</i>	Small northern bog-orchid
<i>Pleuropogon oregonus</i>	Oregon semaphoregrass
<i>Poa rhizomata</i>	Timber bluegrass
<i>Poa unilateralis</i>	San francisco bluegrass
<i>Pogogyne floribunda</i>	Profuse-flowereed mesa mint
<i>Polystichum californicum</i>	California sword-fern
<i>Potamogeton diversifolius</i>	Rafinesque's pondweed
<i>Pyrrocoma racemosa</i> var. <i>racemosa</i>	Racemose pyrrocoma

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Pyrocoma radiata</i>	Snake river goldenweed
<i>Rafinesquia californica</i>	California chicory
<i>Ranunculus austrooreganus</i>	Southern oregon buttercup
<i>Ranunculus triternatus</i>	Dalles mt. Buttercup
<i>Rhamnus ilicifolia</i>	Redberry
<i>Rhynchospora alba</i>	White beakrush
<i>Ribes divaricatum</i> var. <i>pubiflorum</i>	Straggly gooseberry
<i>Romanzoffia thompsonii</i>	Thompson's mistmaiden
<i>Rorippa columbiae</i>	Columbia cress
<i>Rotala ramosior</i>	Lowland toothcup
<i>Rubus bartonianus</i>	Bartonberry
<i>Salix farriae</i>	Farr's willow
<i>Salix wolfii</i>	Wolf's willow
<i>Saxifraga adscendens</i> ssp. <i>oregonensis</i>	Wedge-leaf saxifrage
<i>Saxifragopsis fragarioides</i>	Joint-leaved saxifrage
<i>Scheuchzeria palustris</i> var. <i>americana</i>	Scheuchzeria
<i>Schoenoplectus subterminalis</i>	Water clubrush
<i>Scirpus pendulus</i>	Drooping bulrush
<i>Sedum moranii</i>	Rogue river stonecrop
<i>Senecio ertterae</i>	Ertter's senecio
<i>Sericocarpus rigidus</i>	White-topped aster
<i>Sesuvium verrucosum</i>	Verrucose sea-purslane
<i>Sidalcea hickmanii</i> ssp. nov.	Hickman's checkerbloom
<i>Sidalcea hirtipes</i>	Bristly-stemmed sidalcea
<i>Sidalcea malviflora</i> ssp. <i>patula</i>	Coast checker bloom
<i>Silene hookeri</i> ssp. <i>bolanderi</i>	Bolander's catchfly
<i>Sisyrinchium hitchcockii</i>	Hitchcock's blue-eyed grass
<i>Sisyrinchium sarmentosum</i>	Pale blue-eyed grass
<i>Solanum parishii</i>	Parish's horse-nettle
<i>Sophora leachiana</i>	Western sophora
<i>Stanleya confertiflora</i>	Biennial stanleya
<i>Stellaria humifusa</i>	Creeping chickweed
<i>Streptanthus glandulosus</i>	Common jewel flower
<i>Streptanthus howellii</i>	Howell's streptanthus
<i>Streptopus streptopoides</i>	Kruhsea
<i>Suksdorfia violacea</i>	Violet suksdorfia
<i>Sullivantia oregana</i>	Oregon sullivantia
<i>Symphoricarpos longiflorus</i>	Long-flowered snowberry
<i>Talinum spinescens</i>	Spinescent fameflower
<i>Thalictrum alpinum</i>	Alpine meadowrue
<i>Thelypodium brachycarpum</i>	Short-podded thelypody
<i>Thelypodium eucosmum</i>	Arrow-leaf thelypody
<i>Townsendia montana</i>	Mountain townsendia
<i>Townsendia parryi</i>	Parry's townsendia
<i>Trifolium douglasii</i>	Douglas' clover

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Trifolium leibergii</i>	Leiberg's clover
<i>Trifolium owyheense</i>	Owyhee clover
<i>Trillium kurabayashii</i>	Siskiyou trillium
<i>Trollius laxus</i> var. <i>albiflorus</i>	American globeflower
<i>Utricularia gibba</i>	Humped bladderwort
<i>Utricularia minor</i>	Lesser bladderwort
<i>Utricularia ochroleuca</i>	Northern bladderwort
<i>Viola primulifolia</i> ssp. <i>occidentalis</i>	Western bog violet
<i>Wolffia borealis</i>	Dotted water-meal
<i>Wolffia columbiana</i>	Columbia water-meal
<i>Zigadenus fontanus</i>	Small-flowered death camas
Bryophytes	
<i>Andreaea schofieldiana</i>	Moss
<i>Barbilophozia lycopodioides</i>	Liverwort
<i>Bryum calobryoides</i>	Moss
<i>Calypogeia sphagnicola</i>	Liverwort
<i>Campylopus schmidii</i>	Moss
<i>Chiloscyphus gemmiparus</i>	Liverwort
<i>Codriophorus depressus</i>	Moss
<i>Cryptomitrium tenerum</i>	Liverwort
<i>Diplophyllum plicatum</i>	Liverwort
<i>Encalypta brevicollis</i>	Moss
<i>Encalypta brevipes</i>	Moss
<i>Encalypta intermedia</i>	Moss
<i>Entosthodon fascicularis</i>	Moss
<i>Ephemerum crassinervium</i>	Moss
<i>Gymnomitrium concinatum</i>	Liverwort
<i>Helodium blandowii</i>	Moss
<i>Herbertus aduncus</i>	Liverwort
<i>Iwatsukiella leucotricha</i>	Moss
<i>Jungermannia polaris</i>	Liverwort
<i>Kurzia makinoana</i>	Liverwort
<i>Limbella fryei</i>	Moss
<i>Lophozia laxa</i>	Liverwort
<i>Meesia uliginosa</i>	Moss
<i>Metzgeria violacea</i>	Liverwort
<i>Orthodontium pellucens</i>	Moss
<i>Peltolepis quadrata</i>	Liverwort
<i>Polytrichum sphaerothecium</i>	Moss
<i>Porella bolanderi</i>	Liverwort
<i>Pseudocalliergon trifarium</i>	Moss
<i>Ptilidium pulcherrimum</i>	Liverwort
<i>Rhizomnium nudum</i>	Moss
<i>Rhytidium rugosum</i>	Moss
<i>Schistidium cinclidodonteum</i>	Moss
<i>Schistostega pennata</i>	Moss

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Splachnum ampullaceum</i>	Moss
<i>Tayloria serrata</i>	Moss
<i>Tetraphis geniculata</i>	Moss
<i>Tetraplodon mnioides</i>	Moss
<i>Tomentypnum nitens</i>	Moss
<i>Tortula mucronifolia</i>	Moss
<i>Trematodon boasii</i>	Moss
<i>Tritomaria exsectiformis</i>	Liverwort
Fungi	
<i>Albatrellus avellaneus</i>	
<i>Alpova alexsmithii</i>	
<i>Arcangiella camphorata</i>	
<i>Boletus pulcherrimus</i>	
<i>Bridgeoporus nobilissimus</i>	
<i>Chamonixia caespitosa</i>	
<i>Choiromyces venosus</i>	
<i>Cortinarius barlowensis</i>	
<i>Cudonia monticola</i>	
<i>Cystangium idahoensis</i>	
<i>Dermocybe humboldtensis</i>	
<i>Destuntzia rubra</i>	
<i>Gastroboletus imbellus</i>	
<i>Gastroboletus vividus</i>	
<i>Gomphus kauffmanii</i>	
<i>Gymnomyces fragrans</i>	
<i>Gymnomyces nondistincta</i>	
<i>Helvella crassitunicata</i>	
<i>Leucogaster citrinus</i>	
<i>Mythicomyces corneipes</i>	
<i>Octaviania macrospora</i>	
<i>Otidea smithii</i>	
<i>Phaeocollybia californica</i>	
<i>Phaeocollybia dissiliens</i>	
<i>Phaeocollybia gregaria</i>	
<i>Phaeocollybia olivacea</i>	
<i>Phaeocollybia oregonensis</i>	
<i>Phaeocollybia pseudofestiva</i>	
<i>Phaeocollybia scatesiae</i>	
<i>Phaeocollybia sipei</i>	
<i>Phaeocollybia spadicea</i>	
<i>Pseudorhizina californica</i>	
<i>Ramaria amyloidea</i>	
<i>Ramaria gelatiniaurantia</i>	
<i>Ramaria largentii</i>	
<i>Ramaria rubella</i> var. <i>blanda</i>	
<i>Ramaria spinulosa</i> var. <i>diminutiva</i>	

TABLE A5-2. (CONTINUED) STATE DIRECTOR'S SPECIAL STATUS SPECIES LIST – BUREAU SENSITIVE, JANUARY 2008, OREGON BLM

Scientific name	Common name
<i>Rhizopogon chamaleontinus</i>	
<i>Rhizopogon ellipsosporus</i>	
<i>Rhizopogon exiguus</i>	
<i>Rhizopogon inquinatus</i>	
<i>Sowerbyella rhenana</i>	
<i>Stagnicola perplexa</i>	
<i>Thaxterogaster pavelekii</i>	
Lichens	
<i>Bryoria pseudocapillaris</i>	
<i>Bryoria spiralifera</i>	
<i>Bryoria subcana</i>	
<i>Calicium adpersum</i>	
<i>Chaenotheca subroscida</i>	
<i>Dermatocarpon meiophyllizum</i>	
<i>Erioderma solediatum</i>	
<i>Heterodermia leucomela</i>	
<i>Heterodermia sitchensis</i>	
<i>Hypogymnia duplicata</i>	
<i>Hypotrachyna revoluta</i>	
<i>Leioderma solediatum</i>	
<i>Leptogium burnetiae</i>	
<i>Leptogium cyanescens</i>	
<i>Lobaria linita</i>	
<i>Microcalicium arenarium</i>	
<i>Niebla cephalota</i>	
<i>Pannaria rubiginosa</i>	
<i>Pilophorus nigricaulis</i>	
<i>Pseudocyphellaria mallota</i>	
<i>Ramalina pollinaria</i>	
<i>Stereocaulon spathuliferum</i>	
<i>Teloschistes flavicans</i>	
<i>Texasporium sancti-jacobi</i>	
<i>Tholurna dissimilis</i>	
<i>Usnea nidulans</i>	