

Bulletin of the Native Plant Society of Oregon

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

VOLUME 27

NUMBER 5

MAY 1994

ISSN 0884-599

State News

May 13-15 **Annual Meeting:** In Ashland. See the March and/or the April Bulletin for details. Map of Ashland inserted in this issue.

Chapter News

Blue Mountain

May 2, Mon. **Meeting:** 7 P.M. Small Business Development Center, 37 SE Dorian, Pendleton. James Mciver, La Grande entomologist, will speak on arthropod communities on a native plant.

May 15, Sun. **Work Day:** We will car pool to Lindsay Prairie to pull weeds, clean out barbed wire, etc. at the Nature Conservancy site. Bring gloves, boots, etc. and lunch. Meet at the NE corner of the Safeway parking lot, Pendleton, 8 A.M. Call Bruce Barnes, 276-5547, for information.

May 21, Sat. **Field Trip:** Joint trip with the Bird Club, up Lick Creek trail from Umatilla Forks to the Tollgate Chalet. To coordinate people and vehicles at both ends, RSVP to Jerry Baker, 566-3381.

May 22, Sun. **A "Fun" Work Day:** Help staff information booth at the Deadman's Pass rest stop, for "Wildflowers for 18-Wheelers," sponsored by the USFS program, "Celebrating Wildflowers." Eastbound: 10-11:30 A.M. Westbound: 1-2:30 P.M.

June 4, Sat. **Field Trip:** Car pool to Bull Prairie Reservoir, south of Heppner. Meet at 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, Kari Yanskey, USFS, Ukiah.

Corvallis

May 7, Sat. **Field Trip:** Laurel Devaney of Finley National Wildlife Refuge will lead a trip to the

wet prairie in the Willamette Floodplain Research Natural Area at the refuge. We'll brainstorm with her about a proposed interpretive walkway, and attempt to add to the refuge plant list. Meet at 9 A.M. to car pool from the parking lot across from the campus Beanery (26th & Monroe) or 9:30 at the refuge where the north entrance road turns west and splits (about 2 mi. from Hwy 99W). Call Dick Brainerd, 758-4500, for more information.

May 9, Mon. **Meeting:** 7:30 P.M. Room 2087, Cordley Hall, OSU campus. Wilbur Bluhm will talk on "Native Rhododendrons." Call Keli Kuykendall, 758-8409, for information.

Emerald

May 15, Sun. **Show:** Spring wildflower show at Mt. Pisgah Arboretum, 10 A.M. to 4 P.M., co-sponsored by the Emerald Chapter

May 23, Mon. **Meeting:** 7 P.M. Morse Ranch Park. Directions from downtown Eugene. Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Sarah Greene will speak on "Botanizing Research Natural Areas in Oregon."

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.

High Desert

May 21, Sat. **Field Trip:** Crooked River grasslands. This day trip will be to an area between Bend and Madras, to see efforts to restore damaged grassland and riparian ecosystems. Call Stu Garrett, 389--6981 evenings, for information.

May 24, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Annual plant identification seminar, including slide show and collected live specimens.

May 24, Tues. **Workshop:** 3-8:30 P.M. "Celebrating the Wildflowers of Central Oregon." Learn to identify the most common wildflowers of central Oregon. Hosted by the High Desert Chapter. Central Oregon Environmental Center, 16 NW Kansas, Bend.

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 states 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, 389-6981, evenings, for 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

- May 4, Wed. **Meeting:** 7:30 P.M. Mosier School. Stu Garrett of the High Desert Chapter will speak on his favorite wildflower places in central Oregon. Excellent slides and information.
- 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, at Crates Point Living History Park in the Dalles.
- Officers :** New officers elected were: Michael Igo, president; Allen Bell, vice president; Jeanne Hart, secretary-treasurer; Barbara Robinson, program chair.

North Coast

- May 21, Sat. **Field Trip:** Meet at 10 A.M., Saddle Mt. parking lot, for a hike to the summit. for more information on car pooling, call Jim Winslow, 842-2246.
- May 31, Tues. **Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell Ave. Program to be announced. Call Jaylen Jones, 842-7710, for information. For field trip information call Jim Winslow, 842-2246.

Portland

- May 8, Sun. **Field Trip:** Barbara Robinson will lead to a newly acquired area above Memaloose in the Columbia Gorge. Meet at Lewis & Clark State Park at 8:30 A.M.
- May 10, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 SW Jefferson St., Portland. Bowen Blair Jr., Trust for Public Land, will give an illustrated talk, "Preserving unique open space in Oregon -- especially the Columbia Gorge."
- May 22, Sun. **Field Trip:** Julie Thiel will show us *Erythronium elegans* and other interesting plants on Mt. Hebo. Meet at the Tualatin K-Mart parking lot, I-5 exit 289, 8:30 A.M.
- May 28, Sat. **Field Trip:** Lance Holmberg, botanist at Bear Springs Ranger Station, will lead to Hunter Prairie. Meet at Ashley's Restaurant, Boring exit, Hwy. 26, at 8:30 A.M.
- June 2-5, Th.-Sun. **Field Trip:** Special 4 day trip to Hart Mountain 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 \$50 tax deductible donation will go to NPSO. Call Annmarie Housley, 282-0189, for information.

Siskiyou

- Meeting:** Due to annual state meeting in Ashland, there is no May chapter meeting.
- May 28, Sat. **Field Trip:** To "Celebrate Wildflowers" Barb Mumblo will lead an all day hike to Baldy Peak/Mule Mt., in the Applegate Valley. Meet at Star Ranger Station (7 mi. south of Ruch) at 9 A.M. In this low elevation, diverse area we may see *Mimulus*

kelloggii and *Camissonia graciliflora*, small, annual species more common in California.

South Coast

May 21, Sat. **Field Trip:** Cape Sebastian. Enjoy a nice walk to view coastal headland wildflowers. Meet at Gold Beach Ranger District, 10 A.M. Call Bruce Rittenhouse, 888-9328, for more information.

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

May 12, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Bring native plants for study and identification. Call Ted Schattenkerk, 679-6953, for information.

May 28, Sat. **Field Trip:** To Squaw Flats. 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 information.

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, as above. Call Jack Stubbs, 673-8046, for information.

Willamette Valley

May 1, Sun. **Field Trip:** Here's your chance to botanize in Seneca Fouts Memorial Park, just west of Hood River, one of the Columbia Gorge's least-known state parks. Margie Willis will introduce us to this area of wildflowers and early Oregon history. Easy, level walking. From Salem, meet at North K-Mart parking lot, 7:45 A.M., from Portland, at Lewis & Clark State Park parking lot, 9:15 A.M. Call Wilbur Bluhm, 393-2934, for more information.

May 14, Sat. **Field Trip:** Wildflowers at Finley Wildlife Refuge, led by Barbara and Glenn Halliday. Easy hike. Meet at South Salem K-Mart parking lot, 8 A.M. For more information, call the Hallidays, 371-1025.

May 16, Mon. **Meeting:** 6:30 P.M. Meet in Meryl's parking lot, on the west side of Lancaster, just north of Sunnyview, for car pooling to Noble Bashor's garden, , 11296 Sunnyview, east of Piatum. Call 399-9680 for more information.

May 18-20,
Wed.-Fri. **Field Trip:** Wildflowers, other local interests of Leslie Gulch and Succor Creek, Malheur County, Oregon. Meet at 9:30 A.M., Succor Creek State Recreation Area camp ground, about 40 mi. south of Nyssa, via hwys. 20 and 201. May 20-21, further botanizing in area. Accommodations available at Ontario or Vale. Call George Schoppert, 859-2613, for more information.

May 28, Sat. **Field Trip:** Horse Rock Ridge, a pristine wildflower area in low Cascades, led by Clint Urey. Easy to moderate hike. Meet at South Salem K-Mart, 8 A.M. From N. or S. via I-5, take Stayton-North Santiam-Mission St. exit, 253, then 1/2 mi. W. toward Salem to K-Mart. Call Clint Urey, 393-0886, or Wilbur Bluhm, 393-2934, for information.

Wm. Cusick

Meeting: No May meeting. Call Bob Ottersberg, 963-6043, for more information.

May 14, Sat. **Field Trip:** Jean Findley will lead a walk and work party to the Leslie Gulch Area of Critical Environmental Concern. Five listed plant species and unique geology occur at this site. Bring gloves and digging tools for a little weed control. Camping possible. Meet at Marsing Park, west side Snake River, 9:30 A.M., or Leslie Overlook, 10:30 A.M. Call Jean, 473-6233, for more information.

May 21, Sat. **Field Trip:** Hike to view spring, desert wildflowers. Meet at 10 A.M. at the front door of the Oregon Trail Interpretive Center, 5 miles east of Baker City. Hike sponsored by BLM and Wallowa-Whitman National Forest. Paula Brooks will lead. Call 523-7564 for more 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. 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.

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 the month.**

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

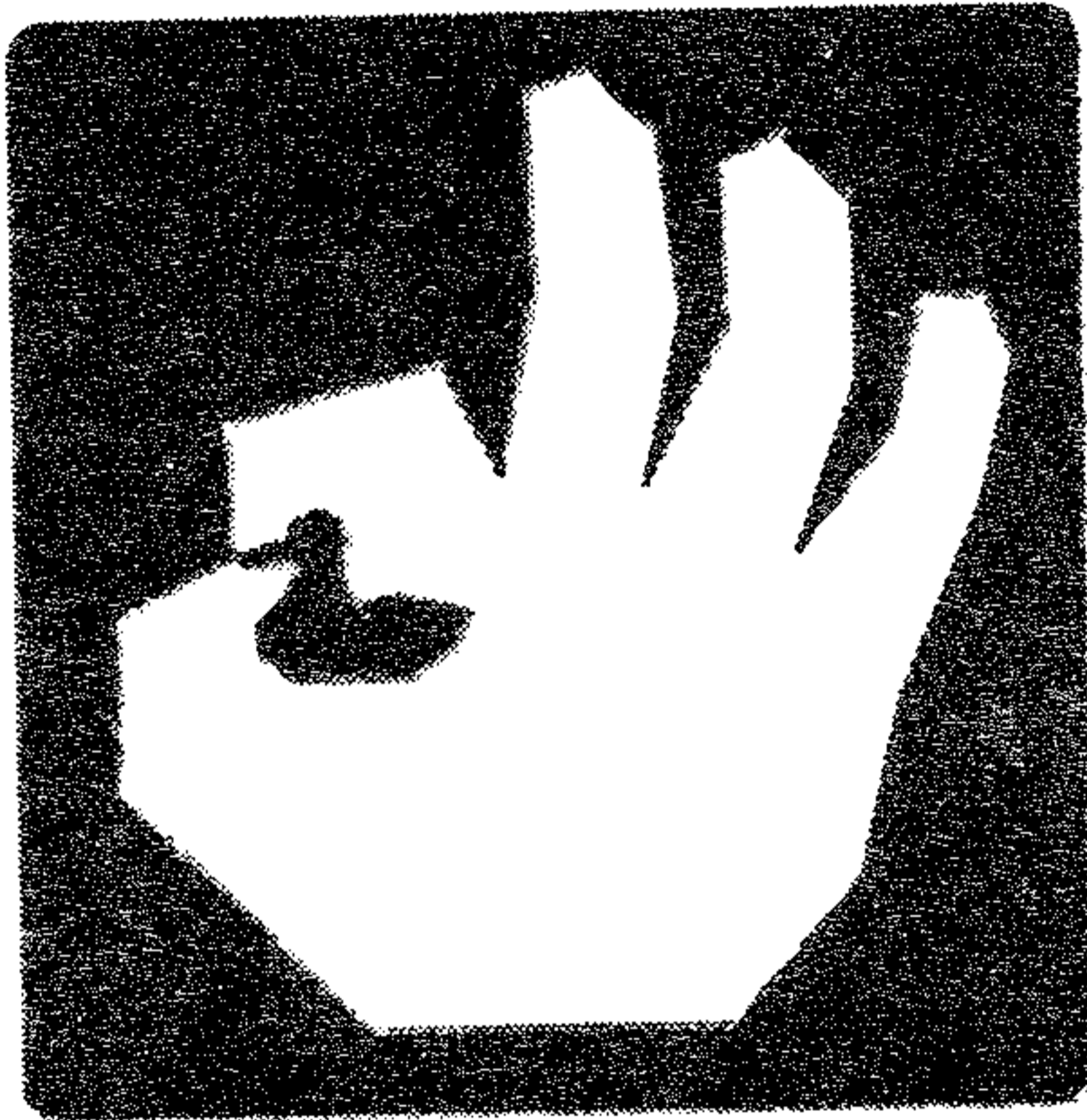
ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for our current needs, or send illustrations with article.

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 at this time. Editor follows "The Associated Press Stylebook" For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

NPSO Gorge Poster Wins Award



FIFTH ANNUAL DRAKE AWARDS. THE WINNERS.

The first of NPSO's "Rare Plants of Oregon" poster series has won an award. In the annual Drake Awards for the Ad Club of Central Oregon, "Rare Wildflowers of the Columbia Gorge" was given an award of merit for the category of 4-color posters. There were many strong candidates in this category, and NPSO thanks graphic artist Susan Higdon for her help in design.

The Society can be proud that it is accomplishing its educational mission with such excellence. Order your copy of this award-winning poster today!

Stu Garrett
Poster Chair

**We Welcome New Members
Joining Between January 1st
and February 19th, 1994**

At Large

Braatne, Jeffrey H.
Hoffmann, Siegfried W.

Blue Mountain

Cahill, Kelly
Wilkins, Dale E.

Corvallis

Danler, Signe
Drapek, Raymond
Eversole, Lisa Loewen
Fiorella, Maria
Kolar, Sue
Oregon Coast Aquarium
Pearson, Brian
Russell, Barbara E.
Sundberg, Scott
Watrud, Lydia S.
Willowmoon, Margaret A.

Emerald

Cowin, Tom
Dearborn, Hilary
Mount Pisgah Arboretum
O'Kelley, Cathy

High Desert

Fava, Linda
Wuehler, H. Dee

Mid-Columbia

Lewis, Suzi
Wallace, Nancy

Portland

Beaston, Bill R.
Crowe, Ray
Friends of Forest Park
Hillyer, Anne
Kee, Jeffrey A.
Ledbetter, Connie & Cahall, Darleen
Newton, Mark & Sandra

Siskiyou

Beigel, Jennifer
Hamilton, Elaine
Hayes, Midge
Lynn's Landscapes & Irrigation

Umpqua Valley

Robertson, Jean

Willamette Valley

Howard, Alma L.

NPSO Items For Sale

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 Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett (see above). \$1 each; minimum order is five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one drawn by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Notecards are sold through NPSO chapters, and cost \$4 per packet. Contact Lisa Croft, 699 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and telephone numbers of members, as of April, 1993. Available from Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. \$2 each.

For Sale

Do you need four volumes of "Intermountain Flora"? I have little use for them in Coos Bay. I have Volume I (Introduction, Vascular cryptogams, Gymnosperms); Volume IIIB (The Fabales); Volume IV (Subclass asteridae -- except asteraceae) and Volume VI (Monocots). All four volumes are in excellent condition, except for being dusty, and are for sale at \$45 each. Call Bruce Rittenhouse, 756-0100 (w), 888-9328 (h).

Future Western Lily Management Discussed

One of the rarest plants in Oregon is the western lily (*Lilium occidentale*). This species occurs along the southern Oregon coast, approximately from Coos Bay south to Humboldt Bay, California. Currently there are 28 widely scattered populations occurring in Oregon coastal bogs, and ocean bluffs on poorly drained soils, usually underlain by an iron pan or poorly permeable clay layer. Because of its rarity (an estimated 400 flowering plants in 1989) and threats (loss of habitat from development and succession) this species has been proposed for listing as endangered under the Endangered Species Act. It is for these reasons that a group of botanists from Oregon and California who are knowledgeable about the species, land owners (Oregon State Parks, BLM) and regulatory agencies (U.S. Fish and Wildlife Service, Oregon Department of Agriculture) met at the Berry Botanic Garden (BBG) to discuss the biology, the current status, develop an exchange of information and look at potential future management strategies. The meeting was organized and hosted by Ed Guerrant of BBG, and funded by the Center for Plant Conservation.

Stewart Schultz, who wrote the Status Report for western lily, presented information on the biology of the species and the rangewide status as of 1989. Dave Imper and Dan Salzer provided information on the status and monitoring work done on western lily in California and Oregon, respectively. Much more effort in monitoring and habitat manipulation has been done in California. Margie Willis, Oregon State Parks, described the situation of western lily on state park land.

Future management possibilities include land acquisition, habitat manipulation (removal of encroaching shrubs), population enhancement, re-introductions, and increasing inventories to locate new populations (some new populations may be on private land, or in areas inaccessible because of brush) and developing an information source for the species (which BBG volunteered to do). The steps the group recommended include: setting up a group of volunteers to help with and activities (monitoring, habitat manipulation), developing a methodology for monitoring the species rangewide, and increasing the awareness of land-owners. Management objectives will be developed for each location.

Dan Salzer and Dave Imper will develop a
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rangewide methodology for monitoring populations using permanent photo points and simple sampling to determine the trends in populations and habitat which will provide better information to make management decisions for the western lily.

The volunteer effort is an excellent opportunity for the NPSO (and specifically the new South Coast Chapter) to help with the protection, monitoring and restoration of this species. If you are interested in helping, please call Bruce Rittenhouse, 756-0100 (work), 888-9328 (home).

Bruce Rittenhouse
South Coast Chapter

Wanted

Eastern Oregon amateur botanists who are familiar with locations where *Trifolium* (clover) seeds may be collected.

For details contact: N.L. Taylor, Department of Agronomy, N222 Ag Science Center North, University of Kentucky, Lexington, KY 40546. Telephone (606) 257-5785. FAX (606) 323-1928. E-mail AGRO79@UKCC.UKY.EDU.

Wallowa-Whitman Sensitive Plant Program

The questions and answers here were written in response to a request from a local reporter. He wanted to know if rare plants are going to be the "next spotted owl." I tried to explain our rare plant program and how the plant list is developed for the Forest Service in Region Six. Hopefully this document provides a good overview of our entire botany program and demonstrates that protecting biodiversity is not an obstacle to good forest and range stewardship.

1. What plants are endangered, threatened, sensitive? Is the decision subjective, or are there criteria the Forest Service must follow?

The Forest Service Sensitive plant list includes both federal and state listings of "Threatened," "Endangered" and "Candidate" species, as well as other species that may be added to the lists if their habitats are not properly managed. Any plant listed by either the federal or state of Oregon govern-

ment, or that is a candidate for those lists, is automatically included on the regional forester's list. Other species that are rare or are potentially threatened are also included.

In the Wallowa-Whitman National Forest, 72 species of plants are currently listed as Sensitive. Of these, 55 are documented in the Forest, and 17 are suspected to occur there, but have not been found.

The definitions of Endangered and Threatened are from the Endangered Species Act. For a plant to be listed under this act, there is a formal process that the U.S. Fish and Wildlife Service must follow. The decision to list a species is strictly based on scientific merit. Candidates are species that are being considered for listing in either category.

Oregon also has its own endangered species act, with a formal process. It considers input from Oregon botanists and the public.

The Wallowa-Whitman National Forest is the only national forest in Oregon with a federally listed plant species, MacFarlane's four o'clock (*Mirabilis macfarlanei*). And, 21 species are federal candidates. Three species are currently listed as Endangered or Threatened by the state, and there are 19 candidates, known or suspected in this Forest.

The Sensitive plant list is updated every couple of years, and is sanctioned by the Regional Forester in Portland. Recommendations of the Washington and Oregon Natural Heritage program publications are generally followed. This means that all the plants that are listed by those programs as T/E throughout their ranges (List 1); or as T/E in that state, but more abundant elsewhere (List 2) are currently on the Regional Forester's Sensitive species list. The Forest Service is currently reviewing the process for developing this list. If you would like to provide input, please contact the Regional Botanist, Dean Longrie, P.O. Box 3623, Portland, OR 97208, or telephone 503-326-4091.

Because the Wallowa-Whitman administers land in Idaho (part of the Hell's Canyon National Recreation Area) the sensitive species list includes plants in Region One (northern Idaho) and Four (southern Idaho) as well as Region Six (Oregon and Washington). This complicates and increases the size of the list. Because of this, and northeastern Oregon's botanical complexity, the list is the third largest in Region Six, only Siskiyou and Wenatchee having more species.

Reasons for rarity generally fall into one of three categories.:

GLOBAL RARITY (ENDEMIC SPECIES) Some rare plants may only occur in a few sites in the world. These are often the species federally or state listed as Threatened or Endangered. MacFarlane's four o'clock is an example. It is found at the bottom of the Snake and Salmon River canyons -- and nowhere else. It is believed to have originally grown throughout the area. But as climate cooled, it is now able to survive in only the hottest parts of the lower canyons. Currently listed as federally Endangered, it is proposed for down-listing to Threatened. One reason is the the Forest Service is actively managing the habitat, to enhance conditions for the species.

Another species in this category is Greenman's lomatium (*Lomatium greenmanii*). This small plant is only found on Mt. Howard, and one other remote mountain in the Wallowas. It is extremely rare, and is found right on the top of Mt. Howard where hundreds of people a day visit in summer. The habitat for this plant is being cooperatively managed by the Wallowa-Whitman National Forest and the Wallowa Lake tramway. The tramway has provided financial assistance and labor to improve the trail system and erect signs explaining the importance of people staying on the trail. With this cooperation, the plant is being protected and people are still able to visit this wonderful site.

Several other species of plants are found in northeastern Oregon and nowhere else in the world. The Wallowa Mountains and the Snake River are famous in the botanical community for the unique plants that occur there.

EDGE OF RANGE OR DISJUNCT SPECIES: Some sensitive plant species are at the edge of their ranges, or are found many miles (often hundreds) from the majority of the populations. They may actually be fairly common in other parts of the country or the world. Populations of these species have adapted to living at the limits of their physical and biological conditions, as compared to their main population areas. These populations therefore represent an important component of the genetic bank for the species. Many rare plants of this type that occur in Wallowa-Whitman are normally found in the arctic or Rocky Mountains.

One plant that is normally very common in the Rocky Mountains, and very rare in Oregon, is the many-flowered phlox (*Phlox multiflora*). This pretty, white-flowered phlox has been found at

one site in the La Grande district, and one place in Union County. No one knows exactly why, but this species, normally occurring hundreds of miles away, has been able to survive and reproduce in the Blue Mountains.

Another example of a plant outside its normal range is the small northern bog orchid (*Habenaria obtusata* or *Platanthera obtusata*). This tiny orchid is found in two river drainages of the Wallowas, and nowhere else in Oregon. It is, however, more common in Alaska, Canada and northern Europe, the climate in the Wallowas being similar to those more northerly areas. So, the plant can survive much farther south than normal.

GENERALLY RARE SPECIES (nice scientific term, eh?): Some species are uncommon, but relatively widespread. These plants may be found over a large geographic area, but with few individuals in each population, and with few populations even though there is suitable habitat.

An example is the clustered lady slipper (*Cypripedium fasciculatum*). This small orchid has not been found in the Wallowa-Whitman, but there is a good chance it may occur here. It grows in coniferous forests in several western states, but is never found in abundance and only occurs in widely scattered populations. Another example is the long-bearded sego lily (*Calochortus longebarbatus* var. *longebarbatus*). It is found in moist meadows in the La Grande district, but not anywhere else in the Wallowa-Whitman National Forest. It also occurs in widely scattered populations from south central Washington to northern California.

2. What is the Forest Service doing to protect these plants? Are there any threats to these plants?

The Forest Service policy is to maintain the viability of all plants and animals in National Forests. To accomplish this, biologists and botanists conduct the Biological Evaluation process for all projects. For plants it includes four steps. Step one assesses whether there may be sensitive plants in the area, and if the project might have a negative impact on them. Step two looks for rare plants. This must be done at the right time of year. If a rare plant is found, step three is a risk assessment. If not enough information is available, step four is begun, involving literature searches, contacting other botanists, and learning as much as possible about the plant and its needs.

Potential threats include roadbuilding, cutting down trees important to the habitat, recreational

use and grazing by wild and domestic animals.

3. Has legal action had any impact on these plants? Could any of them stop timber sales?

The Regional Forester's Sensitive species list is an internal regulatory mechanism. It has been developed without the use of lawsuits and the courts. Before the Wallowa-Whitman had any botanists there were some timber sales that were successfully appealed because the Biological Evaluation process was not followed. Now there are professional botanists in all the districts, and the Biological Evaluation process is followed for all projects, so the potential for appeals is very small.

Sensitive plants are not likely to entirely stop timber sales or other actions. Modifications sometimes occur, but are usually minor. For example, a road or timber sale unit boundary may be adjusted, but most rare plants grow in small, isolated patches so it is usually easy to work around them. Another reason that there is rarely conflict between rare plants and timber sales is that rare plants usually grow in very specific, uncommon habitats, often occurring on cliffs, open scabby areas, or along riparian corridors. These microhabitats are generally avoided or naturally protected, even if there are no rare plants.

4. What is the botanist's role in these matters? What does a botanist do for the Forest Service? What is a botanist's background in botany?

The Wallowa-Whitman National Forest has a botanist in each district. This person is in charge of the Sensitive plant program, and other parts of the botany program. A Forest Botanist, located at the Supervisor's office, oversees the entire program. Botanists not only look for rare plants, but also set up and read monitoring plots to make sure populations are stable or increasing. They are also involved in noxious weed management, stream and rangeland restoration, the watershed analysis program and other activities. Each botanist has a bachelor's degree in botany, or related field. They are required to have 36 credit hours of botany, and attend Forest Service training sessions related to sensitive plants and other botany programs.

Paula Brooks
William Cusick Chapter
Wallowa-Whitman Forest Botanist

Book Review

Flora of North America. Volume 2. Pteridophytes and Gymnosperms, by FNA Editorial Committee. Oxford University Press, New York, 1993, \$75. (See 1/94 Bulletin for a review of volume one.)

Botanists across the continent now have easy access to the most recent taxonomic treatments of conifers, ferns and their allies. All native and naturalized species are covered from Greenland to the Aleutian Islands, south to the Mexican border. The 475 pages of this volume cover a vast amount of information. There are identification keys to the families, genera and species. Each species has a range map, a description, global range description, one or more literature references and a discussion of unusual or distinctive features, written by an expert on the genus. Endemism, weediness, economic use, rarity (on a global scale) and toxicity are touched on. Varieties and subspecies get full attention, with their own descriptions, identification keys and maps.

Professional systematists will be grateful for the diagrams depicting the evolutionary relationships in many of the fern groups. I like the honest mention of taxonomic problems. All readers will find the synonymy useful, especially in the ferns, where the Latin names seem to have a short half-life. Were you unhappy when the new California flora put Port Orford cedar in the genus *Cupressus*? Bingo, FNA has it back in *Chamaecyparis*. (Isn't it nice to have a choice?)

This is a book filled with written descriptions of shapes. These are enhanced with sharp illustrations (by uncredited artists) and useful magnified views. All genera and about 1/3 of the species are drawn. I wish the editors had included more illustrations and left out the abundant blank spaces. Even with all the extra room, reference to the page numbers of the illustrations is found only in the index, not in the text.

One of the nice features of this book is the checklist style statement of range, nicely supplementing the crisp maps and clarifying the distributions where the maps are hardest to read, like in the small eastern states. Every encyclopedic book such as a flora has typos and errors. Oregon users will notice a spectacular goof, where our endemic moonwort, *Botrychium pumicola*, is mapped in southwestern Greenland. But the text properly credits it to Oregon. More difficult to excuse are some omissions. Common clubmoss, *Lycopodium*

clavatum, and *Ophioglossum* are shown throughout Oregon EXCEPT on the coast. Fir clubmoss, *Huperzia occidentalis*, is shown in the Coast Range instead of the Cascades. Bog clubmoss, *Lycopodiella inundata*, isn't shown in Oregon at all, although it is known from six counties. Blame for this can probably be shared by the authors and regional editors, as well as by Oregon botanists. We must meet this challenge to improve our documentation and our communication with specialists in other states. There are 12 more volumes of FNA due in the next 15 years.

All these complaints are insignificant, for this is a first class text with new information for everyone. For example, I learned that the most frequently studied fern genus in the world (*Azolla*), with tremendous economic importance (N-fixing in rice paddies), has virtually unidentifiable species without an SEM and sori. This book will tell you why, yet show you how to identify Oregon species with a good 40X scope and leaves.

If your tastes includes botany, this book makes delicious reading. *Bon appetit*.

Peter Zika
Corvallis Chapter

Checklist of Oregon Flora

A reliable source has reported that a checklist of Oregon flora is in the offing. The information, it is said, will be in a data-base that can, of course, be constantly updated. NPSO members Kenton Chambers, Aaron Liston, Karl Urban and Peter Zika will be involved, along with others. As we learn more details they will be reported, so watch this space for some exciting news!

Oregon Artist Features Native Plants

Mary Moffat, longtime NPSO member, will be showing her paintings of native plants at the Community Center for the Performing Arts, 8th and Lincoln in Eugene, from May 3rd through the 31st. The gallery is open from 3 to 6 P.M., Tuesday through Friday.

Hunter Creek Bog Comments Needed

The BLM, Coos Bay District, is beginning to prepare an Environmental Assessment for the future management of Hunter Creek Bog and North Fork Hunter Creek proposed areas of Critical Environmental Concern. These areas consist of approximately 1800 acres southeast of Gold Beach.

Hunter Creek Bog is the largest, most diverse serpentine bog in the coastal zone of the Siskiyou Mountains. North Fork Hunter Creek consists of rocky prairies, oak-grass savannas, serpentine outcrops and boggy seeps. Many sensitive plant species, including *Allium bolanderi*, *Arctostaphylos hispidula*, *Cypripedium californicum*, *Darlingtonia californica*, *Gentiana setigera*, *Hieracium bolanderi*, *Lathyrus delnorticus*, *Poa piperi* and *Trillium angustipetalum* have been documented in the area. Extensive stands of uninfected Port Orford cedar also occur here. North Fork Hunter Creek contains one of the finest examples of native hardwood riparian vegetation in southwest Oregon and is important habitat for chinook, steelhead and sea-run cutthroat trout. Many unique and rare wildlife species occur in the area, including ringtail cats, Siskiyou Mountain salamanders, Del Norte salamanders, tailed frogs, red-legged frogs and sharp-tailed snakes.

Some potential conflicts include mining and unrestricted recreational use. Many mining claims for nickel surround the bog. Mining could alter the hydrology and affect the bog. Degradation (trampling of plants and trails through wetlands) from unrestricted recreational use has been observed in recent years.

The BLM held two public meetings in late April. A 30-day comment period, **ending on May 27**, asks for comments on how these areas should be managed. When making comments, give specific ideas (example: build a boardwalk in a non-sensitive area to reduce impact) on how you feel the BLM should manage these botanically rich areas. Address comments to: BLM, Coos Bay District, Attn. Bruce Rittenhouse, 1300 Airport Lane, North Bend, OR 97459-2000. NPSO members, especially those who have visited the area, are encouraged to comment.

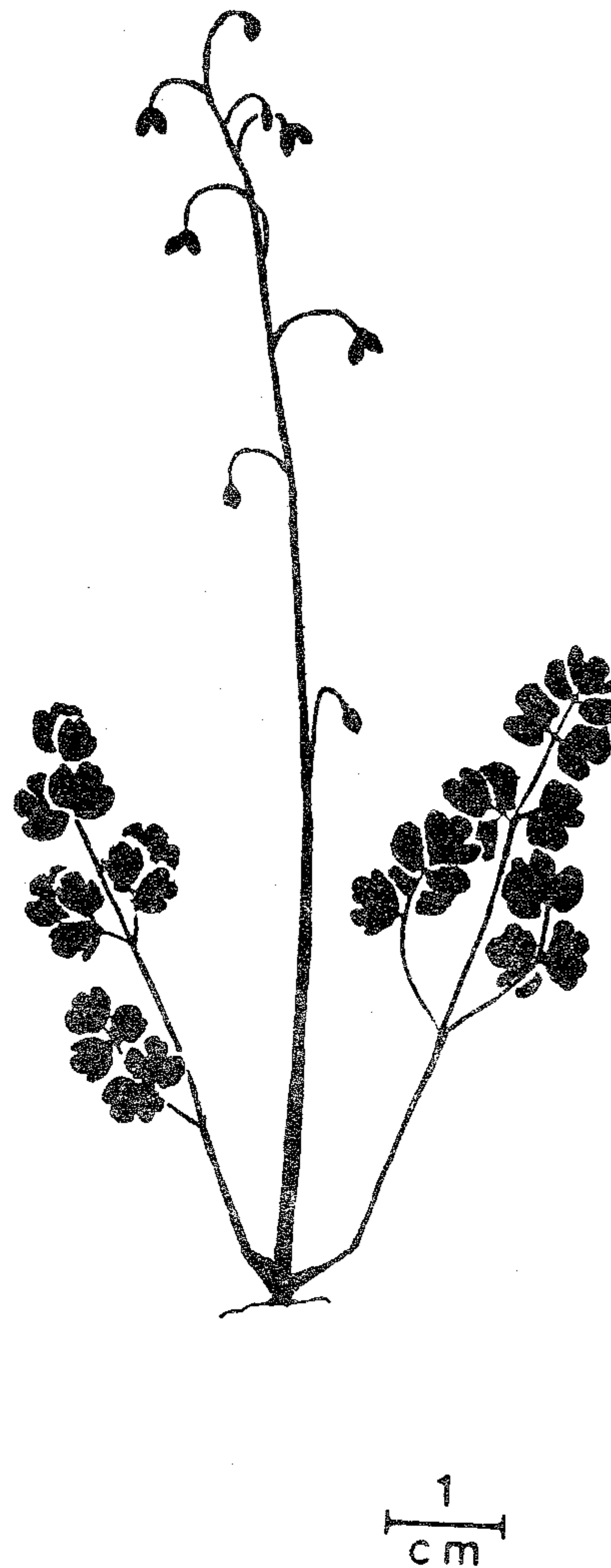
Submitted by the South Coast Chapter

Plant Puzzle

Sponsored by the Siskiyou Chapter

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

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



Jody DeLand of Idleyld Park was the first to solve the April puzzle: yarrow, *Achillea millefolium*.

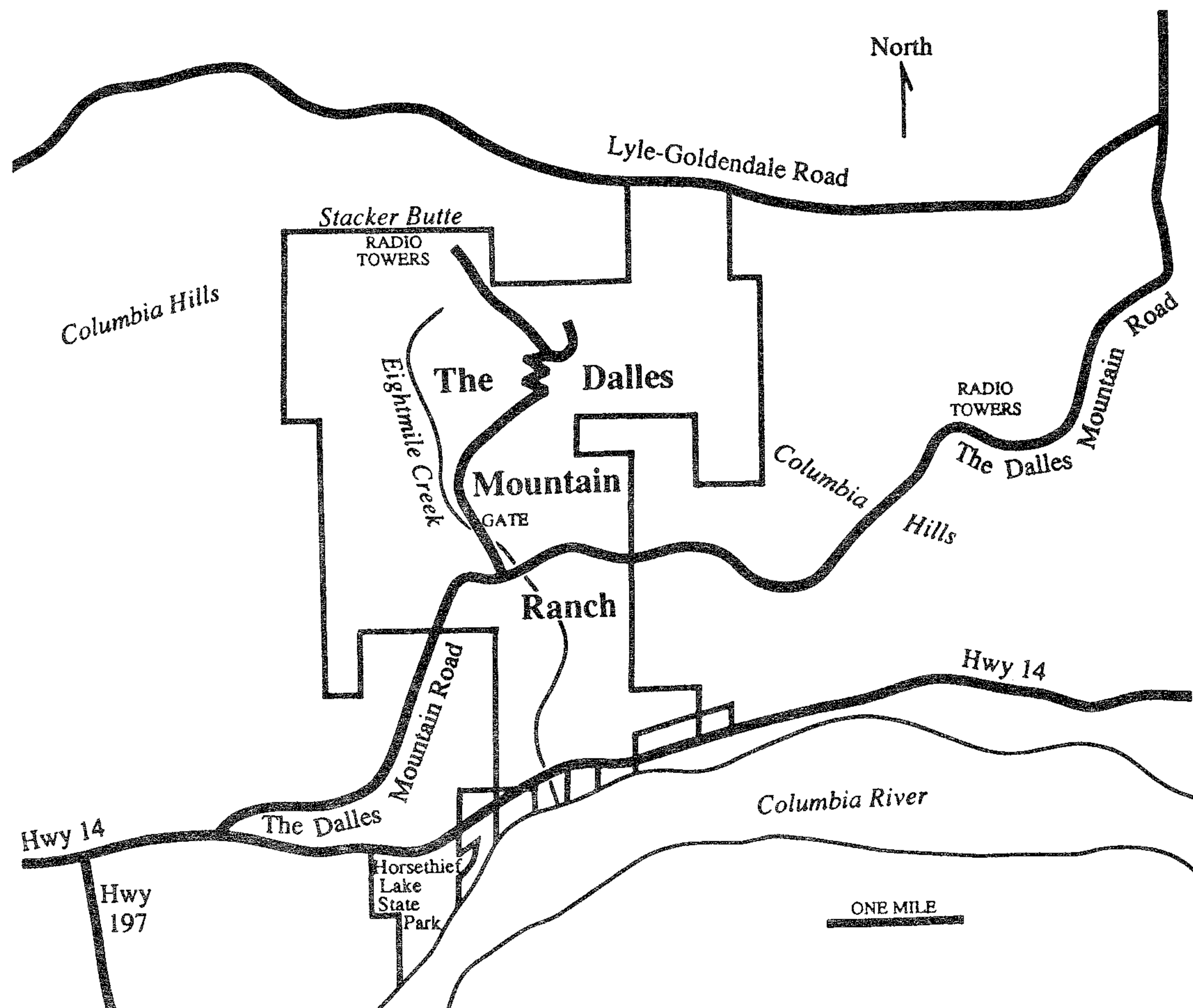
Washington Acquires The Dalles Mountain Ranch

The Dalles Mountain Ranch is now in public ownership. Through the efforts of the Trust for Public Lands and the Friends of the Columbia Gorge, it was purchased from the Bleakney family, its owner for decades, and transferred to the state of Washington. Part will be managed by Washington State Parks, and part by the Washington Department of Natural Resources.

The ranch is over 6000 acres in area, and stretches from the Columbia River just east of Horsethief Lake State Park north to Stacker Butte and the Lyle-Goldendale Road. It is traversed by the Dalles Mountain Road, a county road open to the

public, and by a private road along Eightmile Creek north to the summit of Stacker Butte. Whether this private road will be open to the public, or continues to be gated, depends on management decisions now being made by DNR. According to Nancy Russell, some staff members at DNR have proposed that the northernmost portions of the ranch, where stunning displays of wildflowers are found in April, May and June, be designated with a management classification which prohibits all public entry.

Dave Dobak
Portland Chapter



Map shows the boundaries of the Dalles Mountain Ranch.

List of plants found on The Dalles Mountain Ranch and Horsethief Lake State Park

This list was compiled from NPSO files by Charlene Holzwarth. Numbers at the left indicate the page number on which the species is described in Russ Jolley: *Wildflowers of the Columbia Gorge* (first) and Hitchcock & Cronquist: *Pacific Northwest Flora* (second). For compactness, the family suffix "aceae" has been abbreviated @. Place abbreviations: Columbia Hills, Horsethief Butte, Horsethief Lake State Park, Haystack Butte Road, The Dalles Mountain Road. (Haystack Butte is at the east end of the Columbia Hills, opposite the mouth of the Deschutes River.) Flowering begins: (early mid late - month).

RJ	HC	Species	Family	common name	Habitat, location, and flowering time
12	683	<i>Allium douglasii</i> v <i>nevii</i>	Lili@	Douglas onion	moist open grasslands (m-5)
166	154	<i>Arabis microphylla</i> v <i>microphylla</i>	Brassic@	little rockcress	open rocky outcrops, cliffs, low elev HB (1-3)
107	113	<i>Arenaria franklinii</i> v <i>franklinii</i>	Caryophyll@	Franklin sandwort	open gravel soil, high elev CH, DMR (1-5)
712	487	<i>Artemisia dracunculus</i>	Aster@	dragon wormwood	dry open, low elev (e-9)
715	488	<i>Artemisia rigida</i>	Aster@	rigid sagebrush	dry open, low elev (e-10)
281	255	<i>Astragalus reventiformis</i>	Fab@	Yakima milkvetch	open slopes, HB (m-4)
727	500	<i>Chaenactis douglasii</i> v <i>douglasii</i>	Aster@	hoary false yarrow	dry open, HB (1-5)
668	502	<i>Chrysothamnus viscidiflorus</i> v <i>lanceolatus</i>	Aster@	green rabbitbrush	dry, low elev, HB (9)
611	508	<i>Crepis barbiger</i>	Aster@	bearded hawksbeard	CH, w of DMR (1-6)
613	508	<i>Crepis intermedia</i>	Aster@	gray hawksbeard	top DMR (1-5)
614	509	<i>Crepis occidentalis</i>	Aster@	western hawksbeard	top DMR, HayBR (e-6)
179	165	<i>Draba douglasii</i>	Brassic@	Douglas draba	open gravel flats & top CH (m-4)
677	517	<i>Erigeron poliospermus</i> v <i>poliospermus</i>	Aster@	cushion fleabane	dry, low elev, HB (m-4)
76	80	<i>Eriogonum douglasii</i> v <i>tenu</i>	Polygon@	Douglas buckwheat	dry open flats & slopes, all elev (m-5)
74	81	<i>Eriogonum thymoides</i>	Polygon@	thyme-leaved buckwheat	dry stony ground, high elev, top CH (6)
373	308	<i>Gaura parviflora</i>	Onagr@	small-flowered gaura	HLP, HB (6)
648	523	<i>Gnaphalium microcephalum</i>	Aster@	slender cudweed	dry open; roadsides; low elev (8)
682	525	<i>Haplopappus carthamoides</i>	Aster@	rayless goldenweed	top DMR (m-7)
44	697	<i>Iris missourensis</i>	Irid@	western blueflag	vernal moist meadow, streambank, HB (m-5)
45	697	<i>Iris pseudacorus</i>	Irid@	yellow flag	streambanks lake margins, low elev, HB (m-5)
97	106	<i>Lewisia rediviva</i>	Portulac@	bitterroot	dry gravel soil, open areas (e-5)
387	332	<i>Lomatium canbyi</i>	Api@	Canby biscuitroot	open slopes, all elev (e-3)
393	333	<i>Lomatium macrocarpum</i>	Api@	grayleaf desert parsley	open ground, all elev (1-3)
--	331	<i>Lomatium watsonii</i>	Api@	Watson desert parsley	open hillsides w/ sagebrush ()
302	267	<i>Lupinus leucophyllus</i>	Fab@	velvet lupine	dry open ground, all elev, DMR (6)
738	539	<i>Madia citriodora</i>	Aster@	lemon scented tarweed	dry hillsides, top DMR (e-6)
721	540	<i>Matricaria matricarioides</i>	Aster@	pineapple weed	roadsides, waste places, DMR (1-5)
491	395	<i>Mertensia oblongifolia</i>	Boragin@	prairie mertensia	grassy, high elev; top CH (1-4)
101	108	<i>Montia spathulata</i>	Portulac@	pale montia	open ground, HB (1-3)
507	405	<i>Nepeta cataria</i>	Lami@	catnip	roadsides, streambanks, low elev, HB, DMR (m-7)
378	312	<i>Oenothera contorta</i>	Onagr@	slender evening primrose	dry sandy areas low elev HB (m-5)
575	445	<i>Orobanche fasciculata</i>	Orobanc@	clustered broomrape	dry open, HB (1-5)
556	434	<i>Penstemon deustus</i> v <i>variabilis</i>	Scrophulari@	scorched penstemon	open ridge CH west of DMR (1-6)
465	375	<i>Phlox hoodii</i>	Polemoni@	Hood phlox	open ridge CH; gate at HayBR (m-4)
467	374	<i>Phlox speciosa</i>	Polemoni@	showy phlox	open wood, grassland; mid-high elev DMR (m-4)
136	173	<i>Phoenicaulis cheiranthoides</i>	Brassic@	daggerpod	open gravel; mid-high elev DMR (4)
579	448	<i>Plantago patagonica</i>	Plantagin@	indianwheat	dry sandy, low elev HB (1-5)
88	87	<i>Polygonum majus</i>	Polygon@	wiry knotweed	dry gravel/sandy, low elev (7)
250	218	<i>Potentilla gracilis</i>	Ros@	graceful cinquefoil	moist open & woods, low-mid elev HB (m-5)
256	221	<i>Prunus virginiana</i> v <i>melanocarpa</i> *	Ros@	choke cherry	open slopes, woodland; low elev HB (e-5)
* compare with v <i>demissa</i> found west of Beacon Rock					
147	137	<i>Ranunculus reconditis</i>	Ranuncul@	obscure buttercup	open grassland, top CH, top DMR (e-3)
263	223	<i>Rosa woodsii</i> v <i>ultramontana</i>	Ros@	pearhip rose	moist open & woods HB (1-5)
91	92	<i>Rumex occidentalis</i> v <i>procerus</i>	Polygon@	western dock	drying vernal pond margins, streambanks (e-5)
511	408	<i>Scutellaria angustifolia</i>	Lami@	narrowleaf skullcap	dry open rocky, low elev (e-5)
117	118	<i>Silene menziesii</i> v <i>viscosa</i>	Caryophyll@	Menzies campion	streambank moist meadow, low elev HB (m-5)
47	698	<i>Sisyrinchium douglasii</i> v <i>douglasii</i>	Irid@	grass widow	open grass, low elev, west (e-3)
47	698	<i>Sisyrinchium douglasii</i> v <i>inflatum</i>	Irid@	grass widow	open grass, high elev, east (e-3)
42	696	<i>Zigadenus paniculatus</i>	Lili@	panicked death camas	dry open slopes, low elev, HB (e-4)

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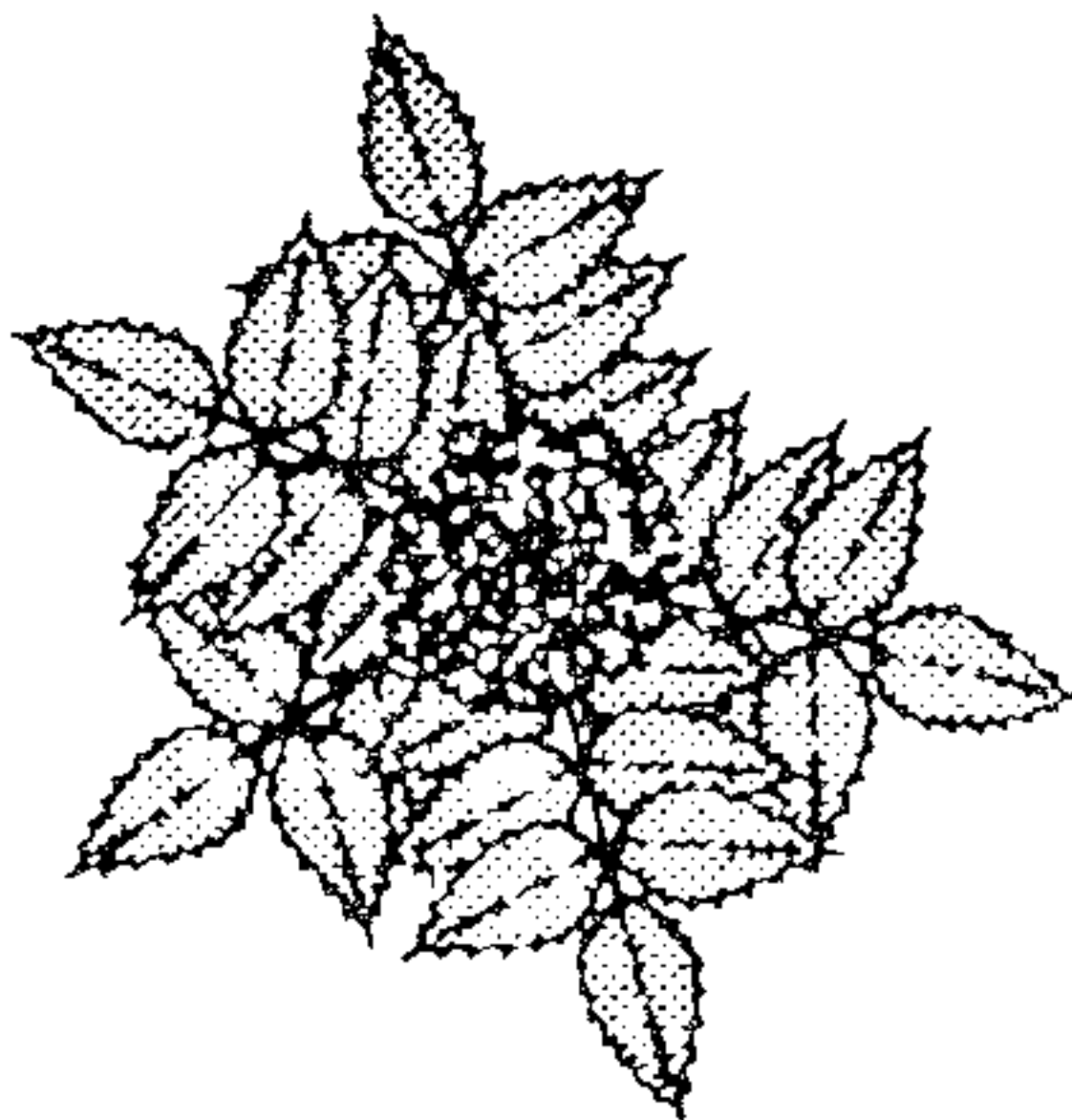
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