



# Bulletin

of the

## Native Plant Society of Oregon

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

VOLUME 40, No. 1

JANUARY 2007

### Intern Report

## The Effects of Invasive Grasses and Recreation on Dwarf Wooly Meadowfoam

by Patricia Wallace

The following article on dwarf wooly meadowfoam on Table Rocks ACEC is part of a series in which NPSO/Institute for Applied Ecology (IAE) interns discuss their activities during the 2006 field season. Interns participated in rare plant monitoring, restoration, floristic surveys, and other research projects conducted by IAE staff throughout Oregon during the past summer. In this article, Patricia Wallace discusses efforts in collaboration with the Medford District BLM to determine the effects of invasive grasses and recreation on dwarf wooly meadowfoam, which is endemic to the Table Rocks. For more information on internship opportunities, please contact IAE at [athorpe@peak.org](mailto:athorpe@peak.org), 541-753-3099 or visit [www.appliedeco.org](http://www.appliedeco.org). Thanks again to NPSO for contributing to botanical education and work experience.

-Andrea Thorpe, Institute for Applied Ecology

Driving from Missouri to Oregon I was amazed by the diversity of landscapes as I traveled from state to state. However, nothing prepared me for the drastic differences of Oregon's landscape. Rocky costal shores, smooth sandy beaches, high mountain peaks, and a flat, productive valley that boasts crops from grasses to grapes; I was impressed to say the least. The internship with the Institute for Applied Ecology took me to the many parts of Oregon, from Ashland to Tygh Valley; I have seen some great sites. Never have I seen so much beauty, the memories are forever and the pictures are simply bragging rights. With the Institute I have learned more about native and invasive Oregon plants than any type of classroom could teach me. It has been a great and welcoming experience.

My first outing had us driving down the long stretch of I-5 to the Medford area. Our destination was upper and lower Table Rocks ACEC (Area of Critical Environmental Concern), managed by the Bureau of Land Management and The Nature Conservancy. Table Rocks are mesa

buttes formed by a lava flow 7.5 million years ago; steep sides are visible from the road, dark and jutting. These areas were very culturally significant; the Takelma Indians enjoyed the rich abundance of food resources available on and around these landmarks and they were an important gathering place for settlers along the Oregon-California trail<sup>1</sup>. In the spring, the tops of the rocks are dotted with vernal pools that are filled with tadpoles and fairy shrimp.

In 2005, our research focused on upper Table Rock, although future research will be conducted on lower Table Rock. The hike up is about 2.5 miles on a steep, switch-back trail; the view is well worth the hike. Table Rocks has a variety of beautiful spring flowers, a few that are endemic to (only found) there. Our main focus was the rare endemic, *Limnanthes floccosa* spp. *pumila* (dwarf wooly meadowfoam). It is listed as an Endangered plant by the state of Oregon<sup>2</sup>.

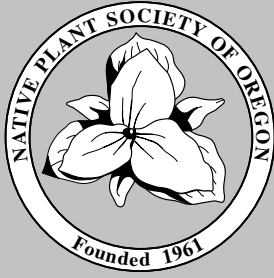
*Limnanthes* is short and somewhat sprawling with reddish stems that come from the ground (~1-4"). *Limnanthes*

is an annual that produces seed from small white flowers, with 5 sepals and petals. The leaves are delicate and broken into fine leaflets. *Limnanthes* seems to prefer areas that are not heavily covered by grass. Plants found in grassy areas were small or had already fruited.

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## Native Plant Society of Oregon

### World Wide Web

<http://www.NPSOregon.org>

### E-mail Discussion List

To join send a message to [majordomo@tardigrade.net](mailto:majordomo@tardigrade.net), with the following in the body of the message: subscribe npsos

### General Business Address

P.O. Box 902  
Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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The submission date is the 10th of each month for the following month's issue except for the Aug./Sept. issue which is July 24. Send submissions by e-mail to [bulletin@NPSOregon.org](mailto:bulletin@NPSOregon.org).

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.

## Grant Proposals Requested

NPSO will continue to sponsor small field research grants. The objectives of the program are: 1) to stimulate basic field research into the biology and distribution of Oregon's native and naturalized flora and vegetation, particularly in the more remote areas of the state, and 2) to promote native plant conservation through better understanding of Oregon's flora and vegetation and the factors affecting their survival.

### For a copy of the program policy and guidelines contact

Dan Luoma  
Field Research Grants  
Committee Chair  
3740 NW Harrison Ave.  
Corvallis, OR 97330  
541-752-8860

or visit NPSO's web site, [www.NPSOregon.org/comm/FRGC.htm](http://www.NPSOregon.org/comm/FRGC.htm).  
Research proposals are due by March 1.

## Call For Papers

The new issue of *Kalmiopsis* has been published, which means that I'm looking for articles for next year. All materials submitted should pertain to Oregon's native vegetation and flora. *Kalmiopsis* publishes two series articles: Plant of the Year, and Oregon Plants, Oregon Places, as well as articles about historical botanists and other features related to native plants or plant communities in Oregon. Please refer to previous issues of *Kalmiopsis* for length and content of articles; maximum length is 5,000 words. I would like to extend a particular invitation to authors writing about parts of Oregon not recently covered in *Kalmiopsis*. Contact the editor (me) for a copy of "Instructions to Authors" or to place your name on a call list for writing book reviews.

Cindy Roché,  
P.O. Box 808,  
Talent, OR 97540,  
[kalmiopsis@npsoregon.org](mailto:kalmiopsis@npsoregon.org)



TANYA HARVEY

*If we don't brave the weather to head outside in the winter, we might miss the ephemeral beauty of a variety of mosses embellished with morning frost.*

## State

**January 20, Saturday, 10 am**

**State Board Meeting:** The Emerald Chapter will host the next quarterly state board meeting at Lane Community College. For more information call Dave Predeek at 541-345-5531.

**May 4-6, 2007**

**Annual Meeting:** The Mid-Columbia Chapter will host this year's NPSO Annual Meeting in Mosier. Look for more details and registration information in upcoming issues of the *Bulletin*.

## Blue Mountain

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

## Cheahmill

For more information visit the chapter website: [www.oregon-nativeplants.com](http://www.oregon-nativeplants.com)

**January 25, Thursday, 7 pm**

**Meeting: Bloom of the Century, Part II.** Enjoy a photo journey through the deserts of southern California depicting the spectacular winter wildflower display of 2005. Dan Luoma and Joyce Eberhart share their experiences of what has been described as a "once-in-a-life-time" explosion of floristic exuberance. Carnegie Room, McMinnville Library, 225 NW Adams St. More info? Contact Susan Williams at 503-538-1865 or [helgesusan@comcast.net](mailto:helgesusan@comcast.net).

## Corvallis

*Special note to Corvallis members: Do you know that we have a chapter email list? If you would like to receive monthly reminders about NPSO activities please send an e-mail to [mattbs@peak.org](mailto:mattbs@peak.org)*

**January 8, Monday, 7:30 pm**

**Meeting: The Biscuit Fire and the Flora of Serpentine Darlingtonia**

**Fens: Can they stand the heat or did they get out of the kitchen?** Jen Cramer will discuss the results of her research examining serpentine Darlingtonia fens of the Klamath-Siskiyou region following the Biscuit Fire of 2002. Jen will share her results, natural history of these intriguing wetlands, beautiful photos, and creative speculation on the evolutionary significance of fire in the fens.

**January 20, Saturday, 10 am**

**Workshop: Growing Native Plants from Seed.** We'll teach you the techniques required to start growing more

plants than you'll know what to do with! Bring seeds of native plants that you have collected and share your bounty with other members. Also bring tags and lots of small pots or seedling trays. We'll provide soil. Meet at OSU at the northwest corner of Cordley Hall near the greenhouses. Arrive promptly since the doors are locked on the weekends and we will be working indoors. For directions or information contact Matt Blakeley-Smith 541-752-1091 [mattbs@peak.org](mailto:mattbs@peak.org)

## Emerald

*Please note all Emerald Chapter presentations will now be held at the Eugene Water and Electric Board Training Room at 500 East 4th Avenue in Eugene. From the Fifth Street Market go one block north and one block east. For more info call David at 541-746-9478.*

**January 15, Monday, 7:30 pm**

**Meeting: Liverwort Dreams.** Dr. David Wagner is on the verge of publishing a *Guide to Oregon Liverworts*, to be offered on CD. He will preview some of the beautiful images prepared for the guide to show the unusual form, symmetry and grace of these under-appreciated plants. EWEB Training Room, 500 East 4th Avenue, Eugene. Call 541-746-9478.

**February 19, Monday, 7:30 pm**

**Meeting: The Exquisite Orchids of Oregon.** Charlene Simpson will touch on the diverse morphology, habitat and reproductive strategies of orchids, illustrated with her archive of native plant photos. She will also explore pollinator specialization and obligate mycorrhizal associations. EWEB Training Room, 500 East 4th Avenue, Eugene. Call 541-465-1059.

**March 19, Monday, 7:30 pm**

**Meeting: Private Land Conservation in Lane County.** Executive Director of McKenzie River Trust, Joe Moll will describe how land trusts work to

### 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. For a sample copy check out the NPSO website. 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. National Forests require a Northwest Forest Pass for many 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.

protect the plants, animals and natural communities of Lane County. MRT owns 1,000-acre Green Island but also works with other landowners to protect a variety of habitats. 7:30 pm, EWEB Training Room at 500 East 4th Avenue, Eugene. Call 541-345-5531.

## High Desert

For information on the High Desert Chapter call Berta Youtie at 541-447-8166.

## Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, [smalaby@cs.com](mailto:smalaby@cs.com).

## Mid-Columbia

**January 11, Thursday, 7:30 pm**  
**Meeting: Gorge Spring Wildflowers,** a new video by Jerry Igo. Shrug off your icicles, kick the snow away and come to the meeting tonight at the Commodore Hotel Meeting Room, 3rd & Court Street, The Dalles.

## North Coast

Wanted, new members for our group, located in Tillamook County. Trips subject to suggestions. Please phone Janet Stahl at 503-842-8708.

## Portland

**January 11, Thursday, 7 pm**  
**Meeting: Texas Wildflowers.** Linda Hardie will present a program on an April 1999 trip driving from Austin, Texas across the Edward's Plateau west to The Nature Conservancy's Dolan Falls Preserve at the Devils River. The trip included a stop at the Lady Bird Johnson Wildflower Center and many stops along the way to enjoy the beautiful spring wildflowers. Room #202, First United Methodist Church, 1928 SW Jefferson St., Portland; located just uphill from the Goose Hollow MAX station.

## Siskiyou

**January 18, Thursday, 7:30 pm**

**Meeting: Looking Forward to Springtime Wildflower Hikes.**

Wildflowers? Hiking? What a great combination! Plan your spring and summer wildflower excursions with Elizabeth L. Horn, author of *Oregon's Best Wildflower Hikes: Southwest Region*, published in 2006. Beth will share her favorite wildflower haunts and trails in southwest Oregon with you. She will have some copies of her book available for purchase and will be happy to sign them. Beth is also the author of wildflower guides to the Pacific Northwest Coast, the Cascades, and the Sierra Nevada. Her article "The Botanists at Crater Lake National Park" appeared in the 2005 issue of *Kalmiopsis*. She has been monitoring the Pumice Desert in Crater Lake National Park for over 40 years. Beth currently resides in West Yellowstone, MT. Room 171 of the SOU Science Building, Ashland. For more information call Alex Maksymowicz at 541-482-1964.

## SOU Herbarium Now Open to the Public

NPSO volunteers will open the SOU Herbarium on the first Friday of each month from 3–5 pm as well as on the third Thursday from 7–7:30 pm immediately preceding the NPSO meeting. The Herbarium is located in the SOU Science Building, Room 206. Call 488-0368 for information.

## Umpqua Valley

For information on the Umpqua Valley Chapter, contact Sam Friedman, [uv\\_president@NPSOregon.org](mailto:uv_president@NPSOregon.org) or 541-673-0589.

## Willamette Valley

**January 18, Thursday, 7 pm**

**Program: Bloom of the Century.**

Enjoy a photo journey through the deserts of Southern California depicting the spectacular winter wildflower display of 2005. Dan Luoma and Joyce Eberhart share their experiences of



*Early morning light catches Great Meadow and Mt. McLoughlin, Winema National Forest. From Beth Horn's Oregon's Best Wildflower hikes: Southwest Region. Learn from Beth about more great places to look for wildflowers at Siskiyou chapter's January meeting.*

ELIZABETH HORN

what has been described as a “once in a lifetime” explosion of floristic exuberance. They will also discuss the possibility that such occurrences may be more common. Straub Environmental Learning Center (1320 A Street NE, near Olinger Pool). Free and open to the public. For more information, please call 503-399-8615.

### January 23, Tuesday, 7 pm

#### Program: Map and Compass Basics.

Steve Dougherty, president of the Chemeketans outdoor club, will teach a class on how to use maps and a compass to find your way in the outdoors. Sponsored by the Friends of the Straub Environmental Learning Center, a nonprofit organization dedicated to environmental education, the class is part of the organization's Amateur Naturalist Series. It will be held in the learning center classroom located at 1320 A Street NE—near Olinger Pool. Free and open to the public. For more information, please call 503-399-8615 or 503-391-4145.

### January 27, Saturday, 9 am

#### Workshop: Go Native with Plants.

A four-hour workshop covering best plants and landscaping practices, native pollinators, weeds and ethnobotany will be held at the Peoples Church, 4500 Lancaster Drive NE, Salem. Co-sponsored by the Willamette Chapter of NPSO, Marion Soil and Water Conservation District and Polk Soil and Water Conservation District. Registration deadline is January 16. Call Janice Bryant at 503-391-9927 to register or for more information. Free and open to the public but please bring canned foods for the Marion Polk Food Share.

## William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

## NPSO Items for Sale

***Vascular Plants of Lane County, Oregon: An Annotated Checklist*** Emerald Chapter, NPSO. More than 1,740 species and varieties representing 39% of the 4,460 plants currently recognized by the Oregon Flora Project are listed with information on habitat, ecoregion, occurrence frequency, and native or non-native origin for every species. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

***The Atlas of Oregon Carex*** was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each *Carex* taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

***Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany*** by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Fourth printing, February, 2004. **Price \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

**NPSO Membership Directory** lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2005). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

**Oregon's Rare Wildflower Poster** depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. **\$12 each**, plus \$3 shipping per order. Posters are mailed in tubes.

**NEW Salal T-shirt.** Attractive forest green t-shirts with botanical drawing of *Gaultheria shallon* in cream-colored ink by Carlton, OR artist and Cheahmill Chapter member, Marilyn Karbonski. High quality t-shirts, S–XL, short sleeve **\$15 plus \$5 shipping.** To order, call Jennie Sue Dunn-Dixon at 503-472-1745.

**“Land of Umpqua” T-Shirt** featured at the 2005 Annual Meeting is available again through the Umpqua Chapter. It depicts the delightful *Calochortus umpquaensis* illustrated by Dorothy Schattenkerk and in cream, purple, yellow, and green. Arched over the top in black letters are the words “Land of Umpqua”, and underneath it says, “Native Plant Society of Oregon.” The shirts are **\$16 plus \$5 shipping** and come in light gray, beige, pink or light blue in sizes M, L, and XL. To order call Ron Hatt at 541-863-7024.



## OTHER EVENTS

### Mt. Pisgah Events

34901 Frank Parrish Rd. (off of Seavey Loop Rd.), Eugene. For more information or to register call 541-747-1504 or visit [www.efn.org/~mtpisgah](http://www.efn.org/~mtpisgah).

#### Drawing Winter Trees

**January 13, Saturday, 1 – 4 pm**

Join Natural Science Illustrator, Kristine Kirkeby, and study the shapes of tree and learn how to best visually depict their characteristics. Basic drawing skills and lessons will be used to produce sketches with form and texture, with hints on how to add foliage come spring. At the Arboretum's Office. Pre-registration required. Fee: \$20 (\$15 MPA members).

#### Nature Journaling

**January 20, Saturday, 10 am – 2 pm**

Slow down and spend a day immersing yourself in nature. Learn to preserve found objects in the forest like a beautiful leaf, feather or pattern on a lichen. Longtime Eugene resident, Kermit Horn, conducts many nature journaling classes to guide children and adults to the out-of-doors. At Visitor Center. Pre-registration required. Fee: \$17 (\$15 members.) Materials provided.

### Siskiyou Field Institute Course

To learn more about courses or to reserve your place, visit [www.thesfi.org](http://www.thesfi.org) or call 541-597-8530.

#### Winter Ecology

**February 16 (evening only) and 17 Ashland, OR**

Strap on some snowshoes and explore the winter world of Mt. Ashland! Naturalist Kristi Mergenthaler will lead us in discovering the ingenious ways plants and animals adapt to a life in the cold and snow. We'll start Friday evening with a presentation and head out to the snow all day Saturday. We'll practice winter plant identification and learn how to interpret animal signs. Moderately strenuous snowshoeing—beginners are welcome! \$65 per person.

#### Moss and Fern Walk

**January 20, Saturday, 1 – 3 pm**

Identify mosses and ferns, and learn about their unique life cycles and growth habits. Botanist and Eugene Natural History Society president David Wagner leads this walk. Meet at the Visitor Center. Suggested donation: \$3 (MPA members free.) Rain or shine.

#### Nature Photography in a Digital World

**January 28, Sunday, 1 – 4 pm**

**February 7, Wednesday, 6:30 – 8:30 pm**

Making the move into digital photography? You don't have to leave the natural world behind. Join professional photographer David Stone, and take the mystery out of all those knobs, wheels and buttons on that little computer-with-an-eye you got at the end of December. If you're still contemplating the purchase of a digital camera, this workshop will help you decipher the technical jargon the ads tout so that you can make an informed selection. At Visitor Center. Fee: \$20 (\$17 MPA members.) Pre-registration required.

### Nearby Nature Quest Event

#### Water Wonders

**January 20, Saturday, 1 – 3 pm**

**Alton Baker Park, Eugene**

Celebrate the abundance of water that makes life in the Willamette Valley so rich and varied. Enjoy a family-paced hike, a snack, and a visit from a costumed Kinder Critter. Meet outside the Park Host Residence in Alton Baker Park (between dog run and community gardens), \$2/person or \$5/family, pre-registration suggested, 541-687-9699.

### Native Plants and Permaculture

Planning is now underway for an event in which all NPSO members are invited to participate: "Native Plants and Permaculture: A Gathering of Plant Enthusiasts," to be held May 11-13, 2007 (Friday afternoon-Sunday) at Lost Valley Educational Center, Dexter, OR. We will be seeking common ground between the Native Plant and Permaculture communities in developing ecologically-integrated self-sustenance and native habitat preservation in the Pacific Northwest. Pre-registration will begin in February; to learn more details as they develop, or to express interest in presenting or attending, please check [www.lostvalley.org/nature](http://www.lostvalley.org/nature) or contact Lost Valley Nature Center, attn.: Chris Roth, 81868 Lost Valley Lane, Dexter, OR, 97431, [chris@talkingleaves.org](mailto:chris@talkingleaves.org), 541-937-2567 ext. 116.

### Institute of Contemporary Ethnobotany Events

For more information contact Tobias Policha at 541-513-8263 or [contemporaryethnobotany@yahoo.com](mailto:contemporaryethnobotany@yahoo.com) or visit [www.foodnotlawns.com](http://www.foodnotlawns.com)

**January 14, 21 & 28, 1 – 6 pm**  
**Basic Concepts in Biochemistry: Protons to Polysaccharides.**

This series is intended to provide a basic understanding of biochemical concepts and enable students in further research. We will cover molecular structure, chemical reactions, metabolism, solubility & families of compounds. No prior chemistry experience required. At the Strawbale at the Maitreya eco-village (Broadway between Almaden & Chambers, Eugene). \$50-150 sliding (for 3 classes)

# Update On The Oregon Flora Project

by Linda Hardison, OFP Director

The NPSO has been a sponsor of the Oregon Flora Project (OFP) since its inception in 1994. Many within this society have played a key role in the growth and development of the OFP, and are well acquainted with our goals and progress. However, I realize that some may not be familiar with what we do and its relevance to the mission of the NPSO. This article is to reacquaint or enlighten readers with some details about the Oregon Flora Project.

The mission of the Oregon Flora Project is to serve as the primary steward of Oregon's botanical knowledge and to foster effective use of this knowledge by all citizens. There are four key features we are creating to accomplish this mission: a Checklist, an Atlas of plant distributions, a Photo Gallery, and a Flora. While each facet is independently valuable, in combination they make an unparalleled resource on the vascular plants of Oregon. Each is also an essential building block for the completion of the project's namesake—a Flora of Oregon. Below is a brief synopsis of each facet:

- For the past several years, work on the **Checklist** has focused an intense effort to assess taxonomic concepts for all Oregon plants. Dozens of botanists have contributed their expertise by preparing checklist treatments for genera. In early 2007 these will undergo a Checklist committee review, and will culminate in the release of a working version of the Checklist.
- The **Oregon Plant Atlas**, accessible online at [www.oregonflora.org/oregonplantatlas.html](http://www.oregonflora.org/oregonplantatlas.html), is a popular tool for mapping plant distributions. The NPSO plays an important role in the development of the Atlas by coordinating data-gathering on Society field trips. The Atlas is used by outdoor enthusiasts, land use planners, educators, and historians, and is a vital resource for botanists in state and federal agencies.

- The **Photo Gallery** has benefited greatly from the donation of thousands of images of Oregon plants, coupled with countless volunteer hours spent cataloging, databasing, and confirming identifications. The information imparted by photographs aids both amateurs and professionals in identifying and understanding the biology of plants, and will be a valuable on-line component of the OFP.
- The **Flora** will be written with a dichotomous key, and appear in book form. It will also be presented online with a multiple-entry key based on a database of morphological characters. The database will be compiled concurrently with the floristic treatments.

The Digital Field Guide will be the mechanism by which users can access the information of the OFP. We continue to work at curating the data and images to be presented, and the software support is provided *pro bono* by Sherry Pittam from NACSE (our collaborators on the now-expired grant to create the DFG).

Funding for the OFP has historically come from the following sources: federal grants shared with the Herbarium and NACSE; an exclusive

grant from the BLM; small grants (<\$15,000) from the US Forest Service, regional foundations, and industry; sponsorship by the NPSO; and donations from individuals. Our funding for the next six months will come from small grants from Oregon State University, USDA, Michigan Natural Features Inventory, and from individual donors. We have three staff members working a total of 1.89 full-time equivalents, and several student employees. With this minimal staffing, our annual budget is ~ \$114,000.

Both the data and the processes that the OFP has developed are of value to a broad spectrum of users. We are participating in collaborative efforts to develop internet portals for botanical data from the Pacific Northwest and the Intermountain West regions. We also place great importance on being a resource for all users. Our work exhibits the highest scientific standards, and it is also accessible to non-professionals.

In the coming year our goals include: preparing the morphology database and its associated multiple entry key for the grasses and the gymnosperms, release of the Checklist, an update of the Atlas, and a draft release of the Digital Field Guide. We also propose to refine the infrastructure of the OFP.

## Friends of the Oregon Flora Project Challenge Drive!

Our 2006–2007 Challenge Drive, with \$25,000 in matching funds, is still in effect. Your contributions to the Oregon Flora Project fund salaries of the staff who, with assistance from volunteers, will accomplish our goals. Your support is vital, and creates a lasting impact on our knowledge of Oregon's plant life. Please consider a generous gift in support of the OFP! All donations are tax-deductible. Make checks payable to NPSO (attn: OFP), and mail to: Friends of the Oregon Flora Project, P.O. Box 402, Corvallis, OR 97339-0402.



[www.oregonflora.org](http://www.oregonflora.org)

## Dwarf Woolly Meadowfoam

continued from page 1

The majority of plants were found in recently dried areas of vernal pools where the grasses were slower to invade. Our goal was to establish research plots that would monitor the impacts of recreation and invasive grasses, especially medusa head (*Taeniatherum caput-medusa*), on *Limnanthes*.

To monitor the impacts of invasive grasses we set up 2-m<sup>2</sup> plots and determined the percent cover of *Limnanthes*. We divided each plot into two equal halves and randomly sampled ten of the plants, counting the number of leaves and flowers, from each half. We removed all grasses from one half of the plot and left the other half untouched to use as a control. The purpose of these plots was to determine if manual grass removal would have a negative impact on the invasive grasses and/or a positive impact on *Limnanthes*.

We are using both experimental and observational methods to determine the impacts of recreation on *Limnanthes*. Our experimental plots



Experimental plot to determine the effects of removal of invasive grasses on *Limnanthes* on upper Table Rock ACEC. All grasses had been manually removed from the left half of the plot.

were 2-m<sup>2</sup> macroplots divided into four equal sections. In each sub-plot, we measured *Limnanthes* as in the grass removal plots. The four sub-plots received, randomly, none, 50, 100, to 200 paces across. These plots will determine, roughly, how much trampling the *Limnanthes* can handle considering

that many people go off the trail to get a closer view of the vernal pools. In a bigger picture these plots will help to understand the impacts of off-trail hikers to the delicate mounded prairie habitat found at Table Rocks (BLM, Medford). We also set up several 1 m<sup>2</sup> plots in *Limnanthes* patches that were on the edges of trails in order to monitor long-term changes in these areas.

This project is only in its first year and I feel that the data will be useful in determining what needs to be done to protect the botanical species found on Table Rocks. I was surprised to see how many people made the steep hike for the view and plants found at the top. We were there during the middle of the week and there were at least ten different visitors or joggers daily, including one day with about thirty school children. None of these groups or individuals stayed on the trail. I recommend the visit to everyone, just remember to wear comfortable shoes, bring plenty of water, and stick to the trail!

### References

1. BLM- Medford District pamphlet. *Table Rocks: Area of Critical Environmental Concern*.
2. BLM- Medford District Office. Table Rock, website. [www.blm.gov/or/resources/recreation/tablerock](http://www.blm.gov/or/resources/recreation/tablerock)



*Limnanthes floccosa* ssp. *pumila* on lower Table Rock ACEC.

# 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 \_\_\_\_\_

Please make checks for dues and contributions payable to:

NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Clayton Gautier, NPSO Membership Chair

3927 Shasta View St.

Eugene, OR 97405-4442

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

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

☐ New

☐ Renewal

☐ Student—\$12

☐ Regular—\$18

☐ Family—\$24

☐ Sustaining—\$50

☐ Patron—\$100

☐ Life Membership—\$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*)—\$18 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund

\$ \_\_\_\_\_

Leighton Ho Memorial Field Botany Award Fund

\$ \_\_\_\_\_

Rare and Endangered Plant Fund

\$ \_\_\_\_\_

Friends of the Oregon Flora Project

\$ \_\_\_\_\_

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

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

## OFFICERS & COMMITTEE CHAIRS

### STATE OFFICERS

DIRECTORS (to 6/2007) ..... Jan Dobak, Darlene Southworth, Kareen Sturgeon (to 6/2008) ..... Les Gottlieb, Ron Hatt, Frances Stilwell

PRESIDENT ..... David Lebo ..... president@NPSOregon.org; 503-236-8787

IMMEDIATE PAST PRESIDENT ..... Kelli Van Norman ..... kelli@pccz.com; 503-236-8787

VICE PRESIDENT ..... Dan Luoma ..... 3740 NW Harrison, Corvallis, OR 97330; vice-president@NPSOregon.org; 541-752-8860

SECRETARY ..... Harold Zald ..... Forest Science Dept., 321 Richardson Hall, OSU, Corvallis, OR 97331; secretary@NPSOregon.org

TREASURER ..... Candice Guth ..... 1816 SE 34th Ave., Portland, OR 97214-5033; treasurer@NPSOregon.org; 503-235-0617

### CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) .... Jerry Baker ..... P.O. Box 662, Athena, OR 97813; bm\_president@NPSOregon.org; 541-566-2244

CHEAHMILL ..... Rob Tracey ..... 1160 Tall Oaks Dr., McMinnville, OR 97128; ch\_president@NPSOregon.org; 503-474-4518

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HIGH DESERT (Bend) ..... Berta Youtie ..... PO Box 606, Prineville, OR 97754; hd\_president@NPSOregon.org; 541-447-8166

KLAMATH BASIN ..... Sarah Malaby ..... kb\_president@NPSOregon.org; 541-884-5703

MID-COLUMBIA ..... Jerry Igo ..... P.O. Box 603, Mosier, OR 97040

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WILLAMETTE VALLEY (Salem) ..... John Savage ..... 1645 Church St SE, Salem, OR 97302-2908; wv\_president@NPSOregon.org; 503-399-8615

WM CUSICK (La Grande) ..... Frazier Nichol ..... c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

### STATE COMMITTEE CHAIRS

BUDGETS AND GRANTS ..... Dan Luoma ..... 3740 NW Harrison, Corvallis, OR 97330; 541-752-8860

CONSERVATION, EAST SIDE ..... Position vacant

CONSERVATION, WEST SIDE ..... Darlene Southworth ..... 866 Blaine St., Ashland, OR 97520; southworth@sou.edu; 541-261-3775

FRIENDS OF THE O. F. PROJECT ..... Linda Hardison ..... 2082 Cordley Hall, Corvallis, OR 97331-2902; hardisol@science.oregonstate.edu; 541-737-4338

LEGISLATIVE ..... Les Helgeson ..... greenhills@oregoncoast.com; 503-398-5965

MEMBERSHIP ..... Clayton Gautier ..... 3927 Shasta View St, Eugene OR 97405-4442; membership@NPSOregon.org

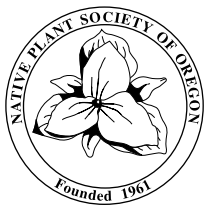
RARE & ENDANGERED PLANTS ..... Les Gottlieb ..... 1085 Timberline Ter., Ashland, OR 97520-3436; leslie@ashlandhome.net

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KALMIOPSIS EDITOR ..... Cindy Roché ..... P.O. Box 808, Talent, OR 97540; kalmiopsis@npsoregon.org

WEBMASTER ..... Norm Jensen ..... webmaster@NPSOregon.org



Send change of address notices  
and membership requests to:

Native Plant Society of Oregon  
Clayton Gautier, Membership Chair  
3927 Shasta View St.  
Eugene, OR 97405-4442

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## IT'S STILL RENEWAL TIME!

The NPSO membership year is January to December. Now is the time for members to renew for 2007. To find out whether you need to renew, please look at your address label on this issue of the *Bulletin*. If 2006 appears along the top edge of the label, you need to renew before February 15, 2007 to ensure that you do not miss out on any of the *Bulletins* or on the 2007 issue of *Kalmiopsis*. If the year is blank or is 2007 or later, you are all set and do not need to renew at this time.

Please use the remittance envelope in the December *Bulletin* to send in your dues, or use the membership form on the inside back page.

It's also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for research projects in western Oregon. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Jean Davis Memorial Scholarship is awarded annually to a botany student at an Oregon college or university. You can also include a contribution to the Oregon Flora Project along with your dues.

**Note for Earth Share Contributors:** Ignore this notice unless you wish to become a regular member of NPSO. You will continue to receive the *Bulletin* for one year from the time of your contribution.

## NPSO Seeks Candidate for Treasurer

The election cycle for NPSO officers and directors is upon us. Our current Treasurer, Candice Guth, is retiring from office. Candice has served in this position for 5 years and NPSO needs a candidate as soon as possible so that she can train the new person during a transition period. Knowledge of Excel, Quicken, or similar software is desirable. If you can help our Society in this way, please contact Dan Luoma, NPSO Nominations Committee Chair, at 541-752-8860 for further information.