



Bulletin

of the

Native Plant Society of Oregon

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

VOLUME 37, No. 9

OCTOBER 2004

Summer Intern Report

Habitat Variation and Experimental Management of Kincaid's Lupine

by Melanie Barnes

The following is the last in our latest series of articles in which NPSO/Institute for Applied Ecology interns discuss their activities during the 2003 field season. Interns participated in monitoring, restoration and other research projects conducted by IAE staff throughout Oregon during the past summer. These projects focused primarily on threatened and endangered plant species and invasive weeds in the Siskiyou, coastal areas, the Cascades, and the Willamette Valley. In this article, Melanie Barnes discusses our efforts in collaboration with the BLM Roseburg and Eugene Districts to survey and monitor populations of Kincaid's lupine and evaluate mowing as a habitat management tool. For more information on internship opportunities, please contact IAE at kayet@peak.org, 541-753-3099 or visit www.appliedeco.org. Thanks again to NPSO for contributing to botanical education and work experience.

Tom Kaye, Institute for Applied Ecology, Corvallis, Oregon

Kincaid's lupine (*Lupinus sulphureus* ssp. *kincaidii*) is native to western Oregon and southwest Washington and is primarily located in the Willamette Valley. It is the principal larval host plant for Fender's blue butterfly (*Icaricia icarioides fenderi*). Both species are under the protection of the Endangered Species Act, with Kincaid's lupine listed as threatened and Fender's blue butterfly as endangered and both are the focus of active conservation research. Here I will discuss two areas in which our knowledge of Kincaid's lupine has been expanded in the past year. First, new populations of Kincaid's lupine have been located in Douglas County, Oregon, in habitat that is not typical for the species, expanding our knowledge of the species' habitat requirements and the importance of changing site management. Second, I will review the second year of results of an ongoing experiment in the Willamette Valley testing the effectiveness of mowing as a management strategy for invasive species reduction and its impact on the abundance of Kincaid's lupine and Fender's blue butterfly.

New Habitat

The range of Kincaid's lupine is from Douglas County, Oregon to Lewis County, Washington, with most populations occurring in the Willamette Valley from Lane to Marion counties. During the first week of my IAE internship I helped with plot establishment for monitoring of three populations in Douglas County on lands managed by the Roseburg District, BLM, one of which was recently found by BLM botanists. I then spent several weeks surveying for new lupine populations in the Umpqua Valley with Carolyn Menke, IAE staff conservation biologist. We were fortunate to find a new population of Kincaid's lupine, which is now the largest known population in Douglas County, with more inflorescences than the other three local populations combined.

Though finding a new population of a threatened plant on public land is very exciting on its own, we were perplexed by the unusual habitat type in which the lupine occurs in most Douglas County populations. Typical

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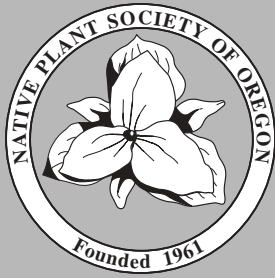
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Native Plant Society of Oregon

World Wide Web

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E-mail Discussion List

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Bulletin of the Native Plant Society of Oregon

Editor: Tanya Harvey

ISSN 0884-599. Published 11 times per year. Subscription price \$18/year. Date and issue number on page 1.

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.

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.

Native Plant Appreciation Week: Building the Foundation

by Matt Blakeley-Smith with help from the Washington Native Plant Society

In May of 2004, the Washington Native Plant Society kicked off their first-ever Native Plant Appreciation Week. Wouldn't it be great if the NPSO joined in and sponsored a similar event in May 2005? I am volunteering to coordinate such an effort, but I will need the help of all the chapters.

Native Plant Appreciation Week (NPAW) will be a fantastic opportunity to celebrate Oregon's diverse flora as well as an occasion to educate the public and extend the NPSO mission of enjoying, conserving, and studying Oregon's natural vegetation to a wide audience.

Native Plant Appreciation Week will be designed to allow NPSO members, chapters and other organizations to get involved to whatever degree they can. It can range from highlighting your work on the website to organizing events such as native plant walks, native plant sales, public presentations or tours of restoration projects and native plant gardens. We do many of these

things already, but the idea is to have a statewide publicized event which reaches out to more people than just the NPSO membership. It also encourages government, non-profit and private organizations to share their botanical knowledge with the public.

At this time I would like to ask that each of the chapters discuss this proposal at their next meeting. If there is sufficient interest, then it would be great if each chapter could recruit a volunteer to be an NPAW chapter coordinator. That person would be in charge of communicating the chapter's plans with the state coordinator. On the state level we may need a publicity coordinator, a web master, an artist, and more!

If you have any suggestions or are interested in getting involved in the planning process please contact me at mattbs@peak.org or 541-753-3099. By next month I should have a much more detailed NPAW strategic plan, so keep posted for updates!



TANYA HARVEY

Ranunculus flammula is a late-blooming buttercup which prefers to grow in mudflats. These were at peak bloom in late August along the muddy edge of the larger of the beautiful Twin Lakes in eastern Douglas County.

State

October 16, Saturday, 10:00 am

Board Meeting: The Siskiyou chapter will host the fall board meeting in Ashland. The meeting will be held from 10:00 am to 2:00 pm in Room 171 of the Science Building on the Southern Oregon University campus. To reach the Science Building turn south (uphill) onto Mountain Avenue from Siskiyou Blvd. at the northwest corner of the campus. After two long blocks turn left at the stop sign onto Ashland Street. Go two short blocks to the Science Building, on your right and the first campus building you will come to. On a Saturday there will be ample street parking at the west end of the building. Do not park in the parking lot in front of the building. That is reserved at all times for permit holders.

Blue Mountain

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

Cheahmill

October 28, Thursday, 7:00 pm

Meeting: Northwest Alpines. Wilbur Bluhm, Professor emeritus Oregon State University Extension Service and Horticultural Consultant in Salem, will open the program with a discussion of the characteristics of alpine and sub-alpine mountain zones. Mr. Bluhm will then focus on specific PNW alpine plants, some of which have gardening potential. Carnegie Room, McMinnville Library 225 NW Adams St. McMinnville. For more info contact Susan Williams at 503-538-1865 or helgesusan@comcast.net.

November 18, Thursday, 7:00 pm

Meeting: Oregon Flora Project Update. Linda Hardison, who earned a PhD in Botany from the University of Washington and is currently serving as

Chairperson of the Friends of the Oregon Flora Project, will bring us all up to speed with an update on the project and its goals. Carnegie Room, McMinnville Library, 225 NW Adams St. McMinnville. For more info contact Susan Williams at 503-538-1865 or helgesusan@comcast.net.

Date To Be Announced

Field Trip: Mushroom Walk. Dr. Jack Murphy of Linfield College will lead a mushroom walk at Charles Metsker Park, just northwest of McMinnville. This is a rain-or-shine event, and does not require pre-registration. Just show up at Murdock Hall on the Linfield Campus in McMinnville by the

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. 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. Bring water and lunch. 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.

9:00 am departure time. We will collect fungi at the park and have an informal identification session under cover at about noon. Bring a picnic basket and waxed paper for your mushrooms. For info contact Susan Williams at 503-538-1865 or helgesusan@comcast.net.

Corvallis

October 11, Monday, 7:30 pm

Meeting: The Current Status of the Oregon Flora Project. Linda Hardison, Chair of the Friends of the Oregon Flora Project Committee, will be updating us on the progress of the Oregon Flora Project. Come see the many new exciting advances and learn what new tools have been made available to the public. Avery House, Avery Park, Corvallis. For more information contact John Syring at 541-752-0414.

Emerald

October 2, Saturday, 8:00 am

Field Trip: Moss and Lichen ID at Coast. Rob Weiss and Dave Wagner will lead a 4 mile tour through shore pine forest at Sutton Creek to study rare species such as *Limbella fryei* and *Leioderma sorediatum*. Bring hand lens, lunch and boots. Meet at 8:00 am at South Eugene High School or at 10:00 am at the FM-Fuel Stop at Fred Meyers in Florence. Northwest Forest Pass required. For more information contact Rob Weiss at 541-563-3947 or Dave Wagner at 541-344-3327.

October 25, Monday, 7:30 pm

Meeting: Hanging on to existence in the Willamette Valley—a relict population of the Great Copper. Paul Severns (Oregon State University, Department of Botany and Plant Pathology) will tell us about a population of Great Coppers that was found this summer in the West Eugene wetlands. The Great Copper is a gray butterfly that inhabits drier riparian habitats

and grasslands throughout California. In Oregon, extant populations of Great Coppers are known from the Siskiyou Mountains and the Cascade-Siskiyou National Monument, but Willamette Valley populations were thought to be extinct. Paul's talk will include the habitat requirements, flight period, and life history of this butterfly. Room 115, Science Building, Lane Community College, 4000 30th Avenue East, Eugene.

November 22, Monday, 7:30 pm

Meeting: Mysteries of the Monotropeae Revisited—20 Years of Demystification. Dan Luoma (Assistant Professor, Senior Research in the Department of Forest Science at Oregon State University) will introduce us to the Monotropeae, a subfamily within the Ericaceae (Heath family). Members of this subfamily lack chlorophyll and are dependent on

fungi for their nutrition. Dan will integrate wildflower and mushroom natural history through discussion of nutritional and physical symbioses in the Monotropeae. He will also summarize recent literature on the genetic relationships of Monotropeae species. Forum Building, Room 308, Lane Community College, 4000 30th Avenue East, Eugene.

High Desert

For information on the High Desert Chapter contact Reid Schuller at 541-317-1901.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com.

Mid-Columbia

October 6, Wednesday, 7:30 pm

Meeting: Rowena Crest Quarry Restoration. Learn about the nuts and bolts of a quarry restoration with site specific native oregon plants. Mike Igo will present the various issues involved in this project that is set to begin in September 2004. The Dalles Chronicle Meeting Room, 317 East Third St., The Dalles.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jj@oregoncoast.com.

Portland

For information on the Portland Chapter contact Mandy Tu at imtu@tnc.org.

Siskiyou

October 21, Thursday, 7:30 pm

Meeting: Mycorrhizae of *Cypripedium fasciculatum*. The orchid family has a special relationship with mycorrhizal fungi. Which fungi are associated with the rare orchid Cluster lady slipper, *Cypripedium fasciculatum*, found in southwestern Oregon? Henry Whitridge will share research from his OSU Master's thesis, revealing that *C. fasciculatum* harbors some unexpected fungi in its roots. DNA analysis, indicate that some of these same fungi also are found in the rhizomes of non-photosynthetic orchids such as *Corallorhiza* spp. The evidence from this research suggests that *Cypripedium fasciculatum* is involved in a complex three-way symbiosis with fungi and trees, allowing this green orchid to siphon energy from nearby trees to supplement photosynthesis in low light environments. The Plant Family of the Month returns to our chapter: welcome Violaceae. Room 171, SOU Science Building, Ashland. For more information, contact Cynthia Maclaren, 541-482-0899.

Friends of the Oregon Flora Project



www.oregonflora.org

The Oregon Flora Project is ten years old! In 1994, Scott Sundberg organized a group of botanists to assemble a checklist of our state's plants and begin work on a new flora of Oregon. Since that time, the Oregon Flora Project has blossomed to envision on-line versions of the checklist and flora, as well as create an atlas of plant distributions and a photo gallery. Among our accomplishments are ten years of publishing the Oregon Flora Newsletter, and the current support of five staff members. Next month we anticipate the public release of the Atlas

mapping program (www.oregonflora.org/oregonplantatlas.html), which will feature thousands of new and edited records.

This autumn, we will have a challenge drive to raise funds in support of the Oregon Flora Project. We hope you will take this opportunity to acknowledge with a generous contribution the years of work given by dedicated volunteers and staff to make this botanical resource a reality. Details of the challenge will be posted in upcoming Bulletins.

Please make checks payable to NPSO, attn. Friends of the OFP, and mail to: Friends of the Oregon Flora Project, P.O. Box 402, Corvallis, OR 97339-0402.

November 18, Thursday, 7:30 pm

Meeting: What Are the Potential Impacts of Future Climate Change on Vegetation in the Pacific Northwest?

Dr. Sarah Shafer, from the USGS Earth Surface Processes Team, will summarize some of the projections of future climate changes for the Pacific Northwest. She'll discuss potential effects these changes may have on vegetation and on conservation and natural resource management activities in the region. Room 171, SOU Science Building, Ashland. For more info, contact Cynthia Maclaren, 541-482-0899.

Umpqua Valley

For information on the Umpqua Valley Chapter call Ron Hatt at 541-863-7024.

Willamette Valley

October 18, Monday, 7:00 pm

Meeting: Identifying and Eradicating Invasive Weeds. Scott Eden of the Marion Soil and Water Conservation District will discuss how to identify and eradicate invasive weeds. The talk will be on October 18, from 7:00 to 8:00 pm at the Straub Environmental Learning Center, 1320 A Street NE, Salem (right next to Olinger Pool). Free and open to the public. For more information, contact John Savage at 503-399-8615.

William Cusick

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

Joyce Beeman

Joyce Beeman died August 14, 2004, at age 92. Ms. Beeman was born June, 19, 1912, in Dallas, Texas. She moved in 1953 to Portland and Tigard, Oregon and was a medical technologist for OHSU for 25 years. Joyce was active in the Native Plant Society of Oregon for many years doing *Bulletin* mailings, collecting and helping arrange flowers for chapter plant shows, and leading field trips. She also belonged to other conservation and outdoor groups. Survivors include her longtime friend, Sara Barnum; two nephews and a niece. Her friends are making contributions to the Oregon Flora Project in her memory.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2003). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilyn Karbonski. Short sleeve, high quality, **\$15 plus shipping.** For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

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. Order your copy today! **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.**

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at **\$12 each**, plus \$3 per order for shipping. Posters are mailed in tubes.

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Naturescaping for Clean Rivers October 3, Sunday, 1 - 5 pm

When you garden with native plants, natural landscapes, and water-friendly gardening, you need less water, fewer chemicals, and less time doing maintenance. This is good for you, your garden, beneficial wildlife and the environment. You'll receive a free workbook and native plant to take home. Rain or shine, we'll be going outside to study plants along BBG's Native Plant Trail. To register, call 503-797-1842 or e-mail naturescaping@yahoo.com Free!

Cordage, Netting and Natural Dyes October 16 - 17, Sat & Sun, 10-4 pm

On day one, you'll first discover the plants, like dogbane, milkweed, cedar and stinging nettle, that can be used to make cords and learn the techniques for how to do so from a knowledgeable ethnobotanist. Next, we will learn 2 styles of netting for making useful bags and look at a collection of net bags from around the world. On day two, you'll learn about plants, lichens and fungi that produce colorful dyes on wool and plant fibers. We will have some dye pots going to make samplers and learn about many more ways to produce a whole spectrum of colorful threads. \$125 (\$100 BBG Members).

Fabulous Water-Wise Gardens October 31, Sunday, 1-4pm

Save water by planting in zones, mulching, watering with efficiency and establishing new plantings for greatest success. A hands-on exercise, plant lists, and tons of information will help you become wiser in your water usage. \$15 (\$12 BBG Members).

Restoration Workshop at Oregon Garden

October 7, Thursday, 8am - 4pm, the Oregon Garden, Silverton

We have a new program at the Oregon Garden, in cooperation with Oregon State University and NRCS! The Sustainable Plant Research and Outreach Center—SPROUT for short. SPROUT is dedicated to developing and encouraging the use of plant material to address environmental concerns.

We need your expertise! We want to invite you to our first workshop. The \$35 registration fee covers continental breakfast, lunch, all printed SPROUT materials, including CD with research database and literature review, and optional specialty tours of the Oregon Garden. We have a great line-up of "Resource Assistants"—local experts who will lead the discussion sessions in the afternoon. Our Keynote Speaker will be Sara Cooke! She is a Professional Wetland Scientist and has worked at many consulting firms in the Northwest since 1986. She is the principal author and editor of *A Field Guide to the Common Wetland Plants of*

Western Washington and Northwestern Oregon. Currently her wetlands work emphasizes restoration ecology. For more information or to register contact Renee Stoops, Research and Wetlands Coordinator at The Oregon Garden, at 503-874-8268 or rstoops@oregongarden.org.

North Mountain Park Nature Center Event

Trees for All Seasons

October 23, Saturday, 2 - 4 pm

The Ashland Tree Commission is sponsoring a 2-hour Tree Walk. Plan to meet at Lithia Park and spend the afternoon strolling through the park looking at and learning about specimen trees. \$3/person or \$10/person with recommended Ashland Street Tree Guide. To register please call the Nature Center at 541-488-6606 or visit our online registration site at ashlandparks.recware.com.

Siskiyou Field Institute Event

**Wild Salmon, Wild Rivers Weekend
October 22 - 24, Cave Junction**

Co-sponsored by the Oregon Caves National Monument and Chateau, participants will stay at the OR Caves Chateau, and venture out by day to watch the salmon spawn along the Illinois River, and learn about the region's network of wild rivers, old-growth forests, and their many inhabitants. There's even some wine tasting Saturday afternoon! Fee includes lodging and meals. Special registration required. \$379/couple or \$255/single.

For more information or to register for courses check the Siskiyou Field Institute website www.siskiyou.org/sfi or contact SFI at 541-592-4459.

Attention All Gardeners!

Don't Miss The Tualatin Hills Park and Recreation District's

**Tualatin Hills Nature Park's
Native Plant Sale
October 9, Saturday, 10 - 2 pm**

15655 SW Millikan Blvd., Beaverton
503-629-6350; www.thprd.org

Select from a wide variety of trees, shrubs and flowering plants in all price ranges for every spot in your garden! Other activities include a Native Plant Class and Walk. Once established, Native plants need little care and water! All proceeds go toward future park improvements.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Mushrooming on the Mountain **October 2, Saturday, 10 am - 4 pm** **at EPUD building**

October 3, Sunday, 10 am - 4 pm **at Mount Pisgah Arboretum**

This intensive class for beginning mushroomers offers instruction and identification, picking, cooking, ecology, folklore and more! Maggie Rogers of the Oregon Mycological Society will lead the class with slide shows, interactive demonstrations, discussion, and field identification. A mushroom hunt will follow Maggie's presentation, and participants will cook and taste the fantastic fungi. Pre-registration required. Fee: \$60 non-members/ \$50 members.

Medicinal Herbs Walk

October 9, Saturday, 11 am - 1 pm

Learn the world of northwest medicinal herbs with experienced herbalist Sherri Brown. She will explore the medicinal properties, traditional uses and ecology of the herbs of the Southern Willamette Valley found on your walk. Meet at the visitor's center rain or shine. \$3 suggested donation/ members free.

The Art of Nature Photography

October 10, Sunday, 1 - 4 pm

October 14, Thursday, 7 - 9 pm

David Stone, professional photographer and LCC photography instructor, teaches this class for beginning and intermediate nature photographers. The first session focuses on instruction in composition and field photography, the second allows for discussion of your work. Film and digital cameras welcome. Pre-registration required. Fee: \$25/ \$20 members.

Elder Walk

October 17, Sunday, 2 - 4 pm

Knowledgeable nature guide Tom Bettman will lead you on a autumn walk along Mount Pisgah's beautiful trails. Meet other nature-loving seniors, and warm up with warm cider and snacks when you return. Suggested donation: \$4. Meet at the visitor's center rain or shine.

Personal Nature Essays

October 23, Saturday, 10 am - 3 pm

October 24, Sunday, 12 - 3 pm

Learn how to capture your relationship with nature in a two-day workshop led by Carol Ann Bassett, nature essayist and writing professor at The University of Oregon. Bassett is author of *Gathering of Stones: Journeys to the Edges of a Changing World*, (A finalist for the Oregon Book award in Creative Nonfiction). Work with other aspiring writers in a beautiful landscape and put your experience on paper. Pre-registration required. Fee: \$45/ \$40 members.

Willamette Valley Fall Ecology Walk

October 24, Sunday, 11 am - 1 pm

Join botanist Dr. Rhoda Love on an autumn hike around the trails of the Arboretum and Howard Buford Park and learn about the ecology and natural history of the Southern Willamette Valley. Use your hand lenses (provided) and binoculars to observe both subtle and more obvious seasonal changes. Bring a snack or lunch. Suggested donation: \$3/ members free.

Mushroom Festival & Plant Sale

October 31, Sunday, 10am-4pm

Co-presented by the Cascade Mycological Society and Lane Community College. Our annual celebration includes one of the largest mushroom displays on the West Coast, a plant sale, a scarecrow contest, children's activities, hayrides, craft vendors, food, music, and more! Suggested donation for non-members: \$5/person, \$10/family.

Willamette National Forest Event

Hackleman Creek Mushroom Hike

October 29, Friday, 9 am

Easy two-mile hike winds through an old-growth grove with trees over 500 years old. This forest is famous for its high diversity of fungi. Meet at Sweet Home Ranger District at 9 am. Bring lunch, water, and possibly raingear; transportation is provided. Fee: \$10.00 (\$5.00 with Golden Age/Access Card). Trip Leader: Botanist Noel Bacheller. To participate contact Joanne West at 541-367-9206. Sign up early as this event is limited to 20 people.

ONRC Events

Hike to Waldo Mountain Lookout **October 17, Sunday**

Join Gary Guttormson, longtime activist for the Waldo area, and other Wilderness-lovers for a unique hike to the Waldo Mountain Lookout in the Waldo Lake Wilderness. Hike about 3.2 miles (one way) to spend the afternoon enjoying the spectacular 360° views of the Cascades and Waldo Lake, learning about the history of the fire lookout, and talking Wilderness. Participants should be prepared for a moderately difficult hike, and should bring water and a lunch. For more information and to sign up, call Chandra at 541-344-0675, or cl@onrc.org.

Threatened Wildlands of the Umpqua

November 18, Thursday, 7:00pm

University of Oregon Law School, Eugene, Room TBA. This free slide show is presented by Umpqua Watersheds and Oregon Natural Resources Council will showcase the natural beauty of the Umpqua River Basin and the threats facing the region. Umpqua basin resident Bob Hoehne will present spectacular aerial and on-the-ground photographs of the roadless wild lands of the region, including popular and pristine areas like Last Creek, Mount Bailey, and Twin Lakes. See wild areas affected by the Tiller Complex fires of 2002, old growth forests threatened by logging, and rugged backcountry areas that Umpqua Watersheds and ONRC are fighting to protect. The event is free and open to the public.

Kincaid's Lupine

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habitat of Kincaid's lupine elsewhere in its range is open upland prairie and meadow edges, often near oak trees. Most of the Douglas County populations are in wooded areas dominated by Douglas-fir (*Pseudotsuga menziesii*), madrone (*Arbutus menziesii*), and other trees and shrubs, with canopy cover ranging from 50 to 80%. Several of these sites, including the newest and most abundant population, were located along roads that were either overgrown or still in use. Most of the lupines in these roadside populations occurred right along the roadside and, if the road was unsurfaced and had been closed, in the road as well. In addition, lupines seemed to flower more in areas that received more light. The one known Douglas County population that occurs in a natural oak-bordered meadow receives plenty of light and also had the highest ratio of inflorescences to leaves. What we observed was not surprising given prior knowledge that lupines are generally intolerant of shade (Wilson et al. 2003).

Observing these Kincaid's lupine populations caused us to wonder how it came to occur in such shady areas. It is possible that these sites were once meadows or sparse woods but ecological succession, perhaps spurred by fire suppression, has transformed the habitat to young, dense forests with relatively closed canopies. Perhaps the remaining lupines spread to the nearest area with available sunlight, i.e., roadsides. Evidence from tree-ring studies (including one very close to several Douglas County lupine populations) and historical knowledge indicate that fire suppression on the west slope of the Cascades began around 1926 and intensified after 1950 (Weisberg and Swanson 2003). In addition, there is evidence that the tribes of the Umpqua Valley may have used prescribed burning at wooded elevations as well as in the valley floor (La Lande and Pullen 1999, Boyd 1999). In the Willamette Valley, the well-documented annual burning of prairie by the Kalapuya Indians has been hypothesized to have

maintained the lupine's preferred habitat type in that area. Occasional fires in the Umpqua region historically would likewise have prevented encroachment of trees and shrubs, promoting favorable habitat for Kincaid's lupine.

Roseburg BLM botanist Gary Basham noted that the site where the newest Douglas County lupine population is located had apparently burned in a forest fire 10-15 years ago. This population had a very high proportion of flower stalks. It seems likely that Kincaid's lupine, thought to have once been widespread throughout western Oregon and southwest Washington, has in Douglas County become relegated to populations isolated by encroaching forest and shrub lands that are promoted by fire suppression and other habitat modifications. Continued monitoring of known populations will contribute to our knowledge of habitat effects on Kincaid's lupine. Additional surveys for new populations and tests of management techniques such as thinning or prescribed fire would also be helpful.

Mowing management

One of the threats to Kincaid's lupine populations in many Willamette

Valley locations is encroachment by invasive weeds such as Himalayan blackberry (*Rubus discolor*), Scotch broom (*Cytisus scoparius*), tall oatgrass (*Arrhenatherum elatius*) and meadow knapweed (*Centaurea pratensis*). One such site, Fir Butte (Eugene district BLM), is suffering from a severe infestation of Himalayan blackberry. The Institute for Applied Ecology and Eugene District, BLM, have initiated an experiment at this site to test the effectiveness of mowing as a control for invasive species, especially blackberry, and its impact on Kincaid's lupine and Fender's blue butterfly populations (Kaye and Cramer 2003). Plots were established in 1998 and baseline monitoring data were collected for four years before fall mowing treatments were applied in 2001 and 2002. Treatments include mowing once a year, mowing every other year, and, in the future, burning. These treatments will provide information about the level of intensity of mowing required to control the growth of blackberry, and the response of all species to fire.

Preliminary results after two years of mowing treatments indicate that mowing significantly reduces the cover



Kincaid's lupine in plots mowed to control blackberry (left) have more leaves, flower stalks and Fender's blue butterfly eggs than those in unmowed plots (right).

RHODA LOVE

of blackberry and mowing, especially annually, increased the number of lupine leaves and inflorescences. In addition, mowing also has a positive influence on the abundance of Fender's blue butterfly eggs (which are laid on the lupine leaves), possibly by making the lupines easier for butterflies to find. This preliminary data indicates that mowing appears to be an effective management strategy for invasive species abatement and does not have an adverse affect on Kincaid's lupine or Fender's blue butterfly.

Other investigators have found that reducing shrub and tree cover is beneficial to growth of *Lupinus perennis*, a lupine native to the Midwestern U.S. that is the sole larval host for the endangered Karner's blue butterfly (*Lycaeides melissa samuelis*) (Smallidge et al. 1996). In addition, *L. perennis* has been found to respond favorably to soil disturbances and is more prevalent in open canopy areas (Smith et al. 2002). Habitat for Kincaid's lupine should likewise be managed to plan for controlled disturbance as needed to maintain open habitat.

The newly located Kincaid's lupine population in Douglas County and the potential of mowing as a management tool are both encouraging developments for the recovery of this threatened species as well as its endangered butterfly. However, both still face the threat of population losses because many populations occur on private land and are not protected. Meanwhile, it is important that publicly-owned populations are monitored and managed to maintain favorable habitat for Kincaid's lupine and Fender's blue butterfly.

My sincere thanks to the Roseburg and Eugene BLM Districts for their cooperation and funding of this ongoing research. I would also like to thank NPSO and IAE for a great summer full of botany.

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Conservation biology interns monitoring Kincaid's lupine along a forest road in Douglas County.

TOM KAYE

Oregon Collectors: People and Plants

by Kate Norman, Oregon State University

I'm a devout lover of science; it always seems to make sense, it's clean-cut and straightforward. I'll take the citric acid cycle over a sonnet any day. Long, long ago, when I was young and foolish (age 20), I believed that science was untainted; a pure pursuit of knowledge. After all, isn't science the truth? The 100% absolute, no-doubt-about-it factual interpretation of life? Umm, no. Science is a human endeavor. As such, it is subject to all the vice, prejudice, and self-interest normally associated with our species. That doesn't make science invalid, of course, but it does accentuate the need to understand the scientists behind the studies.

Botany is a science; specimen collection a study. Therefore, when Aaron Liston approached me 12 months ago and suggested researching collectors who had contributed to the three herbaria contained at Oregon State University (OSC, ORE, and WILLU), I was more than a little enthusiastic. I was not exactly certain the types of individuals I would encounter in my research, but knowing scientists (and, moreover, botanists), I had a feeling there would be some rather quirky folks in the lot.

Before the research of individuals began, I worked with Ann Willyard to create a database to house our findings. Then, working with already established herbarium databases (such as New York Botanic Garden, Harvard, and Berkeley), I began to flesh out the mysterious names on our collection labels. Initials became names, birth and death years were discovered, and small tidbits of biographic information began to filter down.

Once I reached a place where my collector names seemed to be unique, I began to search through old herbarium records, clippings from newspapers, appendices of floras, and a number of other written sources. My hopes for encountering some "characters" were fully realized. Amos Arthur Heller stands out as one of the people I wish I could have met. He was reputedly a splitter,

"species crazy" according to P.B. Kennedy. In addition, he was a territorial sort, reportedly scaring off a fellow botanist who was planning to complete a monograph of *Lupinus*.

In addition to written records, I was able to conduct interviews with Aaron Liston, Kenton Chambers, Richard Halse, Rhoda Love, and LaRea Johnston. The interviews were, without a doubt, the most enjoyable portion of my research. In sitting with these botanists, I learned a great deal about the collectors in my database. In many cases, I was talking with friends or relatives of the collectors and the stories I heard told me volumes more than any biography. I learned about romantic intrigues, youthful rebellions, and the web of friendships that brought anonymous collector names to life.

Through the past year, my understanding and appreciation for the OSU Herbarium has grown. I realize how talented and varied the collectors can be; from school teachers to artists and even poets. Currently we have obtained

biographic information for 1100 collectors. These individuals represent only a third of the many collectors who have shaped the OSU Herbarium. A list of collectors and their biographies is available online via the Oregon State University Herbarium website, <http://oregonstate.edu/dept/botany/herbarium/collectors>. Additions and corrections are welcome and appreciated; please contact Dr. Aaron Liston lis-tona@science.oregonstate.edu.

Acknowledgements

Special thanks to Aaron Liston for all of his help and guidance; also to Kenton Chambers, Richard Halse, Rhoda Love, and LaRea Johnston for their interviews. Thanks to Ann Willyard and Thea Cook for assistance with the database; and a very warm thanks to all the collectors who responded to my requests for information. Financial support was provided by a Research Experience for Undergraduates supplement to National Science Foundation grant BRC-0237459.

Support Ballot Measure 34—The Tillamook Rainforest Initiative

by Peggy Robinson, Emerald Chapter

This important initiative would require balancing, as equally beneficial, conservation/preservation and timber production in the coastal Tillamook and Clatsop State Forests. On half of the land, native old-growth forest would be restored for the primary purposes of clean water, healthy fish and wildlife, and recreation.

The initiative presents a balanced plan because the other 50% of this very productive tree growing land would still be available for sustainable logging. According to one study, the 50/50 Plan would actually result in net fiscal gains for Tillamook and Clatsop Counties because lost timber revenues would be eclipsed by economic gains resulting from forest protection.

These forests deserve protection as the largest remaining expanse of unprotected coastal temperate rainforest in the lower 48 states. But if this initiative fails, under the current plan, as much as 85% of these forests will be logged over the next 30 years.

The NPSO Board has voted to support the Tillamook Rainforest Initiative, and I urge all members to vote for it. For more detailed information, go to: www.Tillamook5050.org.

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Endangered Species Act Threatened

by Rhoda M. Love, Vice President. This article appeared as a letter to the editor in the Eugene Register-Guard on August 29, 2004

I commend the *Eugene Register-Guard* for its fine July 26 editorial defending our federal Endangered Species Act and deploring recent moves in the US Congress to weaken the Act and impede its implementation. The editorial correctly pointed out that under the present Administration the pace of listing rare species has dropped to around 15% of what it was under previous administrations. Sadly, plants and animals are in danger of disappearing at an ever-increasing rate, yet Oregon Congressman Greg Walden has recently introduced a bill which would further interfere with the protection of vanishing species.

As a botanist I am most familiar with the flowers that are disappearing here in western Oregon. Willamette

Valley pioneers of the 1840s described glorious fields of native grasses and brightly colored wildflowers standing as tall as the belly of a horse beneath spreading oak trees. Now we must visit the few remaining natural areas to see the remnants of this botanical abundance.

Three of the lovely flowers of our area that have been listed by the federal government as rare, but are still awaiting the designation of critical habitat, are Willamette daisy, Bradshaw's desert parsley, and Kincaid's lupine. The latter is the food source for the equally endangered Fender's blue butterfly. Other rare local flowers which are awaiting listing are Hitchcock's blue-eyed grass, peacock larkspur, wayside aster, and pink sand verbena. The

gorgeous seaside flower, Henderson's checkermallow, has disappeared from nine-tenths of its habitat in Oregon, but has not yet been considered for listing by the federal government. Visit Emerald Chapter's website for more information on rare plants: www.EmeraldNPSO.org.

It is a shame that Oregon's Representative Walden has chosen not to follow in the footsteps of former Republican Senators Robert Packwood and Mark Hatfield who championed federal protection for endangered plants and animals, and were proud architects of our nation's Endangered Species Act. Readers are urged to contact Representative Walden at 202-225-6730 to protest his attempt to weaken protection for our rare and endangered species.