



# Bulletin

of the

## Native Plant Society of Oregon

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

VOLUME 34, No. 9

40<sup>TH</sup> ANNIVERSARY YEAR!

OCTOBER 2001

### Summer Intern Report

## Pink Sandverbena, A Disappearing Species

by Jon Kart, Institute for Applied Ecology, Corvallis, Oregon

The following is the first in a series of four articles in which NPSO/Institute for Applied Ecology interns discuss their activities during the 2001 field season. During the summer of 2001, Jon Kart participated in monitoring, restoration and other research projects conducted by IAE staff throughout Oregon. The projects were focused primarily on threatened and endangered plant species in eastern Oregon, the Siskiyou, coastal areas, the Cascades, and the Willamette Valley. Internships are jointly funded by NPSO, IAE, and federal dollars. For more information on this internship opportunity, please contact me at [kayet@peak.org](mailto:kayet@peak.org) or 541-753-3099. Thanks again to NPSO for contributing to botanical education and work experience.

Tom Kaye, Institute for Applied Ecology, Corvallis, Oregon

Jim Hamilton began taking regular ocean-side walks along the Pacific Coast Trail on Vancouver Island, BC's Pacific Rim National Park in 1954. Last summer, 45 years and countless walks later, Jim came across a plant that he had never seen before. He remembered a neighbor telling him of a similar sighting along the same beach in 1941. Jim guessed this was the same plant, but just to be sure, he invited a few experts over for a visit.

A field team from the British Columbia Conservation Data Centre arrived and agreed that Mr. Hamilton had found pink sandverbena, *Abronia umbellata*, a species long-presumed extinct in British Columbia. A search that even included helicopter reconnaissance of almost 20 miles of coastline produced two plants found on the upper beach, just below the driftwood zone.

These *Abronia* attracted much attention from botanists in the region and seeds were soon collected from these two pioneers and some were given to Tom Kaye in Corvallis, Oregon. Tom has been conducting research on pink sandverbena for the past ten years. He currently directs the Institute

for Applied Ecology (IAE), a non-profit organization dedicated to natural resource conservation, research and education. As a Native Plant Society of Oregon/IAE intern I have been lucky to help look after plants propagated from these and other seeds. These internships are possible thanks to financial support from IAE and a generous grant from NPSO.

### Natural History

Pink sandverbena, *Abronia umbellata*, a dicot, is in the Four O'clock family (Nyctaginaceae). An herb with pretty pink flowers, it has succulent leaves that grow low to the ground. It reproduces by seed only.

While this herb typically acts as an annual, germinating, flowering, setting seed and dying all in its first year, it is a facultative perennial with a small number of plants surviving the winter. Over-wintered plants often grow quite large in their second year, producing thousands of seeds. These survivors may be particularly important for releasing the seeds needed for expansion of existing populations and for long distance dispersal and the colonization of new sites.

Often rare and extinction prone, sandverbenas (*Abronia* spp.) have earned the title of "disappearing species." Historically, pink sandverbena was found in coastal environs from Marin County, California to Vancouver Island, BC. It is currently restricted to the southern Oregon and northern California coasts where fragments of suitable habitat remain. With only five

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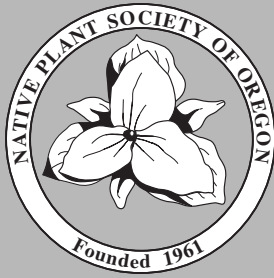
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## Native Plant Society of Oregon

### World Wide Web

<http://www.NPSOregon.org>

### Email 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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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.

## Grants Awarded by Willamette Valley Chapter

The Willamette Valley Chapter of the Native Plant Society of Oregon (NPSO) has announced the award of four grants to fund student projects at local schools involving the protection and enhancement of plants native to this area of the state.

Houck Middle School will receive \$75 for the purchase of canopy and understory tree and shrub plants for planting and maintenance by students at sites adjacent to the school. The stock will include species such as Red Alder, Oregon Ash, Nootka Rose and Red-flowering Currant. A similar project at Marion Miller Elementary, also awarded \$75, will be aimed at rehabilitation of a natural wet meadow and wetland site on that school's property. Teachers in charge will be Jerry Quigg and Pam Graves, respectively.

Chapman Hill Elementary will receive \$75 as start-up funding for a "Roots and Shoots" Club. Students will learn about native plants in a hands-on

manner by restoring these plants in riparian zones along Glenn Creek. Supervising teacher will be Susan Adams.

Morningside Elementary's Science, Math & Technology Club plans to establish a terrarium which will include native plants. While the project is not entirely in keeping with the local chapter's grant program, members of the chapter recognized its instructional value and partially funded it in the amount of \$25. George Karakey will be the teacher responsible.

Recipients of the grants have been asked to have the participating students write an informal report to NPSO describing their achievements and indicating what they have learned in the process.

### Contact:

Karl Anderson, President  
Willamette Valley Chapter, NPSO  
Telephone: 503-315-7329  
E-mail: [kaanderson@starband.net](mailto:kaanderson@starband.net)



*Bee pollinating a floriferous clump of Erigeron foliosus near Tidbits Mountain, Sweet Home Ranger District, Willamette National Forest.*

TANYA HARVEY



## Blue Mountain

**October 1, Monday**

**Meeting: Boardman Grassland Preserve.** Berta Youtie, of The Nature Conservancy, will talk about the new Boardman grassland preserve, a 22,642-acre native sage and bunchgrass prairie south of the Columbia River. 7:00 pm, Small Business Development Center, NW corner of SE 1st and Dorian, Pendleton.

## Cheahmill

**October 25, Thursday**

**Meeting: Endangered and Threatened Plants of Oregon & the Endangered Species Act Procedures.** Andy Robinson who earned a Doctorate degree in Plant Ecology at OSU & who currently manages the Endangered Plant Program for the Oregon office of the US Fish and Wildlife Service will present a slide show/talk featuring the latest federally-listed plant species. 7:00 pm, Carnegie Room, McMinnville Public Library, 225 N. Adams St., McMinnville. For more information contact Susan Williams, 503-538-1865 or helgesusan@home.com.

## Corvallis

**October 8, Monday**

**Meeting: Plants of the African Rainforest.** Duncan Thomas will give a beautiful slide show on the exotic plants of the African rainforest. Meet at the Avery House, Avery Park at 7:30 pm for the meeting. Please park in the Park parking lot. Contact Esther McEvoy at 541-754-0893 for more information.

**October 27, Saturday**

**Field Trip: Foray to the central-western Cascades for mushrooms and truffles.** We will contribute to the Mt. Pisgah Arboretum Mushroom Show,

and keep our eyes out for "FEMAT" listed species. Meet at OSU parking lot SW of the Beanery, 26th and Monroe, Corvallis, at 8:30 am. For information, call Dan Luoma at 541-752-8860.

**October and November**

**Work parties: at Avery House Garden** will take place on the weekends before the rains begin in November. Contact Carolyn Ver Linden at 541-752-7132 if you are interested in helping with the weeding, planting and cleaning up this fall.

### 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.

## Emerald

**October 22, Monday**

**Meeting: Floral Mimicry by Fungi - real-life invasions of body snatchers.** "The next time you take a walk in a wild-flower meadow in the mountains, look again. Some of the "flowers" you see may actually be fungi that mimic flowers. These beautiful parasites use the appearance of flowers to attract insects for their own sexual reproduction, and in the process kill the hosts," says our October speaker, Bitty Roy, an associate professor of Plant Ecology and Evolution at the U of O. Bitty's been interested in plants her entire life, especially those of the Alpine and Arctic. 7:30 pm, Room 117, Science Building, LCC main campus, Eugene. For more information contact Marcia Cutler at 541-687-2559.

**November 26, Monday**

**Meeting: The Oregon Flora Project.** Linda Hardison will join us with great pictures of many beautiful wildflowers in her slide show. More details in next Bulletin.

**December 10, Monday**

**Meeting: Our annual holiday gathering.** Details in next *Bulletin*.

## High Desert

For information on the High Desert Chapter, call Stu Garrett at 541-389-6981.

## Klamath Basin

For information on the Klamath Basin Chapter, call David Lebo at 541-883-8393.

## Mid-Columbia

**October 3, Wednesday**

**Meeting: Native Plants - In the Past Tense,** a slide talk by Ann Trieu. Ann is



working on a PhD in anthropology and her specialty is paleobotany, which combines archaeology and botany. In this fascinating presentation she will describe evidence uncovered in archaeological sites along the Columbia river that can tell us what plants were historically used by Native Americans, and for what purposes. 7:30 pm at The Discovery Center in The Dalles; take exit 82 off I-84 and follow signs.

### November 7, Wednesday

**Meeting: Mushrooms and other Fungi.** We are pleased to have Dr. Dan Luoma of Corvallis give us a slide presentation on his speciality. 7:30 pm at the Columbia Gorge Discovery Center in The Dalles. (exit 82 off I-84, and follow signs.)

## North Coast

### October, TBA

**Field Trip: Mushroom Foray.** Our Mycologist, Jalen Jones, will be monitoring the conditions in the local forests and pick a date, probably a Saturday, when she expects conditions to be optimal for mushroom displays. We'll meet at the PUD parking lot, south end of Tillamook at corner of 11th and Pacific, at 10:00 am. Bring brown bag lunch and extra brown bags if you intend to collect mushrooms. All those who have given John Gerke a functional e-mail address will be notified. Others, if interested in further details, phone John at 541-842-5366 or e-mail him at johnroyal@juno.com.

### November, TBA

#### **Event: Banquet at Hudson House.**

Meet at the Hudson House on the west side of Hwy. 101 between Cloverdale and Oretown. An outstanding meal will be served. There will be alternate vegetarian and sugar-free menus for those who request it in advance. We will have the entire banquet room to ourselves. Bring slides that you would like to share. Attendance will not be limited to members of the North Coast Chapter. All those who have given John Gerke a functional e-mail address

will be notified of the date and time. Others, if interested in further details, phone John at 541-842-5366 or e-mail him at johnroyal@juno.com. We will need to have an exact count several days in advance of the meal. Notify John if you intend to attend.

## Portland

### October 9, Tuesday

**Meeting: Searching for Driftwood Valley.** Dr. Rhoda Love of Eugene will show slides as she presents a combination book review, biographical sketch, and botanical survey of north-central British Columbia. She will outline her researches into the fascinating life of female ecologist Dr. Theodora Stanwell-Fletcher (1906-2000), author of the beloved nature classic, *Driftwood Valley*. Included will be images of the trip Rhoda and her husband took to the British Columbia wilderness to find the places and plants mentioned in the book. 7:00 pm, Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St., in Portland. For more information contact Skip Haak, 503-460-3198.

## Siskiyou

### October 18, Thursday

**Meeting: Lichen and Bryophyte Basics.** SOU Biology Professor, Dr. Steven Jessup, will share his enthusiasm for the diverse and under appreciated

world of non-vascular plants. After a short introduction to their morphology, taxonomy, and ecology, we will go to the lab and take a look at an array of specimens from the Siskiyou and other Pacific Northwest sites. 7:30 pm in Room 171 of SOU Science Building in Ashland. For more information call Molly Sullivan at 541-770-7933.

## Umpqua Valley

### October 11, Thursday

**Meeting: Flowers from a Swiss Farm,** a presentation by Jim Long. 7:00 pm at the Douglas County Courthouse Annex. Call Jack Hausotter at 541-863-5347 for more information.

## Willamette Valley

*The Willamette Valley Chapter meets the 3rd Monday of the months of September, October, November, January, February, March, April and May. Our meetings are held at 7:00 pm in room 225 of the United Methodist Church, 600 State Street, in Salem. Program details will appear in the Salem Statesman-Journal prior to each meeting; also on the NPSO website, [www.NPSOregon.org](http://www.NPSOregon.org). Or call Karl Anderson, Chapter President, at 503-315-7329.*

## William Cusick

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

## Friends of the Oregon Flora Project



The Oregon Flora Project gratefully appreciates your support.

Your checks for the Flora Project can be made out to NPSO (with "Oregon Flora Project" on the memo line) and mailed to:

Friends of the Oregon Flora Project  
P. O. Box 402  
Corvallis, OR 97339-0402



## OTHER EVENTS

### Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene

#### October 3, Wednesday, 2–4 pm

**Elders Only Walk (55+).** Meet fellow nature-loving seniors and enjoy the flatter trails of the Arboretum on this walk led by Arboretum nature guides. Refreshments served. Meet at the Visitor Center. Suggested donation \$4 non-members. For more information call 541-747-1504.

#### October 6, Saturday, 10 am–Noon

**Kalapuya Walk.** Discover the culture and practices of the original inhabitants of the Mount Pisgah area with Adrienne Schartz, Arboretum Nature Guide. Meet at the Visitor Center. Suggested donation \$3 non-members. For more info call 541-747-1504.

#### October 13, Saturday, 8–10 am

**Early Bird Walk.** Scan the early morning trees and fields for fall birds with bird expert Diane Horgan. Meet at the

Visitor Center. Suggested donation \$3 non-members. For more information call 541-747-1504.

#### October 13, Saturday, 10 am–Noon

**Fall Fruits and Foliage Walk.** Explore the changing of the seasons at Mount Pisgah with walk leader Judith Manning. Meet at the Visitor Center. Suggested donation \$3 non-members. For more info call 541-747-1504.

#### October 20, Saturday, 1–4 pm

**Field Sketching Workshop.** Join natural science illustrator Kris Kirkeby in a field sketching class. Learn how to capture the essence of plants and other details to draw a landscape worth keeping forever! Fee: \$20 (\$15 MPA members). Pre-registration required. Call 541-747-1504.

#### November 4, Sunday, 10 am–3 pm

##### **Pine Needle Basketry Workshop.**

Devote your day to learning the traditional art of pine needle basketry. Learn history, techniques, and skills for creating your own beautiful basket with instructor, Pam Roberts. Fee: \$30 (\$25 MPA members). Pre-registration required. Call 541-747-1504.

#### November 10–11, Saturday–Sunday 10 am–4 pm

**Mushrooming Workshop.** This intensive class for beginning 'shroomers offers instruction on picking, cooking, ecology, folklore, and more! Maggie Rogers leads the class with slide shows, discussion, and field identification. Fee: \$60 (\$50 MPA members). Pre-registration required. Call 541-747-1504.

## 2001 Mount Pisgah Arboretum Mushroom Festival & Plant Sale

The 20th Annual Mount Pisgah Arboretum Mushroom Festival and Plant Sale will take place on Sunday, October 28 from 10:00am to 4:00pm.

The mushroom show presented by the Cascade Mycological Society will include hundreds of species collected from throughout the area, displays on lichens, the cultural uses of mushrooms and exhibits from the North American Truffling Society. Experts from the Society and from Oregon State University will be on hand to answer questions and identify specimens brought in by the public.

Other highlights of the festival include:

- A plant sale featuring native plants and others suitable for fall planting;
- Tours of the Arboretum led by expert trail guides;
- Live music, great food, wine tasting featuring locally-produced wines;
- Vendors offering plants, dried flower arrangements, edible wild mushrooms, mushroom growing kits and mushroom crafts, t-shirts and posters, mushroom cookbooks, and nature books;
- Scarecrow Contest, Hayrides and fun educational activities for children;

Festival attendees are encouraged to park their cars off-site and take part in the free shuttle service. Suggested donation for entry is \$3 per person or \$6 per family. The Arboretum is located off Seavey Loop Road in the Buford Park Recreation Area. Take Exit 189 off of Interstate 5 or 30th Avenue from Southeast Eugene and follow the signs.

For more info call the Arboretum business office at 541-747-3817.

### MOUNT PISGAH ARBORETUM and the Cascade Mycological Society present



### Mushroom Festival & Plant Sale

October 28, 2001 • 10 AM ~ 4 PM



# 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 503-636-4112 or check out their website at <http://www.berrybot.org>.

## September 30, Sunday, 10 am – 3 pm

(not the 15th as printed last *Bulletin*)

**Fall Plant Sale.** Berry Plant Sales are renowned in the Pacific Northwest for their outstanding selection of choice, unusual, difficult-to-find, must-have perennials, shrubs and trees. Nursery stock from over 15 specialty growers and Berry's own plants will be for sale. You'll also find books, troughs, tools, and more. At the Cedar Hills Recreation Center, on Cedar Hills Boulevard at Park Way in Beaverton.

## October 20, Saturday, 10 am – 3 pm

**Time Travelers: Plant Science Over Two Centuries.** We're going back to a time when Thomas Jefferson was President, New York City and Harvard University were just beginning to construct botanical gardens, and Lewis and Clark were on their way across the continent. We'll focus on their Corps of Discovery as we explore the relationships between people and plants, then and now. Classes include The Pressed Plant: 10:00 am, Learn to create herbarium specimens; The Power of the Written Word: 11:00 am, Jefferson's actual instructions to Lewis and Clark, and the extensive journals of the Corps of Discovery; Surviving with Plants and the Lewis and Clark Expedition: 1 pm; Native Plants, Native People, and Lewis and Clark: 2 pm. Please call 503-636-4112 x22 to reserve your space.

## October 24, Wednesday, 1 – 3:30 pm

**Kelly Butte Hike.** Join us for a fall outing in a little-known "natural area," part of our urban wilderness. Geologist Dick Thoms will accompany us as we explore one member of the East County Butte Field. We'll learn about the past, present, and future of a besieged remnant of the Willamette Valley forest. Come prepared for a fun afternoon of bird-watching, botanizing and exploring the wild-urban interface. Logistical and other information will be mailed to registrants. \$8 (\$5 Members) Limit: 15

## October 26, Friday, 10 am – 3 pm

**Native Plant Workshop.** This all day workshop (box lunch provided) explores the unique place Pacific Northwest plants occupy in garden lore, landscape design, and the hearts of gardeners. The day is packed with information: slides, discussion, a garden tour, and great hands-on experience. You'll learn techniques to acquire seeds and cuttings from the wild and the garden. You will also take home loads of starts from Berry's native plant collection. Garden Staff, \$35 (\$32 Members) Limit: 18.

## October 29–November 26 Mondays, 11:30 am – 1 pm

**Botany for Gardeners.** Have you ever wondered why repeated pruning creates a bushy plant? Or how a plant "knows" when to flower? If your enjoyment of gardening has led to questions about the science behind the methods, then this class is for you! Each class will start with a short indoor discussion and then will either move outside for a tour or continue indoors for a hands-on experience with plants. Register for one or all, we will provide beverages, dessert, and supplies (textbook available for purchase). Carolyn Devine, \$8 (\$5, Members) each, all 5: \$32 (\$20 Members)

The Courses: Seed Science, Monday, 10/29/01; Roots and Shoots, Monday, 11/5/01; Designs For Survival, Monday, 11/12/01; Keeping it Under Control, Monday, 11/19/01; Passion in the Garden: From Flowers to Fruit, Monday, 11/26/01

## November 4, Sunday, 1 pm – 5 pm

**Naturescaping for Clean Rivers.** Naturescaping features native plants, natural landscapes, and water-friendly gardening practices. The results are: less water, fewer chemicals, and less maintenance. These directly benefit you, your garden, and the environment. On top of that, you'll attract beneficial wildlife. Each participant receives a free workbook and native plant to take home.

Rain or shine, we'll be going outside to study plants along Berry's Native Plant Trail. Sponsored by and registration through, Portland Bureau of Environmental Services and East Multnomah Soil and Water Conservation District. Free, advance registration required. To register, call 503-797-1842 or email [naturescaping@yahoo.com](mailto:naturescaping@yahoo.com)

## Mushroom Talk

**Much More Than Portobellos: Treasures of the Kingdom of Fungi, A Colorful Journey Through the Beauty of the Fifth Kingdom**

with Taylor F. Lockwood and the Oregon Mycological Society

**October 22, 7:30 pm, World Forestry Center, Cheatham Hall, above the Portland Zoo, no charge**

Taylor F. Lockwood "discovered" the beauty of wild mushrooms and realized how little our culture knows about them. With a background in music, art and the sciences, he's become a naturally-inspired promoter of a largely unsuspected world of unusually beautiful mushroom species. A "mushroom portraitist," he travels with his camera to capture these unique forms of nature's beauty in their best light. With matching music and just enough dialog to set the stage, he shares "the world of wonder at our feet." He's traveled over the U.S., into Australia, Thailand, the Amazon and more in search of these images. He'll present an infectious unforgettable evening.

## October 21, Mushroom Show

Taylor Lockwood will also be at the Oregon Mycological Society's Fall Mushroom Show, also at Cheatham Hall in Portland, on October 21, from noon to 5 pm. For more details call 503-239-4321 or e-mail [rogersmm@aol.com](mailto:rogersmm@aol.com).



# A Sense of Wonder Is Coming To Eugene!

The Northwest Coalition for Alternatives to Pesticides (NCAP) is pleased to sponsor two performances of *A Sense of Wonder*, an inspirational and educational play about the life and work of Rachel Carson. Co-sponsors include the Rachel Carson Center at Churchill High School, Café Mam, and Down to Earth. Award-winning actress and playwright, Kaiulani Lee brings to life the story of Carson's love for the natural world and her fight to defend it.

Three decades have passed since Rachel Carson alerted the world to the devastating effects of pesticides on the environment in her landmark book,

*Silent Spring*. *Silent Spring* became a major best-seller and inspired a generation of activists that ultimately contributed to the founding of an international environmental movement. Last year, *Time* magazine named Rachel Carson as one of its 100 Most Influential People of the Century.

Rachel Carson's editor and biographer Paul Brooks observed of the play, "This is the Rachel I knew brought to life with almost uncanny skill and understanding... a perfect introduction to one of the most influential women of our time." *A Sense of Wonder* has enthralled audiences across the country and around the world.

October 19th and 20th, 8:00 pm, an informal reception will follow the play. The play will be performed at the Churchill High School Auditorium, 1850 Bailey Hill Rd in Eugene.

Tickets are \$8; \$5 for high school students or groups of ten or more.

Regular-priced tickets will be available at the Erb Memorial Student Union at the University of Oregon. Regular and discounted tickets are available directly from NCAP. Call 541-344-5044 ext. 23 to order your tickets.

For more information contact Becky Long at 541-344-5044 ext. 23 or [blong@pesticide.org](mailto:blong@pesticide.org).

## Illustrated Plant Keys Now Available

The interactive keys for computer produced by Flora ID Northwest are now available with color images for virtually all species. Many folks from around the Northwest deserve thanks for allowing their slides to be copied to make this possible. Coincidentally, the Windows software the keys run in has been completely rewritten, resulting in keys that are much easier to use. The prices have been lowered, so that keys for an entire state are \$100, or \$300 for the entire Northwest. Keys are available ("statewide" only) for Southern British Columbia, Washington, Oregon, Idaho, Montana, Wyoming, Utah and Colorado. The distributor is The New York Botanical Garden Press, 200th Street and Kazimiroff Blvd, Bronx, NY 10458-5126, 718-817-8842, [nybg-press@nybg.org](mailto:nybg-press@nybg.org).

The Mac version of the XID software has not been upgraded, but is available with the images on request from the NYBG Press.

Those currently using the keys may get an upgrade to the illustrated version by contacting Bruce Barnes, Flora ID Northwest, 731 NW 5th, Pendleton, OR 97801, 541-276-5547, [flora@ucinet.com](mailto:flora@ucinet.com).

## NPSO Items for Sale

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 is NPSO's second and most recent Occasional Paper, published in 2001. This fascinating, peer-reviewed, 64-page biography includes 56 historic and modern images. It is carefully and exhaustively researched with 133 notes plus chronology, lists of publications and plants named for Henderson. **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 2001). Available from Jan Dobak, 2584 NW Savier St., Portland OR 97210. **\$3 postpaid.**

**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.

**NPSO 40th Anniversary Tote Bag** has been produced by the Corvallis Chapter to commemorate this milestone year for NPSO. It is a sturdy black canvas bag 14"w x 14"h x 3"d featuring our signature *Trillium ovatum* in a screenprinted design by Bonnie Hall. The totes can be ordered while supplies last at \$10 a piece plus \$2 per bag for shipping from: Corvallis Chapter NPSO, 4090 NW Dale Drive, Corvallis, OR 97330. Treat yourself. Then consider Christmas or a uniquely Oregon gift to give on your travels.





# Native Plant Propagation and Restoration Strategies Conference

December 12-13, 2001, Eugene, OR

## Contact

Richard Zabel  
Western Forestry and  
Conservation Association  
503-226-4562  
FAX: 503-226-2515  
richard@westernforestry.org

Register on-line at [www.westernforestry.org](http://www.westernforestry.org) starting this fall. The conference is co-sponsored by The Nursery Technology Cooperative at Oregon State University and Western Forestry and Conservation Association. Call or e-mail the above addresses to get on our mailing list.

The conference topics will cover seed transfer guidelines, field establishment, riparian restoration, propagation techniques, plant quality criteria, project design, invasive species, and project monitoring.

The conference organizers are looking for speakers. If interested please contact: Diane Haase at 541-737-6576 or [Diane.Haase@orst.edu](mailto:Diane.Haase@orst.edu)

If you are interested in displaying a poster or being a commercial exhibitor, contact Richard Zabel (see above).

## A Landmark Assessment of Oregon's Forest Sustainability

October 18, 2001  
Oregon State University

The free symposium is Co-Sponsored by The Oregon Board of Forestry and the Oregon State University College of Forestry. The symposium will be held at the LaSells Stewart Center at Oregon State University, Corvallis, Oregon. For more information contact Casey Norton at the Oregon Department of Forestry, 503-945-7407 or [CNorton@odf.state.or.us](mailto:CNorton@odf.state.or.us)



ROBERT L. WOOLEY

*Dwarf lousewort (also known as long-flowered pedicularis) Pedicularis centranthera.*

## Long-flowered Pedicularis in Oregon

by Robert L. Wooley, Forest Botanist, Fremont National Forest

Dwarf lousewort (also known as long-flowered pedicularis) *Pedicularis centranthera* Gray was found in Oregon in 1927 by Morton E. Peck. Peck apparently made a single collection that is now housed in the OSU Herbarium from a location described as "dry woods" Northwest of Paisley.

In 2001 while conducting surveys for a National Fire Plan project in the Winter Rim area of the Fremont National Forest Gail Lynch, botany technician, found a *Pedicularis* she submitted to me for identification. I keyed the specimen to *P. centranthera* using Abrams and also found it in Peck's *Manual of the Higher Plants of Oregon*. The species had not previously been recorded and entered in the *Checklist of Plants for the Fremont National Forest*.

The specimen came from an arbuscula scab on the summit of a Butte used as a hang glider launch. Several additional populations were located in forested types matching Peck's "dry woods." The area is approximately where Peck's original location was reported and thus I believe represents rediscovery of his 1927 site.

A check of the Heritage records by Bob Meinke shows the species listed as

category 3 "more information needed before status can be determined, but which may be threatened or endangered throughout its range." The *Jepson Manual* lists the species as occurring, but rare, in California with a range extending into Colorado and New Mexico. Information found on the web indicates the species occurs in Bryce and Zion National Parks in Southern Utah where it is known as the Pinyon/Juniper lousewort.

I am interested in any other Oregon sightings of this interesting low *Pedicularis* and would welcome reports of sightings from any NPSO members who may have them. I would like to use this information to assist in making sure any fire hazard projects conducted in the vicinity of the known populations take into account the needs of this species if it is rare (as appears) although it is not currently on the Forest Service Sensitive species list.

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## Pink Sandverbena, *continued from page 109*

wild populations remaining in Oregon it is one of our rarest plants.

Pink sandverbena prefers dynamic coastal habitats between the dune and the high tide line and, like many of us beach lovers, it is a fan of winter storms. It is a poor competitor with other plant species but an effective colonizer of open sands. Big storms kick up waves which reshape large sections of beach, wiping them clean of competitors, creating new pink sandverbena habitat and dispersing its seeds. It is possible that the population dynamics of pink sandverbena are largely controlled by winter storms.

### Threats

Habitat destruction and habitat conversion are the chief reasons for pink sandverbena's decline. Invasions by non-native plants such as European beachgrass (*Ammophila arenaria*) stabilize once-shifting sands, making many beaches and foredunes inhospitable to pink sandverbena. Disturbances by off-road vehicles, like dune buggies, are also problems in some areas.

Because of its steady decline

throughout its range and because of the extent of the threats faced by the remaining populations, pink sandverbena has earned protection of Oregon's Endangered Species Act. It is also listed as a Species of Concern under the federal Endangered Species Act.

### What's Being Done?

To help stem the plant's decline, the US Forest Service, Bureau of Land Management, Fish & Wildlife Service, Army Corps of Engineers, and the State of Oregon have all been cooperating and supporting reintroduction research that began in 1991. The Institute for Applied Ecology currently directs this work and NPSO/IAE interns have been involved in germination studies, large-scale direct seeding, green house propagation and transplanting projects at several sites on the Oregon coast.

My personal introduction to pink sandverbena was far less sublime than the encounter Jim Hamilton had during his walk on the beach. It was in an office in Corvallis where I spent several days preparing pink sandverbena seeds for a germination study. The goal of the study was to determine how long pink sandverbena seeds remain viable.

A single seed develops in each pink sandverbena fruit. They're small. Two or three hundred seeds can easily fit in the palm of your hand. Germination rates are greatest if the seeds are free of the fruit husk. As it dries, the husk forms a tough cellulose case around the seed. So, using an array of clippers and tools you might find in a dentist's office, my fellow interns and I spent several eye-burning days clipping, poking, and prodding seeds from the husks.

NPSO/IAE interns, and before them interns with the Oregon Department of Agriculture's Plant Conservation Biology Program, have collected and stored seeds since 1991. Our first task was to remove 150 intact, healthy-looking seeds from their husks for each of the ten years of seeds collected. Seeds with scarred or damaged seed coats didn't count.

To germinate, *Abronia* seeds require over-wintering. Our recruits spent an abridged five week winter in a refrigerator set to 5°C. Then they were moved to a growth chamber at the Oregon State University Seed Lab. This growth chamber simulated 16-hour day, eight-hour night conditions with temperatures alternating between 30°C and 20°C, respectively.

When we revisited our seeds after two weeks of growth chamber conditions, we were pleased to find that most had germinated. Of the 150 oldest seeds, collected in 1991, 84% germinated—not bad for some old seeds. Germination rates ranged from 63% to 93%. Certainly, storage in a paper bag in Corvallis does not precisely mimic pink sandverbena's beach environment, but it is a good start at understanding seed viability. Some researchers hypothesize that pink sandverbena seeds may lay dormant for years buried in the sands waiting to be uncovered by the next storm, and it is conceivable that they may even remain viable while buried in off-shore sands. Results from this test for the effects of age on seed viability are consistent with the notion that the seeds may be long-lived in the wild.

Although germination rates have been high in controlled situations such as the lab and in small, protected field

*continued on page 118*



*Pink sandverbena growing in the sand.*



## Pink Sandverbena,

*continued from page 117*

plots, establishment of seedlings is low on natural beaches. When seeds are simply scattered on beaches and left to the whims of winds, tides, and storms, only about one in four thousand seeds germinate and survive into the growing season. Finding ways to enhance field germination and growth may help the species' recovery and survival.

### Some Taxonomy

In Oregon and northern California, pink sandverbena goes by the Latin name of *Abronia umbellata* ssp. *breviflora*. In northern Washington and on Vancouver Island, B.C., however, it has been called *A. umbellata* ssp. *acutalata*, based on the length of the floral tube and the shape of the wings on the fruits. Not all botanists agree that the northern plants should be put into a separate subspecies. IAE, with help from interns like me, is growing plants from both Oregon and the recently rediscovered Vancouver Island populations in a common garden to compare many plant characteristics and determine if the two subspecies really are different. This work is being done in parallel with a genetic study of the same populations in progress at Reed College in Portland. Incidentally, *A. umbellata* ssp. *umbellata* occurs on beaches from central California south into Mexico.

### Developing a Conservation Strategy

Pink sandverbena's preference for ephemeral sites means it has always lived on the edge. Individual populations most likely winked in and out of existence as suitable habitat was created by storms and then lost to other storms or to the dune-stabilizing effects of other plants. Recolonization was probably aided by seeds from other populations up and down the coast and by seeds stored on-site.

Though transplants from greenhouses and direct seeding efforts have proved successful at a few locations, the long-term success of re-establishing pink sandverbena populations depends on the recruitment of new plants in the

wild and the ability of at least a portion of them to produce large quantities of seeds.

The next step in efforts to protect this plant is the development of a range-wide conservation plan—something that will begin in Fall 2001. It will most likely include protection of existing populations, restoration of habitat, and the reestablishment of populations throughout its historic range. Effective restoration will also require the control of European beachgrass, which otherwise can usurp most of the available sandverbena habitat. In some areas, dredged sands are successfully being used to mimic storm effects by burying beachgrass and creating open beach habitats.

With the support of NPSO, the Institute for Applied Ecology will continue its efforts to help recover this disappearing species.

### Further reading

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*Close up of pink sandverbena.*



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## Request for NPSO Fellows Nominations

The Fellows Committee is ready to receive nominations for the year 2002. Nominations may be made by Chapters, individual members or the State Board under the following guidelines:

Nominees will be members who have given outstanding service to the Native Plant Society of Oregon (NPSO). They may have been instrumental in establishing the State Organization or a Chapter, or produced distinguished editorial contributions, or served as an inspirational teacher of botany. They may have in other ways contributed valuable work relating to native plants or to the goals of NPSO.

The nominating group or person should prepare a formal letter of nomination for consideration by the NPSO

Fellows Committee. The letter should include detailed biographical and background information about the nominee. A photo of the nominee suitable for an article in *Kalmiopsis* should be provided by the nominator.

After review of the nominating letter, the Committee will make a recommendation to the State Board if the nomination is approved. Acceptance as Fellows will be by vote of the Board of Directors at a State Board Meeting. Fellows will receive a framed plaque and a life membership in NPSO, and will be featured in an article in *Kalmiopsis*.

The NPSO Fellows Committee asks that letters of nomination for the year 2002 be sent by December 1,

2001, to Veva Stansell, PO Box 6077, Pistol River, OR 97444-1575. If this seems like it's rushing things a bit, the reason is that the Committee will present nominations to the Board of Directors at the January Board Meeting. the wheels of Societies and committees turn slowly!

Fellows Committee, NPSO:  
Rhoda Love, Shane Latimer, Veva Stansell.

### For more information please contact:

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