



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation and study of Oregon's native plants and habitats

VOLUME 47, No. 8

OCTOBER 2014

ACECs and Horse Rock Ridge Research Natural Area

by Amy Comstock and Emma MacDonald, 2014 IAE/NPSO Interns

Many natural areas require protection, and sometimes special management, in order to keep the balance between recreation and diversity. This is where Areas of Critical Environmental Concern (ACECs) come into play. ACECs are areas where the Bureau of Land Management (BLM) implements special protection and monitoring in order to preserve significant historical, cultural, or natural resource features.

The ACEC program began under the Federal Lands Policy and Management Act of 1976 (FLPMA). The FLPMA was enacted to ensure the protection of public lands while simultaneously allowing for recreation and use by the public. This act declares that "...the public lands be managed in a manner that will protect the quality of

scientific, scenic, historical, ecological, environmental, air and atmospheric, water resource, and archeological values." It also states that "Terms and conditions must minimize damage to scenic and aesthetic values and fish and wildlife habitat and otherwise protect the environment." The FLPMA is used by the BLM, National Forest Service, and National Park Service, but the BLM is unique in that it is the only agency to also use the ACEC designation.

In order for a parcel of land to become an ACEC, it must first be nominated. This nomination can come from individuals or organizations within or outside of the BLM. The nomination is then reviewed, and the land is evaluated to determine whether or not it

meets both relevance and importance criteria. Criteria include such things as presence of significant biological, cultural, or aesthetic value, or even human safety.

The Institute for Applied Ecology (IAE) works in agreement with the BLM to monitor plant communities and develop management plans within ACECs. Currently, IAE is conducting projects within five designated ACEC sites, and two proposed sites. One of these sites is Horse Rock Ridge, which is located northeast of Eugene in the western foothills of the Cascades. This is a particularly interesting site because of its high plant diversity, and also because it is accessible to the public. For a brief description of other ACECs that IAE is involved with, see Table 1.

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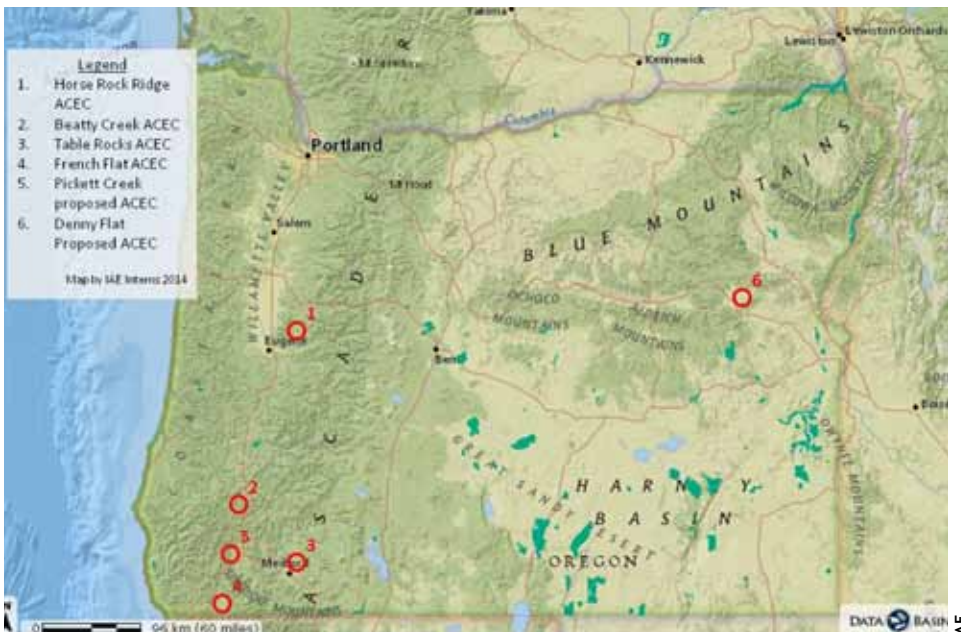
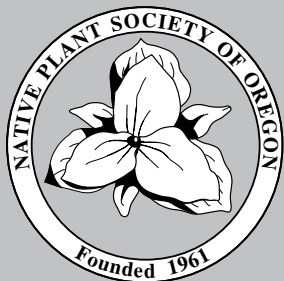


Figure 1: Map of current and proposed ACECs with IAE involvement in Oregon.

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Native Plant Society of Oregon

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To join, send a message to majordomo@tardigrade.net, with the following in the body of the message: `subscribe npsos`

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Looking For Northern Oregon Coast Native Plant Enthusiasts!

In the wake of the Native Plant Society of Oregon's successful 2014 Annual Meeting in Cannon Beach in June, local botanists are organizing a northern coastal chapter of NPSO, tentatively called Filipendula Chapter after the lovely endemic, *Filipendula occidentalis*, queen-of-the-forest. We plan at least four hikes per year in Clatsop, north Tillamook, and south Pacific counties. For more information and to add your name to the list of interested participants, contact Kathleen Sayce, ksayce@willapabay.org.



New Chapter on the Southern Oregon Coast

by Alexis Brickner, South Coast Chapter President

The South Coast Chapter of NPSO has been forming since March, with official acceptance by the State organization in June 2014. Our first "interest" meeting garnered 17 attendees and in May, 21 people joined us on our inaugural field trip as an unofficial chapter. Now that we are an official NPSO chapter, we wanted to introduce ourselves to the rest of the organization. Our group is made up of botanists, biologists, educators, gardeners, and general plant lovers wanting to increase their native plant knowledge. While most of our members reside in the Coos Bay-Bandon-Coquille area, we hope to fully embody the name "South Coast" by increasing membership in Curry County, perhaps forming a satellite group.

The southern coast of Oregon is lush with beautiful, unique flora and diverse habitats. South Coast chapter members hope to appreciate and learn from all that our region has to offer. While still figuring out what shape we want to take, there has been general consensus on chapter format. We will start out slowly with meetings every other month that will host a speaker and allow for discussion of chapter business. With the success of our first field trip last spring, we will be working hard to plan several more for next spring and summer in a variety of habitats. There has also been interest in helping with the Citizen's Rare Plant Watch to help update records of historic rare plant populations. Finally, we hope to partner with other local groups to educate our community on native plants through demonstration gardens, fundraisers, and presentations. We are lucky to have the director of Bandon High School's Go Native! project as a member. Go Native! is a native plant nursery managed by high school students and we hope to work with them on projects in the future to help inspire the younger generation to become native plant stewards.

Though still a small chapter, we are full of dedication, determination and high hopes to cultivate a chapter that will unite native plant enthusiasts along the southern Oregon coast.

NPSO CALENDAR

State Notes

State Board Meeting

October 18, Saturday, 9:45 am - 2 pm

The next meeting of the NPSO State Board will be in Eugene.

NPSO Annual Meeting 2015

May 29-31, Friday-Sunday

The Mid-Columbia Chapter will host the 2015 Annual Meeting of the Native Plant Society of Oregon in Hood River. Details will appear in future *Bulletins* and online.

Blue Mountain

For information on Blue Mountain Chapter call Jerry Baker, 541-566-2244.

Cheahmill

For more information, visit the chapter Web site, www.oregon-nativeplants.com. To be added to the e-mail list for upcoming programs and events, please contact cheahmillchapternpsocomcast.net.

October 23, Thursday, 7 pm

Program: Beach Grass Invasions and Their Influence on Dune Ecosystem Functions and Services. Dr. Sally Hacker, professor of ecology at Oregon State University, will explore how beach grass invasions have changed the dynamics of dune ecosystems and the protective services they provide. Dr. Hacker's research explores the structure, functions, and services of communities experiencing major plant invasions. Doors open at 6:45 pm for socializing, meeting/program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information, contact Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

November 20, Thursday, 7 pm

Program: Wilderness Act at 50. Come celebrate the 50th anniversary of the

Wilderness Act with Bridget Callahan, wilderness campaign organizer for Oregon Wild. Celebrate past victories, explore the value of wilderness, and identify present and future obstacles to expand Oregon's wilderness. Callahan will highlight the botanical treasures of the Kalmiopsis Wilderness, an area that is host to Oregon's highest concentration of rare plants, but is currently threatened by logging, mining,

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. **BRING WATER AND LUNCH.** Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. A sample waiver form is available at http://npsoregon.org/documents/NPSO_waiver.pdf. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Dogs are not allowed. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. You must pre-register for all events. National Forests require a Northwest Forest Pass for some field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12. A trip leader checklist and sample waiver form are available at: <http://npsoregon.org/calendar.html>

and illegal motorized vehicles. Doors open at 6:45 pm for socializing. Meeting/Program starts at 7 pm. Location: Carnegie Room, McMinnville Public Library, 225 NW Adams St. (corner of Hwy 99W and SW 2nd St.). Parking lot entrances on Adams and 2nd. For more information contact: Lisa Blackburn, 503-538-3976 or blackburnlisag@gmail.com.

Corvallis

For questions, information on upcoming events, or to be on the Corvallis chapter e-mail list, contact Jordan Brown at co_president@NPSOregon.org or 253-820-3934.

October 12, Sunday, 1-4 pm

Work Party: Avery House Native Plant Garden. We'll focus on fall pruning and making divisions of some of the native plants to pot up for the spring garden sale. Come prepared to work in the yard with gloves and some gardening tools. Snacks will be provided! Contact Esther at 541-754-0893 if you're interested, plan to come, or need more information.

October 13, Monday, 7:30 pm

Talk: Plant Communities of Florida. NPSO member Carolyn Kindell will take us on a tour of Florida's major plant communities, rare plants, and a history of land conservation and management in the state. She will discuss and have on hand a copy of the Atlas of Florida Biodiversity, published in 2011. Location: Avery House in Avery Park For information, contact Jordan at 253-820-3934 or brownj@science.oregonstate.edu.

Emerald

Visit the Emerald Chapter Web site at <http://emerald.npsoregon.org> to learn more about the latest chapter events, plant lists & botanical information about Lane County plants & the people who love them.

Meeting Location: Conference Room at Lane County Mental Health, 2411 Martin Luther King Blvd. Turn off

MLK Blvd. onto Scout Access Rd. across from Autzen and take the first left into the parking lot. The meeting room is on the right side as you face the building.

October 16, Thursday, 7 pm (new time!)

Program: 50 Native Trees and Shrubs for Northwest Gardens. Photographer and author Mark Turner will draw on his work in the new field guide, *Trees & Shrubs of the Pacific Northwest*. Learn to go beyond Oregon-grape, kinnikinnick, and red-osier dogwood in your garden. Learn the strengths (and weaknesses) of both evergreen and deciduous species. Including locally adapted trees and shrubs can save you money on your water bill while making your yard more attractive to wildlife. Meeting location: Conference Room at Lane County Mental Health, see above for directions. For more information call 541-349-9999.

November 20, Thursday, 7 pm (new time!)

Program: Willamette Forest Roads Investment Strategy. Virtually everything that people value in our National Forests touches, at some point, the road system. The Willamette National Forest is working on developing a strategy that will be used to guide road management decisions in the future. Matt Peterson, road investment strategy team leader, will describe how the Forest Service is developing the investment strategy and how the public can continue to be involved. Meeting location: Conference Room at Lane County Mental Health, see above for directions. For more information call Jenny at 541-225-6440.

High Desert

For information, visit the High Desert Chapter website: www.highdesertnpsoregon.org and Facebook page: Native Plant Society of Oregon: High Desert Chapter, or email highdesertnps@gmail.com.

Klamath Basin

For information, visit the Klamath Basin Chapter website: <http://klamathbasin-nps.com> or contact the chapter president,

Melissa Schroeder pres@klamathbasin-nps.com.

Mid-Columbia

For information on the Mid-Columbia Chapter, contact Sara Wu at wusara96@yahoo.com.

October 16, Thursday, 7 pm

Meeting/Program: Trout Lake Restoration Project. Keyna Bugner and Carolyn Wright of the Natural Areas Program, Washington State Department of Natural Resources (DNR), will describe the Trout Lake restoration project. The goal of the project is to improve habitat for the rare Oregon spotted frog and sandhill cranes. The presentation will give an overview of the history of the project and future plans to continue the work. A Saturday field trip to the Trout Lake Natural Area Preserve will provide in-person exposure to this project (see below). Location: Room 1.366, Columbia Gorge Community College, The Dalles.

October 18, Saturday, 10 am

Field Trip: Trout Lake Restoration Project. Keyna Bugner will give a tour of the Trout Lake Natural Area Preserve and its habitat restoration. We'll have lunch on site or in Trout Lake if the weather is bad. For those who want to see more of the site, we'll have the option of walking the interpretive trail after lunch. Location: meet at the Forest Service Office in Trout Lake at 10 am or at the Hwy 14 park-and-ride (west of the Hood River Bridge) at 9:20 am. Group size limited to 15. Pre-registration required; contact Keyna Bugner, keyna.bugner@dnr.wa.gov or 509-925-0906, for details and to register.

Portland

If you would like to receive the chapter's semi-official e-mail newsletter, The Calochortus, e-mail Don Jacobson at donjphoto@gmail.com.

Facebook: Take a look at our Facebook page. Native Plant Society of Oregon-Portland-Chapter. It will have the most up-to-date information on hike and other events as well as great plant

pictures.

Meeting location: The Portland Chapter meets the second Thursday of most months in the Metro Building at 600 NE Grand Ave., Portland. Enter from NE Irving St. on the north side of the building and walk across the upper plaza to the entrance (not the door on 600 NE Grand Ave.). An attendant will let you in and direct you to the meeting room upstairs. Meetings and programs begin at 7 pm.

October 4, Saturday, 9 am

Field Trip: *Abies* ("True" Firs) Hike. Led by Rick Shory, who has worked throughout the West as a Forest Service botanist. A little known botanical quirk: All the species of "true" fir (*Abies*) in the Northwest grow around Government Camp, on the southwest slope of Mt. Hood. Learn how to distinguish the various species of *Abies* and tell them apart from other genera of trees. Location: we will leave at 9 am from the NW corner of NE Pacific St. and NE 99th Ave. near Gateway MAX station. Or meet near Government Camp at 10:30 am. Contact Rick Shory, rickshory@gmail.com or 503-253-8100 to sign up and get location details. Round-trip from downtown Portland, about 140 miles.

October 9, Thursday, 7 pm

Program: The Siskiyou: Highlighting Over 20 Areas. NPSO member Jake Hurlbert will show photos and discuss the plants, mushrooms, and insects that he has documented for his Southern Cascade Ecological Study. The habitats in southern Oregon include Bigelow Lake, Dutchman Peak, Grizzly Peak, Wagner Butte, Mt. McLoughlin, and Upper and Lower Table Rocks. Meeting location: Metro building, see above for details. For information, contact Mary, alphiesmith@comcast.net or 503-288-4340.

October 15, Wednesday, 9 am (Portland) 10 am (Stabler)

Field Trip: Lichens of the Gifford Pinchot National Forest. Andrea Ruchty, botanist for the Mt. Adams Ranger District, will lead us on a trail near the Wind River Forest Service

Work Center in Stabler, Wash. We will learn to identify some of the major lichens in the lush forest, as well as their role as indicators of air quality. Bring a hand lens. You will find a lichen key in Pojar & MacKinnon's *Plants of the Pacific Northwest Coast*, but McCune and Geiser's *Macrolichens of the Pacific Northwest* has the best detailed coverage. Contact Nancy Chapman at chapmannj@comcast.net for exact meeting places and to sign up.

November 13, Thursday, 7 pm

Program: Forest Park: Portland's Greatest Natural Resource. Biologist Marcy Houle will discuss the natural ecology of Portland's Forest Park, one of the world's largest urban parks and our nation's only urban wilderness. Marcy has researched Forest Park for over 30 years and will highlight its history, detail the five things that make this park unique, and explain how we, as stewards, can protect its native plants and animals. Marcy will be selling her book, *One City's Wilderness: Portland's Forest Park* (3rd Ed). Meeting location: Metro building, see above for details. For information, contact Mary, alphiesmith@comcast.net or 503-288-4340.

Siskiyou

To join the Siskiyou Chapter email list: Send an email, from the address at which you want to receive announcements, to announce-join@siskiyou.npsoregon.org. No subject or message is required. You will get a confirmation email. If you would like to volunteer to lead a hike in 2014, make a suggestion, or provide feedback regarding the field trip program please contact Sasha Joachims at: sasharain71@gmail.com.

October 14, Tuesday, 7 pm

Program: In Praise of Woody Diversity. Join us for a presentation by Mark Turner, a professional photographer who collaborated with botanist Ellen Kuhlman on the recently published *Trees and Shrubs of the Pacific Northwest*. This is a special joint meeting with the Siskiyou Chapter of the North American Rock Garden Society. Meeting location: Medford Congregational United Church of Christ, Lidgate Hall, 1801 E. Jackson St., Medford.

For more information contact: Dave at 541-535-5355.

South Coast

This is a newly formed chapter. For more information, contact the chapter president, Alexis Brickner, alexis.brickner@gmail.com.

October 23, Thursday

Program: Autumn Meeting. The chapter will meet in Bandon. Specific time, location, and speaker to be determined. For more information contact Alexis Brickner at 860-878-2049 or alexis.brickner@gmail.com.

Umpqua Valley

Visit www.umpquavallemnativelplants.com for more information on chapter activities or to be added to our e-mail list.

Willamette Valley

For program information, contact John Savage at 503-399-8615 or Alexandra Ninneman at 503-391-4145.

October 28, Tuesday, 6:30-8:30 pm

Program: Chapter Meeting. We will hold a planning session to consider ideas for next year's programs, field trips, and projects. Both members and non-members are encouraged to attend and offer ideas for programs and/or projects they would like the chapter to pursue. Location: Straub Environmental Learning Center, 1320 A Street NE, next to Olinger Pool, near North Salem High. For more information, call John Savage at 503-399-8615 after 7 pm.

William Cusick

Visit our Web site at <http://williamcusick.npsoregon.org> or contact Susan Geer at 541-963-0477 or Emelie Montgomery-Jones at 541-963-3339 for updates and general information. Chapter notices and communications are done primarily through a Google group. Members are reminded to contact Susan or Emelie if they want to be added to the Google group, or if they do not have internet access and want to be contacted by phone for events.

OTHER EVENTS

Bush Barn Art Center

September 5-October 17, Daily except Mondays

Exhibit: In the Footsteps of David Douglas. This exhibition will highlight the life and accomplishments of Scottish botanist and explorer David Douglas and his contemporary legacy of plant collecting, documentation and illustration in the Pacific Northwest. The exhibit will include artifacts, herbaria samples, natural history literature, and educational displays illuminating Douglas's explorations in the Willamette Valley. A central focus of the exhibit will be a selection of natural science illustrations by contemporary artists. Location: 600 Mission Street SE, Salem. For more information, visit <http://salemart.org/programs/>

bush-barn-art-center/exhibitions or call 503-581-2228.

Straub Environmental Center

October 11-12, Saturday-Sunday

Nature Art Workshop: Botanical Drawing. Enjoy the simple art of drawing with a pencil while taking time to look and see the details and beauty in botanical subjects. Learn techniques for working with pen and ink, graphite pencils and color pencils. All experience levels welcome. Cost: \$125. Supply list will be provided upon registration. Location: Straub Environmental Center, 1320 A Street NE, Salem. For more information and to register, visit straubenvironmentalcenter.org/nature-art-workshops or call 503-391-4145.

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Deschutes Land Trust

October 25, Saturday, 3:30-6:30 pm

Fall Colors Hike: Rimrock Ranch.

Join the Land Trust and Mary Crow to explore this spectacular private ranch perched above Whychus Creek near Sisters. See unique rock formations, walk along the banks of the willow and cottonwood lined creek, and learn about the ranch's ecology and conservation while you revel in the fall colors on this challenging 3 mile hike. Bring snacks, water, sturdy hiking shoes. Dress for the weather. Registration is required; visit deschuteslandtrust.org/events/hikes or call 541-330-0017 for more information and to register.

October 25, Saturday

Estacada Festival of the Fungus. Enjoy

the fabulous fungi in the form of an art show, food, and education. Get up close to wild mushrooms, eat edible mushrooms, and meet vendors displaying their fungus fun artwork. Get the dirt on poisonous mushrooms and check out other wild fungi, from the wonderfully medicinal to the really strange. For more information, visit estacadafungus-fest.com.

Mount Pisgah Arboretum

October 26, Sunday, 10 am-5 pm

Mushroom Festival. This annual event includes a huge mushroom exhibit, live music, scarecrow contest, apple pressing, kids' activities, food & wine, arts, crafts, & books. No dogs, please. Suggested donation: \$8 per person, children under 12 free. Location: Mount Pisgah Arboretum, 34901 Frank Parrish

Rd, Eugene. Free shuttle from Civic Stadium every hour on the hour. For more information, visit mountpisgaharboretum.com/festivals-events/mushroom-festival or call 541-747-3817.

Siskiyou Field Institute

November 7-9, Friday-Sunday

Class: Forest Mushrooms of Southwest Oregon/Northwest California.

Learn wild mushroom biology, ecology, taxonomy, and field ID with David Lebo. We'll spend Friday afternoon in class learning about fungi, then drive the scenic Smith River Gorge Saturday while looking for mushrooms on the Six Rivers National Forest. Sunday we'll continue mushroom forays along the southern Oregon Coast. Tuition: \$155. For registration or more information, call 541-597-8530 or visit thesfi.org.



Supporting the Cause of Your Choice – It's Never Been Easier

How concerned are you about the quality of air you breathe? What about the natural areas you visit – would you like to visit them 10, 20 or 50 years from now? With ongoing threats to our natural environment, we count on conservation groups to protect our forests, farmland, streams and air quality.

NPSO is a member of EarthShare Oregon, a nonprofit that allows employees across Oregon to support nearly 80 of the best environmental organizations here at home, and coast to coast.

If you work for the State of Oregon, the federal government, Kaiser Permanente, NW Natural, PGE, or one of more than 100 employers (<http://earthshare-oregon.org/campaigns/workplace-partners>), you can make one-time or regular donations

from your paycheck – just by signing up once a year. It's simple and easy.

Please contribute today through EarthShare to restore our forests, reduce landfill waste, develop clean energy, protect threatened land, and safeguard our streams. When you do, you're not only protecting Oregon's environmental legacy, you're inspiring others to share in that responsibility.

If your workplace does not offer EarthShare Oregon, establishing a partnership is easy. EarthShare staff will work with your employer to set up a program that meets your company's needs.

For more information, please contact Jan Wilson at 503-223-9015 or jan@earthshare-oregon.org. And visit us at earthshare-oregon.org.

Is the e-Bulletin for You?

We are pleased to offer the option to receive the *Bulletin* in electronic form. An email would be sent to you with the *Bulletin* attached as a PDF file and a link from which you can access the file on the Web. This *e-Bulletin* would replace the paper copy you receive every month in your mailbox. If you would like to receive the *e-Bulletin* rather than the paper copy, please email membership@NPSOoregon.org from the email address at which you want to receive it. Also, include your name as it appears on the mailing label of your paper copy.

Horse Rock Ridge was nominated as an ACEC in 1984 as an example of a mid-elevation, grassy “bald” (treeless) area interspersed with stands of young and old-growth trees. The 378 acre site occurs along the western margin of the Cascade foothills in Linn County, Oregon. This area is characterized by open, south-facing slopes, with shallow soils studded with rocky outcrops. Horse Rock Ridge is unique in that it is home to both western and eastern Cascade-specific plants, as well as species common to both low elevation grasslands and higher elevation mountainous regions. IAE began a partnership with the BLM on Horse Rock Ridge in 2006. Their goal was to create a multi-faceted study on native plant communities and invasive species encroachment, as well as test the effectiveness of various habitat restoration approaches. Some of the restoration approaches include noxious weed removal, seed collection, native species seeding and native species out-planting.

IAE has chosen to focus on several common nuisance species, which occur in small patches or as individuals within the Horse Rock Ridge community. These species include *Sonchus asper*, *Tragapogon dubius*, *Rumex crispus*, and *Rubus* sp. More ubiquitous species such as *Cynosurus echinatus*, *Leucanthemum*



Figure 3: Native grass species ready for outplanting. From Left to Right: *Koeleria macrantha*, *Bromus carinatus*, *Festuca roemerii*, *Stipa lemmonii*, *Poa scabrella*, and *Danthonia californica*.

vulgare, and *Hypochaeris radicata* were not the main focus of our efforts as their populations are wide-spread and dense. These species were removed only in areas where complete eradication was possible. Experimental plots were established to test the efficacy of invasive species removal and native species establishment using methods such as solarization (eradicating weeds by using tarps to trap solar heat), carbon addition to the soil, and weeding, followed by native seeding. All treatments, including carbon addition, solarization and seed addition, decreased invasive cover while increasing native grass and forb cover. Our data suggest that a low

abundance of native seed may be one of the strongest limiting factors of native plant dispersal and recruitment, making native plant reintroduction a potentially strong tool for invasive displacement and eradication.

Grass and forb species such as *Danthonia californica*, *Elymus glaucus*, *Koeleria cristata* (synonym of *K. macrantha*), *Stipa lemmonii* (synonym of *Achnatherum lemmonii*), *Balsamorhiza deltoidea*, *Erigeron compositus*, *Eriophyllum lanatum*, *Mimulus guttatus* (synonym of *Erythranthe* spp.), and *Potentilla glandulosa* (synonym of *Drymocallis* spp.) were chosen to be part of the reintroduction efforts due to their hardiness and ability to grow and reproduce quickly. Seeds for these species were collected on-site to use in both future reseeding efforts and offsite propagation. Since seed supply is limited and cannot cover the entire scope of Horse Rock Ridge, we focused on creating biodiversity “islands,” which promote connectivity and genetic diversity within native populations. Native wildflower bulbs and seeds were also added to increase diversity. These robust islands will add to the native seed bank and deter non-native invasion; their natural expansion will also contribute to our reintroduction efforts. Although IAE’s current partnership on Horse Rock Ridge is set to end in 2014, the data collected from our studies can be used as a management tool for future



Figure 2: Horse Rock Ridge ACEC.

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restoration.

Areas like Horse Rock Ridge, which are accessible to the public, need to be treated with special care. These areas are frequently visited due to their scenic views, biological diversity, and hiking trails. As public lands, they are meant to be enjoyed and appreciated, but because of their sensitivity, they must also be used with respect. Some

common disturbance problems include use of all-terrain vehicles (ATVs), off-leash dog activity, camping in non-designated areas, litter, trampling, and inadvertent introduction of invasive species. Treating these areas with special consideration is an important part of ensuring that they are around for future generations to enjoy.

For more information on these and other projects, please visit IAE's

“Adventures in Conservation Research” blog at research.appliedeco.org. For information on IAE/NPSO internship opportunities, please contact Matt Bahm at mattab@appliedeco.org, or visit appliedeco.org. We thank NPSO for contributing to botanical education and work experience for tomorrow's environmental leaders.

Table 1: ACECs where IAE has assisted with monitoring

Site	Classification Date	Reason nominated	Threats	Special considerations	Acreage
French Flats	1995	Several rare plant species including <i>Lomatium cookii</i>	Illegal ATV use, proposed mining operations.	Previous mining activity has altered the natural hydrological pattern here, affecting diversity.	656 acres
Table Rocks	1986	Several rare species, such as <i>Limnanthes pumila</i> and cultural significance to local Native American tribes.	ATV use, anthropogenic disturbance, and pollution.	Formal management partnership established between the BLM and the Confederated Tribes of Grand Ronde and the Cow Creek Band of Umpqua Tribe of Indians.	1,200 acres. An adjacent 3,600 acres is similarly managed.
Beatty Creek	1995	<i>Eucephalus vialis</i> and <i>Calochortus coxii</i>	Adjacent logging and development.	Many serpentine-specific plants and bryophytes. Low levels of exotic species.	850 acres
Coos Bay North Spit	1995	Several endangered plants including <i>Cordylanthus maritimus</i> ssp. <i>palustris</i> (synonym of <i>Chloropyron maritimum</i> ssp. <i>palustre</i>) and <i>Limonium californicum</i>	ATV use in sensitive areas, invasive species encroachment.	It has been hypothesized that the lack of disturbance has allowed <i>L. californicum</i> to out-compete the <i>C. maritimus</i> ssp. <i>palustris</i> in these protected habitats.	725 acres
Pickett Creek	Nominated 2007	<i>Fritillaria gentneri</i>	Currently lacks ACEC protected status.	Many serpentine specialized plants.	89 acres
Denny Flat	Nominated 2010	<i>Lupinus lepidus</i> var. <i>cusickii</i> , greater sage grouse	Currently lacks ACEC protected status.	Known to host leks (special mating areas) for greater sage grouse.	3,842 acres



NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

Check to receive electronic *Bulletin*, sent by email in lieu of paper.

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Native Plant Society of Oregon

P.O. Box 80714

Portland, OR 97280

DUES include monthly *Bulletin* and *Kalmiopsis* when published.

Membership is for the calendar year. New memberships enrolled after July 1 include the following year.

New Renewal

Student – \$12 Regular – \$25 Family – \$35

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Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and changes of address (include old address) should be sent to the Membership Chair. Changes of address may also be e-mailed to Membership@NPSOregon.org.

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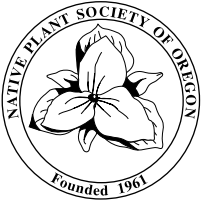
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We are close—very close—to submitting the manuscript of the first volume of the *Flora of Oregon* to the publisher. It is exciting to bring so many years of work to completion and produce this much-anticipated reference in a book format. It will provide the public with the first complete flora of our state in over a half-century!

There are up-front costs associated with publishing a hardbound flora for which the OFP will be responsible. This is an expense beyond our normal operating budget. The \$10,000 challenge grant offered by the state NPSO and the contributions it inspires can be a significant input toward printing costs. Please help us meet this challenge

by making a donation now, thereby doubling the impact of your gift.

Contributions can be made online through our website (www.oregonflora.org/supportOFP.php), or mailed directly to: Agricultural Research Foundation, 1600 SW Western Blvd Suite 320, Corvallis, OR 97333. Please make checks payable to the Ag. Research Foundation, and include “Oregon Flora Project” on the memo line.