

# *Bulletin* of the Native Plant Society of Oregon

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

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## State News

**State Officers:** The following new state officers have been elected: Bruce Rittenhouse, president; Rhoda Love, vice president; Julie Thiel, secretary; Kari Yanskey, treasurer; Jerry Igo, Ethen Perkins, Peter Zika, directors. The nominating committee wishes to thank all those who ran for office.

## Chapter News

### Blue Mountain

**Meeting:** No meeting in June.

June 4, Sat.

**Field Trip:** Car pool to Bull Prairie Reservoir, south of Heppner. Meet at the NE corner of the Safeway parking lot, Pendleton, 8 A.M. Leader: Karl Urban, 276-8371.

June 11, Sat.

**Field Trip:** Caravan from Ukiah to Heppner, with stops along the way. Meet at the Ukiah USFS office, 10 A.M. Leader is Kari Yanskey, USFS, Ukiah.

### Corvallis

June 11, Sat.

**Field Trip:** Loren Russell will lead to Sanno bog. Meet, 8:30 A.M., OSU parking lot, 26th and Monroe. Bring lunch. Call Dick Brainerd, 758-4500, for information.

June 13, Mon.

**Meeting:** 7:30 P.M. Room 2087 Cordley Hall, OSU campus. Jim Oliphant, OSU botanist, will speak on "The Orchids of Oregon." Call Keli Kuykendall, 758-8409, for more information.

### Emerald

June 11, Sat.

**Field Trip:** Hike up Horsepasture Mt., in the McKenzie Ranger District, with Dave Predeek and Cheryl Friesen. Meet at South Eugene H.S., 8 A.M. Call Jenny Dimling, 465-6321, for more information.

**Meeting:** No meetings until September.

## High Desert

**Meeting:** No meetings until September.

June 18-19  
Sat.- Sun.

**Field Trip:** Fort Rock Valley/Christmas Valley. Overnight trip to see a variety of central Oregon landmarks -- Fort Rock, Fossil Lake and the sand dunes, the Lost Forest, the Black Hills RNA and the state's largest junipers. We will dry camp in an undeveloped spot in the desert. Call Stu Garrett, 389-6981 evenings, for information.

July 9, Sat.

**Field Trip:** Lookout Mountain. This spectacular wildflower hike to a protected area of the Ochoco National Forest is led by Richard Helliwell, Big Summit District botanist. Moderately difficult 5 mile hike. Meet at Ochoco Ranger Station, 9:30 A.M. Call Richard, 447-9645 days, 447-2249 evenings, for details.

Aug. 6, Sat.

**Field Trip:** Broken Top volcano. Annual trip to view spectacular glaciated scenery and alpine wildflowers west of Bend. Moderate to strenuous 5 mi. round trip, with 1500 foot elevation gain. Mostly off-trail hiking through Three Sisters Wilderness, so number limited to 12. **Pre-registration required!** Call Stu Garrett, 369-6981 evenings, to sign up.

Aug. 20, Sat.

**Field Trip:** Three Creeks lake and meadow. Easy hike, led by USFS botanist, Cindi O'Neil, through superb sub-alpine areas to see the unusual Newberry's gentian and other high-elevation flowers. Call Cindi, 389-3085 evenings, or 383-5564 days.

## Mid-Columbia

June 1, Wed.

**Meeting:** 7:30 P.M. Mosier School. A full evening to catch up on many projects and activities. Bring slides, flower prints, or places to find them. We'll share stories.

June 25-26

**Show:** Wildflower show, including plants used by Native Americans and early settlers, at Crates Point Living History Park in the Dalles.

July 6, Wed.

**Meeting:** 7:30 P.M. At Stuart and Mildred Chapin's house in White Salmon. Barbara Robinson will present a program on the wildflowers of the high country.

## North Coast

June 4, Sat.

**Field Trip:** Easy hike on newly restored Peninsula trail on Trask River to see *Sidalcea hirtipes* and *Dodecatheon austrofrigidum*. Meet at Tillamook PUD parking lot, 9 A.M., for car pooling. Trip leader is Jim Winslow, 842-4131.

June 12, Sun.

**Field Trip:** Mountain biking trip to Blue Lake Ridge. Area has flora similar to Saddle Mt., with some of the highest peaks in the Coast Range. Moderate biking on good, gravel roads, with 1,500 foot elevation gain. Trip size is limited. Call Jim Winslow, 842-4131, for more information, and to **preregister**.

June 28, Tues.

**Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell Ave. Program to be announced. Call Jaylen Jones, 842-7710, for information.

## Portland

June 2-5, Th-Sun. **Field Trip:** Special 4 day trip to Hart Mt. National Wildlife Refuge, led by Lucile Housely and other botanists, to discover and photograph wildflowers in that unique geological region of southern Oregon. Meals, transportation and accommodations included for \$395, with 9-person maximum, 6-person minimum. A \$5- tax deductible donation will go to NPSO. Call Annmarie Housely, 282-0189, for information.

Regular field trips meet, 8:30 A.M., at Oregon Dept. of Transportation, NE 60th & Glisan, unless otherwise specified. Distances given are for round trips. Take lunch and rain gear. Contact trip leaders, or Mary Vogel (see below), for other questions.

June 4, Sat. **Field Trip:** Hamilton Mt. in the Columbia Gorge, led by Carroll Dubuar, 234-4135. 2nd meeting place at trailhead parking area, Beacon Rock State Park, 1/4 mi. north of WA Hwy. 14, 9:15 A.M. Hike passes waterfalls, rocky outcroppings, dramatic cliffs, on the way to wildflowers. Distance: 9 mi. loop; Elev: 2100'; Car miles: 76.

June 12, Sun. **Field Trip:** Grassy Knoll in the Columbia Gorge, led by Jon Shane, 235-0013. Hike traverses forest communities on the way to a grassy bald, offering spectacular views and fields of wildflowers in bloom. 180 species, including 3 rare CG endemics are found here. Distance: 5.5 mi.; Elev: 1200'; Car miles: about 140.

June 14, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 SW Jefferson St., Portland. Dr. Joy Belsky will provide a stimulating, provocative argument supporting her thesis, "Why grazing should not be allowed on public lands." Here is your opportunity to hear the facts on this controversial subject from a rangeland expert.

June 18, Sat. **Field Trip:** Salmon River Trail, Mt. Hood National Forest, led by Maxine Wilson, 655-1523. Explore the plant communities of the old growth forest and rocky outcropping along the trail. Distance: 7.4 mi.; Elev: 800'; Car miles: 88. **Meet at Ashley's Restaurant, junction of highways 26 and 212.**

June 25, Sat. **Field Trip:** Little Crater Lake, led by Lance Holmberg, botanist at Bear Springs Ranger District, 328-6211. 2nd meeting place, Skyline Sno Park, Forest Service road 42, off Hwy. 26, 9:45 A.M. Distance: 3 mi.; Elev: reaches 5000'; Car miles: 140. Features pale blue-eyed grass, penstemons, "flowering log gardens." Take waterproof footwear for the meadow.

July 2, Sat. **Field Trip:** Bald Mt.-Salvation Springs up Lolo Pass. *Erythronium montanum* is likely to be in bloom. **Meet at Ashley's Restaurant**, as above. Call field trip coordinator Mary Vogel, 645-1992, for more information.

**Officers:** New officers elected were: Sue Allen, president; Mike and Nancy Fahey, first vice president/programs; Mary Vogel, second vice president/field trips; Marvel Gillespie, secretary; Jean France, treasurer.

## Siskiyou

**Meeting:** There will be no meetings until September.

June 11, Sat. **Field Trip:** Barbara Mumblo will lead to Miller Lake Botanical Area. Will see Baker's cypress and Brewer's spruce. Meet, 9 A.M., Star Ranger Station (7 miles south of Ruch).

June 25, Sat. **Field Trip:** Working field trip. Please come and help pull star thistle from the summit of Table Rock. Work with folks from The Nature Conservancy and BLM. Meet at Lower Table Rock trailhead, 8 A.M.

July 4, Mon. **Show:** Irene Hollenbeck Memorial Wildflower Show, at Lithia Park. Call Barbara

Mumblo, 899-1812 (at work), if you want to help.

**Officers:** New officers are: Joan Seevers, president; Rick Prusz/Frank Lang, vice presidents; John McClendon, secretary/treasurer; Barbara Mumblo, field trips. David Kennedy, conservation chair.

## South Coast

June 4-5,  
Sat.-Sun.

**Field Trip:** Vulcan Lake, Kalmiopsis Wilderness. **Pre-registration required.** Enjoy day hikes into Kalmiopsis Wilderness to see many rare plant species including *Kalmiopsis leachiana*. Limit of 12, because of wilderness restriction. May have two groups if interest is high. For information and registration, call Bruce Rittenhouse, 888-9328.

## Umpqua Valley

June 4, Sat.

**Field Trip:** Down the Coos Bay Wagon Rd., and up Cherry Creek, to see the Cherry Creek "big fir," enjoying roadside flowers along the way. Picnic at Big Tree Park. Meet at BLM parking lot, 777 NW Garden Valley Blvd., 7:45 A.M., for car pooling, with 8 A.M. departure. Call Jack Stubbs, 673-8046, for information.

June 9, Thurs.

**Meeting:** 7 P.M. Room 310, Douglas County Courthouse.

June 18, Sat.

**Field Trip:** To Eel Creek in Coos County. Meet at BLM parking lot, 777 NW Garden Valley Blvd., 7:45 A.M. for car pooling, with 8 A.M. departure. Call Richard Sommer, 673-3709, for more information.

## Willamette Valley

June 4, Sat.

**Field Trip:** Estacada-Detroit loop driving trip, led by George and Harriett Schoppert. Easy trip for everyone, to see mountain flora and points of interest along the way. Meet, 8 A.M., South Salem K-Mart parking lot on Mission Street, or 9 A.M., Gingerbread House, Hwy. 22 at Mehama.

June 18, Sat.

**Field Trip:** Bruno Meadows, led by Clint Urey. A mid-mountain wet meadow, with a variety of interesting flora. Easy hike. Meet, 8 A.M., South Salem K-Mart, on Mission Street.

June 20, Mon.

**Meeting:** 6:30 P.M. Meet in St. Mary's parking lot for car pooling from Shaw to the Mader farm. You can get to Shaw by taking the Silver Falls exit off Highway 22, east of Salem. For more information call, 399-9680.

June 24-25  
Fri.-Sat.

**Field Trip:** Illinois River Valley of southwest Oregon, led by Glenn and Barbara Halliday, to see the great floral diversity of the area, including Volmer and Bolander lilies in flower. Come for one, or both, days. Meet, each day, 8 A.M., at grocery store in Selma, U.S. Hwy. 199, southwest of Grants Pass.

July 9, Sat.

**Field Trip:** French Creek Ridge, a mid-mountain trip east of Salem, led by Wilbur Bluhm. Great plant variety includes the white rhododendron. Easy to moderate hike. Meet, 8 A.M., South Salem K-Mart parking lot, on Mission Street.

July 31, Sun.

**Field Trip:** Coast Range with Larry Scofield. Details in next month's Bulletin.

Wm. Cusick

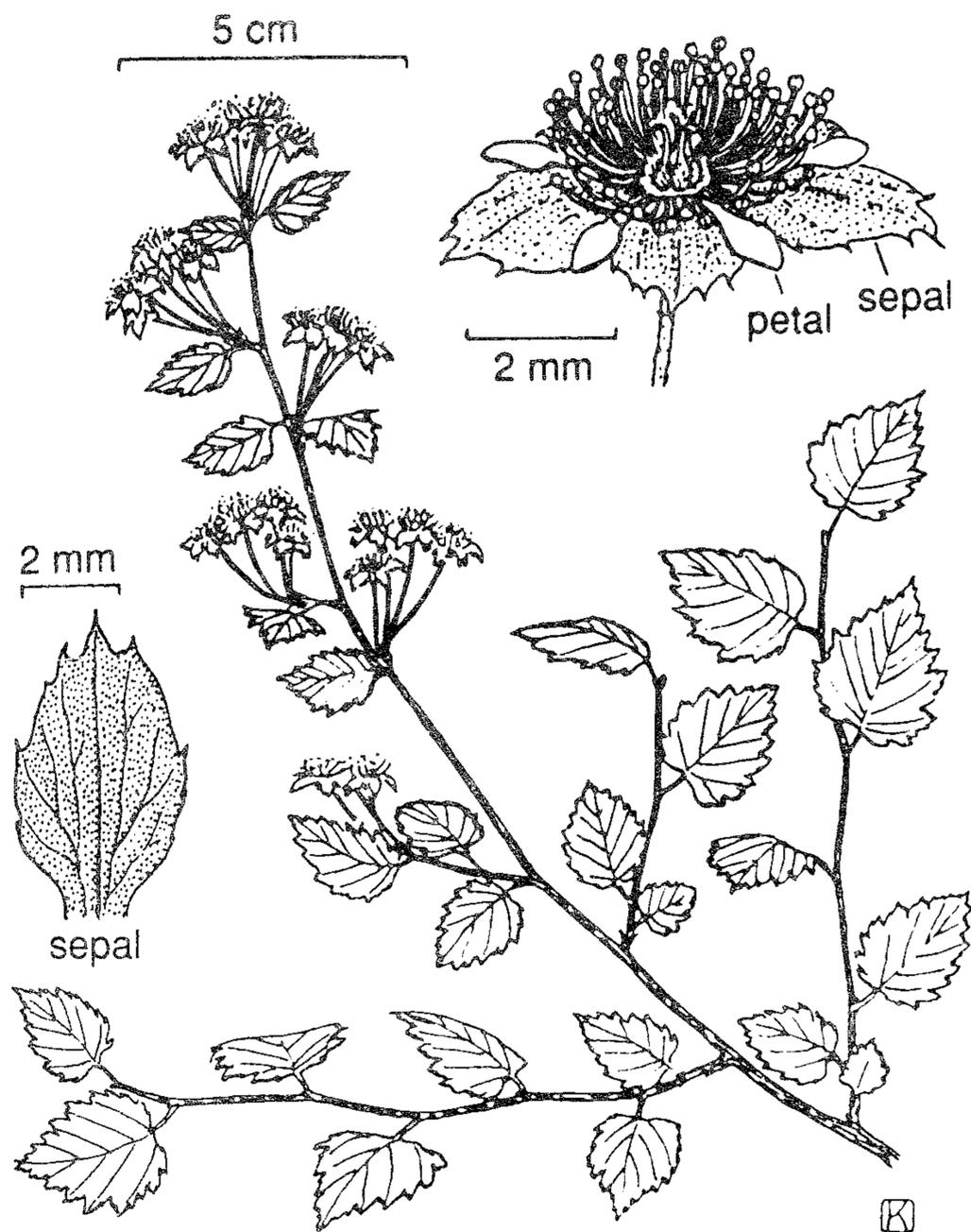
Meeting: Call Bob Ottersberg, 963-6043, for information.

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. 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.

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. Each group using wilderness areas should be no larger than 12.



*Neviusia cliftonii*

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## President's Column

To begin my last column as outgoing president, there are several people I wish to thank for all their patience and support -- the Bulletin editors Bryan Boyce and John Robotham were both extremely flexible and accommodating; Jan and Dave Dobak for all their work, and all the board members who were so cooperative at meetings and made my job so pleasant and easy.. It has been a productive two years for the Society. We have seen great progress being the voice for native plants in Oregon, but we have much left to do. This task will be getting easier, I feel, over the next few years, with the development and implementation of the North American Native Plant Conservation Strategy. I recently represented the Society in a meeting in Phoenix, to begin the initial work on this project. The goal of the first meeting was to build a network for rare plant conservation among federal, state, academic and non-government groups such as ours. The dialog was productive, the task ahead enormous, and the interest, energy and enthusiasm high. We spent the first day outlining our expectations for the session and spent the second day in break out groups for research, conservation actions, public awareness and education and information and data bases. From these groups we generated action items and prioritized tasks. The third day was spent in regional groups. It was the strong feeling of the entire group that the strategy would best be implemented on a regionally coordinated level. The group assembled was not meant to be all inclusive this time, only representative of native plant interests. There are plans for a larger session next year. One exciting outgrowth of this was the decision among native plant societies to form an umbrella organization for the purposes of coordination, and possibly better representation to law makers.

Lisa Croft

As the incoming president, I hope to continue with these efforts and continue to strengthen our role in conservation issues in Oregon. I am looking forward to the challenges ahead and look forward to your input on the direction for the Society to take.

Bruce Rittenhouse

## We Welcome New Members Joining 2/20/94 - 4/17/94

### Blue Mountain

Whittaker, Jim and Ruth

### Corvallis

Brophy, Laura  
Damitio, James  
Pyke, David A.  
Stilwell, Frances P.

### Emerald

Bohn, Barbara  
Koester, Heiko  
Landon, Jim  
Pauly, Linda

### High Desert

Castillo, Steve  
Harless, Susan  
Jeffers, Cindy  
Padgham, Joyce

### Mid-Columbia

Buchholz, Martha  
Duncombe, Sally  
Herzig, Tom and Connie

### North Coast

Bartlett, Jan  
Gienger, Sally

### Portland

Allen, Alyce  
Bowers, Prudy  
Cromwell, Debra J.  
Fast, M. Beth  
Grimm, Nancy  
Gross, Dave  
Hartline, Jane  
Karoly, Keith  
Orlean, Debra  
Plov, Giner  
Wilcox, Susan

### Siskiyou

Maurer, Carrol  
Straw, Richard

### Umpqua Valley

Yates, Zola

### South Coast

Button, Clair  
Field, Dana  
Slane, Verna

### Willamette Valley

Hays, Ron  
Murray, Lenore and Harold

### At Large

Eno, LeAnn  
Rondeau, J. Hawkeye

Because of the excess of material received for publication in the Bulletin, the following article, and one to be published next month, have been held over for several months.

## Botanical Treasures on Public Lands

### Chapter One

Field season 1993... Botanists, students, volunteers and others working for (or with) the Bureau of Land Management (BLM) were hiking, walking and crawling the public lands of Oregon and Washington "in search of ..."

Nearly 32, 000 acres were inventoried last year, involving over 60 different plant species. Discoveries were many, including several notable range extensions. Monitoring of almost 55 species and an array of vegetation plots turned up more new discoveries. These activities were frequently coordinated and conducted with other federal and state agencies, as well as with universities and private organizations. Chapter one focuses on the highlights of the 1993 field season for the "east side" Oregon/Washington BLM districts. Look for the continuing saga in Chapter two, revealing the "west side" district botanical treasures managed on your public lands.

#### Lakeview District (Klamath Falls Resource Area) -- Oregon

Applegate's milk-vetch (*Astragalus applegatei*), listed as one of Oregon's rarest plants, is only known to occur on commercially zoned private sites in the Klamath Basin. Habitat suitable for the species is described as moist to wet meadows. So with that in mind, Resource Area botanist, Lou Whiteaker, focused an inventory on 350 acres of wet meadow on public lands within the Basin. Lou, assisted by botanist Dale Landrum, conducted an exhaustive search, but unfortunately no populations were located. "At this time, we can't be sure of the reason," said Lou, "but it may be due to different types of soil between the inventory site and the known population area."

The entire Stukel Mountain population of Columbia yellow-cress (*Rorippa columbiae*), a federal candidate 2 (C2) species, was surveyed in mid-July. Assisting BLM were 12 botanists representing the Winema, Rogue River and Umpqua National Forests, and their efforts to locate new plants on both public and private lands was a success. Lou

reports findings of 54 plants, many still seedlings. This represents an increase from the 26 plants found in 1992. Of the total, ten were on BLM lands, compared to six previously known.

Responding positively to the effects of the 1992 John Springs fire was blue-leaved penstemon (*Penstemon glaucinus*). Qualitative monitoring of this C2 species on the Yainax Butte proposed Area of Critical Environmental Concern (ACEC) showed the population was doing well.

Conducting plant clearances for proposed projects led to new discoveries of a C2 species -- three populations of mariposa lily (*Calochortus longebarbatus* var. *longebarbatus*), as well as several Bureau assessment species -- two populations of wild onion (*Allium campanulatum*), and four populations of fringed campion (*Silene nuda* ssp. *insectivora*).

#### Burns District -- Oregon

Relocating and discovering new populations of several C2 species were the benefits of 1993 inventories conducted by Nora Taylor, range conservationist for the Three Rivers Resource Area (RA). Two previously known (but not recently observed) populations of Columbia yellowcress (*Rorippa columbiae*) were relocated, and two new populations were discovered in the Harney Lake area. Assisting Nora in this effort was a Native American student from the Organization of Forgotten Americans. Three new populations of bastard kenotrophyta (*Astragalus tegetarioides*), and three of Leiberg's clover (*Trifolium leibergii*) were discovered, including the first population of the clover to be found on the west side of the Middle Fork of the Malheur River. All new and previously known populations were vigorous and healthy when observed.

One of the two known populations of Davis' peppergrass (*Lepidium davisii*) was monitored by Rick Hall, plant coordinator for Andrews RA. Rick found that while past droughts had some adverse effects on the number of plants, the wet spring of 1993 dramatically rejuvenated seedling numbers produced by this C2 species. The Burns and Vale district offices drafted a joint Conservation Agreement for this peppergrass with the U.S. Fish and Wildlife Service (FWS) which will be completed in 1994.

Kathy Cushman, district botanist, also reported on monitoring activities for several C2 species. Three populations of weak milk-vetch (*Astragalus soli-*

*tarius*), which had been slightly affected by past drought, are expected to revive following some average rain years. A monitoring station was established near the summit of Steens Mountain to determine the effects, if any, increased recreational use may have on Steens Mountain paintbrush (*Castilleja pilosa* var. *steenensis*). Populations of Biddle's lupine (*Lupinus biddlei*), which were severely impacted by past years of drought, showed an overall decrease in numbers, but it was a good flowering for remaining plants.

### Vale District -- Oregon

During inventory and plant collections along the upper and lower canyon segments of the Owyhee River, new populations of two composites and one legume were discovered. Ertter's groundsel (*Senecio ertterae*), a C1 species, is a local endemic found growing only in volcanic tuff. Cusick's pincushion (*Chaenactis cusickii*), a C2 species is an Owyhee upland ash endemic. Sterile milk-vetch (*Astragalus sterilis*), another C2 species, which prefers growing only in a certain layer of volcanic ash. As its name implies, this last species has difficulty setting fertile seed. While all three species may be found in close association with each other, each depends on a different ash/volcanic formation within the Owyhee River drainage.

Inventory work in the Jordan RA relocated a population of collomia (*Collomia renacta*), a C2 species, last found in 1896! Coordination with another earlier investigator, Elaine Joyal, refined district database information on the type locality.

New populations and significant range extensions for Cronquist's stickseed (*Hackelia cronquistii*) were recorded by Lynda Smithman. She identified numerous populations along the small hill range just east of Payette, Idaho. This is the first time this C1 species has been found across the Snake River in Idaho. Betty White, amateur photographer from Adrian, Oregon, brought photograph of the species to Jean Findley, Vale District botanist. A field visit confirmed the new population, the first identified south of the Owyhee River.

A downward trend continues in populations of Mulford's milk-vetch (*Astragalus mulfordiae*). At a density study site, a large percentage of dead plants were discovered during 1993 monitoring activities. Jean stated that, "Signs of herbivory and a seven-year drought may have been contributing factors in the losses, but we hope to learn more by establishing additional monitoring plots this year."

A management plan was drafted in 1993 for the Leslie Gulch ACEC. The plan was prepared under a Conservation Agreement between BLM and FWS to conserve Ertter's groundsel (*Senecio ertterae*), a C1 species, and two C2 species, grimy ivesia (*Ivesia rhypara* var. *rhypara*) and Packard's mentzelia (*Mentzelia packardiae*).

### Prineville District -- Oregon

Ron Halvorson, district natural resource specialist, reported on new population discoveries in 1993 for several C2 species. In Grant and Wheeler counties, Washington monkeyflower (*Mimulus washingtonensis*) was doing extremely well at 19 new locations. Seven more populations of arrowleaf thelypody (*Thelypodium eucosmum*) were found in remote, nearly inaccessible tributaries of the John Day River. While visiting a proposed land exchange parcel, one new population of Peck's long-bearded mariposa lily (*Calochortus longebarbatus* var. *peckii*) was discovered. Based upon the species as a whole, which is primarily found in the Ochoco NF, this is not a critical population. However, three new populations of Tygh Valley milk-vetch (*Astragalus tyghensis*) were found in the Criterion Ranch area; they were beyond the previously known range for this species, so this was an important discovery.

Although colonial luina (*Luina serpentina*) is found primarily in the Malheur NF, there are three known populations on BLM lands north of the forest boundary. Inventories of remaining potential habitats south of Mount Vernon did not turn up additional populations of this C1 species.

BLM is the primary agency managing the endemic C2, *Astragalus diaphanus* var. *diurnus*, and in 1993, inventories for this species continued along the South Fork of the John Day River. Ron stated that milk-vetch did very well this year, showing a tremendous increase in seedling survival in response to the excellent spring moisture. One new population was found and one known population had significantly expanded within its immediate habitat.

Benefits of a wet spring were evident from studies of another C2 species. A Forest Service employee from the Columbia River Gorge NSA assisted in monitoring smooth lomatium (*Lomatium laevigatum*) by using a transit to locate individual plants on a sheer rock wall. The plants near Biggs Junction appear to be recovering from drought.

Qualitative monitoring studies were conducted on populations of several C2 species which were reported to be doing well: pumice grapefern (*Botrychium pumicola*); green-tinged Indian paintbrush (*Castilleja chlorotica*); Washington monkeyflower (*Mimulus washingtonensis* var. *washingtonensis*); and arrowleaf thelypody (*Thelypodium eu-cosmum*).

Is the build up of thatch detrimental to *Calochortus longebarbatus* var. *peckii*? In November, 1992, to learn if this assumption was valid, 10 randomly-selected quadrants within a population excluded from grazing were burned. Burned and unburned quadrants were sampled last July, and data collected is yet to be tabulated. At this time, it doesn't appear the results will show a significant difference. A problem encountered in the study was that the late-season burning failed to completely remove a thick layer of moss beneath the standing vegetation. Natural fire would have most likely occurred during conditions promoting a hot all-consuming fire.

#### Spokane District -- Washington

Nearly a third of all public lands in the Spokane District have been surveyed for rare, threatened and endangered plants, which led to documenting the occurrence of 16 federal candidates. Since 1987, monitoring information has been collected on several of these species, in an effort to understand their life histories and plant community interactions, and to determine the effects of current management practices. Some of the Columbia Basin plants include a C1 species, Columbia milk-vetch (*Astragalus columbianus*), and several C2 species: Hoover's desert-parsley (*Lomatium tuberosum*), Hoover's tauschia (*Tauschia hooveri*), Columbia yellow-cress (*Rorippa columbiae*), whited milk-vetch (*Astragalus sinuatus*), and a locoweed (*Oxytropis campestris* var. *wanapum*). Highlights from three more species follow.

It was not until 1989 that populations of Washington polemonium (*Polemonium pectinatum*) were known to occur on public lands within the Coal Creek drainage in Lincoln County. Since then, inventory work for this C1 species revealed 15 new locations on public lands, several of which have recently come into BLM ownership through land exchanges. Baseline information on the population, community and seed bank dynamics of the species was collected in 1991 and was expanded to 11 permanent transects in 1993, so that the effects of grazing and hydrology can be determined.

A helicopter survey was conducted in 1992 to spot further potential habitat. Ground truthing, based on aerial observations took place in 1993, revealing two new populations of polemonium.

Dozens of potholes, small lakes and ponds were evaluated by Barbara Benner (Border RA), for populations of a proposed threatened species, *Howellia aquatalis*. The nearby Turnbull National Wildlife Refuge staff assisted in the BLM survey effort by sharing their clues to habitat recognition. This intensive inventory was conducted on an 8000-acre tract of the recently acquired Fish Trap property in Lincoln County, not far from other known locations. Pamela Camp, district botanist, said that this howellia is a particular challenge to survey. "It's a very small, rooted aquatic, is an annual with a short life cycle, doesn't bloom every year if conditions aren't right, and can be easily overlooked, especially when the day is cloudy." More surveys will be conducted by BLM in 1994 ("If it's not a drought year") through a challenge cost share with the Washington Natural Heritage Program.

Spalding's silene (*Silene spaldingii*), a C2 species, was located on public lands in the Coal Creek drainage in September 1993. This discovery represents an eastern range extension for this plant which is known to be distributed in the Palouse. Although the plant was dry and had set seed, it was distinctive enough to identify. A reconnaissance of other public lands in the vicinity turned up an additional 14 populations located in four different drainages in Lincoln and Spokane counties.

So, as you can see, it was a busy and productive year for "east side" BLM district offices of the Pacific Northwest. And those were only the highlights! Some districts have already dropped hints of what's in store for 1994, and this season should reveal many more discoveries, and answer many more questions, about the wonderful botanical treasures on public lands.

Barb Masinton  
BLM Botanist

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## Shasta Snow-Wreath: Visiting a Newly-Discovered California Shrub

On May Day weekend, two Emerald Chapter members traveled to Shasta Lake, north of Redding, California, to see a, newly-discovered rose family shrub, the Shasta snow-wreath, *Neviusia cliftonii*.

The botanical world was thrilled in 1992, when a pair of botanists, exploring a limestone hillside east of Redding, discovered this heretofore unknown shrub, which turned out to be a new genus for California. When a new woody plant is discovered close to a major highway, as this one was, it seems to show what we have long suspected, that the botanical exploration of the West is far from finished. If a shrub such as the snow-wreath could have escaped the eyes of dedicated plant-hunters for nearly 200 years, what other new treasures await us in the mountains, deserts and wetlands of our region?

Five articles in the July, 1993 "Fremontia," journal of the California Native Plant Society, describe the exciting story of the discovery and naming of *Neviusia cliftonii*. Shasta snow-wreath was named, described and published in time to be included in the new "Jepson Manual." A search of literature and herbaria revealed that its closest living relative, the Alabama snow-wreath, *Neviusia alabamensis*, is itself a rare shrub, growing 2,000 miles away, in a few scattered locations in several southeastern states. This type of disjunct distribution is taken by plant geographers as evidence that the genus *Neviusia*, was once spread across our continent, at a time when the North American climate was milder than it is today. More distant relatives of the snow-wreath, in several other genera, are known from China and Japan.

Shasta snow-wreath is now known from a handful of sites near Lake Shasta. The shrub prefers a shady, north-facing slope and is invariably found on limestone soil close to a perennial stream. Two Emerald Chapter members, using maps and site information supplied by former NPSOer Julie Kierstead Nelson, now a botanist with the Shasta-Trinity National Forest, drove south of Weed the weekend of April 30 - May 1. We chose the Waters Gulch Trail, near Packer's Bay, as the most accessible site. The trail along the north side of Waters Gulch Creek, passes through a rich forest of conifers and broad leaved trees and shrubs and brightly-colored herbaceous wildflowers. We had

hiked perhaps a quarter of a mile when we found *Neviusia* right beside the trail, looking just like its photos in "Fremontia." The shrub has slim, reddish branches and lacy toothed leaves a bit reminiscent of ninebark or ocean spray. Snow-wreath flowers have 5 relatively free sepals and around 50 snowy white stamens. Those we saw did not appear to have petals.

The entire Waters Gulch plant community was exciting. In the July, 1993 "Fremontia," botanist Barbara Ertter, of the herbarium at the University of California at Berkeley, describes this ecosystem as rich in relict species from the Tertiary. We will not include a complete list here, but some of the unusual species we saw included the woody plants California buckeye (*Aesculus californica*), redbud (*Cercis occidentalis*), snowdrop bush (*Styrax officinalis* var. *redivivus*) and the unusual California ash (*Fraxinus dipetala*) with its two petals and two stamens. A couple of the unusual and showy herbaceous flowers were fire-cracker flower (*Dichelostemma idamaia*), red larkspur (*Delphinium nudicaule*) and the mint-like hydrophyll (*Draperia systyla*).

Please get in touch with one of us, if you wish more information about *Neviusia*. We hope to offer a May Day, 1995 trip to California, to again visit the plant and this wonderful area. Watch your "Bulletin" for more information next spring. But, beware, everywhere it is found, snow-wreath has a close and constant companion, poison oak!

Charlene Simpson and Rhoda Love  
Emerald Chapter

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### Nature Conservancy Seeks Volunteers

The Nature Conservancy seeks volunteers to collect native plant materials and assist in their propagation. Restoration projects in the Portland area are limited by the lack of locally collected and propagated native plant material. Native plant materials that are available, in many cases, originate from sources outside the Portland area. Non-local plant material may negatively affect the local genetic diversity and reduce the success rate of those restoration projects. To address this problem, the Oregon Chapter of The Nature Conservancy, through a grant from Metropolitan Greenspaces/Demonstration Restoration Program, will develop a plant source comprised of locally collected plant materials. If you are interested in participating in a pioneering restoration project, The Nature Conservancy welcomes your help. Call Sarah Clausen or Doria Mateja, (503) 228-9561.

## Jepson Manual Errata

Some errors have been discovered in the new "Jepson Manual." The Friends of the Jepson Herbarium will publish errata in their quarterly members' newsletter. They would like to hear from anyone who has problems with descriptions or in using keys. Contact them at:

Friends of the Jepson Herbarium  
Jepson Herbarium  
University of California  
Berkeley, California 94720  
Telephone: 415-643-7008

## Nylon Book Covers Available

Teresa Rounds makes custom cordova book covers, with straps and velcro closure, for The Jepson Manual and other field guides, including bird books. She could also make a cover for your Hitchcock, if requested. A Jepson cover is \$15, including postage. Contact her at:

P.O. Box 30982  
Santa Barbara, California 93130  
Telephone: 805-569-8885

Here is an addendum for the missing family, *Balsaminaceae*, taken from "The Jepson Globe," vol. 5, no. 1, 1993.

Jan Dobak  
Portland Chapter

[Addendum to the first and second printings of *The Jepson Manual: Higher Plants of California*. Balsaminaceae was inadvertently left out of *The Jepson Manual*. It should be inserted after Asteraceae. The family appears in the "Key to Families," pg. 86.]

### BALSAMINACEAE TOUCH-ME-NOT FAMILY

Dieter Wilken

Ann, per, gen glabrous. ST watery to fleshy. LVS simple, alternate, opposite, or whorled, petioled; blade gen toothed, veins pinnate; stipules gen +/- 0. INFL: cyme, umbel-like, terminal or axillary, 1-8-fld. FL bisexual, bilateral; sepals 3-5, free; petals 3 or 5, unequal, free or +/- fused; stamens 5, filaments short, +/- flat, anthers +/- fused above stigma; ovary 1, superior, gen 5-chambered, stigmas 1-5, sessile. FR: capsule, explosive. 2-4 genera, +/- 800 spp.: trop, warm temp; some orn. [Wood 1975 J Arnold Arb 56:413-426]

### IMPATIENS TOUCH-ME-NOT, JEWELWEED

LVS alternate. FL sepals 3, lateral 2 < lower (sometimes much reduced or 0), gen greenish, lower 1 pouched, gen spurred, colorful; petals 3, lower 2 notched to unequally 2-lobed, upper 1 gen < lower, entire, often keeled on back. 500-600 spp.: trop, warm temp Am, Eurasia, Afr. (Latin: impatient, from explosive fr). Petals also interpreted to be 5, lower 4 fused in 2 pairs.

1. Petals gen pink to purple, sometimes almost white, not spotted; sepal spur straight to curved < 90° ..... *I. balfourii*  
1' Petals yellow, red-spotted; sepal spur curved +/- 180° ..... *I. noli-tangere*

*I. balfourii* J.D. Hook. Ann, 1.5-10 dm. LF: blade 2.5-4 cm, lanceolate to widely ovate, gen acuminate, sparsely short-hairy. INFL 4-8-fld, axillary and terminal. FL: lower sepal, incl spur, 16-22 mm, lateral sepals 2-5 mm. Wet sites, streambanks; < 1000 m. NCo, n CCo, s SnFrB, ne SCo; native to Himalaya Mtns.

*I. noli-tangere* L. Ann, 2-6 dm. LF: blade 3-12 cm, elliptic to ovate, acute, +/- glabrous. INFL gen 2-fld, axillary. FL: lower sepal, incl spur, 10-25 mm, lateral sepals 4-6 mm. Disturbed, moist, often shaded sites; < 500 m. n NCo; to AK, n ID, Eurasia. [*I. occidentalis* Rydb.] Probably introduced in CA as orn.

## Oregon Vascular Plant Checklist

The Oregon Vascular Plant Checklist Group was formed on March 25th, 1994 at the Oregon State University Herbarium to write a checklist of the native and naturalized plants of Oregon. The group consists of Ken Chambers, Richard Halse, Jimmy Kagan, Aaron Liston, Bob Meinke, Brad Smith, Scott Sundberg, Karl Urban and Peter Zika. Other botanists will be invited to contribute treatments of various genera and families. The project is sponsored by the OSU Herbarium and is being coordinated by Scott Sundberg. The intention is to critically review and evaluate names that have been applied to plants in Oregon, and provide a list of currently accepted Latin names.

The checklist will include names for all species, subspecies and varieties of native and naturalized vascular plants occurring in Oregon. Names of Oregon plants included in "A Manual of the Higher Plants of Oregon," 2nd ed., Peck, 1961; "Flora of the Pacific Northwest," Hitchcock & Cronquist, 1973; "The Jepson Manual," Hickman, 1993; "An Illustrated Flora of the Pacific States," Abrams & Ferris, 1940-1960; "Intermountain Flora," Cronquist et. al., 1972-present; and "Flora of North America," Morin et. al., 1993-present, will be listed in the checklist, either as accepted names, or as synonyms. The widely used common names will also be included, and, where possible, native or non-native status of each plant name will be indicated. For species, subspecies or varieties that are new to the flora, we will give literature citations to guide users to additional information.

Although the checklist group was formed only recently, we already have a solid foundation from which to work. Much of this is thanks to Karl Urban, who, through sacrifice of one computer, possibly some of his eyesight, and probably pounds of skin flaking off his overworked fingers, produced a database of plant names, distributions, synonymy and acronyms for Oregon and Washington. He was assisted in this effort by Ken Chambers and Brad Smith. The database was mostly completed in 1989. Information was compiled from floras available at the time (Peck, Hitchcock & Cronquist, Abrams & Ferris, Munz & Keck), articles in "Madrono," records from the OSU Herbarium, and the observations of Ken Chambers. Since then, a few new floras and dozens of new monographs have provided new information. In addition, the recently published "A Synonymized Checklist of the Vascular Flora of the United States, Canada and Greenland," 2nd

ed., Kartesz, 1994, is useful as a bibliographic aid. The checklist group will be modifying Karl Urban's list by adding new floristic records, evaluating inconsistent nomenclature, and adding information on native status of Oregon plants.

On March 25, Karl transferred his database file to a computer in the OSU Herbarium. The file occupied over five megabytes of disk space. The database uses Paradox software, and can easily be updated, analyzed and manipulated. Since then, we have been gradually modifying the database. Right off the bat, Ken Chambers pulled out his copy of Peck's "Manual" (where he had been noting changes with his ball-point pen) and entered about 80 new records for Oregon, records he had gathered during decades of reading monographs and identifying specimens sent to the herbarium. Currently, we have a list of over 4,000 plant species, subspecies and varieties. This number will change, perhaps dramatically, before the list is complete.

The effort involved in completing this checklist is enormous. We will review literature in dozens of journals, published around the world and dating back to the 1960's. We will examine specimens of almost all plants included in the list, and will decide on the names to use. We will also seek out new records of plants in Oregon by consulting botanists throughout the state and by examining herbarium specimens.

How you can help. The checklist will eventually involve input from dozens of botanists. Because inclusion of plant names will require that we see specimens, before adding to the list, we especially want to encourage anyone who knows of new plant records for Oregon to contact us and send specimens documenting their finds. In the Corvallis area, we could use help in a variety of tasks. We need help proofreading the list and checking it against a national species checklist. We could also use help in doing library research and xeroxing. Finally, there are several tasks in the herbarium related to the project that could be done by qualified volunteers. If you would like to volunteer, please contact Scott Sundberg at 503-737-4106, Department of Botany and Plant Pathology, Oregon State University, 2082 Cordley Hall, Corvallis, Oregon 97331. New records can be reported to any member of the group.

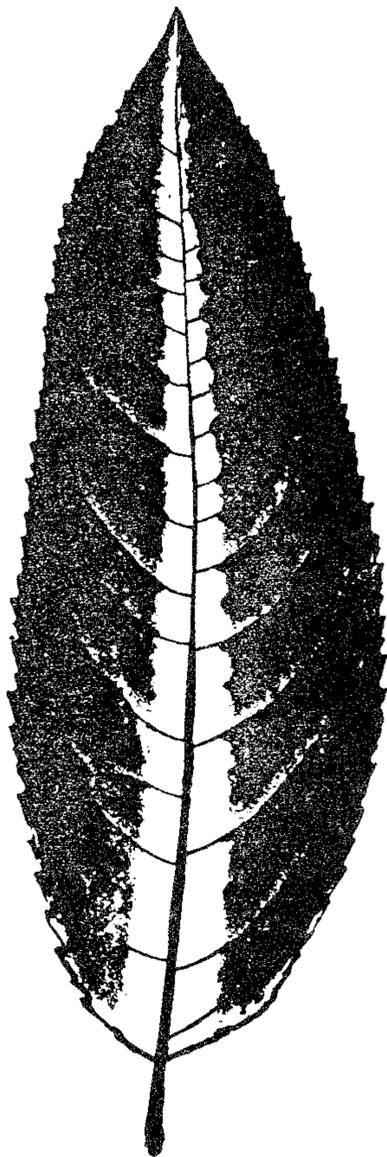
Scott Sundberg

## Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you recognize this native woody plant? The first person to give the correct scientific name will win a prize. Send your guess on a postcard to:

Peter Zika  
4230 NW Clubhouse Pl., #1  
Corvallis, Oregon 97330



1  
cm

Winner of the May puzzle was Mary Pakenham-Walsh of Portland. She was the first to recognize *Thalictrum alpinum*, dwarf or alpine meadowrue.

## Endangered Species Act Update

New contentious issues continue to surface regarding reauthorization of a strong Endangered Species Act.

Three recent adverse court decisions -- one based on an Oregon challenge to the Act (The Sweet Home Chapter of Communities for a Great Oregon vs. Babbitt) -- are blatantly anti-wild species preservation. They set the stage for evisceration of the Act, should HR 1490 or S 1521 (see March, 1994 Bulletin) become the law of the land as part of the reauthorization process.

Three recent bills to amend the ESA have been introduced: HR 3978, the Pombo bill, limits protection to only those species determined to be "in the national interest to protect"; eliminates protection for bald eagles, grizzly bears, brown pelicans and other currently listed "populations"; requires review by an independent scientific team of a recovery plan before a species can be listed; authorizes government compensation to private parties for a variety of "losses" and for independent research; narrowly redefines "critical habitat" and "species."

Doolittle (California) has proposed requiring a published economic impact statement together with a cost-benefit analysis as a condition for ESA listing. This requirement would apply retroactively to all actions designating critical habitats, recovery plans and threatened species rules for all species listed since January 1, 1986. Work on all 400 species would have to be done within 12 months of bill passage. Enforcement or implementation could only be made with a favorable cost-benefit determination.

HR 3875 ("Private Property Owners Bill of Rights") is an amendment to both the Endangered Species Act and Section 404 of the Clean Water Act, introduced by Louisiana Representative Tauzin. This would limit agency entrance to private property to "collect information about the property," as it would require prior written consent of the landowner. It also requires government compensation to a landowner if any portion of his property becomes reduced in value by fifty per cent, as a result of any action under either law. It gives the government no express authority to dispute a landowners' claim for compensation and allows landowners a double opportunity to claim compensation.

The Endangered Species Coalition (ESC) is planning nationwide public meetings in the fall, including Seattle, Washington, to develop awareness and support for reauthorization of a strong ESA. In addition, it is developing a panel of scientists willing to speak at meetings, to update groups on the ESA reauthorization process. NPSO chapters interested in contacting the Coalition's coordinator, for more information or to assist in planning may write: (Should the PNW be in Portland as well as Seattle?)

**Faith T. Campbell**  
**Natural Resources Defense Council**  
1350 New York Avenue NW  
Washington, D. C. 20005  
Telephone 202-783-7800  
FAX 202-783-5917

Chapters may also request from Ms. Campbell a packet of information on the Act and on lobbying techniques.

Two April 14, 1994 letters supporting reauthorization of a strong ESA, one to Congressional representatives, signed by 55 organizations, and one to United States senators, signed by 34 organizations, were included in the latest packet from the Endangered Species Coalition. The name of only one clearly identifiable Pacific Northwest environmental organization was among them.

It is hard to believe that here in the Northwest, the locale of perhaps the most bitter of all recent ESA struggles, we are not doing our part to support, endorse and lobby for a strong Endangered Species Act. It is clear that letters, funds and advocates are urgently needed. NPSOers we need to wake up, smell the coffee and get into the Act; non-action is likely to pull the rug of species protection out from under us before we know it.

Mariana D. Bornholdt  
Willamette Valley Chapter

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### **ONRC Botany Field Trip, July 2-4**

Wendell Wood, ONRC's South Central Field Coordinator, will lead a botanical and birding field trip to the Klamath Marsh National Wildlife Refuge and surrounding pine forest and natural areas (east of Crater Lake National Park) on July 2, 3 and 4. You may arrive at Wendell's cabin near the refuge and camp on Friday evening, July 1. Restroom and cooking facilities provided. Limited sleeping space inside. Rendezvous each morning

at the cabin at 9:30. July 2: Emphasis on plant ID; Wendell has developed a list of 350 plant species around the Marsh. Saturday night slide show on increased breeding bird productivity in the Klamath Basin Wildlife Refuges. July 3: Canoe or hike up Williamson River Canyon (Bring your own canoe). July 4: Early morning bird trip and 2 hour litter pick. Reply by June 25 to: Wendell Wood, ONRC, PO Box 667, Chiloquin, OR 97624. 503-783-2206. Send SASE envelope for directions and information. To participate, if not already a member, we would appreciate your joining. Individual membership is \$25.

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### **Guidelines for Contributors to the Bulletin**

NPSO Bulletin published monthly as a service to members and the public. All kinds of contributions welcome.

**Copy due by the 10th of each month.**

**CREDITS:** Identify author and affiliation. If not original, cite source and date.

**ILLUSTRATIONS:** Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for our current needs, or send illustrations with article.

**BOTANICAL NOMENCLATURE:** Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

**FORMAT:** Submissions can be in any form, but at present editor prefers hard copy. Use of a modem is not possible now. Editor follows "The Associated Press Stylebook." For further details consult editor.

**ORIGINALS:** Submissions are not returned unless requested.

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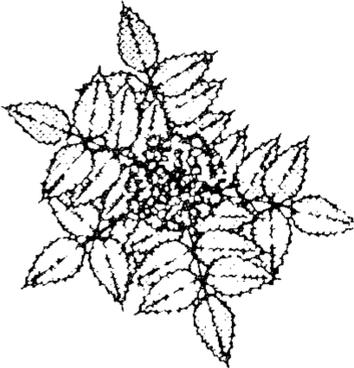
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